				Revised March 23, 2017
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Well Name:				
			Pool C	code:
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[1] Com [ [11] Injec	ne only for [ I ] or [ II ] mingling – Storage – Mo ] DHC CTB PL tion – Disposal – Pressu ] WFX PMX SV	re Increase - Enhan	ced Oil Recover	
A. Offset  B. Royal  C. Applic  D. Notific  E. Surfac  G. For all	REQUIRED TO: Check to operators or lease hold by, overriding royalty overation requires published ation and/or concurred ation and/or concurred to the above, proof of tice required	ders vners, revenue owne ed notice ent approval by SLO ent approval by BLM		FOR OCD ONLY  Notice Complete  Application Content Complete  ed, and/or,
administrative understand th notifications a	I: I hereby certify that t approval is accurate a at no action will be tak re submitted to the Div	and <b>complete</b> to the en on this applications ision.	e best of my know on until the requi	wledge. I also ired information and
No	ote: Statement must be complet	ted by an individual with m	anagerial and/or supe	rvisory capacity.
			Date	
Print or Type Name				
2000	$\mathcal{L}$		Phone Number	
Pathy	h		rnone numbel	

e-mail Address

Signature



Paula M. Vance Associate Phone (505) 988-4421 Fax (505) 819-5579 pmvance@hollandhart.com

April 22, 2024

#### **VIA ONLINE FILING**

Dylan Fuge, Acting Division Director Oil Conservation Division New Mexico Department of Energy, Minerals and Natural Resources 1220 South Saint Francis Drive Santa Fe, New Mexico 87505

Re: Application of Matador Production Company to amend NMOCD Order CTB-1102 and for administrative approval to surface commingle (lease) oil and gas production from the spacing units comprising Sections 1 and 2, Township 21 South, Range 28 East, and Lots 3-6, 11-14, 17 & 18 and the E/2 SW/4 of Section 6, Township 21 South, Range 29 East, NMPM, Eddy County, New Mexico (the "Lands")

Dear Mr. Fuge:

Matador Production Company (OGRID No. 228937) ("Matador") seeks to amend Administrative Order CTB-1102 ("Order CTB-1102"), attached as **Exhibit 1**. Order CTB-1102 authorizes lease commingling, off-lease storage, off-lease measurement, and off-lease marketing at the **Simon Camamile South Tank Battery** of production from *all existing and future wells drilled in the following spacing units*:

- (a) The 390.36-acre spacing unit comprised of the N/2 S/2 of Sections 1 and 2, T21S-R28E, and Lot 17 and the NE/4 SW/4 of Section 6, T21S-R29E, in the WC Burton Flat Upper Wolfcamp East (oil) [98315] currently dedicated to the **Simon Camamile 0206 Fed Com #205H** (API. No. 30-015-53728);
- (b) The 390.32-acre spacing unit comprised of the S/2 S/2 of Sections 1 and 2, T21S-R28E, and Lot 18 and the SE/4 SW/4 of Section 6, T21S-R29E, in the WC Burton Flat Upper Wolfcamp East (oil) [98315] currently dedicated to the **Simon Camamile 0206 Fed Com #206H** (API. No. 30-015-53729); and
- (c) Pursuant to 19.15.12.10.C(4)(g), future leases, pools, or leases and pools connected to the Simon Camamile South Tank Battery with notice provided only to the owners of interests to be added.

Pursuant to 19.15.12.7 NMAC, Matador seeks to amend the terms of Order CTB-1102 to add to the terms of the order the production from all existing and future infill wells drilled in the following spacing units:



Paula M. Vance Associate Phone (505) 988-4421 Fax (505) 819-5579 pmvance@hollandhart.com

- (a) The 670.38-acre spacing unit comprised of Lots 1-8 of Sections 1 and 2, T21S-R28E, and Lots 3-6 of Section 6, T21S-R29E, in the WC Burton Flat Upper Wolfcamp East (oil) [98315] currently dedicated to the **Simon Camamile 0206 Fed Com** #201 (API. No. 30-015-54098) and **Simon Camamile 0206 Fed Com** #202 (API. No. 30-015-54099); and
- (b) The 780.84-acre spacing unit comprised of Lots 9-16 of Sections 1 and 2, T21S-R28E, and Lots 11-14 of Section 6, T21S-R29E, in the WC Burton Flat Upper Wolfcamp East (oil) [98315] currently dedicated to the **Simon Camamile 0206 Fed Com** #203 (API. No. 30-015-54303) and **Simon Camamile 0206 Fed Com** #204 (API. No. 30-015-54366);
- (c) The 390.36-acre spacing unit comprised of the N/2 S/2 of Sections 1 and 2, T21S-R28E, and Lot 17 and the NE/4 SW/4 of Section 6, T21S-R29E, in the WC-015 G-05 S202935P; Bone Spring [97995] currently dedicated to the **Simon Camamile 0206** Fed Com #125H (API. No. 30-015-PENDING); and
- (d) The 390.32-acre spacing unit comprised of the S/2 S/2 of Sections 1 and 2, T21S-R28E, and Lot 18 and the SE/4 SW/4 of Section 6, T21S-R29E, in the WC-015 G-05 S202935P; Bone Spring [97995] currently dedicated to the **Simon Camamile 0206 Fed Com #126H** (API. No. 30-015-PENDING).

Oil and gas production from these spacing units will be commingled and sold at the **Simon Camamile South Tank Battery** located in the NW/4 SW/4 (Unit L) of Section 2, Township 21 South, Range 28 East. Production from the wellbores will flow into a wellhead test separator, which will separate the oil, gas, and water. Gas production from the separators will be individually metered with a calibrated orifice meter that is manufactured to AGA specifications. Oil production from the separator will be separately metered using turbine meters. Gas and oil production will then be allocated on a daily basis based on the most recent individual well tests of oil, gas, and water.

**Exhibit 2** is a land plat showing Matador's current development plan, flow lines, well pads, and central tank battery ("Facility Pad") in the subject area. The plat also identifies the wellbores (including surface/bottomhole locations) and lease/spacing unit boundaries.

**Exhibit 3** is a completed Application for Surface Commingling (Diverse Ownership) Form C-107-B, that includes a statement from Kenneth Dodson, Staff Facilities Engineer with Matador, identifying the facilities and the measurement devices to be utilized, a detailed schematic of the surface facilities (Exhibit A to the statement) and a referenced gas sample (Exhibit B to the statement).

**Exhibit 4** is a C-102 for each of the wells currently permitted or drilled within the existing spacing units and the wells to be added to Order CTB-1102.



Paula M. Vance Associate Phone (505) 988-4421 Fax (505) 819-5579 pmvance@hollandhart.com

**Exhibit 5** are the draft or approved communitization agreements for the acreage subject to this application.

Ownership is diverse between the above-described spacing units, each of which are either subject to a pooling agreement or a pooling order and are therefore considered "leases" as defined by 19.15.12.7(C) NMAC. **Exhibit 6** is a list of the interest owners (including any owners of royalty or overriding royalty interests) affected by this application, an example of the letters sent by certified mail advising the interest owners that any objections must be filed in writing with the Division within 20 days from the date the Division receives this application, and proof of mailing. A copy of this application has been provided to the State Land Office and Bureau of Land Management since state and federal lands are involved.

Thank you for your attention to this matter, and please feel free to call if you have any questions or require additional information.

Sincerely,

Paula M. Vance

ATTORNEY FOR MATADOR PRODUCTION COMPANY

EXHIBIT **1** 

## STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

# APPLICATION FOR SURFACE COMMINGLING SUBMITTED BY MATADOR PRODUCTION COMPANY

**ORDER NO. CTB-1102** 

#### **ORDER**

The Director of the New Mexico Oil Conservation Division ("OCD"), having considered the application and the recommendation of the OCD Engineering Bureau, issues the following Order.

#### **FINDINGS OF FACT**

- 1. Matador Production Company ("Applicant") submitted a complete application to surface commingle the oil and gas production from the pools, leases, and wells identified in Exhibit A ("Application").
- 2. Applicant proposed a method to allocate the oil and gas production to the pools, leases, and wells to be commingled.
- 3. To the extent that ownership is diverse, Applicant provided notice of the Application to all persons owning an interest in the oil and gas production to be commingled, including the owners of royalty and overriding royalty interests, regardless of whether they have a right or option to take their interests in kind, and those persons either submitted a written waiver or did not file an objection to the Application.
- 4. Applicant provided notice of the Application to the Bureau of Land Management ("BLM") or New Mexico State Land Office ("NMSLO"), as applicable.
- 5. Applicant in the notice for the Application stated that it sought authorization to prospectively include additional pools, leases, and wells in accordance with 19.15.12.10.C.(4)(g) NMAC.
- 6. Applicant stated that it sought authorization to surface commingle and off-lease measure, as applicable, oil and gas production from wells which have not yet been approved to be drilled, but will produce from a pool and lease identified in Exhibit A.
- 7. Applicant submitted or intends to submit one or more proposed communitization agreement(s) ("Proposed Agreement(s)") to the BLM or NMSLO, as applicable, identifying the acreage of each lease to be consolidated into a single pooled area ("Pooled Area"), as described in Exhibit B.

#### **CONCLUSIONS OF LAW**

8. OCD has jurisdiction to issue this Order pursuant to the Oil and Gas Act, NMSA 1978, §§ 70-2-6, 70-2-11, 70-2-12, 70-2-16, and 70-2-17, 19.15.12. NMAC, and 19.15.23. NMAC.

Order No. CTB-1102 Page 1 of 4

- 9. Applicant satisfied the notice requirements for the Application in accordance with 19.15.12.10.A.(2) NMAC, 19.15.12.10.C.(4)(c) NMAC, and 19.15.12.10.C.(4)(e) NMAC, as applicable.
- 10. Applicant satisfied the notice requirements for the Application in accordance with 19.15.23.9.A.(5) NMAC and 19.15.23.9.A.(6) NMAC, as applicable.
- 11. Applicant's proposed method of allocation, as modified herein, complies with 19.15.12.10.B.(1) NMAC or 19.15.12.10.C.(1) NMAC, as applicable.
- 12. Commingling of oil and gas production from state, federal, or tribal leases shall not commence until approved by the BLM or NMSLO, as applicable, in accordance with 19.15.12.10.B.(3) NMAC and 19.15.12.10.C.(4)(h) NMAC.
- 13. Applicant satisfied the notice requirements for the subsequent addition of pools, leases, and wells in the notice for the Application, in accordance with 19.15.12.10.C.(4)(g) NMAC. Subsequent additions of pools, leases, and wells within Applicant's defined parameters, as modified herein, will not, in reasonable probability, reduce the commingled production's value or otherwise adversely affect the interest owners in the production to be added.
- 14. By granting the Application with the conditions specified below, this Order prevents waste and protects correlative rights, public health, and the environment.

#### **ORDER**

1. Applicant is authorized to surface commingle oil and gas production from the pools, leases, and wells identified in Exhibit A.

Applicant is authorized to store and measure oil and gas production off-lease from the pools, leases, and wells identified in Exhibit A at a central tank battery or gas title transfer meter described in Exhibit A.

Applicant is authorized to surface commingle oil and gas production from wells not included in Exhibit A but that produce from a pool and lease identified in Exhibit A.

Applicant is authorized to store and measure oil and gas production off-lease from wells not included in Exhibit A but that produce from a pool and lease identified in Exhibit A at a central tank battery or gas title transfer meter described in Exhibit A.

2. For each Pooled Area described in Exhibit B, Applicant shall submit a Proposed Agreement to the BLM or NMSLO, as applicable, prior to commencing oil and gas production. If Applicant fails to submit the Proposed Agreement, this Order shall terminate on the following day.

No later than sixty (60) days after the BLM or NMSLO approves or denies a Proposed Agreement, Applicant shall submit a Form C-103 to OCD with a copy of the decision and a description of the approved lands, as applicable. If Applicant withdraws or the BLM or NMSLO denies a Proposed Agreement, this Order shall terminate on the date of such action, and Applicant shall cease commingling the production from the Pooled Area. If the BLM or

Order No. CTB-1102 Page 2 of 4

NMSLO approves but modifies the Proposed Agreement(s), Applicant shall comply with the approved Agreement(s), and no later than sixty (60) days after such decision, Applicant shall submit a new surface commingling application to OCD to conform this Order with the approved Agreement(s). If Applicant fails to submit the new surface commingling application or OCD denies the new surface commingling application, this Order shall terminate on the date of such action.

Applicant shall allocate the oil and gas production to each lease within a Pooled Area in proportion to the acreage that each lease bears to the entire acreage of the Pooled Area described in Exhibit B until the Proposed Agreement which includes the Pooled Area is approved. After the Proposed Agreement is approved, the oil and gas production from the Pooled Area shall be allocated as required by the BLM's or NMSLO's, as applicable, approval of the Agreement, including any production that had been allocated previously in accordance with this Order.

- 3. The allocation of oil and gas production to wells not included in Exhibit A but that produce from a pool and lease identified in Exhibit A shall be determined in the same manner as to wells identified in Exhibit A that produce from that pool and lease, provided that if more than one allocation method is being used or if there are no wells identified in Exhibit A that produce from the pool and lease, then allocation of oil and gas production to each well not included in Exhibit A shall be determined by OCD prior to commingling production from it with the production from another well.
- 4. The oil and gas production for each well identified in Exhibit A shall be separated and metered prior to commingling it with production from another well.
- 5. Applicant shall measure and market the commingled oil at a central tank battery described in Exhibit A in accordance with this Order and 19.15.18.15. NMAC or 19.15.23.8. NMAC.
- 6. Applicant shall measure and market the commingled gas at a well pad, central delivery point, central tank battery, or gas title transfer meter described in Exhibit A in accordance with this Order and 19.15.19.9. NMAC, provided however that if the gas is vented or flared, and regardless of the reason or authorization pursuant to 19.15.28.8.B. NMAC for such venting or flaring, Applicant shall measure or estimate the gas in accordance with 19.15.28.8.E. NMAC.
- 7. Applicant shall calibrate the meters used to measure or allocate oil and gas production in accordance with 19.15.12.10.C.(2) NMAC.
- 8. If the commingling of oil and gas production from any pool, lease, or well reduces the value of the commingled oil and gas production to less than if it had remained segregated, no later than sixty (60) days after the decrease in value has occurred Applicant shall submit a new surface commingling application to OCD to amend this Order to remove the pool, lease, or well whose oil and gas production caused the decrease in value. If Applicant fails to submit a new application, this Order shall terminate on the following day, and if OCD denies the application, this Order shall terminate on the date of such action.

Order No. CTB-1102 Page 3 of 4

- 9. Applicant may submit an application to amend this Order to add pools, leases, and subsequently drilled wells with spacing units adjacent to or within the tracts commingled by this Order by submitting a Form C-107-B in accordance with 19.15.12.10.C.(4)(g) NMAC, provided the pools, leases, and subsequently drilled wells are within the identified parameters included in the Application.
- 10. If a well is not included in Exhibit A but produces from a pool and lease identified in Exhibit A, then Applicant shall submit Forms C-102 and C-103 to the OCD Engineering Bureau after the well has been approved to be drilled and prior to off-lease measuring or commingling oil or gas production from it with the production from another well. The Form C-103 shall reference this Order and identify the well, proposed method to determine the allocation of oil and gas production to it, and the location(s) that commingling of its production will occur.
- 11. Applicant shall not commence commingling oil or gas production from state, federal, or tribal leases until approved by the BLM or NMSLO, as applicable.
- 12. If OCD determines that Applicant has failed to comply with any provision of this Order, OCD may take any action authorized by the Oil and Gas Act or the New Mexico Administrative Code (NMAC).
- 13. OCD retains jurisdiction of this matter and reserves the right to modify or revoke this Order as it deems necessary.

**DATE:** 9/11/2023

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

DYLAN M. FUGE

**DIRECTOR** 

Order No. CTB-1102 Page 4 of 4

## State of New Mexico Energy, Minerals and Natural Resources Department

## Exhibit A

Order: CTB-1102

**Operator: Matador Production Company (228937)** 

Central Tank Battery: Simon Camamile South Tank Battery

Central Tank Battery Location: UL L, Section 2, Township 21 South, Range 28 East Gas Title Transfer Meter Location: UL L, Section 2, Township 21 South, Range 28 East

#### **Pools**

Pool Name Pool Code
WC BURTON FLAT UPPER WOLFCAMP EAST 98315

## Leases as defined in 19.15.12.7(C) NMAC

Leases as defined in 17.1	13.12.7(C) MINIAC		
Lease	UL or Q/Q	S-T-R	
VB 0183 0003	S/2	2-21S-28E	
NMNM 105679579 (115407)	N/2 S/2	1-21S-28E	
NMNM 105381804 (130856)	S/2 S/2	1-21S-28E	
NMNM 105417600 (0029588)	SW/4	6-21S-29E	

## Wells

Well API	Well Name	UL or Q/Q	S-T-R	Pool
	Simon Comomilo 0206 Fodoval Com	N/2 S/2	1-21S-28E	
30-015-53728	Simon Camamile 0206 Federal Com #205H	N/2 S/2	2-21S-28E	98315
	#205 <b>H</b>	N/2 SW/4	6-21S-29E	1S-29E
	Simon Camamile 0206 Federal Com	S/2 S/2	1-21S-28E	
30-015-53729		S/2 S/2	2-21S-28E	98315
	#206H	S/2 SW/4	6-21S-29E	

## State of New Mexico Energy, Minerals and Natural Resources Department

## Exhibit B

Order: CTB-1102

**Operator: Matador Production Company (228937)** 

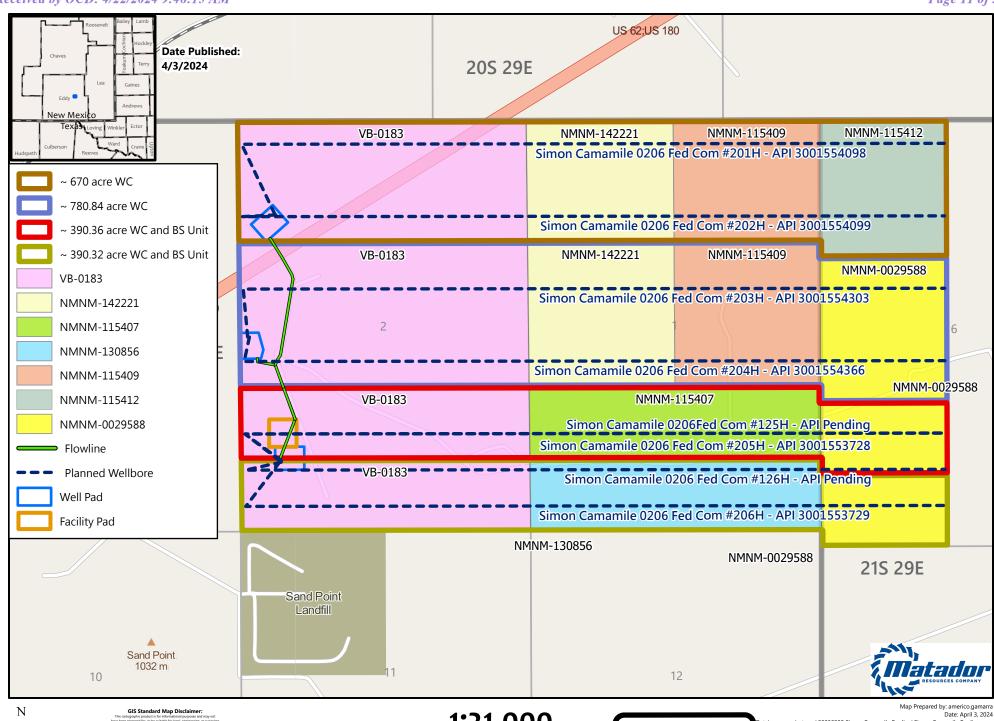
	<b>Pooled Areas</b>			
Pooled Area	UL or Q/Q	S-T-R	Acres	Pooled Area ID
	N/2 S/2	1-21S-28E		
CA Wolfcamp BLM	N/2 S/2	2-21S-28E	390.36	A
	N/2 SW/4	6-21S-29E		
	S/2 S/2	1-21S-28E		
CA Wolfcamp BLM	S/2 S/2	2-21S-28E	390.32	В
	S/2 SW/4	6-21S-29E		

## **Leases Comprising Pooled Areas**

Lease	UL or Q/Q	S-T-R	Acres	Pooled Area ID
VB 0183 0003	N/2 S/2	2-21S-28E	160	A
NMNM 105679579 (115407)	N/2 S/2	1-21S-28E	160	A
NMNM 105417600 (0029588)	N/2 SW/4	6-21S-29E	70.36	A
VB 0183 0003	S/2 S/2	2-21S-28E	160	В
NMNM 105381804 (130856)	S/2 S/2	1-21S-28E	160	В
NMNM 105417600 (0029588)	S/2 SW/4	6-21S-29E	70.32	В

Received by OCD: 4/22/2024 9:46:15 AM

Page 11 of 319



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GIS Standard Map Disclaimer:
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Feet

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Released to Imaging: 6/28/2024 4:09:39 PM

**1:21,000**1 inch equals 1,750 feet

EXHIBIT **2** 

map Prepared py; americo.gamarra

ngamarra\-temp\20230208 Simon Camamile Pooling\Simon Camamile Pooling aprx

Spatial Reference: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Sources: IHS, ESRI; US DOI BLM Carlsbad, NM Field Office, GIS Department,

Texas Cooperative Wildlife Collection, Texas A&M University;

Intel States Census Bureau (TIGER);

<u>District I</u>
1625 N, French Drive, Hobbs, NM 88240
<u>District II</u>
811 S, First St., Artesia, NM 88210
<u>District III</u>
1000 Rio Brazos Road, Aztec, NM 87410
<u>District IV</u>
1220 S, St Francis Dr, Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107-B Revised August 1, 2011

#### **OIL CONSERVATION DIVISION**

1220 S. St Francis Drive Santa Fe, New Mexico 87505 Submit the original application to the Santa Fe office with one copy to the appropriate District Office.

APPLICATION FOR S	SURFACE COM	MINGLING (DI	VERSE OWNERSHIP)	
OPERATOR NAME: Matador Produc				
-	ay Tower 1 Suite 15	00 Dallas, TX 75240		
APPLICATION TYPE:				
□Pool Commingling □Lease Commingling □P	ool and Lease Comming	ling ☐Off-Lease Storag	ge and Measurement (Only if not Surface	Commingled)
LEASE TYPE:  Fee  State	☐ Federal			
Is this an Amendment to existing Order? Yes Insure the Bureau of Land Management (BLM)				ngling
Pleas		OMMINGLING  the following inform	aation	
(1) Pool Names and Codes	Gravities / BTU of Non-Commingled Production	Calculated Gravities / BTU of Commingled Production	Calculated Value of Commingled Production	Volumes
[98315] WC Burton Flat Upper Wolfcamp East	42.47°		\$71.16/bbl oil Deemed 40°/Sweet	6500
[98315] WC Burton Flat Upper Wolfcamp East	1309 BTU/CF	41,16° oil	(Dec '23 realized price)	17300
[97995] WC-015 G-05 S202935P; Bone Spring	37.45°	1300 BTU/CF	·	2300
[97995] WC-015 G-05 S202935P; Bone Spring	1237 BTU/CF		\$2.37/mcf (Dec '23 realized price)	2400
(2) Are any wells producing at top allowables?	]Yes □No			
(1) Pool Name and Code - (2) Is all production from same source of supply? (3) Has all interest owners been notified by certifie (4) Measurement type:  Metering Other	se attach sheets with  Yes No d mail of the proposed	OMMINGLING  1 the following inform  commingling?	ation ]Yes □No	
		ASE COMMINGLI  1 the following inform		
(D) OF	F-LEASE STORA	GE and MEASUR	EMENT	
<u> </u>		th the following infor	mation	
<ul><li>(1) Is all production from same source of supply?</li><li>(2) Include proof of notice to all interest owners.</li></ul>	□Yes □No			
		ATION (for all app the following inform		
<ol> <li>A schematic diagram of facility, including leg.</li> <li>A plat with lease boundaries showing all well</li> <li>Lease Names, Lease and Well Numbers, and A</li> </ol>	and facility locations.	Include lease numbers if I	Federal or State lands are involved.	
I hereby certify that the information above is true an SIGNATURE:	d complete to the best of TITLE:			4
TYPE OR PRINT NAME Kenneth Dodson			TELEPHONE NO.:_(972) 371-5489	)

**EXHIBIT** 

E-MAIL ADDRESS: kdodson@matadorresources.com

## **Matador Production Company**

One Lincoln Centre • 5400 LBJ Freeway • Suite 1500 • Dallas, Texas 75240 Voice 972.371.5489 • Fax 972.371.5201 kdodson@matadorresources.com

**Kenneth Dodson Staff Facilities Engineer** 

April 3, 2024

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Application of Matador Production Company for administrative approval to Amend Administrative Order CTB-1102 to surface commingle (pool and lease commingle) gas and oil production from the spacing units comprised of Sections 1 and 2, Township 21 South, Range 28 East and Lots 3-6, 11-14, 17-18 and the E/2 S/W 4 of Section 6, Township 21 South Range 29 East, Eddy County, New Mexico (the "Lands").

To Whom This May Concern,

Under NMOCD Order No. CTB-1102, Matador Production Company ("Matador"), OGRID: 228937, was authorized to surface commingle production from the Wolfcamp formation South Half of Sections 1 and 2, Township 21 South, Range 28 East and Lots 17 and 18 and the E/2 SW/4 of Section 6, Township 21 South Range 29 East, each in Lea County, New Mexico. Matador now requests to amend its existing commingling authority to pool additional Wolfcamp wells in the spacing units that together comprise Sections 1 and 2, Township 21 South, Range 28 East and Lots 3-6, 11-14, 17-18 and the E/2 S/W 4 of Section 6, Township 21 South Range 29 East, Lea County, New Mexico, as well as the Bone Spring wells in the spacing units that together comprise the South Half of Sections 1 and 2, Township 21 South, Range 28 East and Lots 17 and 18 and the E/2 SW/4 of Section 6, Township 21 South Range 29 East, each in Lea County, New Mexico.

Specifically, Matador requests to commingle current oil and gas production from eight (8) distinct wells located on the Lands and future production from the Lands as described herein. All wells will be metered through individual test separators with an oil turbine meter and gas orifice meter. The gas commingling will occur after individual measurement at each well. Gas exiting each well test flows into one gathering line, as depicted on **Exhibit A**, the San Mateo Midstream, LLC gathering line. Each well on the Lands will have its own test separator with an orifice meter manufactured and assembled in accordance with American Gas Association (AGA) specifications. All primary and secondary Electronic Flow Measurement (EFM) equipment is tested and calibrated by a reputable third party measurement company in accordance with industry specifications.

The orifice meter is the preferred measurement device utilized by midstream and E&P companies in natural gas measurement. The gas samples are obtained at the time of the meter testing/calibration and the composition and heating value are determined by a laboratory in accordance with American Petroleum Institute (API) specifications to ensure accurate volume and Energy (MMBTU) determinations. See example from SPL attached as **Exhibit B** hereto.

The flow stream from each wellhead is demonstrated in the Process Flow Diagram (PFD) attached as **Exhibit A** hereto. This PFD shows that the water, oil, and gas exit the wellbore and flow into a wellhead three-phase separator which separates the oil, gas, and water. The oil is measured via turbine meter which is calibrated periodically in accordance with industry specifications by a third party measurement company for accuracy. The gas is measured on a volume and MMBTU basis by an orifice meter and supporting EFM equipment in accordance with American Petroleum Association (API) Chapter 21.1. The gas is then sent into a gathering line where it is commingled with each of the other wells' metered gas, as shown on **Exhibit A**. The gathering line gas is then metered by another orifice meter at the tank battery check to show the total volume of gas leaving the Tank Battery. This meter is tested and calibrated in accordance with industry specifications and volume and energy are determined on an hourly, daily, and monthly basis. Once the gas exits this final tank battery sales check it travels directly into a third party sales connect meter. San Mateo Midstream, LLC has its own orifice meter that measures the gas for custody transfer. These meters are also calibrated periodically to ensure the measurement accuracy.

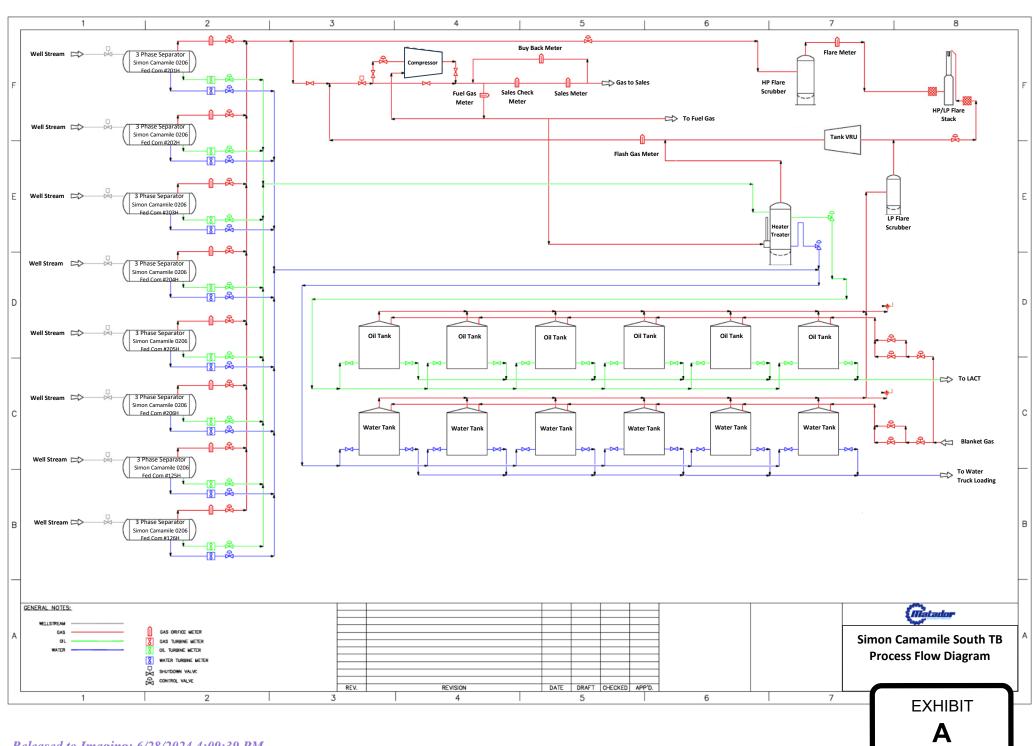
In conclusion, all the oil and gas produced on the Lands is and will be metered at each wellhead and allocated correctly using the same measurement equipment as the pipeline sales measurement specifications accepted by API as industry standard.

Very truly yours,

MATADOR PRODUCTION COMPANY

Kenneth Dodson

Staff Facilities Engineer





## Certificate of Analysis

Number: 6030-20120189-002A

**Artesia Laboratory** 200 E Main St. Artesia, NM 88210 Phone 575-746-3481

Jan. 04, 2021

John Romano Ascent Energy, LLC 1125 17th St. Suite 410 Denver, CO 80202

Station Name: Big Moose CTB Sales Check Station Number: 0103901850

Station Location: Ascent

Sample Point: Meter Run

70104251 (Inficon GC-MicroFusion) Instrument:

Last Inst. Cal.: 01/04/2021 0:00 AM

Analyzed: 01/04/2021 13:05:21 by PGS Sampled By: Derek Sauder Sample Of: Gas Spot

Sample Date: 12/23/2020

Sample Conditions: 78 psig, @ 72 °F Ambient: 50 °F

12/23/2020 Effective Date: Method: GPA-2261M Cylinder No: 1111-001212

#### **Analytical Data**

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	2.512	2.51392	2.722		GPM TOTAL C2+	9.970
Methane	63.010	63.06044	39.094		GPM TOTAL C3+	5.853
Carbon Dioxide	0.223	0.22328	0.380		GPM TOTAL iC5+	1.373
Ethane	15.336	15.34873	17.836	4.117		
Propane	10.132	10.14024	17.280	2.802		
Iso-butane	1.336	1.33677	3.003	0.439		
n-Butane	3.914	3.91735	8.799	1.239		
Iso-pentane	0.899	0.89972	2.509	0.330		
n-Pentane	1.034	1.03493	2.886	0.376		
Hexanes Plus	1.523	1.52462	5.491	0.667		
	99.919	100.00000	100.000	9.970		
Calculated Physical	Properties	Total		C6+		
Relative Density Rea	l Gas	0.8981		3.2176		
Calculated Molecular	· Weight	25.88	}	93.19		
Compressibility Factor	or	0.9944				
<b>GPA 2172 Calculation</b>	on:					
Calculated Gross B	TU per ft <sup>3</sup> @ 14.696 p	osia & 60°F				
Real Gas Dry BTU		1499	1	5129		
Water Sat. Gas Base	BTU	1474		5040		
Ideal, Gross HV - Dry	/ at 14.696 psia	1490.6	;	5129.2		
Ideal, Gross HV - We	et .	1464.6	;	5039.7		
Comments: H2S Fi	eld Content 1.25 ppm					

Hydrocarbon Laboratory Manager

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

Quality Assurance:

**EXHIBIT** 

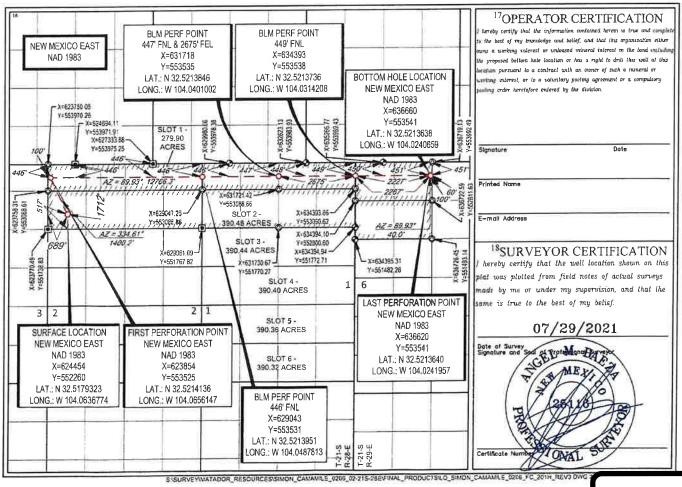
District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources
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1220 South St. Francis Dr.
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FORM C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

	API Numbe	r		<sup>2</sup> Pool Code		WC Briton Flat Upper Wolfcamp Ea			
			7	B315	5Property N	C Burton	- lat Uppi	27 000176	in p Cas
*Property	Code				15 50	ell Number			
			S	SIMON C		201H			
<sup>3</sup> OGRID	No.				<sup>6</sup> Operator N	ame			Elevation
22893	7		N	<b>1ATADOF</b>	R PRODUCT	TION COMPAI	٧Y		3286'
					10 Surface Lo	cation			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
5	2	21-S	28-E	-	1712'	NORTH	689'	WEST	EDDY
			11B	ottom Hole	e Location If D	ifferent From Sur	face		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	6	21-S	29-E	=	451'	NORTH	2267'	WEST	EDDY
<sup>12</sup> Dedicated Acres	13 Joint or	Infill 14Co	nsolidation Cod	15Order	No.				

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



EXHIBIT

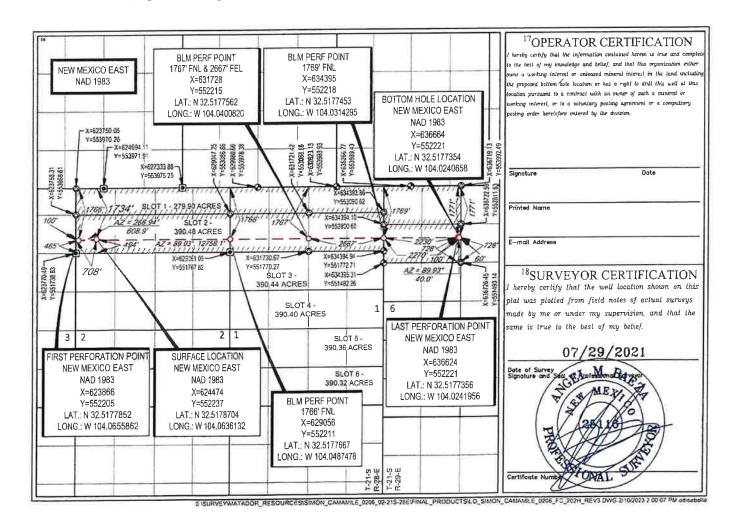
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AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT <sup>2</sup>Pool Code API Number Flat Upper Wolfcamp East 98315 Property Name Property Code SIMON CAMAMILE 0206 FED COM 202H Elevation Operator Name OGRID No. MATADOR PRODUCTION COMPANY 3286 228937 <sup>10</sup>Surface Location North/South line Feet from the East/West line County Lot Idn Feet from the UL or lot no. Section Township Range WEST **EDDY** 28-E 1734 NORTH 708' 2 21-S <sup>11</sup>Bottom Hole Location If Different From Surface East/West line County Feet from the Feet from the North/South line UL or lot no. Township Range Section 1771 2270' WEST **EDDY** NORTH 6 21-S 29-E 6 Order No. Joint or Infill 12 Dedicated Acres Consolidation Code 670.38



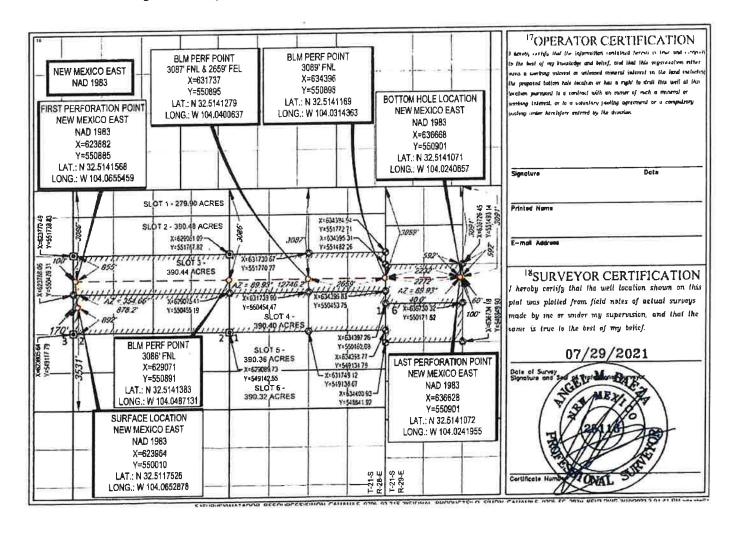
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AMENDED REPORT

	API Number			Pool Code	- 1	WC Buito	Flat U	oper Wolfe	comp East
*Property C	Code				-Property Nat	206 FED CO		2	03H
10GRID	SS-SA		М	ATADOR	*Operator Nat PRODUCT	me ION COMPAN	Y		Sevation
00017					10 Surface Loc	ation			
UL, or lot no.	Section 2	Township 21-S	28-E	Lot litin	Feel from the 3531'	North/South line SOUTH	Feet from the	East/West line WEST	EDDY EDDY
			11Be	ottom Hole	Location If Di	ferent From Surf	ace		
UL ar lot nu.	Section 6	Township 21-S	Range 29-E	Lot Idn	Feet from the 3091'	North/South line NORTH	Free from the 2272'	East/West fine WEST	EDDY
780.84	13 Joint or I	nßli "Ce	ensolidation Code	1AOrder	No.				

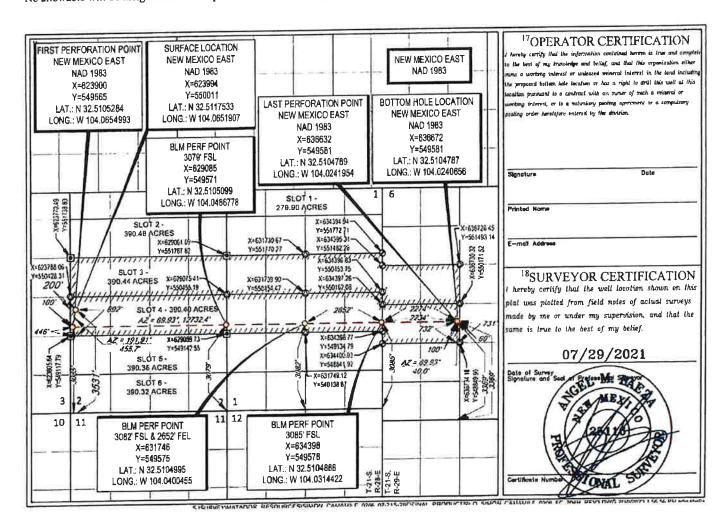


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AMENDED REPORT

	API Number	8	1	Pool Code		uc Burtun	Pool Nam	e lalotte	and Ecs.
			9	18315		or Bulton	rien upp	7127	T No - bd-
Property (	Code		S	IMON C		206 FED CO			204H
10GRID			М	ATADOR	Operator National PRODUCT:	me ION COMPAN	ΙΥ		Elevation 3311'
100					10 Surface Loc	ation			
UL or lot no.	Section 2	Township 21-S	28-E	Lai Idn —	Feet from the 3531'	North/South line	Feel from the 200'	Essi/West Has WEST	EDDY EDDY
			11 <sub>B</sub>	ottom Hole	e Location If Di	fferent From Sur	face		
UI. or lat no.	Section 6	Township 21-S	Range 29-E	Loi idn	Feet from the 3369'	North/South line SOUTH	Feet from the 2274	Eust/West fine WEST	EDDY
780.84	13 Joint or 1	infili 14Co	onselldation Code	1ºOrder	No.				

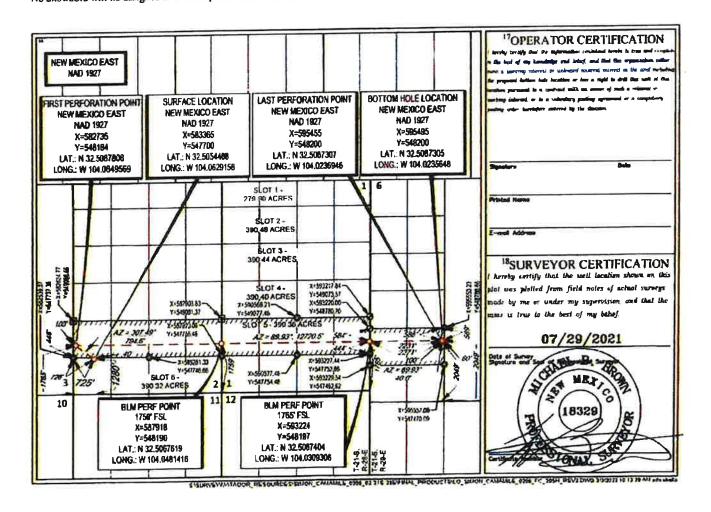


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FORM C-102
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AMENDED REPORT

						AGE DEDICA			
	API Number			Pool Cede 8315	V	NC Burton	- Flat U	ppe Wol-	frank E
*Property 6	ade		s	IMON C	Property Na	~ 206 FED CO	M	Ä	Heur
22893			М	ATADOR	PRODUCT	ON COMPAN	Υ		1348'
A 0 1.	·				10 Surface Loc	ation			
N. er let na. M	Scrtless 2	Township 21-S	28-E	Let 1ds	Feet from the 1280'	North/South Kine SOUTH	Feel from the 725'	WEST	EDDY
			11B	ottom Hole	Location If Di	Merent From Surf	ace		
UI. er let oc.	Section 6	Tamedia 21-S	Renge	Loi läs —	Feet from the 2049	North/South Bac SOUTH	Feet from the 2271'	EAST/West Bar WEST	EDDY
<sup>Delicial Acres</sup> 390.36	Ulabot or 1	in FPID	Consolidation Code	Order	No.				

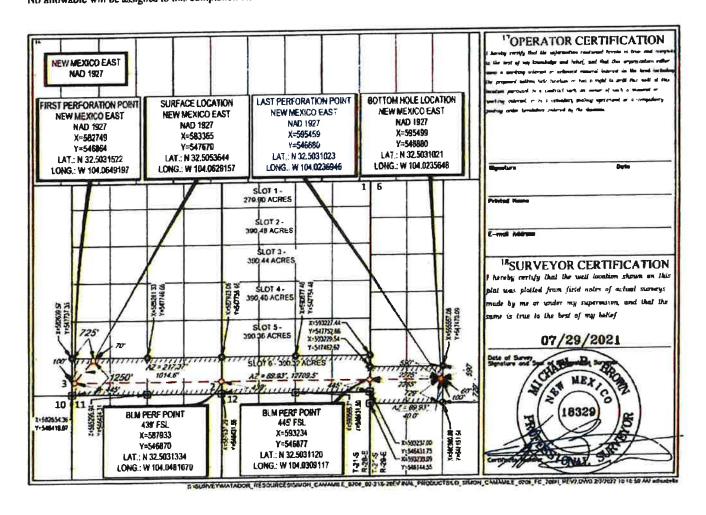


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FORM C-102
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AMENDED REPORT

		M	ELL LU	LATION	AND ACKE	AGE DEDICA	Paol Nem		
	'API Number			8315	V	NC Burton	Flat U	pps- Wol	framp E
Property (	Code		S	MON C		206 FED CO		2	106H
2289			м	ATADOR	PRODUCT:	ION COMPAN	Y		349'
2001	<u> </u>				10 Surface Loc	ation			
)]_ ar lot no.	Section 2	Termship 21-S	28-E	Let Ide	Feet from the 1250'	North/South line SOUTH	Feet from the 725'	WEST	EDDY
			11B1	ttom Hole	Location If Di	fferent From Surf	înce		
IIL or let pe.	Section 6	Towaship 21-S	Range	T.o. Ida	Feet from the 729'	Nerth/South line SOUTH	Fact from the 2265	WEST	EDDY
Deficient Acres 390.32	) Jake or i		onsolidation Code	<sup>th</sup> Order	No.				



District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

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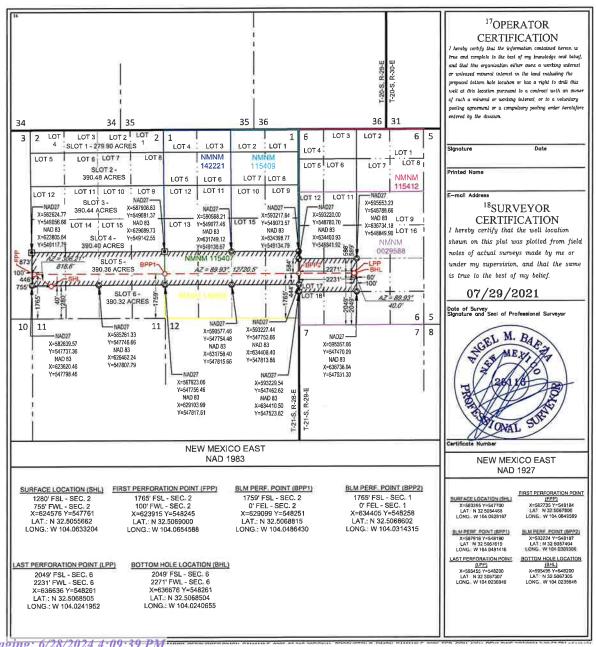
#### State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

FORM C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

			WELL LU	CATIO	IN AIND ACK	EAGE DEDIC	ATIONTLA	XI.		
	API Number			<sup>2</sup> Pool Code			<sup>5</sup> Pool N			
	30-025-			7995	5 h	11-015	6-05	52029351	P; Bore	
Property	*Property Code			<sup>5</sup> Property Name				·V	*Welf Number	
	SIMO				N CAMAMILE 0206 FED COM				125H	
7OGRIE	OGRID No.			*Operator Name					<sup>9</sup> Elevation	
8937	937 757			MATADOR PRODUCTION COMPANY					3347'	
					10 Surface L	ocation				
UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County	
M	2	21-S	28-E	===	1280'	SOUTH	755'	WEST	EDDY	
-			111	Bottom Ho	le Location If <b>E</b>	Different From Sur	rface	•		
UL or let no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County	
K	6	21-S	29-E	-	2049'	SOUTH	2271'	WEST	EDDY	
12Dedicated Acres	<sup>13</sup> Joint or	Infill III	Consolidation Coo	le <sup>15</sup> Ord	er No.					
390.36										



District I f625 N. French Dr., Hobbs, NM. 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (503) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

# State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

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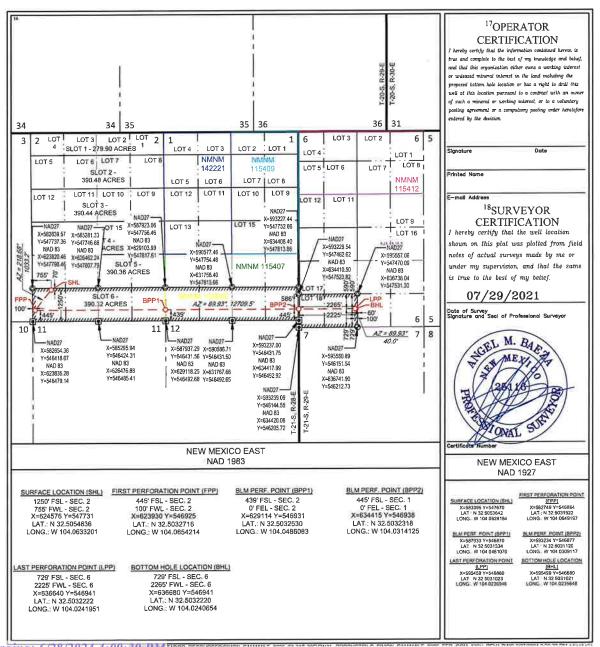
X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, NM 87505

	'API Number				<sup>2</sup> Pool Code		<sup>3</sup> Pool Name				ida.	
	30-025-			4	7999	5	WC-015	G-05	52029			Spring
	*Property Code		<sup>5</sup> Property Name					°We	Number			
				SIMON CAMAMILE 0206 FED COM					126H			
	OGRID No.		*Operator Name						Elevation			
228	289377837		MATADOR PRODUCTION COMPANY					3	347'			
	<sup>10</sup> Surface Location											
1	UL or lot no.	Section	Township	Range	Let 1dn	Feet from the	North/South line	Feet from the	e Eas	t/West line	County	
	M	2	21-S	28-E	_	1250'	SOUTH	755'	WES	ST	EDDY	

<sup>11</sup>Bottom Hole Location If Different From Surface Feet from th East/West lin Township UL or lot no. 729 SOUTH 2265 WEST **EDDY** N 6 21-S 29-E Order No. Dedicated Acres 390.32



# MRC Permian Company

One Lincoln Centre • 5400 LBJ Freeway • Suite 1500 • Dallas, Texas 75240 Voice 972.587.4622 • Fax 214.866.4957 preston.cazale@matadorresources.com

Preston Cazale Land Analyst

November 29, 2023

VIA FEDERAL EXPRESS

Bureau of Land Management Attn: Jordan Yawn 301 Dinosaur Trail Santa Fe, NM 87508

Re:

Matador Production Company

Simon Camamile 0206 Fed Com Well #201H & #202H

**Communitization Agreements** 

Dear Mr. Yawn:

Enclosed please find two original copies and two duplicate copies of the following:

• Federal Communitization Agreement, for the Simon Camamile 0206 Fed Com Wolfcamp Unit, containing 670.38 acres of land, more or less, described as Lots 1-8 of Sections 1 & 2, Township 21 South, Range 28 East; Lots 3-6 of Section 6, Township 21 South, Range 29 East N.M.P.M., Eddy County, New Mexico.

Please contact me if there are any questions.

Sincerely,

**Matador Production Company** 

Preston Cazale

**EXHIBIT** 

## Federal Communitization Agreement

Contract No.	

THIS AGREEMENT entered into as of the 1<sup>st</sup> day of February, 2023, by and between the parties subscribing, ratifying, or consenting hereto, such parties being hereinafter referred to as "parties hereto."

#### WITNESSETH:

WHEREAS, the Act of February 25, 1920 (41 Stat. 437), as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a Federal oil and gas lease, or any portion thereof, with other lands, whether or not owned by the United States, when separate tracts under such Federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area and such communitization or pooling is determined to be in the public interest; and

WHEREAS, the parties hereto own working, royalty or other leasehold interests, or operating rights under the oil and gas leases and lands subject to this agreement which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of this agreement:

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

Lots 1-8 of Section 2, Lots 1-8 of Section 1, Township 21 South, Range 28 East, and Lots 3-6 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Containing 670.38 acres, and this agreement shall include only the Wolfcamp Formation underlying said lands and the oil and gas hereafter referred to as "communitized substances," producible from such formation.

2. Attached hereto, and made a part of this agreement for all purposes is Exhibit "A", a plat designating the communitized area and, Exhibit "B", designating the

operator of the communitized area and showing the acreage, percentage and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized area.

- 3. The Operator of the communitized area shall be **Matador Production Company** 5400 Lyndon B Johnson Fwy, Suite 1500, Dallas, Texas, 75240. All matters of operations shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area and four (4) executed copies of a designation of successor operator shall be filed with the Authorized Officer.
- 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties and such other reports as are deemed necessary to compute monthly the royalty due the United States, as specified in the applicable oil and gas operating regulations.
- 5. The communitized area shall be developed and operated as an entirety, with the understanding and agreement between the parties hereto that all communitized substances produced there from shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed to this agreement.

If the communitized area approved in this Agreement contains unleased Federal lands, the value of 1/8<sup>th</sup> or 12 ½ percent for the Federal lands, of the production that would be allocated to such Federal lands, described above, if such lands were leased, committed and entitled to participation, shall be payable as compensatory royalties to the Federal government. The remaining 7/8th should be placed into an escrow account set up by the operator. Parties to the Agreement holding working interest in committed leases within the applicable communitized area are responsible for such royalty payments on the volume of the production reallocated from the unleased Federal lands to their communitized tracts as set forth in Exhibit "B" attached hereto. The value of such production subject to the payment of said royalties shall be determined pursuant to the method set forth in 30 CFR Part 1206 for the unleased Federal lands. Payment of compensatory royalties on the production reallocated from the unleased Federal lands to the committed tracts within the communitized area shall fulfill the Federal royalty obligation for such production. Payment of compensatory royalties, as provided herein, shall accrue from the date the committed tracts in the communitized area that includes unleased Federal land receive a production allocation, and shall be due and payable by the last day of the calendar month next following the calendar month of actual production. Payment due under this provision shall end when the Federal tract is leased or when production of communitized substances ceases within the

communitized area and the Communitization Agreement is terminated, whichever occurs first.

Any party acquiring a Federal lease of the unleased Federal lands included in the communitized area established hereunder, will be subject to this Agreement as of the effective date of the Federal leases to said party (ies). Upon issuance of the Federal lease and payment of its proportionate cost of the well, including drilling, completing and equipping the well, the acquiring party (ies) shall own the working interest described in the Tract, as described on Exhibit "B", and shall have the rights and obligations of said working interest as to the effective date of the Federal Lease.

- The royalties payable on communitized substances allocated to the individual 6. leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any Federal lease bearing a sliding- or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any noncommunitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day, such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized lease production.
- 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.
- 8. The commencement, completion, continued operation, or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation, or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.
- 9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes.

This agreement shall be subject to all applicable Federal and State laws or executive orders, rules and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or if such failure results from, compliance with any such laws, orders, rules or regulations.

- 10. The date of this agreement is **February 1, 2023**, and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of the Interior or by his duly authorized representative, and shall remain in force and effect for a period of 2 years and for as long as communitized substances are, or can be, produced from the communitized area in paying quantities: Provided, that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of the Interior, or his duly authorized representative, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within 60 days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence during the period of nonproduction. The 2year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period.
- 11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interests until this agreement terminates and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal land shall be subject to approval by the Secretary of the Interior, or his duly authorized representative.
- 12. It is agreed between the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all Fee and State mineral operations within the communitized area to the extent necessary to monitor production and measurement, and assure that no avoidable loss of hydrocarbons occur in which the United States has an interest pursuant to applicable oil and gas regulations of the Department of the Interior relating to such production and measurement.
- 13. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors, and assigns.
- 14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto, and shall be binding upon all

- parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.
- 15. <u>Nondiscrimination.</u> In connection with the performance of work under this agreement, the operator agrees to comply with all the provisions of Section 202(1) to (7) inclusive, of Executive Order 11246 (30F.R. 12319), as amended, which are hereby incorporated by reference in this agreement.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written and have set opposite their respective names the date of execution.

Operator: Matador Production Company

Signature of Authorized Agent

By: Bryan A. Erman - E.V.P. and General Counsel and Head of M&A

Name & Title of Authorized Agent

Date:

**ACKNOWLEDGEMENT** 

STATE OF **TEXAS**)

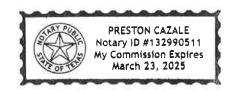
COUNTY OF DALLAS)

On this <u>77</u><sup>th</sup> day of <u>November</u>, 2023, before me, a Notary Public for the State of Texas, personally appeared Bryan A. Erman, known to me to be the E.V.P. and General Counsel and Head of M&A of Matador Production Company, the corporation that executed the foregoing instrument and acknowledged to me such corporation executed the same.

(SEAL)

3/23/2025 My Commission Expires

Notary Public



#### WORKING INTEREST OWNERS

AND/OR LESSEES OF RECORD

CV

**MRC Permian Company** 

Bv:

Bryan A. Erman - E.V.P. and General Counsel and Head of M&A

Date:

## **ACKNOWLEDGEMENT**

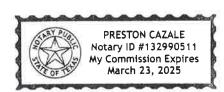
STATE OF **TEXAS**)

COUNTY OF DALLAS)

On this 27th day of November, 2023, before me, a Notary Public for the State of Texas, personally appeared Bryan A. Erman, known to me to be the E.V.P. and General Counsel and Head of M&A of MRC Permian Company, the corporation that executed the foregoing instrument and acknowledged to me such corporation executed the same.

(SEAL)

3/23/2025 My Commission Expires



Y		*
nnav	entions,	nc
THEFT	CHICKUING	THE

Date: 9/26/2023

Name: Guadalupe Scott

Title: President

## **ACKNOWLEDGEMENT**

STATE OF New Mexico) COUNTY Bernalillo

The foregoing instrument was acknowledged before me this 26 day of Sylember, 2023, Guadalupe Scott, in his/her capacity as President of , on behalf of said corporation.

Notary Public

My Commission Expires: Le-3-ZDZ7

STATE OF NEW MEXICO **NOTARY PUBLIC** JESSICA BERTOLUCCI COMMISSION NUMBER 1015793 **EXPIRATION DATE 06-03-2027** 

Leonard Child's Trust	Michael Kyle Leonard, Trustee of the Michael Kyle
Date: 10-12-2023	By: Michael 11. Lemard  Title: Truster
	Title: Truster
	ACKNOWLEDGEMENT
STATE OF )	
COUNTY )	
The foregoing instrument was Galaxela Gaylan, in Michael K Leonava	
My Commission Expires: <u>Oq -17</u>	Notary Public
S Co	GABRIELA GAYTAN ary Public. State of Texas mm. Expires 09-12-2027 OTARY ID#: 13216936-6

EOG Resource	ces, Inc
Date: 9/28/23 By:	X-
Name: Ma-	then W Smith
Title: Agen	+ Attorney-in-Fact
ACKNOWLED	GEMENT
STATE OF LYAS  COUNTY Middle   The foregoing instrument was acknowledged by Matthew W. Shith in his/her capacity for Pesnums The	d before me this about of September, 2023, eity as Gent of though of said corporation.
My Commission Expires: 10-17-2007	Notary Public Produc
TRACY JORDAN  Notary Public, State of Texas  Comm. Expires 10-17-2027  Notary ID 132215654	*

		Jalapeno (	Corporation
Date:	10/1/2>		H. Emmons Yates, III
		Title:\	Vice President
		ACKNOWLI	EDGEMENT
	New Mexico ) ) Bernalillo )		
by <u>H. Em</u>	mons Yates, III , i	n his/her cap	ged before me this day of October, 2023, pacity as Vice President of on behalf of said corporation.
My Commis	ssion Expires: May	7,2026	Notary Public
CON	STATE OF NEW MEXIC NOTARY PUBLIC KATHRYN J. REESE COMMISSION # 10954 MMISSION EXPIRES 05/	99	

Judah Oil, LLC

Date: September 26,2023

Name: James B Campanella
Title: Monber / Manage

**ACKNOWLEDGEMENT** 

STATE OF New MOKING

COUNTY Eddy

The foregoing instrument was acknowledged before me this 26 day of Sopleaner 2023, by James Banganolla, in his/her capacity as Monte / Manage/
Judah O:1, 412 a New Mexico Limital, on behalf of said corporation.

Liability Company

My Commission Expires: 05/01/2027

FELICIA K. BOWEN Notary Public - State of New Mexico Commission # 1111892 My Comm. Expires May 1, 2027

Charmar,	LLC
----------	-----

Date: Sept 20 2023

By: Charles R. Liels

Name: CHARLES R. HICKS

Title: MANAGER MEMBER

Notary Public

### **ACKNOWLEDGEMENT**

STATE OF New Mexico)
COUNTY Bernatillo )
The foregoing instrument was acknowledged before me this day of September, 2023, by Charles R. Hicks, in his/her capacity as manager member of Charmar, UC, on behalf of said corporation.
My Commission Expires: 07/23/2026 Monica Charle

STATE OF NEW MEXICO **NOTARY PUBLIC** Monica Chavez Commission No. 1086424 July 23, 2026

Bane Bigbie, Inc.
Date: 9/19/23 By: Bana Blicans
Name: Mass Glorie
Name: BANE BIGGIZ  Title: PANES. DENT
ACKNOWLEDGEMENT
STATE OF OKLAHOLD)
COUNTY MURLAY )
The foregoing instrument was acknowledged before me this 19 day of 5297. 2023, by BANE PLANT, in his/her capacity as PRIGHT of BANE BIGHT, INC., on behalf of said corporation.
My Commission Expires: 5/2/2026 Usarlotte Morman Notary Public
CHARLOTTE NORMAN Notary Public - State of Oklahoma Commission Number 18004450 My Commission Expires May 2, 2026

# WORKING INTEREST OWNERS

AND/OR LESSEES OF RECORD

<b>CP</b>	<b>Energy</b>	<b>Investments</b>	III, LL	C

Date: 9/27/23

By: Jenflynn

Name: Taylor Zaymance

Title: Co-President

### **ACKNOWLEDGEMENT**

STATE OF Texas )	MATTHEW PAUL FISHER
COUNTY Dallas )	Notary ID #133404494 My Commission Expires October 20, 2025
The foregoing instrument was acknowledged by Taylor Laymance, in his/her cap CP Energy Investments III LLC	ed before me this 27 day of Scotember, 2023, acity as of of of of of of of of
My Commission Expires: 10/20/2025	Ma fin Notary Public

	Concho Oil & Gas LLC	
Date: 9-25-23	By: Ry D. F	
	Name: Ryan D. Owen	
	Title: Attorney-in-Fact	
		BTR
<u>A</u>	ACKNOWLEDGEMENT	
STATE OF TEXAS )		
COUNTY MIDLAND )		
by Rvan D. Owen , in	his/her capacity asAttorney-in-Fact, on behalf of said corporation.	
My Commission Expires:	Notary Public OV	
	TORI BEZINQUE My Notary ID # 131185992 Expires October 26, 2025	

	COG Operating LLC	
Date: 9-75-23	By: Ry . 1	
	Name: Ryan D. Owen	
	Title:Attorney-in-Fact	3
		BTR
	ACKNOWLEDGEMENT	
STATE OF TEXAS )		
COUNTY MIDLAND )		
by Rvan D. Owen, in	was acknowledged before me this 15 day of suphrhon his/her capacity as Attorney-in-Fact, on behalf of said corporation.	_, 2023, of
My Commission Expires:	Notary Public	:
	TORI BEZINQUE My Notary ID # 131185992 Expires October 26, 2025	

Chief Capital (O&G) II LLC
Date: 10-19-2023 By:
Name: Walt Nixon
Title: President
<u>ACKNOWLEDGEMENT</u>
STATE OF Texas
COUNTY Dallas )
The foregoing instrument was acknowledged before me this 19 day of October, 2023, by Walt Nixon, in his/her capacity as fresident of Chief Capital (0:6) IT LLC, on behalf of said corporation.
My Commission Expires: 7-9-2025  Notary Public
JACE MCKENZIE Notery Public, State of Texas Comm. Expires 07-09-2025 Notary ID 133202915

# **EXHIBIT "A"**

Plat of communitized area covers 670.38 acres in Lots 1-8 of Section 2, Lots 1-8 of Section 1, Township 21 South, Range 28 East, and Lots 3-6 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

### Simon Camamile 0206 Fed Com #201H & #202H

Tract 1	<u>Tract 2</u>	<u>Tract 3</u>	<u>Tract 4</u>	
VB-0183-0003	NMNM-142221	NMNM-115409	NMNM-115412	
268.20 Acres	134.09 Acres	134.31 Acres	133.78 Acres	
Section 2	Sect	ion 1	Sect	ion 6

#### **EXHIBIT "B"**

Attached to and made a part of that certain Communitization Agreement dated February 1, 2023, embracing the following described land in Lots 1-8 of Section 2, Lots 1-8 of Section 1, Township 21 South, Range 28 East, and Lots 3-6 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Operator of Communitized Area: Matador Production Company

### DESCRIPTION OF LEASES COMMITTED

### Tract No. 1

Lease Serial Number: VB-0183-0003

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 2: Lots 1-8

Number of Acres: 268.20

Current Lessee of Record: Judah Oil LLC

Name of Working Interest Owners: Bane Bigbie and wife, Melanie Bigbie – 0.25%

Charmar, LLC - 0.375%

CP Energy Investments III, LLC – 5.125%

Innoventions, Inc – 2.375% Jalapeno Corporation – 4.625%

Chief Capital (O&G) II, LLC (compulsory pooled) -

4.625%

Michael Kyle Leonard, Trustee of the Michael

Kyle Leonard Child's Trust − 0.1%

Mitchell Exploration, Inc (compulsory pooled) -

0.25%

MRC Permian Company – 82.175%

Shannon C. Leonard, Trustee of the Shannon C. Leonard Child's Trust (compulsory pooled) – 0.1%

#### Tract No. 2

Lease Serial Number: NMNM-142221

**Description of Land Committed:**Township 21 South, Range 28 East,

Section 1: Lots 3-6

Number of Acres: 134.09

Current Lessee of Record: MRC Permian Company

Name of Working Interest Owners:

MRC Permian Company – 100%

### Tract No. 3

Lease Serial Number:

NMNM-115409

**Description of Land Committed:** 

Township 21 South, Range 28 East,

Section 1: Lots 1, 2, 7 & 8

Number of Acres:

134.31

**Current Lessee of Record:** 

COG Operating LLC Concho Oil & Gas LLC EOG Resources, Inc Oxy Y-1 Company

Name of Working Interest Owners:

COG Operating LLC – 57.5%

Concho Oil & Gas LLC - 2.5%

EOG Resources, Inc (compulsory pooled) -30%Oxy Y-1 Company (compulsory pooled) -10%

#### Tract No. 4

Lease Serial Number:

NMNM-115412

**Description of Land Committed:** 

Township 21 South, Range 29 East,

Section 6: Lots 3-6

Number of Acres:

133.78

**Current Lessee of Record:** 

Mewbourne Oil Company

Name of Working Interest Owners:

3MG Corporation (compulsory pooled) – 12% CWM 2000-B, Ltd (compulsory pooled) – 16.6% Mewbourne Development Corporation (compulsory

pooled) - 40%

Mewbourne Oil Company (compulsory pooled) -

16.6%

Occidental Permian Limited Partnership (compulsory

pooled) - 20%

# **RECAPITULATION**

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
1	268.20	40.007160%
2	134.09	20.034906%
3	134.31	20.002088%
4	133.78	19.955846%
Total	670.38	100.00%

# Federal Communitization Agreement

Contract No.	

THIS AGREEMENT entered into as of the 1<sup>st</sup> day of February, 2023, by and between the parties subscribing, ratifying, or consenting hereto, such parties being hereinafter referred to as "parties hereto."

#### WITNESSETH:

WHEREAS, the Act of February 25, 1920 (41 Stat. 437), as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a Federal oil and gas lease, or any portion thereof, with other lands, whether or not owned by the United States, when separate tracts under such Federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area and such communitization or pooling is determined to be in the public interest; and

WHEREAS, the parties hereto own working, royalty or other leasehold interests, or operating rights under the oil and gas leases and lands subject to this agreement which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of this agreement:

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

Lots 9-16 of Section 2, Lots 9-16 of Section 1, Township 21 South, Range 28 East, and Lots 11-14 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Containing **780.84** acres, and this agreement shall include only the Wolfcamp Formation underlying said lands and the oil and gas hereafter referred to as "communitized substances," producible from such formation.

- 2. Attached hereto, and made a part of this agreement for all purposes is Exhibit "A", a plat designating the communitized area and, Exhibit "B", designating the operator of the communitized area and showing the acreage, percentage and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized area.
- 3. The Operator of the communitized area shall be **Matador Production Company 5400 Lyndon B Johnson Fwy, Suite 1500, Dallas, Texas, 75240**. All matters of operations shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area and four (4) executed copies of a designation of successor operator shall be filed with the Authorized Officer.
- 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties and such other reports as are deemed necessary to compute monthly the royalty due the United States, as specified in the applicable oil and gas operating regulations.
- 5. The communitized area shall be developed and operated as an entirety, with the understanding and agreement between the parties hereto that all communitized substances produced there from shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed to this agreement.

If the communitized area approved in this Agreement contains unleased Federal lands, the value of 1/8<sup>th</sup> or 12 ½ percent for the Federal lands, of the production that would be allocated to such Federal lands, described above, if such lands were leased, committed and entitled to participation, shall be payable as compensatory royalties to the Federal government. The remaining 7/8<sup>th</sup> should be placed into an escrow account set up by the operator. Parties to the Agreement holding working interest in committed leases within the applicable communitized area are responsible for such royalty payments on the volume of the production reallocated from the unleased Federal lands to their communitized tracts as set forth in Exhibit "B" attached hereto. The value of such production subject to the payment of said royalties shall be determined pursuant to the method set forth in 30 CFR Part 1206 for the unleased Federal lands. Payment of compensatory royalties on the production reallocated from the unleased Federal lands to the committed tracts within the communitized area shall fulfill the Federal royalty obligation for such production. Payment of compensatory royalties, as provided herein, shall accrue from the date the committed tracts in the communitized area that includes unleased Federal land receive a production allocation, and shall be due and payable by the last day of the calendar month next following the calendar month

of actual production. Payment due under this provision shall end when the Federal tract is leased or when production of communitized substances ceases within the communitized area and the Communitization Agreement is terminated, whichever occurs first.

Any party acquiring a Federal lease of the unleased Federal lands included in the communitized area established hereunder, will be subject to this Agreement as of the effective date of the Federal leases to said party (ies). Upon issuance of the Federal lease and payment of its proportionate cost of the well, including drilling, completing and equipping the well, the acquiring party (ies) shall own the working interest described in the Tract, as described on Exhibit "B", and shall have the rights and obligations of said working interest as to the effective date of the Federal Lease.

- 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any Federal lease bearing a sliding- or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any noncommunitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day, such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized lease production.
- 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.
- 8. The commencement, completion, continued operation, or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation, or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.

- 9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes. This agreement shall be subject to all applicable Federal and State laws or executive orders, rules and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or if such failure results from, compliance with any such laws, orders, rules or regulations.
- 10. The date of this agreement is **February 1, 2023**, and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of the Interior or by his duly authorized representative, and shall remain in force and effect for a period of 2 years and for as long as communitized substances are, or can be, produced from the communitized area in paying quantities: Provided, that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of the Interior, or his duly authorized representative, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within 60 days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence during the period of nonproduction. The 2year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period.
- 11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interests until this agreement terminates and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal land shall be subject to approval by the Secretary of the Interior, or his duly authorized representative.
- 12. It is agreed between the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all Fee and State mineral operations within the communitized area to the extent necessary to monitor production and measurement, and assure that no avoidable loss of hydrocarbons occur in which the United States has an interest pursuant to applicable oil and gas regulations of the Department of the Interior relating to such production and measurement.
- 13. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors, and assigns.

- 14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto, and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.
- 15. <u>Nondiscrimination</u>. In connection with the performance of work under this agreement, the operator agrees to comply with all the provisions of Section 202(1) to (7) inclusive, of Executive Order 11246 (30F.R. 12319), as amended, which are hereby incorporated by reference in this agreement.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written and have set opposite their respective names the date of execution.

**Operator: Matador Production Company** Signature of Authorized Agent By: Bryan A. Erman - E.V.P. and General Counsel and Head of M&A Name & Title of Authorized Agent Date: **ACKNOWLEDGEMENT** STATE OF **TEXAS**) COUNTY OF **DALLAS**) day of , 2023, before me, a Notary Public for the State of On this Texas, personally appeared Bryan A. Erman, known to me to be the E.V.P. and General Counsel and Head of M&A of Matador Production Company, the corporation that executed the foregoing instrument and acknowledged to me such corporation executed the same. (SEAL) My Commission Expires Notary Public

MRC I	<u>Permian Company</u>	
By:		_
	Bryan A. Erman - E.V.P. and General Couns	sel and Head of M&A
Date:		_
	ACKNOWLEDO	SEMENT
STATE	E OF <b>TEXAS</b> )	
COUN	TTY OF DALLAS)	
Texas, Counse	sday of, 2023, before personally appeared Bryan A. Erman, knowel and Head of M&A of MRC Permian Coning instrument and acknowledged to me such	npany, the corporation that executed the
(SEAL	<i>.</i> )	
My Co	ommission Expires	Notary Public

# **EXHIBIT "A"**

Plat of communitized area covers 780.84 acres in Lots 9-16 of Section 2, Lots 9-16 of Section 1, Township 21 South, Range 28 East, and Lots 11-14 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

### Simon Camamile 0206 Fed Com #203H & #204H

<u>Tract 1</u> VB-0183-0003 320 Acres	<u>Tract 2</u> NMNM-142221 160 Acres	<u>Tract 3</u> NMNM-115409 160 Acres	<u>Tract 4</u> NMNM-0029588 140.84 Acres	
Section 2	Sect	ion 1	Sect	ion 6

### **EXHIBIT "B"**

Attached to and made a part of that certain Communitization Agreement dated February 1, 2023, embracing the following described land in Lots 9-16 of Section 2, Lots 9-16 of Section 1, Township 21 South, Range 28 East, and Lots 11-14 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Operator of Communitized Area: Matador Production Company

#### DESCRIPTION OF LEASES COMMITTED

### Tract No. 1

Lease Serial Number: VB-0183-0003

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 2: Lots 9-16

Number of Acres: 320

Current Lessee of Record: Judah Oil LLC

Name of Working Interest Owners: Bane Bigbie and wife, Melanie Bigbie – 0.25%

Charmar, LLC - 0.375%

CP Energy Investments III, LLC – 5.125%

Innoventions, Inc – 2.375% Jalapeno Corporation – 4.625%

Chief Capital (O&G) II, LLC (compulsory pooled) -

4.625%

Michael Kyle Leonard, Trustee of the Michael

Kyle Leonard Child's Trust − 0.1%

Mitchell Exploration, Inc (compulsory pooled) –

0.25%

MRC Permian Company – 82.175%

Shannon C. Leonard, Trustee of the Shannon C. Leonard Child's Trust (compulsory pooled) -0.1%

### Tract No. 2

Lease Serial Number: NMNM-142221

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 1: Lots 11-14

Number of Acres: 160

Current Lessee of Record: MRC Permian Company

Name of Working Interest Owners: MRC Permian Company – 100%

### Tract No. 3

Lease Serial Number: NMNM-115409

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 1: Lots 9, 10, 15 & 16

Number of Acres: 160

Current Lessee of Record: COG Operating LLC

Concho Oil & Gas LLC EOG Resources, Inc Oxy Y-1 Company

Name of Working Interest Owners: COG Operating LLC – 57.5%

Concho Oil & Gas LLC - 2.5%

EOG Resources, Inc (compulsory pooled) – 30% Oxy Y-1 Company (compulsory pooled) – 10%

#### Tract No. 4

Lease Serial Number: NMNM-0029588

**Description of Land Committed:** Township 21 South, Range 29 East,

Section 6: Lots 11-14

Number of Acres: 140.84

Current Lessee of Record: COG Operating LLC

Concho Oil & Gas LLC

Name of Working Interest Owners: COG Operating LLC – 47.5%

EOG Resources, Inc (compulsory pooled) – 22% Oxy Y-1 Company (compulsory pooled) – 16% Sharbro Energy, LLC (compulsory pooled) – 12%

Concho Oil & Gas LLC – 2.5%

# **RECAPITULATION**

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
1	320	40.981507%
2	160	20.490754%
3	160	20.490754%
4	140.84	18.036985%
Total	780.84	100.00%

# Federal Communitization Agreement

Contract No.	

THIS AGREEMENT entered into as of the 1<sup>st</sup> day of February, 2023, by and between the parties subscribing, ratifying, or consenting hereto, such parties being hereinafter referred to as "parties hereto."

#### WITNESSETH:

WHEREAS, the Act of February 25, 1920 (41 Stat. 437), as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a Federal oil and gas lease, or any portion thereof, with other lands, whether or not owned by the United States, when separate tracts under such Federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area and such communitization or pooling is determined to be in the public interest; and

WHEREAS, the parties hereto own working, royalty or other leasehold interests, or operating rights under the oil and gas leases and lands subject to this agreement which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of this agreement:

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

N2S2 of Sections 2 & 1, Township 21 South, Range 28 East, Lot 17 & NE/4SW/4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Containing 390.36 acres, and this agreement shall include only the Wolfcamp Formation underlying said lands and the oil and gas hereafter referred to as "communitized substances," producible from such formation.

2. Attached hereto, and made a part of this agreement for all purposes is Exhibit "A", a plat designating the communitized area and, Exhibit "B", designating the

operator of the communitized area and showing the acreage, percentage and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized area.

- 3. The Operator of the communitized area shall be **Matador Production Company** 5400 Lyndon B Johnson Fwy, Suite 1500, Dallas, Texas, 75240. All matters of operations shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area and four (4) executed copies of a designation of successor operator shall be filed with the Authorized Officer.
- 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties and such other reports as are deemed necessary to compute monthly the royalty due the United States, as specified in the applicable oil and gas operating regulations.
- 5. The communitized area shall be developed and operated as an entirety, with the understanding and agreement between the parties hereto that all communitized substances produced there from shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed to this agreement.

If the communitized area approved in this Agreement contains unleased Federal lands, the value of 1/8<sup>th</sup> or 12 ½ percent for the Federal lands, of the production that would be allocated to such Federal lands, described above, if such lands were leased, committed and entitled to participation, shall be payable as compensatory royalties to the Federal government. The remaining 7/8th should be placed into an escrow account set up by the operator. Parties to the Agreement holding working interest in committed leases within the applicable communitized area are responsible for such royalty payments on the volume of the production reallocated from the unleased Federal lands to their communitized tracts as set forth in Exhibit "B" attached hereto. The value of such production subject to the payment of said royalties shall be determined pursuant to the method set forth in 30 CFR Part 1206 for the unleased Federal lands. Payment of compensatory royalties on the production reallocated from the unleased Federal lands to the committed tracts within the communitized area shall fulfill the Federal royalty obligation for such production. Payment of compensatory royalties, as provided herein, shall accrue from the date the committed tracts in the communitized area that includes unleased Federal land receive a production allocation, and shall be due and payable by the last day of the calendar month next following the calendar month of actual production. Payment due under this provision shall end when the Federal tract is leased or when production of communitized substances ceases within the

communitized area and the Communitization Agreement is terminated, whichever occurs first.

Any party acquiring a Federal lease of the unleased Federal lands included in the communitized area established hereunder, will be subject to this Agreement as of the effective date of the Federal leases to said party (ies). Upon issuance of the Federal lease and payment of its proportionate cost of the well, including drilling, completing and equipping the well, the acquiring party (ies) shall own the working interest described in the Tract, as described on Exhibit "B", and shall have the rights and obligations of said working interest as to the effective date of the Federal Lease.

- 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any Federal lease bearing a sliding- or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any noncommunitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day, such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized lease production.
- 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.
- 8. The commencement, completion, continued operation, or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation, or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.
- 9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes.

This agreement shall be subject to all applicable Federal and State laws or executive orders, rules and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or if such failure results from, compliance with any such laws, orders, rules or regulations.

- 10. The date of this agreement is **February 1, 2023**, and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of the Interior or by his duly authorized representative, and shall remain in force and effect for a period of 2 years and for as long as communitized substances are, or can be, produced from the communitized area in paying quantities: Provided, that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of the Interior, or his duly authorized representative, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within 60 days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence during the period of nonproduction. The 2year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period.
- 11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interests until this agreement terminates and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal land shall be subject to approval by the Secretary of the Interior, or his duly authorized representative.
- 12. It is agreed between the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all Fee and State mineral operations within the communitized area to the extent necessary to monitor production and measurement, and assure that no avoidable loss of hydrocarbons occur in which the United States has an interest pursuant to applicable oil and gas regulations of the Department of the Interior relating to such production and measurement.
- 13. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors, and assigns.
- 14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto, and shall be binding upon all

parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.

15. <u>Nondiscrimination.</u> In connection with the performance of work under this agreement, the operator agrees to comply with all the provisions of Section 202(1) to (7) inclusive, of Executive Order 11246 (30F.R. 12319), as amended, which are hereby incorporated by reference in this agreement.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written and have set opposite their respective names the date of execution.

Operator: Matador Production Compa	<u>ny</u>
Signature of Authorized Agent	_
By: Bryan A. Erman - E.V.P. and General Co Name & Title of Authorized Agent	ounsel and Head of M&A
Date:	
ACKNO	WLEDGEMENT
STATE OF <b>TEXAS</b> )	
COUNTY OF <b>DALLAS</b> )	
Texas, personally appeared Bryan A. Er Counsel and Head of M&A of Matador	23, before me, a Notary Public for the State of rman, known to me to be the E.V.P. and General Production Company, the corporation that acknowledged to me such corporation executed
(SEAL)	
My Commission Expires	Notary Public

MRC I	<u>Permian Company</u>	
By:		_
	Bryan A. Erman - E.V.P. and General Counse	sel and Head of M&A
Date:		_
	ACKNOWLEDG	EEMENT
STATE	E OF <b>TEXAS</b> )	
COUN	TTY OF DALLAS)	
Texas, Counse	sday of, 2023, before personally appeared Bryan A. Erman, knowel and Head of M&A of MRC Permian Coning instrument and acknowledged to me such	npany, the corporation that executed the
(SEAL	<i>.</i> )	
My Co	ommission Expires	Notary Public

# **EXHIBIT "A"**

Plat of communitized area covers 390.36 acres in N2S2 of Sections 2 & 1, Township 21 South, Range 28 East, Lot 17 & the NE/4SW/4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

# Simon Camamile 0206 Fed Com #205H

Section 2	Section 1	Section 6
Tract 1 VB-0183-0003 160 Acres	<u>Tract 2</u> NMNM-115407 160 Acres	Tract 3 NMNM-029588 70.36

### **EXHIBIT "B"**

Attached to and made a part of that certain Communitization Agreement dated February 1, 2023, embracing the following described land in N2S2 of Sections 2 & 1, Township 21 South, Range 28 East, Lot 17 & NE/4SW/4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Operator of Communitized Area: Matador Production Company

#### **DESCRIPTION OF LEASES COMMITTED**

#### Tract No. 1

Lease Serial Number: VB-0183-0003

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 2: Lots N2S2

Number of Acres: 160.00

Current Lessee of Record: Judah Oil LLC

Name of Working Interest Owners: Bane Bigbie and wife, Melanie Bigbie

Charmar, LLC

CP Energy Investments III, LLC

Critterville, LLC

El Capitan Ventures, LLC

Innoventions, Inc Jalapeno Corporation JTD Resources, LLC

LML Working Properties, LLC

Michael Kyle Leonard, Trustee of the Michael

Kyle Leonard Child's Trust Mitchell Exploration, Inc MRC Permian Company

Robert K. Leonard

Shannon C. Leonard, Trustee of the Shannon C.

Leonard Child's Trust

Tumbleweed Exploration, LLC

### Tract No. 2

Lease Serial Number: NMNM-115407

**Description of Land Committed:**Township 21 South, Range 28

East Section 1: N2S2

Number of Acres: 160.00

Current Lessee of Record: COG Operating LLC

Concho Oil & Gas LLC EOG Resources, Inc Oxy Y-1 Company

Name of Working Interest Owners: COG Operating LLC

Concho Oil & Gas LLC EOG Resources, Inc Oxy Y-1 Company

#### Tract No. 3

Lease Serial Number: NMNM-029588

**Description of Land Committed:** Township 21 South, Range 29 East,

Section 6: Lots 17, NE/4SW/4

Number of Acres: 70.36

Current Lessee of Record: COG Operating LLC

Concho Oil & Gas LLC

Name of Working Interest Owners: COG Operating LLC

Concho Oil & Gas LLC Foran Oil Company Hope Royalties, LLC MRC Permian Company Oxy Y-1 Company

Performance Oil and Gas Company

Sharbro Energy, LLC Xplor Resources, LLC

# **RECAPITULATION**

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
1	160.00	40.99%
2	160.00	40.99%
3	70.36	18.02%
Total	390.36	100.00%

# Federal Communitization Agreement

Contract No.	

THIS AGREEMENT entered into as of the 1<sup>st</sup> day of February, 2023, by and between the parties subscribing, ratifying, or consenting hereto, such parties being hereinafter referred to as "parties hereto."

#### WITNESSETH:

WHEREAS, the Act of February 25, 1920 (41 Stat. 437), as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a Federal oil and gas lease, or any portion thereof, with other lands, whether or not owned by the United States, when separate tracts under such Federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area and such communitization or pooling is determined to be in the public interest; and

WHEREAS, the parties hereto own working, royalty or other leasehold interests, or operating rights under the oil and gas leases and lands subject to this agreement which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of this agreement:

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

S2S2 of Sections 2 & 1, Township 21 South, Range 28 East, Lot 18 & the SE/4SW/4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Containing 390.32 acres, and this agreement shall include only the Wolfcamp Formation underlying said lands and the oil and gas hereafter referred to as "communitized substances," producible from such formation.

2. Attached hereto, and made a part of this agreement for all purposes is Exhibit "A", a plat designating the communitized area and, Exhibit "B", designating the

operator of the communitized area and showing the acreage, percentage and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized area.

- 3. The Operator of the communitized area shall be **Matador Production Company** 5400 Lyndon B Johnson Fwy, Suite 1500, Dallas, Texas, 75240. All matters of operations shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area and four (4) executed copies of a designation of successor operator shall be filed with the Authorized Officer.
- 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties and such other reports as are deemed necessary to compute monthly the royalty due the United States, as specified in the applicable oil and gas operating regulations.
- 5. The communitized area shall be developed and operated as an entirety, with the understanding and agreement between the parties hereto that all communitized substances produced there from shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed to this agreement.

If the communitized area approved in this Agreement contains unleased Federal lands, the value of 1/8<sup>th</sup> or 12 ½ percent for the Federal lands, of the production that would be allocated to such Federal lands, described above, if such lands were leased, committed and entitled to participation, shall be payable as compensatory royalties to the Federal government. The remaining 7/8th should be placed into an escrow account set up by the operator. Parties to the Agreement holding working interest in committed leases within the applicable communitized area are responsible for such royalty payments on the volume of the production reallocated from the unleased Federal lands to their communitized tracts as set forth in Exhibit "B" attached hereto. The value of such production subject to the payment of said royalties shall be determined pursuant to the method set forth in 30 CFR Part 1206 for the unleased Federal lands. Payment of compensatory royalties on the production reallocated from the unleased Federal lands to the committed tracts within the communitized area shall fulfill the Federal royalty obligation for such production. Payment of compensatory royalties, as provided herein, shall accrue from the date the committed tracts in the communitized area that includes unleased Federal land receive a production allocation, and shall be due and payable by the last day of the calendar month next following the calendar month of actual production. Payment due under this provision shall end when the Federal tract is leased or when production of communitized substances ceases within the

communitized area and the Communitization Agreement is terminated, whichever occurs first.

Any party acquiring a Federal lease of the unleased Federal lands included in the communitized area established hereunder, will be subject to this Agreement as of the effective date of the Federal leases to said party (ies). Upon issuance of the Federal lease and payment of its proportionate cost of the well, including drilling, completing and equipping the well, the acquiring party (ies) shall own the working interest described in the Tract, as described on Exhibit "B", and shall have the rights and obligations of said working interest as to the effective date of the Federal Lease.

- 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any Federal lease bearing a sliding- or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any noncommunitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day, such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized lease production.
- 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.
- 8. The commencement, completion, continued operation, or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation, or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.
- 9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes.

This agreement shall be subject to all applicable Federal and State laws or executive orders, rules and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or if such failure results from, compliance with any such laws, orders, rules or regulations.

- 10. The date of this agreement is **February 1, 2023**, and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of the Interior or by his duly authorized representative, and shall remain in force and effect for a period of 2 years and for as long as communitized substances are, or can be, produced from the communitized area in paying quantities: Provided, that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of the Interior, or his duly authorized representative, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within 60 days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence during the period of nonproduction. The 2year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period.
- 11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interests until this agreement terminates and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal land shall be subject to approval by the Secretary of the Interior, or his duly authorized representative.
- 12. It is agreed between the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all Fee and State mineral operations within the communitized area to the extent necessary to monitor production and measurement, and assure that no avoidable loss of hydrocarbons occur in which the United States has an interest pursuant to applicable oil and gas regulations of the Department of the Interior relating to such production and measurement.
- 13. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors, and assigns.
- 14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto, and shall be binding upon all

parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.

15. <u>Nondiscrimination.</u> In connection with the performance of work under this agreement, the operator agrees to comply with all the provisions of Section 202(1) to (7) inclusive, of Executive Order 11246 (30F.R. 12319), as amended, which are hereby incorporated by reference in this agreement.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written and have set opposite their respective names the date of execution.

Operator: Matador Production Company	<u>ny</u>
Signature of Authorized Agent	-
By: Bryan A. Erman - E.V.P. and General Co Name & Title of Authorized Agent	unsel and Head of M&A
Date:	
ACKNO	WLEDGEMENT
STATE OF <b>TEXAS</b> )	
COUNTY OF <b>DALLAS</b> )	
Texas, personally appeared Bryan A. Er Counsel and Head of M&A, of Matador	23, before me, a Notary Public for the State of man, known to me to be the E.V.P. and General Production Company, the corporation that acknowledged to me such corporation executed
(SEAL)	
My Commission Expires	Notary Public

MRC	Permian Company	
By:		
	Bryan A. Erman - E.V.P. and	General Counsel and Head of M&A
Date:		
	ACK	NOWLEDGEMENT
STAT	E OF <b>TEXAS</b> )	
	,	
COUN	NTY OF DALLAS)	
Couns	personally appeared Bryan A el and Head of M&A, of MR	A. Erman, known to me to be the E.V.P. and General C. Permian Company, the corporation that executed ewledged to me such corporation executed the same.
(SEAI	2)	
My Co	ommission Expires	Notary Public

### **EXHIBIT "A"**

Plat of communitized area covers 390.32 acres in S2S2 of Sections 2 & 1, Township 21 South, Range 28 East, Lot 18 & the SE/4SW/4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

### Simon Camamile 0206 Fed Com #206H

Section 2	Section 1	Section 6
<u>Tract 1</u>	<u>Tract 2</u>	Tract 3
VB-0183-0003	NMNM-130856	NMNM-029588
160 Acres	160 Acres	70.32

#### **EXHIBIT "B"**

Attached to and made a part of that certain Communitization Agreement dated February 1, 2023, embracing the following described land in S2S2 of Sections 2 & 1, Township 21 South, Range 28 East, Lot 18 & the SE/4SW/4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Operator of Communitized Area: Matador Production Company

#### DESCRIPTION OF LEASES COMMITTED

#### Tract No. 1

**Lease Serial Number:** VB-0183-0003

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 2: Lots S2S2

**Number of Acres:** 160.00

**Current Lessee of Record:** Judah Oil LLC

Name of Working Interest Owners: Bane Bigbie and wife, Melanie Bigbie

Charmar, LLC

CP Energy Investments III, LLC

Critterville, LLC

El Capitan Ventures, LLC

Innoventions, Inc Jalapeno Corporation JTD Resources, LLC

LML Working Properties, LLC

Michael Kyle Leonard, Trustee of the Michael

Kyle Leonard Child's Trust Mitchell Exploration, Inc MRC Permian Company

Robert K. Leonard

Shannon C. Leonard, Trustee of the Shannon C.

Leonard Child's Trust

Tumbleweed Exploration, LLC

#### Tract No. 2

**Lease Serial Number:** NMNM-130856

**Description of Land Committed:** Township 21 South, Range 28

East Section 1: S2S2

**Number of Acres:** 160.00

**Current Lessee of Record:** MRC Permian Company

Name of Working Interest Owners: MRC Permian Company

#### Tract No. 3

**Lease Serial Number:** NMNM-029588

**Description of Land Committed:** Township 21 South, Range 29 East,

Section 6: Lots 18, SE/4SW/4

70.32 **Number of Acres:** 

**Current Lessee of Record:** COG Operating LLC

Concho Oil & Gas LLC

Name of Working Interest Owners: COG Operating LLC

Concho Oil & Gas LLC Foran Oil Company Hope Royalties, LLC MRC Permian Company

Oxy Y-1 Company

Performance Oil and Gas Company

Sharbro Energy, LLC Xplor Resources, LLC

## RECAPITULATION

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
1	160.00	40.99%
2	160.00	40.99%
3	70.32	18.02%
Total	390.32	100.00%

# MRC Permian Company

One Lincoln Centre • 5400 LBJ Freeway • Suite 1500 • Dallas, Texas 75240 Voice 972.587.4622

preston.cazale@matadorresources.com

Preston Cazale Land Analyst

December 4, 2023

VIA CERTIFIED RETURN RECEIPT MAIL

New Mexico State Land Office Attn: Baylen Lamkin 310 Old Santa Fe Trail P.O. Box 1148 Santa Fe, NM 87501-1148

Re:

Matador Production Company

Simon Camamile 0206 Fed Com #201H, #202H

State Communitization Agreement

Dear Mr. Lamkin:

Enclosed please find the following:

State Communitization Agreement, for the Simon Camamile 0206 Fed Com #201H, #202H, Wolfcamp Unit, containing 670.38 acres of land, more or less, described as Lots 1-8 of Sections 1 and 2, Township 21 South, Range 28 East; Lots 3-6 of Section 6, Township 21 South, Range 29 East N.M.P.M., Eddy County, New Mexico.

Please contact me if there are any questions.

Sincerely,

Matador Production Company

Preston Cazale

# New Mexico State Land Office Oil, Gas, & Minerals Division

### STATE/STATE OR STATE/FEE

Revised July 2023

# COMMUNITIZATION AGREEMENT

	ONLINE VOISION	
API #: 30- <u>015</u>		- 54098

THIS COMMUNITIZATION AGREEMENT ("Agreement") [which is NOT to be used for carbon dioxide or helium] is entered into and made effective this 1s [day] of February [month])2023 \_\_\_\_\_\_, by and between the parties signing below ("Parties"):

WHEREAS, the Commissioner of Public Lands of the State of New Mexico ("Commissioner") is authorized by the Legislature, as set forth in Section 19-10-53, NMSA 1978, in the interest of development of oil and gas and the prevention of waste to consent to and approve the development or operation of State Trust Lands under agreements made by lessees of oil and gas leases thereon, jointly or severally with other oil & gas lessees of State Trust Lands, or oil and gas lessees or mineral owners of privately owned or fee lands, for the purpose of pooling or communitizing such lands to form a proration unit or portion thereof, or well-spacing unit, pursuant to any order, rule or regulation of the New Mexico Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department ("OCD") where such agreement provides for the allocation of the production of oil or gas from such pools or communitized areas on an acreage or other basis found by the Commissioner to be fair and equitable.

WHEREAS, the Parties own working, royalty, or other leasehold or other interests or operating rights under the oil and gas leases and lands subject to this Agreement, and all such State leases are required to remain in good standing and compliant with State laws, rules and regulations, which leases, along with the well(s) on each lease to be encompassed by this Agreement, are more particularly described in the schedule attached hereto, marked Exhibit "A" and made a part hereof, for all purposes; and

WHEREAS, said leases, insofar as they cover the Wolfcamp formation or pool as defined by the NMOCD, as further described on Exhibit "A" (hereinafter referred to as "said formation") in and under the land hereinafter described cannot be independently developed and operated in conformity with the well-spacing program established for such formation in and under said lands; and

WHEREAS, the Parties hereto desire to communitize and pool their respective interests in said leases subject to this Agreement for the purpose of developing, operating and producing hydrocarbons in the said formation in and under the land hereinafter described subject to the terms hereof.

ONLINE version

State/State

1

NOW THEREFORE, in consideration of the premises and the mutual advantages to the Parties, it is mutually covenanted and agreed by and between the undersigned as follows:

1. The lands described in Exhibit A (or B) covered by this Agreement (hereinafter referred to as the "communitized area") are described as follows:

Subdivisions:	Lots 1-8 of Sections 1 & 2, Lots 3-6 of Section 6	
0f Sect(s):1, 2, & 6	Twp: <u>21S</u> Rng: <u>28E &amp; 29E</u> NMPM <u>Eddy</u>	County, NM

Containing 670.38 acres, more or less. It is the judgment of the Parties that the communitization, pooling and consolidation of the aforesaid land into a single unit for the development and production of hydrocarbons from the said formation in and under said land is necessary and advisable in order to properly develop and produce the hydrocarbons in the said formation beneath the said land in accordance with the well spacing rules of the OCD, and in order to promote the conservation of the hydrocarbons in and that may be produced from said formation in and under said lands, and would be in the public interest;

AND, for the purposes aforesaid, the Parties do hereby communitize for proration or spacing purposes only the leases and depths described in Exhibit "A" hereto insofar as they cover hydrocarbons within and that may be produced from the said formation (hereinafter referred to as "communitized substances") beneath the above-described land, into a single communitization, for the development, production, operation and conservation of the hydrocarbons in said formation beneath said lands.

Attached hereto and made a part of this Agreement for all purposes, is Exhibit A showing the acreage, depths communitized, and ownership (lessees of record) of all leases within the communitized area.

- 2. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the Parties that all communitized substances produced therefrom shall be allocated among the leases described in Exhibit "A" hereto in the proportion that the number of surface acres covered by each of such leases and included within the communitized area bears to the total number of acres contained in the communitized area.
- 3. Subject to Paragraph 5, the royalties payable on communitized substances allocated to the individual leases and the rentals provided for in said leases shall be determined and paid in the manner and on the basis prescribed in each of said leases. Except as provided for under the terms and provisions of the leases described in Exhibit "A" hereto or as herein provided to the contrary, the payment of rentals or performance of other lease obligations under the terms of said leases shall not be affected by this Agreement; and except as herein modified and changed or heretofore amended, the oil and gas leases subject to this Agreement shall remain in full force and effect as originally issued and amended.

ONLINE version

State/State

- 4. <u>Matador Production Company</u> shall be the operator of the said communitized area ("Operator") and all matters of operation shall be determined and performed by <u>Matador Production Company</u>. If more than one Operator operates wells subject to this Agreement, the Commissioner reserves the right to require one or more or all operators who added infill wells to this Agreement to obtain a new agreement.
- 5. The Commissioner hereafter is entitled to the right to take in kind the Commissioner's share for the communitized substances allocated to such tract, and the Operator shall make deliveries of such royalty share taken in kind in conformity with applicable contracts, laws, and regulations.
- 6. There shall be no obligation upon the Parties to offset any well or wells situated on the tracts of land comprising the communitized area, nor shall the Operator be required to measure separately the communitized substances by reason of the diverse ownership of the separate tracts of land comprising the said communitized area; provided, however, that the Parties shall not be released from their obligation to protect the communitized area from drainage of communitized substances by wells which may be drilled within offset distance (as that term is defined) of the communitized area.
- 7. The commencement, completion, and continued operation or production of a well or wells of communitized substances on the communitized area shall be considered as the commencement, completion, continued operation or production as to each of the leases described in Exhibit "A" hereto.
- 8. The production of communitized substances and disposal thereof shall be in conformity with the allocations, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State laws.
- This Agreement shall be effective as of the date hereinabove written upon execution by the 9. Parties, notwithstanding the date of execution, and upon approval by the Commissioner, shall remain in full force and effect for a period of one year from the date hereof and as long thereafter as communitized substances are produced from the communitized area in paying quantities, and so long as all State leases remain in good standing with all applicable State laws, rules, and regulations; provided, that this Agreement shall not expire if there is a well producing gas in paying quantities located upon some part of the communitized area, if such a well is shut-in due to the inability of the Operator to obtain a pipeline connection or to market the gas therefrom, and if either: (a) a shut-in royalty has been timely and properly paid pursuant to the provisions of one of the State of New Mexico oil and gas leases covering lands subject to this Agreement so as to prevent the expiration of such lease; or (b) each of the State of New Mexico oil and gas leases covering lands subject to this Agreement is in its primary term (if a five-year lease), or in its primary or secondary term (if a ten-year lease), or is held by production from another well located within the physical boundaries of that specific lease assignment. Provided further, however, that prior to production in paying quantities from the communitized area, and upon fulfillment of all requirements of the Commissioner with respect to any dry hole or abandoned well drilled upon the communitized area, this Agreement may be terminated at any time by mutual agreement of the Parties.

ONLINE State/State version

- 10. Notwithstanding any other provision herein, if there is a cessation of production of communitized substances for more than sixty (60) days beginning one year after the date of execution, this Agreement shall automatically terminate, along with the ability to produce communitized substances, unless notice of reworking or drilling operations on the communitized area is made within 60 days of cessation of production of communitized substances and are thereafter conducted with reasonable diligence or the Commissioner of Public Lands otherwise grants an exception to continued drilling operations, including for the compliance of other state rules, laws, or policies. All such notices provided pursuant to this Paragraph shall be in writing and must be approved by the Commissioner. As to State Trust Lands, written notice of intention to commence any operations hereunder shall be filed with the Commissioner within thirty(30) days after the cessation of such production, and a report of the status of such operations shall be made by the Operator to the Commissioner every thirty (30) days, and the cessation of such operations for more than twenty (20) consecutive days shall be considered as an abandonment of such operations as to any lease from the State of New Mexico included in this Agreement. All requests to the Commissioner to grant an exception or exceptions for the compliance of other state rules, laws, or policies must be made in writing within thirty (30) days after the cessation of such production, and a report of the status of such operations shall be made by the Operator to the Commissioner every thirty (30) days, and the cessation of such operations for more than twenty (20) consecutive days shall be considered as an abandonment of such operations as to this Agreement or any lease from the State of New Mexico included in this Agreement
- 11. Operator shall furnish the Commissioner and the OCD, with any and all reports, statements, notices and well logs and records which may be required under the laws and regulations of the State of New Mexico.
- 12. It is agreed between the Parties that the Commissioner, or the Commissioner's duly authorized representatives, shall have the right of supervision over all operations under the communitized area to the same extent and degree as provided in the oil and gas leases described in Exhibit "A" hereto and in the applicable oil and gas regulations of the State Land Office and the OCD.
- 13. If any order of the OCD upon which this Agreement is predicated or based is in anyway changed or modified, then in such event said Agreement is likewise modified to conform thereto.
- 14. This Agreement may be executed in any number of counterparts, no one of which needs to be executed by all Parties, or may be ratified or consented to by separate instruments, in writing, specifically referring hereto, and shall be binding upon all Parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.
- 15. This Agreement shall be binding upon the Parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.

ONLINE version

State/State

- 16. In the event that Operator is aggrieved by a decision of the Commissioner with respect to any action by the Commissioner arising under this Agreement, Operator may within thirty (30) days after the date of such action file an administrative contest pursuant to 19.7.64 NMSA (1978) and 19.2.15 NMAC. Operator shall initiate no court action against the Commissioner or New Mexico State Land Office regarding this Agreement except to appeal a final decision of the Commissioner rendered pursuant to such a contest proceeding, and as provided by 19.7.64 NMSA (1978). The Parties agree that any venue for any appeal or other action shall be in Santa Fe, New Mexico.
- 17. Operator shall notify the Commissioner in writing within ten (10) days of (i) Operator's receipt of any compliance order, enforcement order, notice of violation, warning letter, or other written notice of final or contemplated enforcement action taken by any federal, state, or local governmental entity arising out of or concerning any of Operator's operations on New Mexico state trust land; (ii) Operator's receipt of any order, judgment, or decree (on consent or otherwise) entered by any federal or state court against Operator arising out of or concerning any of Operator's operations on New Mexico state trust land; or (iii) Operator's receipt of any written notice of claim, written pre-suit notice, or lawsuit arising out of or concerning any of Operator's operations on New Mexico state trust land. Upon the Commissioner's request, Operator shall promptly provide the Commissioner with a copy of any such order, judgment, decree, notice, letter, or lawsuit.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement as of the day and year
first above written.

Commissioner of Public Lands:	Date:	

ONLINE version

State/State

Operator: Matador Production Company

By:Bryan A. Erman - E.V.P. and General Counsel and Head of M&A Name & Title of Authorized Agent

Signature of Authorized Agent

Acknowledgment in a Representative Capacity

STATE OF TEXAS)

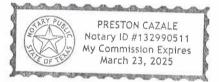
COUNTY OF DALLAS)

8

This instrument was acknowledged before me on November 27th, 2023, by Bryan A. Erman, as E.V.P. and General Counsel and Head of M&A for Matador Production Company, on behalf of said corporation.

Signature of Notarial Officer

My commission expires 3/23/2025



#### WORKING INTEREST OWNERS AND/OR LESSEES OF RECORD

#### **MRC Permian Company**

By: Bryan A. Erman - E.V.P. and General Counsel and Head of M&A

Name & Title of Authorized Agent

Signature of Authorized Agent

CA POR

Acknowledgment in a Representative Capacity

**STATE OF TEXAS)** §

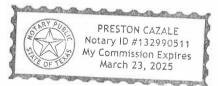
COUNTY OF DALLAS)

ONIT OF DALLAS)

This instrument was acknowledged before me on November 27th, 2023, by Bryan A. Erman, as E.V.P. and General Counsel and Head of M&A, for MRC Permian Company on behalf of said corporation.

Signature of Notarial Officer

My commission expires 3/23/2025



		NG INTEREST OWNERS R LESSEES OF RECORD
EOG Resources, Inc		
By:	Smith of	
Date: 9/26	1/23	
	Acknowle	edgment in an Individual Capacity
STATE OF	_ §	i t
COUNTY OF	§	
This instrument was acknown	owledged before me on	, 2023, by
Signature  Name (Print)  My commission expires		
1	Acknowledg	gment in a Representative Capacity
STATE OF LEXAS	<u> </u>	
COUNTY OF MIDLEN	d §	. (4.
This instrument was acknown	wledged before me on	September 28th, 2023, by Matthew W Snith, as , for EOG Resources, Inc. on
agent ? attor	reginitact	, for EOG Resources, Inc. on
behalf of said corporation.	<u> </u>	
Signature  Tracy Jordan  Name (Print)  My commission expires	0-17-2027	TRACY JORDAN  Notary Public, State of Texas  Comm. Expires 10-17-2027  Notary ID 132215654

#### WORKING INTEREST OWNERS AND/OR LESSEES OF RECORD

Judah Oil, LLC		
Ву:		
Date: September 26, 2023		
Date: September 26, 2023	3_	
Acknowled	gment in an Individual Capacity	
STATE OF NM §		
COUNTY OF EDDY §		
This instrument was acknowledged before me on James B. Campasolly Monber Manager  Judah Oil, LCC  Llin K. Box  Signature  Felicia K. Bowen  Name (Print)  My commission expires 05/01/2027  Acknowledged	FELICIA K. BOWEN Notary Public - State of New Mexico Commission # 1111892 My Comm. Expires May 1, 2027 ment in a Representative Capacity	
STATE OF §		
COUNTY OF §		
This instrument was acknowledged before me on _	, 2023, by	, as
	, for	on
behalf of said corporation.		
Signature		
Name (Print) My commission expires		

#### WORKING INTEREST OWNERS

AND/OR LESSEES OF RECORD

Concho On & Gas ELC
Ву:
Ryan D. Owen, Attorney-in-Fact Print Name
Date: 9-25-27
BTR JH
Acknowledgment in an Individual Capacity
STATE OF §
COUNTY OF §
This instrument was acknowledged before me on, 2023, by
Signature
Name (Print) My commission expires
Acknowledgment in a Representative Capacity
STATE OF TEXAS §
COUNTY OF MIDLAND §
This instrument was acknowledged before me on <u>Jupt. VS</u> , 2023, by <u>Ryan D. Owen</u> , as
Attorney-in-Fact , for <u>Concho Oil &amp; Gas, LLC</u> o
pehalf of said corporation.
Signature TORI BEZINQUE
My Notony ID # 424405000
Name (Print)  Wy Notary ID # 151163992  Expires October 26, 2025
My commission expires $\mu \cdot u \cdot v$

#### WORKING INTEREST OWNERS AND/OR LESSEES OF RECORD

COG Operating LLC			
By: Ry 0 4	_		
Ryan D. Owen, Attorney-in-Fact	t		
Print Name  Date: $9 - 2J - 2$	っつ		
Date:	BTR		
Acknov	14	ndividual Capacity	
STATE OF§			
COUNTY OF §			
This instrument was acknowledged before me	on	, 2023, by	
Signature			
Name (Print) My commission expires			
Acknowle	edgment in a Rep	resentative Capacity	
STATE OF_TEXAS §			
COUNTY OF MIDLAND §			
This instrument was acknowledged before me	on Supt 25	, 2023, by <b>Ryan D. Owen</b>	, as
Attorney-in-Fact	•	COG Operating, LLC	
behalf of said corporation.		, <u> </u>	
Signature LBWY			
Tin Bezirgue		TORI BEZINQUE My Notary ID # 131185992	
Name (Print) My commission expires	or it	Expires October 26, 2025	
ing commission expires v (M V)	CALLED STATE	RESERVED AND RESERVED TO A STATE OF THE PROPERTY OF THE PROPER	

# **EXHIBIT "A"**

Plat of communitized area covers 670.38 acres in Lots 1-8 of Section 2, Lots 1-8 of Section 1, Township 21 South, Range 28 East, and Lots 3-6 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

#### Simon Camamile 0206 Fed Com #201H - API#: 30-015-54098

#### Simon Camamile 0206 Fed Com #202H - API#: 30-015-54099

<u>Tract 1</u>	<u>Tract 2</u>	<u>Tract 3</u>	Tract 4	
VB-0183-0003	NMNM-142221	NMNM-115409	NMNM-115412	
268.20 Acres	134.09 Acres	134.31 Acres	133.78 Acres	
Section 2	Secti	ion 1	Sect	ion 6

#### **EXHIBIT "B"**

Attached to and made a part of that certain Communitization Agreement dated February 1, 2023, embracing the following described land in Lots 1-8 of Section 2, Lots 1-8 of Section 1, Township 21 South, Range 28 East, and Lots 3-6 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Operator of Communitized Area: Matador Resources Company

#### **DESCRIPTION OF LEASES COMMITTED**

#### **TRACT NO. 1**

Lease Serial Number:

VB-0183-0003

Lease Date:

2/1/1988

Lease Term:

5 Years

Lessor:

State of New Mexico

Royalty Rate:

 $3/16^{th}$ 

Description of Land Committed:

Township 21 South, Range 28 East,

Section 2: Lots 1-8

Number of Acres:

268.20

Current Lessee of Record:

Judah Oil LLC

Name of Working Interest Owners:

Bane Bigbie and wife, Melanie Bigbie

Charmar, LLC

CP Energy Investments III, LLC

Innoventions, Inc Jalapeno Corporation

Chief Capital (O&G) II, LLC

Michael Kyle Leonard, Trustee of the Michael Kyle

Leonard Child's Trust Mitchell Exploration, Inc MRC Permian Company

Shannon C. Leonard, Trustee of the Shannon C. Leonard

Child's Trust

ONLINE version

State/State

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#### TRACT NO. 2

Lease Serial Number:

NMNM-142221

Lessor:

United States of America

Description of Land Committed:

Township 21 South, Range 28 East,

Section 1: Lots 3-6

Number of Acres:

134.09

Current Lessee of Record:

MRC Permian Company

Name of Working Interest Owners:

MRC Permian Company

#### TRACT NO. 3

Lease Serial Number:

NMNM-115409

Lessor:

United States of America

Description of Land Committed:

Township 21 South, Range 28 East,

Section 1: Lots 1, 2, 7, & 8

Number of Acres:

134.31

Current Lessee of Record:

COG Operating LLC Concho Oil & Gas LLC EOG Resources, Inc Oxy Y-1 Company

Name of Working Interest Owners:

COG Operating LLC Concho Oil & Gas LLC EOG Resources, Inc Oxy Y-1 Company

ONLINE version

State/State

#### TRACT NO. 4

Lease Serial Number: NMNM-115412

Lessor: United States of America

Description of Land Committed: Township 21 South, Range 29 East,

Section 6: Lots 3-6

Number of Acres: 133.78

Current Lessee of Record: Mewbourne Oil Company

Name of Working Interest Owners: 3MG Corporation CWM 2000-B, Ltd

Mewbourne Development Corporation

Mewbourne Oil Company

Occidental Permian Limited Partnership

# **RECAPITULATION**

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
1	268.20	40.007160%
2	134.09	20.034906%
3	134.31	20.002088%
4	133.78	19.955846%
Total	670.38	100.00%

NM State Land Office Oil, Gas, & Minerals Division

#### STATE/FEDERAL OR STATE/FEDERAL/FEE

Revised August, 2021

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#### ONLINE Version

#### **COMMUNITIZATION AGREEMENT**

<b>API Initial</b>	Well:	30-0	_	

THIS AGREEMENT, entered into as of the date shown in Section 10 hereof by and between the parties subscribing, ratifying, or consenting hereto, such parties being hereinafter referred to as "parties hereto," WITNESSETH:

WHEREAS, the Act of February 25, 1920, 41 Stat. 437, as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a federal oil and gas lease, or any portions thereof, with other lands, whether or not owned by the United States, when separate tracts under such federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area, and such communitization or pooling is determined to be in the public interest; and,

WHEREAS, the Commissioner of Public Lands of the State of New Mexico, herein called "the Commissioner", is authorized to consent to and approve agreements pooling state oil and gas leases or any portion thereof, when separate tracts under such state leases cannot be independently developed and operated economically in conformity with well-spacing and gas proration rules and regulations established for the field or area and such pooling is determined to be in the public interest; and,

WHEREAS, the parties hereto own working, royalty, or other leasehold interests, or operating rights under the oil and gas leases and land subject to this agreement, and all such State leases are required to remain in good standing and compliant with State laws, rules & regulations, which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and,

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of the agreement;

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows: Subdivisions Lots 9-16 of Section 2, Lots 9-16 of Section 1 and Lots 11-14 of Section 6

Sect(s) 2, 1 & 6, T 21S , R 28E & 29E, NMPM Eddy County, NM containing 780.84 acres, more or less, and this agreement shall include only the Wolfcamp Formation or pool, underlying said lands and the oil and gas (hereinafter referred to as "communitized substances") producible from such formation.

ONLINE version June 2022

- 2. Attached hereto, and made a part of this agreement for all purposes, is Exhibit "B" designating the operator of the communitized area and showing the acreage, percentage, and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized area.
- 3. All matters of operation shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area and three (3) executed copies of a designation of successor operator shall be filed with the Authorized Officer and three (3) additional executed copies thereof shall be filed with the Commissioner.
- 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, and the Commissioner, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties, and such other reports as are deemed necessary to compute monthly the royalty due the United States and the State of New Mexico, as specified in the applicable oil and gas operating regulations.
- 5. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of leasehold bears to the entire acreage interest committed to this agreement.
- 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any federal lease bearing a sliding-or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any noncommunitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized lease production.
- 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.

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June 2022

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- 8. The commencement, completion, continued operation or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.
- 9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes. This agreement shall be subject to all applicable Federal and State laws or executive orders, rules, and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or is such failure results from, compliance with any such laws, orders, rules or regulations.
- **10.** The date of this agreement is February Month 1 Day, 2023 Year, and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution of the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of Interior, or his/her duly authorized representative, and by the Commissioner or his/her duly authorized representative, and shall remain in force and effect for a period of one (1) year and so long thereafter as communitized substances are produced from the communitized area in paying quantities, and so long as all State leases remain in good standing with all State laws, rules & regulations; provided, that the one-year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period; provided further that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of Interior, or his duly authorized representative, and all requirements of the Commissioner, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within sixty (60) days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted and prosecuted with reasonable diligence. As to lands owned by the State of New Mexico, written notice of intention to commence such operations shall be filed with the Commissioner within thirty (30) days after the cessation of such capability of production, and a report of the status of such operations shall be made by the Operator to the Commissioner every thirty (30) days, and the cessation of such operations for more than twenty (20) consecutive days shall be considered as an abandonment of such operations as to any lease from the State of New Mexico included in this agreement.
- 11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interest until this agreement terminates, and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal lands shall be subject to approval by the

version

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- Secretary of the Interior, and as to State of New Mexico lands shall be subject to approval by the Commissioner.
- 12. It is agreed by the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all operations within the communitized area to the same extent and degree as provided in the oil and gas leases under which the United States of America is lessor, and in the applicable oil and gas operating regulations of the Department of the Interior. It is further agreed between the parties hereto that the Commissioner shall have the right of supervision over all operations to the same extent and degree as provided in the oil and gas leases under which the State of New Mexico is lessor and in the applicable oil and gas statutes and regulations of the State of New Mexico.
- 13. The agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.
- 14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.
- Nondiscrimination: In connection with the performance of work under this agreement, the Operator agrees to comply with all of the provisions of Section 202 (1) to (7) inclusive, of Executive Order 11246 (30 F. R. 12319), as amended which are hereby incorporated by reference in this agreement.

**IN WITNESS WHEREOF**, the parties hereto have executed this agreement as of the day and year first written and have set opposite their respective names the date of execution.

ONLINE version
June 2022

Operator: Matador Production Company
By: Bryan A. Erman - E.V.P. and General Counsel and Head of M&A  Name & Title of Authorized Agent
Signature of Authorized Agent
Acknowledgment in a Representative Capacity
STATE OF TEXAS) §
COUNTY OF DALLAS) §
This instrument was acknowledged before me on, 2023, by Bryan A. Erman, as E.V.P. and General Counsel and Head of M&A for Matador Production Company, on behalf of said corporation.
Signature of Notarial Officer  My commission expires
WORKING INTEREST OWNERS AND/OR LESSEES OF RECORD
MRC Permian Company
By: Bryan A. Erman - E.V.P. and General Counsel and Head of M&A Name & Title of Authorized Agent
Signature of Authorized Agent
Acknowledgment in a Representative Capacity
STATE OF TEXAS) §
COUNTY OF DALLAS) §
This instrument was acknowledged before me on, 2023, by Bryan A. Erman, as E.V.P. and General Counsel and Head of M&A, for MRC Permian Company on behalf of said corporation.
Signature of Notarial Officer My commission expires

State/Fed/Fee 5

ONLINE
version
June 2022
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# **EXHIBIT "A"**

Plat of communitized area covers 780.84 acres in Lots 9-16 of Section 2, Lots 9-16 of Section 1, Township 21 South, Range 28 East, and Lots 11-14 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

#### Simon Camamile 0206 Fed Com #203H & #204H

<u>Tract 1</u> VB-0183-0003	<u>Tract 2</u> NMNM-142221	Tract 3 NMNM-115409	<u>Tract 4</u> NMNM-0029588	
320 Acres	160 Acres	160 Acres	140.84 Acres	
Section 2	Section 1		Sect	ion 6

#### **EXHIBIT "B"**

Attached to and made a part of that certain Communitization Agreement dated February 1, 2023, embracing the following described land in Lots 9-16 of Section 2, Lots 9-16 of Section 1, Township 21 South, Range 28 East, and Lots 11-14 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Operator of Communitized Area: Matador Resources Company

#### **DESCRIPTION OF LEASES COMMITTED**

#### TRACT NO. 1

Lease Serial Number: VB-0183-0003

Lease Date: 2/1/1988

Lease Term: 5 Years

Lessor: State of New Mexico

Royalty Rate: 3/16<sup>th</sup>

Description of Land Committed: Township 21 South, Range 28 East,

Section 2: Lots 9-16

Number of Acres: 320.00

Current Lessee of Record: Judah Oil LLC

Name of Working Interest Owners: Bane Bigbie and wife, Melanie Bigbie

Charmar, LLC

CP Energy Investments III, LLC

Innoventions, Inc Jalapeno Corporation

Chief Capital (O&G) II, LLC

Michael Kyle Leonard, Trustee of the Michael Kyle

Leonard Child's Trust Mitchell Exploration, Inc MRC Permian Company

Shannon C. Leonard, Trustee of the Shannon C. Leonard

Child's Trust

#### TRACT NO. 2

Lease Serial Number: NMNM-142221

Lessor: United States of America

Description of Land Committed: Township 21 South, Range 28 East,

Section 1: Lots 11-14

Number of Acres: 160.00

Current Lessee of Record: MRC Permian Company

Name of Working Interest Owners: MRC Permian Company

#### TRACT NO. 3

Lease Serial Number: NMNM-115409

Lessor: United States of America

Description of Land Committed: Township 21 South, Range 28 East,

Section 1: Lots 9,10, 15 & 16

Number of Acres: 160.00

Current Lessee of Record: COG Operating LLC

Concho Oil & Gas LLC EOG Resources, Inc Oxy Y-1 Company

Name of Working Interest Owners: COG Operating LLC

Concho Oil & Gas LLC EOG Resources, Inc Oxy Y-1 Company

#### TRACT NO. 4

Lease Serial Number: NMNM-0029588

Lessor: United States of America

Description of Land Committed: Township 21 South, Range 29 East,

Section 6: Lots 11-14

Number of Acres: 140.84

Current Lessee of Record: COG Operating LLC

Concho Oil & Gas LLC

Name of Working Interest Owners: COG Operating LLC

EOG Resources, Inc Oxy Y-1 Company Sharbro Energy, LLC Concho Oil & Gas LLC

# **RECAPITULATION**

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
1	320	40.981507%
2	160	20.490754%
3	160	20.490754%
4	140.84	18.036985%
Total	780.84	100.00%

#### NM State Land Office Oil, Gas, & Minerals Division

#### STATE/FEDERAL OR STATE/FEDERAL/FEE

Revised August, 2021

#### ONLINE Version

### COMMUNITIZATION AGREEMENT

<b>API Initial</b>	Well:	30-0	-	

THIS AGREEMENT, entered into as of the date shown in Section 10 hereof by and between the parties subscribing, ratifying, or consenting hereto, such parties being hereinafter referred to as "parties hereto," WITNESSETH:

WHEREAS, the Act of February 25, 1920, 41 Stat. 437, as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a federal oil and gas lease, or any portions thereof, with other lands, whether or not owned by the United States, when separate tracts under such federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area, and such communitization or pooling is determined to be in the public interest; and,

WHEREAS, the Commissioner of Public Lands of the State of New Mexico, herein called "the Commissioner", is authorized to consent to and approve agreements pooling state oil and gas leases or any portion thereof, when separate tracts under such state leases cannot be independently developed and operated economically in conformity with well-spacing and gas proration rules and regulations established for the field or area and such pooling is determined to be in the public interest; and,

WHEREAS, the parties hereto own working, royalty, or other leasehold interests, or operating rights under the oil and gas leases and land subject to this agreement, and all such State leases are required to remain in good standing and compliant with State laws, rules & regulations, which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and,

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of the agreement;

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

Subdivisions N2S2 of Sections 2 & 1, Lot 17 & NE/4SW/4 of Section 6

Sect(s) 2, 1 & 6, T 21S , R 28E &29E, NMPM Eddy County, NM containing 390.36 acres, more or less, and this agreement shall include only the Wolfcamp Formation or pool, underlying said lands and the oil and gas (hereinafter referred to as "communitized substances") producible from such formation.

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- 2. Attached hereto, and made a part of this agreement for all purposes, is Exhibit "B" designating the operator of the communitized area and showing the acreage, percentage, and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized area.
- 3. All matters of operation shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area and three (3) executed copies of a designation of successor operator shall be filed with the Authorized Officer and three (3) additional executed copies thereof shall be filed with the Commissioner.
- 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, and the Commissioner, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties, and such other reports as are deemed necessary to compute monthly the royalty due the United States and the State of New Mexico, as specified in the applicable oil and gas operating regulations.
- 5. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of leasehold bears to the entire acreage interest committed to this agreement.
- 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any federal lease bearing a sliding-or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any noncommunitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized lease production.
- 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.

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- 8. The commencement, completion, continued operation or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.
- 9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes. This agreement shall be subject to all applicable Federal and State laws or executive orders, rules, and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or is such failure results from, compliance with any such laws, orders, rules or regulations.
- **10.** The date of this agreement is February Month 1 Day, 2023 Year, and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution of the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of Interior, or his/her duly authorized representative, and by the Commissioner or his/her duly authorized representative, and shall remain in force and effect for a period of one (1) year and so long thereafter as communitized substances are produced from the communitized area in paying quantities, and so long as all State leases remain in good standing with all State laws, rules & regulations; provided, that the one-year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period; provided further that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of Interior, or his duly authorized representative, and all requirements of the Commissioner, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within sixty (60) days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted and prosecuted with reasonable diligence. As to lands owned by the State of New Mexico, written notice of intention to commence such operations shall be filed with the Commissioner within thirty (30) days after the cessation of such capability of production, and a report of the status of such operations shall be made by the Operator to the Commissioner every thirty (30) days, and the cessation of such operations for more than twenty (20) consecutive days shall be considered as an abandonment of such operations as to any lease from the State of New Mexico included in this agreement.
- 11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interest until this agreement terminates, and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal lands shall be subject to approval by the

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Secretary of the Interior, and as to State of New Mexico lands shall be subject to approval by the Commissioner.

- 12. It is agreed by the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all operations within the communitized area to the same extent and degree as provided in the oil and gas leases under which the United States of America is lessor, and in the applicable oil and gas operating regulations of the Department of the Interior. It is further agreed between the parties hereto that the Commissioner shall have the right of supervision over all operations to the same extent and degree as provided in the oil and gas leases under which the State of New Mexico is lessor and in the applicable oil and gas statutes and regulations of the State of New Mexico.
- 13. The agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.
- 14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.
- Nondiscrimination: In connection with the performance of work under this agreement, the Operator agrees to comply with all of the provisions of Section 202 (1) to (7) inclusive, of Executive Order 11246 (30 F. R. 12319), as amended which are hereby incorporated by reference in this agreement.

**IN WITNESS WHEREOF**, the parties hereto have executed this agreement as of the day and year first written and have set opposite their respective names the date of execution.

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Operator: Matador Production Company
By: Bryan A. Erman - E.V.P. and General Counsel and Head of M&A
Name & Title of Authorized Agent
Signature of Authorized Agent
Acknowledgment in a Representative Capacity
STATE OF TEXAS) §
COUNTY OF DALLAS) §
This instrument was acknowledged before me on, 2023, by Bryan A. Erman, as E.V.P. and General Counsel and Head of M&A, for Matador Production Company, on behalf of said corporation.
Signature of Notarial Officer My commission expires
wiy commission expires
WORKING INTEREST OWNERS
AND/OR LESSEES OF RECORD
MRC Permian Company
By: Bryan A. Erman - E.V.P. and General Counsel and Head of M&A  Name & Title of Authorized Agent
Signature of Authorized Agent
Acknowledgment in a Representative Capacity
STATE OF TEXAS) §
COUNTY OF DALLAS) §
This instrument was acknowledged before me on, 2023, by Bryan A. Erman, as E.V.P. and General Counsel and Head of M&A, for MRC Permian Company on behalf of said corporation.
Signature of Notarial Officer My commission expires
wiy commission expires

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# **EXHIBIT "A"**

Plat of communitized area covers 390.36 acres in N2S2 of Sections 2 & 1, Township 21 South, Range 28 East, Lot 17 & the NE/4SW/4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

#### Simon Camamile 0206 Fed Com #205H

Section 2	Section 1	Section 6
Tract 1 VB-0183-0003 160 Acres	<u>Tract 2</u> NMNM-115407 160 Acres	Tract 3 NMNM-029588 70.36

#### **EXHIBIT "B"**

Attached to and made a part of that certain Communitization Agreement dated February 1, 2023, embracing the following described land in N2S2 of Sections 2 & 1, Township 21 South, Range 28 East, Lot 17 & NE/4SW/4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Operator of Communitized Area: Matador Resources Company

#### **DESCRIPTION OF LEASES COMMITTED**

#### TRACT NO. 1

Lease Serial Number: VB-0183-0003

Lease Date: 2/1/1988

Lease Term: 5 Years

Lessor: State of New Mexico

 $3/16^{th}$ Royalty Rate:

Description of Land Committed: Township 21 South, Range 28 East,

Section 2: N2S2

Number of Acres: 160.00

Current Lessee of Record: Judah Oil LLC

Name of Working Interest Owners: Bane Bigbie and wife, Melanie Bigbie

Charmar, LLC

CP Energy Investments III, LLC

Critterville, LLC

El Capitan Ventures, LLC

Innoventions, Inc Jalapeno Corporation JTD Resources, LLC

LML Working Properties, LLC

Michael Kyle Leonard, Trustee of the Michael Kyle

Leonard Child's Trust Mitchell Exploration, Inc MRC Permian Company Robert K. Leonard

Shannon C. Leonard, Trustee of the Shannon C. Leonard

Child's Trust

Tumbleweed Exploration, LLC

#### TRACT NO. 2

Lease Serial Number: NMNM-115407

United States of America Lessor:

Township 21 South, Range 28 Description of Land Committed:

East Section 1: N2S2

Number of Acres: 160.00

Current Lessee of Record: COG Operating LLC

Concho Oil & Gas LLC EOG Resources, Inc Oxy Y-1 Company

Name of Working Interest Owners: COG Operating LLC

> Concho Oil & Gas LLC EOG Resources, Inc Oxy Y-1 Company

#### TRACT NO. 3

Lease Serial Number: NMNM-029588

Lessor: United States of America

Description of Land Committed: Township 21 South, Range 29 East,

Section 6: Lots 17, NE/4SW/4

Number of Acres: 70.36

Current Lessee of Record: COG Operating LLC

Concho Oil & Gas LLC

Name of Working Interest Owners: COG Operating LLC

Concho Oil & Gas LLC Foran Oil Company Hope Royalties, LLC MRC Permian Company

Oxy Y-1 Company

Performance Oil and Gas Company

Sharbro Energy, LLC Xplor Resources, LLC

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## **RECAPITULATION**

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
1	160.00	40.99%
2	160.00	40.99%
3	70.36	18.02%
Total	390.36	100.00%

## NM State Land Office Oil, Gas, & Minerals Division

## STATE/FEDERAL OR STATE/FEDERAL/FEE

Revised August, 2021

#### ONLINE Version

## **COMMUNITIZATION AGREEMENT**

<b>API Initial</b>	Well:	30-0	_	

THIS AGREEMENT, entered into as of the date shown in Section 10 hereof by and between the parties subscribing, ratifying, or consenting hereto, such parties being hereinafter referred to as "parties hereto," WITNESSETH:

WHEREAS, the Act of February 25, 1920, 41 Stat. 437, as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a federal oil and gas lease, or any portions thereof, with other lands, whether or not owned by the United States, when separate tracts under such federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area, and such communitization or pooling is determined to be in the public interest; and,

WHEREAS, the Commissioner of Public Lands of the State of New Mexico, herein called "the Commissioner", is authorized to consent to and approve agreements pooling state oil and gas leases or any portion thereof, when separate tracts under such state leases cannot be independently developed and operated economically in conformity with well-spacing and gas proration rules and regulations established for the field or area and such pooling is determined to be in the public interest; and,

WHEREAS, the parties hereto own working, royalty, or other leasehold interests, or operating rights under the oil and gas leases and land subject to this agreement, and all such State leases are required to remain in good standing and compliant with State laws, rules & regulations, which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and,

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of the agreement;

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows: Subdivisions S2S2 of Sections 2 & 1, Lot 18 & SE/4SW/4 of Section 6

Sect(s) 2, 1 & 6, T 21S \_\_, R 28E &29E, NMPM Eddy County, NM containing 390.32 acres, more or less, and this agreement shall include only the Wolfcamp Formation or pool, underlying said lands and the oil and gas (hereinafter referred to as "communitized substances") producible from such formation.

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- 2. Attached hereto, and made a part of this agreement for all purposes, is Exhibit "B" designating the operator of the communitized area and showing the acreage, percentage, and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized area.
- 3. All matters of operation shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area and three (3) executed copies of a designation of successor operator shall be filed with the Authorized Officer and three (3) additional executed copies thereof shall be filed with the Commissioner.
- 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, and the Commissioner, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties, and such other reports as are deemed necessary to compute monthly the royalty due the United States and the State of New Mexico, as specified in the applicable oil and gas operating regulations.
- 5. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of leasehold bears to the entire acreage interest committed to this agreement.
- 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any federal lease bearing a sliding-or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any noncommunitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized lease production.
- 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.

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- 8. The commencement, completion, continued operation or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.
- 9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes. This agreement shall be subject to all applicable Federal and State laws or executive orders, rules, and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or is such failure results from, compliance with any such laws, orders, rules or regulations.
- 10. The date of this agreement is February Month 1 Day, 2023 Year, and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution of the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of Interior, or his/her duly authorized representative, and by the Commissioner or his/her duly authorized representative, and shall remain in force and effect for a period of one (1) year and so long thereafter as communitized substances are produced from the communitized area in paying quantities, and so long as all State leases remain in good standing with all State laws, rules & regulations; provided, that the one-year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period; provided further that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of Interior, or his duly authorized representative, and all requirements of the Commissioner, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within sixty (60) days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted and prosecuted with reasonable diligence. As to lands owned by the State of New Mexico, written notice of intention to commence such operations shall be filed with the Commissioner within thirty (30) days after the cessation of such capability of production, and a report of the status of such operations shall be made by the Operator to the Commissioner every thirty (30) days, and the cessation of such operations for more than twenty (20) consecutive days shall be considered as an abandonment of such operations as to any lease from the State of New Mexico included in this agreement.
- 11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interest until this agreement terminates, and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal lands shall be subject to approval by the

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- Secretary of the Interior, and as to State of New Mexico lands shall be subject to approval by the Commissioner.
- 12. It is agreed by the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all operations within the communitized area to the same extent and degree as provided in the oil and gas leases under which the United States of America is lessor, and in the applicable oil and gas operating regulations of the Department of the Interior. It is further agreed between the parties hereto that the Commissioner shall have the right of supervision over all operations to the same extent and degree as provided in the oil and gas leases under which the State of New Mexico is lessor and in the applicable oil and gas statutes and regulations of the State of New Mexico.
- 13. The agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.
- 14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.
- Nondiscrimination: In connection with the performance of work under this agreement, the Operator agrees to comply with all of the provisions of Section 202 (1) to (7) inclusive, of Executive Order 11246 (30 F. R. 12319), as amended which are hereby incorporated by reference in this agreement.

**IN WITNESS WHEREOF**, the parties hereto have executed this agreement as of the day and year first written and have set opposite their respective names the date of execution.

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Operator: Matador Production Company
By: Bryan A. Erman - E.V.P. and General Counsel and Head of M&A
Name & Title of Authorized Agent
Signature of Authorized Agent
Acknowledgment in a Representative Capacity
STATE OF TEXAS) §
COUNTY OF DALLAS) §
This instrument was acknowledged before me on, 2023, by Bryan A. Erman, as E.V.P. and General Counsel and Head of M&A for Matador Production Company, on behalf of said corporation.
Signature of Notarial Officer My commission expires
WORKING INTEREST OWNERS AND/OR LESSEES OF RECORD  MRC Permian Company
By: Bryan A. Erman - E.V.P. and General Counsel and Head of M&A  Name & Title of Authorized Agent
Signature of Authorized Agent
Acknowledgment in a Representative Capacity
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Signature of Notarial Officer My commission expires

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## **EXHIBIT "A"**

Plat of communitized area covers 390.32 acres in S2S2 of Sections 2 & 1, Township 21 South, Range 28 East, Lot 18 & the SE/4SW/4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

## Simon Camamile 0206 Fed Com #206H

Section 2	Section 1	Section 6
<u>Tract 1</u>	<u>Tract 2</u>	Tract 3
VB-0183-0003	NMNM-130856	NMNM-029588
160 Acres	160 Acres	70.32

### **EXHIBIT "B"**

Attached to and made a part of that certain Communitization Agreement dated February 1, 2023, embracing the following described land in S2S2 of Sections 2 & 1, Township 21 South, Range 28 East, Lot 18 & the SE/4SW/4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Operator of Communitized Area: Matador Resources Company

#### **DESCRIPTION OF LEASES COMMITTED**

## TRACT NO. 1

Lease Serial Number: VB-0183-0003

Lease Date: 2/1/1988

Lease Term: 5 Years

Lessor: State of New Mexico

Royalty Rate: 3/16<sup>th</sup>

Description of Land Committed: Township 21 South, Range 28 East,

Section 2: S2S2

Number of Acres: 160.00

Current Lessee of Record: Judah Oil LLC

Name of Working Interest Owners: Bane Bigbie and wife, Melanie Bigbie

Charmar, LLC

CP Energy Investments III, LLC

Critterville, LLC

El Capitan Ventures, LLC

Innoventions, Inc Jalapeno Corporation JTD Resources, LLC

LML Working Properties, LLC

Michael Kyle Leonard, Trustee of the Michael Kyle

Leonard Child's Trust Mitchell Exploration, Inc MRC Permian Company Robert K. Leonard

Shannon C. Leonard, Trustee of the Shannon C. Leonard

Child's Trust

Tumbleweed Exploration, LLC

## TRACT NO. 2

Lease Serial Number: NMNM-130856

United States of America Lessor:

Township 21 South, Range 28 East Section 1: S2S2 Description of Land Committed:

Number of Acres: 160.00

Current Lessee of Record: MRC Permian Company

Name of Working Interest Owners: MRC Permian Company

#### TRACT NO. 3

Lease Serial Number: NMNM-029588

Lessor: United States of America

Description of Land Committed: Township 21 South, Range 29 East,

Section 6: Lots 18, SE/4SW/4

Number of Acres: 70.32

Current Lessee of Record: COG Operating LLC

Concho Oil & Gas LLC

Name of Working Interest Owners: COG Operating LLC

> Concho Oil & Gas LLC Foran Oil Company Hope Royalties, LLC MRC Permian Company Oxy Y-1 Company

Performance Oil and Gas Company

Sharbro Energy, LLC Xplor Resources, LLC

## **RECAPITULATION**

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
1	160.00	40.99%
2	160.00	40.99%
3	70.32	18.02%
Total	390.32	100.00%

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NM State Land Office Oil, Gas, & Minerals Division

## STATE/FEDERAL OR STATE/FEDERAL/FEE

Revised June, 2022

## ONLINE Version

# COMMUNITIZATION AGREEMENT API Initial Well: 30-

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#### WITNESSETH:

WHEREAS, the Act of February 25, 1920, 41 Stat. 437, as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a federal oil and gas lease, or any portions thereof, with other lands, whether or not owned by the United States, when separate tracts under such federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area, and such communitization or pooling is determined to be in the public interest; and,

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WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of the agreement;

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:				
Subdivisions N2S2 of Sections 1 & 2-21S-28E & Lot 17, NE4SW4 of Section 6-21S-	29E			
Sect(s) 1, 2, 6 , T 21S , R 28E & 29E, NMPM Eddy	_County, NM			
containing 390.36 acres, more or less, and this agreement shall include on	ıly the			
Bone Spring	Formation			
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- 3. All matters of operation shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area and three (3) executed copies of a designation of successor operator shall be filed with the Authorized Officer and three (3) additional executed copies thereof shall be filed with the Commissioner.
- 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, and the Commissioner, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties, and such other reports as are deemed necessary to compute monthly the royalty due the United States and the State of New Mexico, as specified in the applicable oil and gas operating regulations.
- 5. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of leasehold bears to the entire acreage interest committed to this agreement.
- 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any federal lease bearing a sliding-or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any noncommunitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized lease production.
- 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.

- 8. The commencement, completion, continued operation or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.
- 9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes. This agreement shall be subject to all applicable Federal and State laws or executive orders, rules, and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or is such failure results from, compliance with any such laws, orders, rules or regulations.
- The date of this agreement is **April** Month **1**st Day, **2024** Year, 10. and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution of the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of Interior, or his/her duly authorized representative, and by the Commissioner or his/her duly authorized representative, and shall remain in force and effect for a period of one (1) year and so long thereafter as communitized substances are produced from the communitized area in paying quantities, and so long as all State leases remain in good standing with all State laws, rules & regulations; provided, that the one-year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period; provided further that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of Interior, or his duly authorized representative, and all requirements of the Commissioner, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within sixty (60) days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted and prosecuted with reasonable diligence. As to lands owned by the State of New Mexico, written notice of intention to commence such operations shall be filed with the Commissioner within thirty (30) days after the cessation of such capability of production, and a report of the status of such operations shall be made by the Operator to the Commissioner every thirty (30) days, and the cessation of such operations for more than twenty (20) consecutive days shall be considered as an abandonment of such operations as to any lease from the State of New Mexico included in this agreement.
- 11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interest until this agreement terminates, and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal lands shall be subject to approval by the

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- Secretary of the Interior, and as to State of New Mexico lands shall be subject to approval by the Commissioner.
- 12. It is agreed by the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all operations within the communitized area to the same extent and degree as provided in the oil and gas leases under which the United States of America is lessor, and in the applicable oil and gas operating regulations of the Department of the Interior. It is further agreed between the parties hereto that the Commissioner shall have the right of supervision over all operations to the same extent and degree as provided in the oil and gas leases under which the State of New Mexico is lessor and in the applicable oil and gas statutes and regulations of the State of New Mexico.
- 13. The agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.
- 14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.
- 15. <u>Nondiscrimination</u>: In connection with the performance of work under this agreement, the Operator agrees to comply with all of the provisions of Section 202 (1) to (7) inclusive, of Executive Order 11246 (30 F. R. 12319), as amended which are hereby incorporated by reference in this agreement.

**IN WITNESS WHEREOF**, the parties hereto have executed this agreement as of the day and year first written and have set opposite their respective names the date of execution.

Operator: Matador Production Company
By:Bryan A. Erman - E.V.P. and General Counsel and Head of M&A
Name & Title of Authorized Agent
Signature of Authorized Agent
Acknowledgment in a Representative Capacity
STATE OF TEXAS) §
COUNTY OF DALLAS) §
This instrument was acknowledged before me on
Signature of Notarial Officer
My commission expires
WORKING INTEREST OWNERS AND/OR LESSEES OF RECORD
MRC Permian Company
By: Bryan A. Erman - E.V.P. and General Counsel and Head of M&A
Name & Title of Authorized Agent
Signature of Authorized Agent
Acknowledgment in a Representative Capacity
STATE OF TEXAS) §
COUNTY OF DALLAS) §
This instrument was acknowledged before me on
Signature of Notarial Officer  My comprise and the second of the second
My commission expires

## **EXHIBIT "A"**

Plat of communitized area covering 390.36 acres in the N2S2 of Sections 1 & 2, Township 21 South, Range 28 East, & Lot 17, NE4SW4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

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Section 2-21S-28E	Section 1-21S-28E	Section 6-21S-29E			
Tract 1 VB-0183-0003 160.00 acres	Tract 2 NMNM-115407 160.00 acres	Tract 3 NMNM-029588 70.36 acres			

#### **EXHIBIT "B"**

Attached to and made a part of that certain Communitization Agreement dated April 1, 2024, embracing the following described land in the N2S2 of Sections 1 & 2, Township 21 South, Range 28 East, & Lot 17, NE4SW4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Operator of Communitized Area: Matador Production Company

## **DESCRIPTION OF LEASES COMMITTED**

#### Tract No. 1

Lease Serial Number: VB-0183-0003

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 2: N2S2

**Number of Acres:** 160.00 acres

Current Lessee of Record: Judah Oil, LLC

Name and Percent of Working Interest Owners: MRC Permian Company

CEP SPV I, LLC Innoventions, Inc. COG Operating, LLC

### Tract No. 2

Lease Serial Number: NMNM-115407

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 1: N2S2

Number of Acres: 160.00 acres

Current Lessee of Record: COG Operating, LLC

Concho Oil and Gas, LLC EOG Resources, Inc. Oxy Y-1 Company

Name and Percent of Working Interest Owners: COG Operating, LLC

Concho Oil and Gas, LLC EOG Resources, Inc. Oxy Y-1 Company

## Tract No. 3

Lease Serial Number: NMNM-0029588

**Description of Land Committed:** Township 21 South, Range 29 East,

Section 6: Lot 17, NE4SW4

Number of Acres: 70.36

Current Lessee of Record: COG Operating, LLC

Concho Oil and Gas, LLC

Name and Percent of Working Interest Owners: COG Operating, LLC

Concho Oil and Gas, LLC

Oxy Y-1 Company

Fortess Energy Delaware, LLC

Foran Oil Company

Performance Oil and Gas Company

MRC Permian Company

## **RECAPITULATION**

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
1	160.00	40.99
2	160.00	40.99
3	70.36	18.02
Total	390.36	100.00%

## Federal Communitization Agreement

Contract No.					

THIS AGREEMENT entered into as of the 1<sup>st</sup> day of April, 2024, by and between the parties subscribing, ratifying, or consenting hereto, such parties being hereinafter referred to as "parties hereto."

#### WITNESSETH:

WHEREAS, the Act of February 25, 1920 (41 Stat. 437), as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a Federal oil and gas lease, or any portion thereof, with other lands, whether or not owned by the United States, when separate tracts under such Federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area and such communitization or pooling is determined to be in the public interest; and

WHEREAS, the parties hereto own working, royalty or other leasehold interests, or operating rights under the oil and gas leases and lands subject to this agreement which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of this agreement:

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

N2S2 of Sections 1 & 2, Township 21 South, Range 28 East, & Lot 17, NE4SW4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Containing **390.36** acres, and this agreement shall include only the Bone Spring Formation underlying said lands and the oil and gas hereafter referred to as "communitized substances," producible from such formation.

2. Attached hereto, and made a part of this agreement for all purposes is Exhibit "A", a plat designating the communitized area and, Exhibit "B", designating the

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operator of the communitized area and showing the acreage, percentage and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized area.

- 3. The Operator of the communitized area shall be **Matador Production Company 5400 Lyndon B Johnson Fwy, Suite 1500, Dallas, Texas, 75240**. All matters of operations shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area and four (4) executed copies of a designation of successor operator shall be filed with the Authorized Officer.
- 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties and such other reports as are deemed necessary to compute monthly the royalty due the United States, as specified in the applicable oil and gas operating regulations.
- 5. The communitized area shall be developed and operated as an entirety, with the understanding and agreement between the parties hereto that all communitized substances produced there from shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed to this agreement.

If the communitized area approved in this Agreement contains unleased Federal lands, the value of 1/8<sup>th</sup> or 12 ½ percent for the Federal lands, of the production that would be allocated to such Federal lands, described above, if such lands were leased, committed and entitled to participation, shall be payable as compensatory royalties to the Federal government. The remaining 7/8<sup>th</sup> should be placed into an escrow account set up by the operator. Parties to the Agreement holding working interest in committed leases within the applicable communitized area are responsible for such royalty payments on the volume of the production reallocated from the unleased Federal lands to their communitized tracts as set forth in Exhibit "B" attached hereto. The value of such production subject to the payment of said royalties shall be determined pursuant to the method set forth in 30 CFR Part 1206 for the unleased Federal lands. Payment of compensatory royalties on the production reallocated from the unleased Federal lands to the committed tracts within the communitized area shall fulfill the Federal royalty obligation for such production. Payment of compensatory royalties, as provided herein, shall accrue from the date the committed tracts in the communitized area that includes unleased Federal land receive a production allocation, and shall be due and payable by the last day of the calendar month next following the calendar month of actual production. Payment due under this provision shall end when the Federal tract is leased or when production of communitized substances ceases within the

communitized area and the Communitization Agreement is terminated, whichever occurs first.

Any party acquiring a Federal lease of the unleased Federal lands included in the communitized area established hereunder, will be subject to this Agreement as of the effective date of the Federal leases to said party (ies). Upon issuance of the Federal lease and payment of its proportionate cost of the well, including drilling, completing and equipping the well, the acquiring party (ies) shall own the working interest described in the Tract, as described on Exhibit "B", and shall have the rights and obligations of said working interest as to the effective date of the Federal Lease.

- 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any Federal lease bearing a sliding- or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any noncommunitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day, such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized lease production.
- 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.
- 8. The commencement, completion, continued operation, or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation, or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.
- 9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes.

This agreement shall be subject to all applicable Federal and State laws or executive orders, rules and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or if such failure results from, compliance with any such laws, orders, rules or regulations.

- 10. The date of this agreement is **April 1, 2024**, and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of the Interior or by his duly authorized representative, and shall remain in force and effect for a period of 2 years and for as long as communitized substances are, or can be, produced from the communitized area in paying quantities: Provided, that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of the Interior, or his duly authorized representative, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within 60 days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence during the period of nonproduction. The 2year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period.
- 11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interests until this agreement terminates and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal land shall be subject to approval by the Secretary of the Interior, or his duly authorized representative.
- 12. It is agreed between the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all Fee and State mineral operations within the communitized area to the extent necessary to monitor production and measurement, and assure that no avoidable loss of hydrocarbons occur in which the United States has an interest pursuant to applicable oil and gas regulations of the Department of the Interior relating to such production and measurement.
- 13. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors, and assigns.
- 14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto, and shall be binding upon all

parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.

15. <u>Nondiscrimination.</u> In connection with the performance of work under this agreement, the operator agrees to comply with all the provisions of Section 202(1) to (7) inclusive, of Executive Order 11246 (30F.R. 12319), as amended, which are hereby incorporated by reference in this agreement.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written and have set opposite their respective names the date of execution.

Head of M&A
EDGEMENT
fore me, a Notary Public for the State of known to me to be the E.V.P. and General action Company, the corporation that wledged to me such corporation executed
Notary Public

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## WORKING INTEREST OWNERS AND/OR LESSEES OF RECORD

MRC 1	Permian Company	
By:		
	Bryan A. Erman E.V.P. and Gene Print Name	eral Counsel and Head of M&A
Date:		
	ACKN	OWLEDGEMENT
STATI	E OF <b>TEXAS</b> )	
	TY OF <b>DALLAS</b> )	
Texas, Counse	personally appeared Bryan A. el and Head of M&A of MRC	2024, before me, a Notary Public for the State of Erman, known to me to be the E.V.P. and General Permian Company, the corporation that executed ledged to me such corporation executed the same.
(SEAL	)	
My Co	mmission Expires	Notary Public

## SELF CERTIFICATION STATEMENT FOR COMMUNITIZATION AGREEMENT WORKING INTEREST

COMMUNITIZATION	AGREEMENT:	

I, the undersigned, hereby certify, on behalf of **Matador Production Company**, the Operator under the captioned Communitization Agreement, that all working interest owners shown on Exhibit "B" attached to the Communitization Agreement are, to the best of my knowledge, the true and correct owners of the leases committed to the Communitization Agreement, and the consents of the requisite working interest owners have been obtained.

I, further certify that the Communitization Agreement follows the standard form except for Sections 1 and 10.

NAME:

Signature of office

Printed: Bryan A. Erman

TITLE: E.V.P. and General Counsel and Head of M&A

Phone number : (972) -371-5469

## **EXHIBIT "A"**

Plat of communitized area covering 390.36 acres in the N2S2 of Sections 1 & 2, Township 21 South, Range 28 East, & Lot 17, NE4SW4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

## Simon Camamile 0206 Fed Com #125H

Section 2-21S-28E	Section 1-21S-28E	Section 6-21S-29E					
Tract 1 VB-0183-0003 160.00 acres	Tract 2 NMNM-115407 160.00 acres	Tract 3 NMNM- 029588 70.36 acres					

### **EXHIBIT "B"**

Attached to and made a part of that certain Communitization Agreement dated April 1, 2024, embracing the following described land in the N2S2 of Sections 1 & 2, Township 21 South, Range 28 East, & Lot 17, NE4SW4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Operator of Communitized Area: Matador Production Company

### **DESCRIPTION OF LEASES COMMITTED**

#### Tract No. 1

Lease Serial Number: VB-0183-0003

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 2: N2S2

Number of Acres: 160.00 acres

Current Lessee of Record: Judah Oil, LLC

Name and Percent of Working Interest Owners: MRC Permian Company

CEP SPV I, LLC Innoventions, Inc. COG Operating, LLC

## Tract No. 2

Lease Serial Number: NMNM-115407

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 1: N2S2

**Number of Acres:** 160.00 acres

Current Lessee of Record: COG Operating, LLC

Concho Oil and Gas, LLC EOG Resources, Inc. Oxy Y-1 Company

Name and Percent of Working Interest Owners: COG Operating, LLC

Concho Oil and Gas, LLC EOG Resources, Inc. Oxy Y-1 Company

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## Tract No. 3

Lease Serial Number: NMNM-0029588

**Description of Land Committed:** Township 21 South, Range 29 East,

Section 6: Lot 17, NE4SW4

Number of Acres: 70.36

Current Lessee of Record: COG Operating, LLC

Concho Oil and Gas, LLC

Name and Percent of Working Interest Owners: COG Operating, LLC

Concho Oil and Gas, LLC

Oxy Y-1 Company

Fortess Energy Delaware, LLC

Foran Oil Company

Performance Oil and Gas Company

MRC Permian Company

## **RECAPITULATION**

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
1	160.00	40.99
2	160.00	40.99
3	70.36	18.02
Total	390.36	100.00%

NM State Land Office Oil, Gas, & Minerals Division

## STATE/FEDERAL OR STATE/FEDERAL/FEE

Revised June, 2022

## ONLINE Version

# COMMUNITIZATION AGREEMENT API Initial Well: 30- -

THIS AGREEMENT, entered into as of the date shown in Section 10 hereof by and between the parties subscribing, ratifying, or consenting hereto, such parties being hereinafter referred to as "parties hereto,"

#### WITNESSETH:

WHEREAS, the Act of February 25, 1920, 41 Stat. 437, as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a federal oil and gas lease, or any portions thereof, with other lands, whether or not owned by the United States, when separate tracts under such federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area, and such communitization or pooling is determined to be in the public interest; and,

WHEREAS, the Commissioner of Public Lands of the State of New Mexico, herein called "the Commissioner", is authorized to consent to and approve agreements pooling state oil and gas leases or any portion thereof, when separate tracts under such state leases cannot be independently developed and operated economically in conformity with well-spacing and gas proration rules and regulations established for the field or area and such pooling is determined to be in the public interest; and,

WHEREAS, the parties hereto own working, royalty, or other leasehold interests, or operating rights under the oil and gas leases and land subject to this agreement, and all such State leases are required to remain in good standing and compliant with State laws, rules & regulations, which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and,

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of the agreement;

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are des	cribed as follows:
Subdivisions S2S2 of Sections 1 & 2-21S-28E & Lot 18, SE4SW4 of Section 6-21	1S-29E ,
Sect(s) 1, 2, 6 , T 21S , R 28E & 29E, NMPM Eddy	County, NM
containing 390.32 acres, more or less, and this agreement shall include	e only the
Bone Spring	Formation
or pool, underlying said lands and the oil and gas	
(hereinafter referred to as "communitized substances") producible from such form	ation.

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- 2. Attached hereto, and made a part of this agreement for all purposes, is Exhibit "B" designating the operator of the communitized area and showing the acreage, percentage, and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized area.
- 3. All matters of operation shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area and three (3) executed copies of a designation of successor operator shall be filed with the Authorized Officer and three (3) additional executed copies thereof shall be filed with the Commissioner.
- 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, and the Commissioner, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties, and such other reports as are deemed necessary to compute monthly the royalty due the United States and the State of New Mexico, as specified in the applicable oil and gas operating regulations.
- 5. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of leasehold bears to the entire acreage interest committed to this agreement.
- 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any federal lease bearing a sliding-or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any noncommunitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized lease production.
- 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.

- 8. The commencement, completion, continued operation or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.
- 9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes. This agreement shall be subject to all applicable Federal and State laws or executive orders, rules, and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or is such failure results from, compliance with any such laws, orders, rules or regulations.
- The date of this agreement is **April** Month **1**st Day, **2024** Year, 10. and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution of the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of Interior, or his/her duly authorized representative, and by the Commissioner or his/her duly authorized representative, and shall remain in force and effect for a period of one (1) year and so long thereafter as communitized substances are produced from the communitized area in paying quantities, and so long as all State leases remain in good standing with all State laws, rules & regulations; provided, that the one-year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period; provided further that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of Interior, or his duly authorized representative, and all requirements of the Commissioner, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within sixty (60) days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted and prosecuted with reasonable diligence. As to lands owned by the State of New Mexico, written notice of intention to commence such operations shall be filed with the Commissioner within thirty (30) days after the cessation of such capability of production, and a report of the status of such operations shall be made by the Operator to the Commissioner every thirty (30) days, and the cessation of such operations for more than twenty (20) consecutive days shall be considered as an abandonment of such operations as to any lease from the State of New Mexico included in this agreement.
- 11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interest until this agreement terminates, and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal lands shall be subject to approval by the

- Secretary of the Interior, and as to State of New Mexico lands shall be subject to approval by the Commissioner.
- 12. It is agreed by the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all operations within the communitized area to the same extent and degree as provided in the oil and gas leases under which the United States of America is lessor, and in the applicable oil and gas operating regulations of the Department of the Interior. It is further agreed between the parties hereto that the Commissioner shall have the right of supervision over all operations to the same extent and degree as provided in the oil and gas leases under which the State of New Mexico is lessor and in the applicable oil and gas statutes and regulations of the State of New Mexico.
- 13. The agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.
- 14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.
- 15. <u>Nondiscrimination</u>: In connection with the performance of work under this agreement, the Operator agrees to comply with all of the provisions of Section 202 (1) to (7) inclusive, of Executive Order 11246 (30 F. R. 12319), as amended which are hereby incorporated by reference in this agreement.

**IN WITNESS WHEREOF**, the parties hereto have executed this agreement as of the day and year first written and have set opposite their respective names the date of execution.

Operator: Matador Production Company
By:Bryan A. Erman - E.V.P. and General Counsel and Head of M&A
Name & Title of Authorized Agent
Signature of Authorized Agent
Acknowledgment in a Representative Capacity
STATE OF TEXAS) §
COUNTY OF DALLAS) §
This instrument was acknowledged before me on, 2024, by Bryan A. Erman, as E.V.P. and General Counsel and Head of M&A for Matador Production Company, on behalf of said corporation.
Signature of Notarial Officer
My commission expires
WORKING INTEREST OWNERS AND/OR LESSEES OF RECORD
MRC Permian Company
By: Bryan A. Erman - E.V.P. and General Counsel and Head of M&A
Name & Title of Authorized Agent
Signature of Authorized Agent
Acknowledgment in a Representative Capacity
Acknowledgment in a Representative Capacity
STATE OF TEXAS) §
COUNTY OF DALLAS) §
This instrument was acknowledged before me on
Signature of Notarial Officer My commission expires
wiy commission capites

## **EXHIBIT "A"**

Plat of communitized area covering 390.32 acres in the S2S2 of Sections 1 & 2, Township 21 South, Range 28 East, & Lot 18, SE4SW4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

## Simon Camamile 0206 Fed Com #126H

Section 2-21S-28E	Section 1-21S-28E	Section 6-21S-29E
Tract 1	Tract 2	Tract 3
VB-0183-0003	NMNM-130856	NMNM-029588
160.00 acres	160.00 acres	70.32 acres

### **EXHIBIT "B"**

Attached to and made a part of that certain Communitization Agreement dated April 1, 2024, embracing the following described land in the S2S2 of Sections 1 & 2, Township 21 South, Range 28 East, & Lot 18, SE4SW4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Operator of Communitized Area: Matador Production Company

### **DESCRIPTION OF LEASES COMMITTED**

#### Tract No. 1

Lease Serial Number: VB-0183-0003

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 2: S2S2

**Number of Acres:** 160.00 acres

Current Lessee of Record: Judah Oil, LLC

Name and Percent of Working Interest Owners: MRC Permian Company

CEP SPV I, LLC Innoventions, Inc. COG Operating, LLC

### Tract No. 2

Lease Serial Number: NMNM-130856

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 1: S2S2

Number of Acres: 160.00 acres

Current Lessee of Record: MRC Permian Company

Name and Percent of Working Interest Owners: MRC Permian Company

## Tract No. 3

Lease Serial Number: NMNM-0029588

**Description of Land Committed:** Township 21 South, Range 29 East,

Section 6: Lot 18, SE4SW4

Number of Acres: 70.32

Current Lessee of Record: COG Operating, LLC

Concho Oil and Gas, LLC

Name and Percent of Working Interest Owners: COG Operating, LLC

Concho Oil and Gas, LLC

Oxy Y-1 Company

Fortress Energy Delaware, LLC

Foran Oil Company

Performance Oil and Gas Company

MRC Permian Company

## **RECAPITULATION**

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
1	160.00	40.99
2	160.00	40.99
3	70.32	18.02
Total	390.32	100.00%

## Federal Communitization Agreement

Contract No.					

THIS AGREEMENT entered into as of the 1<sup>st</sup> day of April, 2024, by and between the parties subscribing, ratifying, or consenting hereto, such parties being hereinafter referred to as "parties hereto."

#### WITNESSETH:

WHEREAS, the Act of February 25, 1920 (41 Stat. 437), as amended and supplemented, authorizes communitization or drilling agreements communitizing or pooling a Federal oil and gas lease, or any portion thereof, with other lands, whether or not owned by the United States, when separate tracts under such Federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area and such communitization or pooling is determined to be in the public interest; and

WHEREAS, the parties hereto own working, royalty or other leasehold interests, or operating rights under the oil and gas leases and lands subject to this agreement which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing communitized substances in accordance with the terms and conditions of this agreement:

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

S2S2 of Sections 1 & 2, Township 21 South, Range 28 East, & Lot 18, SE4SW4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Containing **390.32** acres, and this agreement shall include only the Bone Spring Formation underlying said lands and the oil and gas hereafter referred to as "communitized substances," producible from such formation.

2. Attached hereto, and made a part of this agreement for all purposes is Exhibit "A", a plat designating the communitized area and, Exhibit "B", designating the

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operator of the communitized area and showing the acreage, percentage and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized area.

- 3. The Operator of the communitized area shall be **Matador Production Company 5400 Lyndon B Johnson Fwy, Suite 1500, Dallas, Texas, 75240**. All matters of operations shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area and four (4) executed copies of a designation of successor operator shall be filed with the Authorized Officer.
- 4. Operator shall furnish the Secretary of the Interior, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of oil and gas sales and royalties and such other reports as are deemed necessary to compute monthly the royalty due the United States, as specified in the applicable oil and gas operating regulations.
- 5. The communitized area shall be developed and operated as an entirety, with the understanding and agreement between the parties hereto that all communitized substances produced there from shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed to this agreement.

If the communitized area approved in this Agreement contains unleased Federal lands, the value of 1/8<sup>th</sup> or 12 ½ percent for the Federal lands, of the production that would be allocated to such Federal lands, described above, if such lands were leased, committed and entitled to participation, shall be payable as compensatory royalties to the Federal government. The remaining 7/8<sup>th</sup> should be placed into an escrow account set up by the operator. Parties to the Agreement holding working interest in committed leases within the applicable communitized area are responsible for such royalty payments on the volume of the production reallocated from the unleased Federal lands to their communitized tracts as set forth in Exhibit "B" attached hereto. The value of such production subject to the payment of said royalties shall be determined pursuant to the method set forth in 30 CFR Part 1206 for the unleased Federal lands. Payment of compensatory royalties on the production reallocated from the unleased Federal lands to the committed tracts within the communitized area shall fulfill the Federal royalty obligation for such production. Payment of compensatory royalties, as provided herein, shall accrue from the date the committed tracts in the communitized area that includes unleased Federal land receive a production allocation, and shall be due and payable by the last day of the calendar month next following the calendar month of actual production. Payment due under this provision shall end when the Federal tract is leased or when production of communitized substances ceases within the

communitized area and the Communitization Agreement is terminated, whichever occurs first.

Any party acquiring a Federal lease of the unleased Federal lands included in the communitized area established hereunder, will be subject to this Agreement as of the effective date of the Federal leases to said party (ies). Upon issuance of the Federal lease and payment of its proportionate cost of the well, including drilling, completing and equipping the well, the acquiring party (ies) shall own the working interest described in the Tract, as described on Exhibit "B", and shall have the rights and obligations of said working interest as to the effective date of the Federal Lease.

- 6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payments of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued. It is agreed that for any Federal lease bearing a sliding- or step-scale rate of royalty, such rate shall be determined separately as to production from each communitization agreement to which such lease may be committed, and separately as to any noncommunitized lease production, provided, however, as to leases where the rate of royalty for gas is based on total lease production per day, such rate shall be determined by the sum of all communitized production allocated to such a lease plus any noncommunitized lease production.
- 7. There shall be no obligation on the lessees to offset any well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.
- 8. The commencement, completion, continued operation, or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation, or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.
- 9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments, and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes.

This agreement shall be subject to all applicable Federal and State laws or executive orders, rules and regulations, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or if such failure results from, compliance with any such laws, orders, rules or regulations.

- 10. The date of this agreement is **April 1, 2024**, and it shall become effective as of this date or from the onset of production of communitized substances, whichever is earlier upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of the Interior or by his duly authorized representative, and shall remain in force and effect for a period of 2 years and for as long as communitized substances are, or can be, produced from the communitized area in paying quantities: Provided, that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of the Interior, or his duly authorized representative, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production if, within 60 days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence during the period of nonproduction. The 2year term of this agreement will not in itself serve to extend the term of any Federal lease which would otherwise expire during said period.
- 11. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interests until this agreement terminates and any grant, transfer, or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee, or other successor in interest, and as to Federal land shall be subject to approval by the Secretary of the Interior, or his duly authorized representative.
- 12. It is agreed between the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all Fee and State mineral operations within the communitized area to the extent necessary to monitor production and measurement, and assure that no avoidable loss of hydrocarbons occur in which the United States has an interest pursuant to applicable oil and gas regulations of the Department of the Interior relating to such production and measurement.
- 13. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors, and assigns.
- 14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto, and shall be binding upon all

parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.

15. <u>Nondiscrimination.</u> In connection with the performance of work under this agreement, the operator agrees to comply with all the provisions of Section 202(1) to (7) inclusive, of Executive Order 11246 (30F.R. 12319), as amended, which are hereby incorporated by reference in this agreement.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written and have set opposite their respective names the date of execution.

<b>Operator:</b> <u>Matador Production Company</u>	
Signature of Authorized Agent	
By: Bryan A. Erman E.V.P. and General Counsel Name & Title of Authorized Agent	and Head of M&A
Date:	
ACKNOW	LEDGEMENT
STATE OF <b>TEXAS</b> )	
COUNTY OF <b>DALLAS</b> )	
Texas, personally appeared Bryan A. Erma Counsel and Head of M&A of Matador Pr	before me, a Notary Public for the State of an, known to me to be the E.V.P. and General oduction Company, the corporation that knowledged to me such corporation executed
(SEAL)	
My Commission Expires	Notary Public

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# WORKING INTEREST OWNERS AND/OR LESSEES OF RECORD

MRC.	<u>Permian Company</u>	
By:		
Date:	Bryan A. Erman E.V.P. and General Counse Print Name	sel and Head of M&A
	ACKNOWLE	EDGEMENT
STAT	E OF <b>TEXAS</b> )	
COUN	VTY OF <b>DALLAS</b> )	
Texas,	personally appeared Bryan A. Erman, el and Head of M&A of MRC Permiar	fore me, a Notary Public for the State of known to me to be the E.V.P. and General a Company, the corporation that executed o me such corporation executed the same.
(SEAL	۵)	
My Co	ommission Expires	Notary Public

# SELF CERTIFICATION STATEMENT FOR COMMUNITIZATION AGREEMENT WORKING INTEREST

COMMUNITIZATION	AGREEMENT:	

I, the undersigned, hereby certify, on behalf of **Matador Production Company**, the Operator under the captioned Communitization Agreement, that all working interest owners shown on Exhibit "B" attached to the Communitization Agreement are, to the best of my knowledge, the true and correct owners of the leases committed to the Communitization Agreement, and the consents of the requisite working interest owners have been obtained.

I, further certify that the Communitization Agreement follows the standard form except for Sections 1 and 10.

NAME:

Signature of office

Printed: Bryan A. Erman

TITLE: E.V.P. and General Counsel and Head of M&A

Phone number: (972)-371-5469

# **EXHIBIT "A"**

Plat of communitized area covering 390.32 acres in the S2S2 of Sections 1 & 2, Township 21 South, Range 28 East, & Lot 18, SE4SW4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

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Section 2-21S-28E	Section 1-21S-28E	Section 6-21S-29E
Tract 1	Tract 2	Tract 3
VB-0183-0003	NMNM-130856	NMNM-029588
160.00 acres	160.00 acres	70.32 acres

### **EXHIBIT "B"**

Attached to and made a part of that certain Communitization Agreement dated April 1, 2024, embracing the following described land in the S2S2 of Sections 1 & 2, Township 21 South, Range 28 East, & Lot 18, SE4SW4 of Section 6, Township 21 South, Range 29 East, Eddy County, New Mexico.

Operator of Communitized Area: Matador Production Company

### DESCRIPTION OF LEASES COMMITTED

### Tract No. 1

Lease Serial Number: VB-0183-0003

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 2: S2S2

**Number of Acres:** 160.00 acres

Current Lessee of Record: Judah Oil, LLC

Name and Percent of Working Interest Owners: MRC Permian Company

CEP SPV I, LLC Innoventions, Inc. COG Operating, LLC

### Tract No. 2

Lease Serial Number: NMNM-130856

**Description of Land Committed:** Township 21 South, Range 28 East,

Section 1: S2S2

**Number of Acres:** 160.00 acres

Current Lessee of Record: MRC Permian Company

Name and Percent of Working Interest Owners: MRC Permian Company

### Tract No. 3

Lease Serial Number: NMNM-0029588

**Description of Land Committed:** Township 21 South, Range 29 East,

Section 6: Lot 18, SE4SW4

Number of Acres: 70.32

Current Lessee of Record: COG Operating, LLC

Concho Oil and Gas, LLC

Name and Percent of Working Interest Owners: COG Operating, LLC

Concho Oil and Gas, LLC

Oxy Y-1 Company

Fortress Energy Delaware, LLC

Foran Oil Company

Performance Oil and Gas Company

MRC Permian Company

# **RECAPITULATION**

Tract No.	No. of Acres Committed	Percentage of Interest in Communitized Area
1	160.00	40.99
2	160.00	40.99
3	70.32	18.02
Total	390.32	100.00%

Regeneration Energy Corp.	P.O. Box 210	Artesia	NM	88211-0840
The Allar Company	P.O. Box 1567	Graham	TX	76450
Premier Oil & Gas, Inc.	P.O. Box 837205	Richardson	TX	75083
Dastarac Inc.	2308 Sierra Vista Rd.	Artesia	NM	88211
Raye Miller and wife, Mary Miller	2308 Sierra Vista Rd.	Artesia	NM	88211
Joel Miller and wife, Robin Miller	P.O. Box 357	Artesia	NM	88211
William Miller	2306 Sierra Vista Rd.	Artesia	NM	88211
Innoventions, Inc.	P.O. Box 40	Cedar Crest	NM	87008
Cibola Land Corporation	1429 Central Ave. SW, STE 3	Albuquerque	NM	87104
Kenneth Barbe, Jr.	121 W. Third St.	Roswell	NM	88201
Stephen T. Mitchell	P.O. Box 2415	Midland	TX	79702
Don Grady	P.O. Box 30801	Albuquerque	NM	87190
Duane Brown	706 Apache Dr.	Yuma	CO	80759
Bruce J. Pierce, Trustee of the Pierce Irrevocable	e Trust			
No. 2	6201 Uptown Blvd., NE, Ste. 201	Albuquerque	NM	87110
Southwest Petroleum Land Services, LLC	1901 West 4th Street	Roswell	NM	88201
Permian Basin Investment Corporation	500 N. Kentucky	Roswell	NM	88201
Ronadero Company, Inc.	P.O. Box 746	Big Horn	WY	82833
Natalie V. Hanagan	1922 18th Ave. West	Williston	ND	58801
Hutchings Oil Company	P.O. Box 1216	Albuquerque	NM	87103
George L. Scott, III	P.O. Box 40	Cedar Crest	NM	87008
Dan O'Neill and wife, Deborah O'Neill	P.O. Box 4831	Midland	TX	79704
Sealy H. Cavin, Jr.	400 First Plaza, Ste 610	Albuquerque	NM	87102
Leonard Legacy Royalty, LLC	P.O. Box 3422	Midland	TX	79702
LML Properties, LLC	P.O. Box 3194	Boulder	CO	80307
Jack's Peak, LLC	P.O. Box 294928	Kerrville	TX	78029
Schutz Abstract Company	P.O. Box 973	Santa Fe	NM	87504
James B. O'Neill, II, Trustee of the James A. O'Ne	eill			
Revocable Trust	P.O. Box 942	Fort Collins	CO	80522
Hammersmith Realty, Inc.	45 Beaverbrook Crescent	St. Albert, Alberta	Canada	T8N 3Y1
Charmar, LLC	4815 Vista Del Oso Ct., NE	Albuquerque	NM	87109
Bane Bigbie and wife, Melanie Bigbie	P.O. Box 998	Ardmore	OK	73402
Mitchell Exploration, Inc.	6212 Homestead Blvd.	Midland	TX	79707
MCM Royalties, LLC	P.O. Box 1540	Midland	TX	79702

Kevin K. Leonard, Trustee of the				
Kevin K. Leonard Child's Trust	P.O. Box 50688	Midland	TX	79710
Molly M. Azopardi, Trustee of the				
Molly M. Azopardi Child's Trust	P.O. Box 620	Wimberly	TX	78676
Shannon C. Leonard, Trustee of the				
Shannon C. Leonard Child's Trust	1018 Sunset Canyon N.	<b>Dripping Springs</b>	TX	78620
Michael Kyle Leonard, Trustee of the				
Michael Kyle Leonard Child's Trust	P.O. Box 2625	Eagle Pass	TX	78853
Patrick Leonard, Trustee of the				
Patrick Leonard Child's Trust	P.O. Box 700633	San Antonio	TX	78270
S. E. S. Investments, Ltd.	P.O. Box 10886	Midland	TX	79702
First Southern Funding, LLC	P.O. Box 328	Stanford	KY	40484
Voyage Energy, LP	P.O. Box 11232	Midland	TX	79702
Red River Holdings, LLC	P.O. Box 10886	Midland	TX	79702
TMT Energy Resources, Inc.	5600 N. May Ave., Ste. 320	Oklahoma City	OK	73112
EM1 Energy, LLC	5600 N. May Ave., Ste. 320	Oklahoma City	OK	73112
Samuel George Jones	P.O. Box 10253	Midland	TX	79702
Mongoose Minerals LLC	600 W. Illinois Ave.	Midland	TX	79705
EOG Resources, Inc.	1111 Bagby, Sky Lobby 2	Houston	TX	77002
Nestegg Energy Corporation	2308 Sierra Vista Rd.	Artesia	NM	88210
New Mexico Oil Corporation	P.O. Box 1714	Roswell	NM	88202
Robert Kelly Leonard	P.O. Box 294928	Kerrville	TX	78029
JTD Resources, LLC	P.O. Box 3422	Midland	TX	79702
Regen Royalty Corp.	P.O. Box 210	Artesia	NM	88211
Allar Development, LLC	P.O. Box 1567	Graham	TX	76450
New Mexico Oil Corporation	P.O. Box 1714	Roswell	NM	88202
Jalapeno Corporation	P.O. Box 1608	Albuquerque	NM	87103
Elk Range Royalties, LP	2110 Farrington Street	Dallas	TX	75207
Rockwell Energy Resources, LLC	P.O. Box 54584	Oklahoma City	OK	73154
Mewbourne Oil Company	P.O. Box 7698	Tyler	TX	75711
Mewbourne Development Corporation	P.O. Box 7698	Tyler	TX	75711
CWM 2000-B, Ltd.	P.O. Box 7698	Tyler	TX	75711
3MG Corporation	P.O. Box 7698	Tyler	TX	75711
Curtis W. Mewbourne, Trustee	P.O. Box 7698	Tyler	TX	75711
Lazy J Bar Cane, LLC	P.O. Box 3660	Roswell	NM	88202

Nixon Energy, LLC	P.O. Box 2222	Roswell	NM	88202
The State of New Mexico	3100 Old Santa Fe Trail	Santa Fe	NM	87501
The United States of America	301 Dinosaur Trl.	Santa Fe	NM	87508
Jalapeno Corporation	P.O. Box 1608	Albuquerque	NM	87103
Chief Capital (0&G) II, LLC	8111 Westchester Drive, Suite 900	Dallas	TX	75225
CP Energy Investments III, LLC	8235 Douglas Avenue, Suite 400	Dallas	TX	75225
Innoventions, Inc.	P.O. Box 40	Cedar Crest	NM	87008
Charmar, LLC	4815 Vista Del Oso Ct., NE	Albuquerque	NM	87109
Bane Bigbie and wife, Melanie Bigbie	P.O. Box 998	Ardmore	OK	73402
Mitchell Exploration, Inc.	6212 Homestead Blvd.	Midland	TX	79707
Tumbleweed Exploration, LLC	P.O. Box 50688	Midland	TX	79710
Critterville, LLC	P.O. Box 620	Wimberley	TX	78676
El Capitan Ventures, LLC	P.O. Box 700633	San Antonio	TX	79270
Shannon C. Leonard, Trustee of the Shannon C.				
Leonard Child's Trust (WI)	1018 Sunset Canyon Drive N.	Dripping Springs	TX	78620
Michael Kyle Leonard, Trustee of the Michael Kyle	,			
Leonard Child's Trust (WI)	P.O. Box 2625	Eagle Pass	TX	78853
COG Operating LLC	600 W. Illinois Ave.	Midland	TX	79705
EOG Resources, Inc.	5509 Champions Dr.	Midland	TX	79706
Oxy Y-1 Company	5 Greenway Plaza, Suite 110	Houston	TX	77227
Occidental Permian Limited Partnership	5 Greenway Plaza, Suite 110	Houston	TX	77227
Concho Oil & Gas LLC	600 W. Illinois Ave.	Midland	TX	79705
Foran Oil Company	5400 LBJ Freeway, STE 1500	Dallas	TX	75240
Pontem Energy Partners I, LP	9001 Airport Freeway, STE 825	North Richland Hills	TX	76180
Bane Bigbie Inc.	P.O. Box 998	Ardmore	OK	73402
PB Non-Op Drilling, LP c/o Whitefish Energy Partners,				
LP	25 Highland Park Village Suite 100-766	Dallas	TX	75205
Levi Oil & Gas, LLC	P.O. Box 568	Artesia	NM	88221
Barbe Development, LLC	121 W. Third Street	Roswell	NM	88201
Markel Investments, LLC	605 W. Country Club	Roswell	NM	88201
Panhandle Properties, LLC	P.O. Box 647	Artesia	NM	88211



Paula M. Vance Associate Phone (505) 988-4421 Fax (505) 819-5579 pmvance@hollandhart.com

April 18, 2024

# <u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

TO: ALL AFFECTED PARTIES

Re: Application of Matador Production Company to amend NMOCD Order CTB-1102 and for administrative approval to surface commingle (lease) oil and gas production from the spacing units comprising Sections 1 and 2, Township 21 South, Range 28 East, and Lots 3-6, 11-14, 17 & 18 and the E/2 SW/4 of Section 6, Township 21 South, Range 29 East, NMPM, Eddy County, New Mexico (the "Lands")

#### Ladies and Gentlemen:

Enclosed is a copy of the above-referenced application, which was filed with the New Mexico Oil Conservation Division on this date. Any objection to this application must be filed in writing within twenty days from the date this application is received by the Division's Santa Fe office located at 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505. If no objection is received within this twenty-day period, this application may be approved administratively by the Division.

If you have any questions about this application, please contact the following:

Kyle Perkins Matador Production Company (972) 371-5202 KPerkins@matadorresources.com

Sincerely,

Paula M. Vance

ATTORNEY FOR MATADOR PRODUCTION

**COMPANY** 

						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722208	Regeneration Energy Corp.	PO Box 210	Artesia	NM	88211-0210	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722291	The Allar Company	PO Box 1567	Graham	TX	76450-7567	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722246	Premier Oil & Gas, Inc.	PO Box 837205	Richardson	TX	75083-7205	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722284	Dastarac Inc.	2308 Sierra Vista Rd	Artesia	NM	88210-9409	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722239	Raye Miller and wife, Mary Miller	2308 Sierra Vista Rd	Artesia	NM	88210-9409	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722277	Joel Miller and wife, Robin Miller	PO Box 357	Artesia	NM	88211-0357	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722819	William Miller	2306 Sierra Vista Rd	Artesia	NM	88210-9409	is pending.

				T		Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722857	Innoventions, Inc.	PO Box 40	Cedar Crest	NM	87008-0040	
9402811898765401722857	illioveritions, ilic.	PO BOX 40	Cedar Crest	INIVI	87008-0040	Your shipment was received
						·
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
0.40204.4000765.404.72206.4	Cibala Land Camanastina	1420 Control A - ANA/CO - 2	All .		07404 4462	acceptance of your package
9402811898765401722864	Cibola Land Corporation	1429 Central Ave NW Ste 3	Albuquerque	NM	87104-1162	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722826	Kenneth Barbe, Jr.	121 W 3rd St	Roswell	NM	88201-4707	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722802	Stephen T. Mitchell	PO Box 2415	Midland	TX	79702-2415	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722895	Don Grady	PO Box 30801	Albuquerque	NM	87190-0801	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722840	Duane Brown	706 W Apache Dr	Yuma	СО	80759-1010	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	Bruce J. Pierce, Trustee of the					acceptance of your package
9402811898765401722888	Pierce Irrevocable Trust No. 2	6201 Uptown Blvd NE Ste 201	Albuquerque	NM	87110-4192	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	Southwest Petroleum Land					acceptance of your package
9402811898765401722833		1901 W 4th St	Roswell	NM	88201-1745	
1 111 11 111 111		1 1 11	1			1 - 0

						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	Permian Basin Investment					acceptance of your package
9402811898765401722871	Corporation	500 N Kentucky Ave	Roswell	NM	88201-4721	
3402811838703401722871	Corporation	Job N Rentacky Ave	NOSWEII	INIVI	00201-4721	Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722758	Panadara Campany Inc	PO Box 746	Dia Hara	WY	82833-0746	
9402811898765401722758	Ronadero Company, Inc.	PO BOX 746	Big Horn	VVY	82833-0746	Your shipment was received
						1
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722765	Natalie V. Hanagan	1922 18th Ave W	Williston	ND	58801-2553	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722727	Hutchings Oil Company	PO Box 1216	Albuquerque	NM	87103-1216	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722703	George L. Scott, III	PO Box 40	Cedar Crest	NM	87008-0040	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	Dan ONeill and wife, Deborah					acceptance of your package
9402811898765401722796	ONeill	PO Box 4831	Midland	TX	79704-4831	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722741	Sealy H. Cavin, Jr.	400 1st St NE Ste 610	Albuquerque	NM	87124-0706	
	,,	3 200 000 000			3.22.3.30	Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722734	Leonard Legacy Royalty, LLC	PO Box 3422	Midland	TX	79702-3422	
3 .02011030703701722734	Leonard Lebucy Hoyalty, LLC	1. C DOX 3-22	iviidialia	17	, 5, 52 5722	is belianib.

						Va abiaaa
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722772	LML Properties, LLC	PO Box 3194	Boulder	СО	80307-3194	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722918	Jacks Peak, LLC	PO Box 294928	Kerrville	TX	78029-4928	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722956	Schutz Abstract Company	PO Box 973	Santa Fe	NM	87504-0973	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	James B. ONeill, II, Trustee of the					acceptance of your package
9402811898765401722925	James A. ONeill Revocable Trust	PO Box 942	Fort Collins	CO	80522-0942	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722994	Charmar, LLC	4815 Vista Del Oso Ct NE	Albuquerque	NM	87109-2558	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	Bane Bigbie and wife, Melanie					acceptance of your package
9402811898765401722949	Bigbie	PO Box 998	Ardmore	ОК	73402-0998	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722987	Mitchell Exploration, Inc.	6212 Homestead Blvd	Midland	TX	79707-5059	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722932	MCM Royalties, LLC	PO Box 1540	Midland	TX	79702-1540	
					-	-

						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	Kevin K. Leonard, Trustee of the					acceptance of your package
9402811898765401722970	· ·	PO Box 50688	Midland	TX	79710-0688	
9402811898765401722970	Reviii K. Leonard Childs Trust	PO BOX 30000	IVIIUIAIIU	17	79710-0088	Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	Molly M. Azopardi, Trustee of the					acceptance of your package
0403044000765404733644	Molly M. Azopardi Childs Trust	PO Box 620	M/imah a wlay	TV	78676-0620	
9402811898765401722611	Wolly W. Azopardi Childs Trust	PO BOX 620	Wimberley	TX	78676-0620	Your shipment was received
						at 3:32 pm on April 18, 2024
	Channel C. Landard Tourston of the					in DENVER, CO 80217. The
0.402044.000765.404722666	Shannon C. Leonard, Trustee of the	1010 C	D :	T\/	70620 2055	acceptance of your package
9402811898765401722666	Shannon C. Leonard Childs Trust	1018 Sunset Canyon Dr N	Dripping Springs	TX	78620-3955	
						Your shipment was received
						at 3:32 pm on April 18, 2024
	Michael Kyle Leonard, Trustee of					in DENVER, CO 80217. The
	the Michael Kyle Leonard Childs					acceptance of your package
9402811898765401722628	Trust	PO Box 2625	Eagle Pass	TX	78853-2625	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	Patrick Leonard, Trustee of the					acceptance of your package
9402811898765401722604	Patrick Leonard Childs Trust	PO Box 700633	San Antonio	TX	78270-0633	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722697	S. E. S. Investments, Ltd.	PO Box 10886	Midland	TX	79702-7886	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722642	First Southern Funding, LLC	PO Box 328	Stanford	KY	40484-0328	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722680	Voyage Energy, LP	PO Box 11232	Midland	TX	79702-8232	is pending.

						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722635	Pod Pivor Holdings IIC	PO Box 10886	Midland	TX	79702-7886	
9402811898703401722033	Neu River Holdings, LLC	FO BOX 10000	IVIIUIAIIU	17	79702-7660	Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
0.40204.4000765.404.722672	TNAT Francis Dancis and Inc.	5600 N.M. A Cl. 220	Oldele e e Cit	014	72442 4275	
9402811898765401722673	TIVIT Energy Resources, Inc.	5600 N May Ave Ste 320	Oklahoma City	ОК	73112-4275	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722116	EM1 Energy, LLC	5600 N May Ave Ste 320	Oklahoma City	OK	73112-4275	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722161	Samuel George Jones	PO Box 10253	Midland	TX	79702-7253	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722123	Mongoose Minerals LLC	600 W Illinois Ave	Midland	TX	79701-4882	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722109	EOG Resources, Inc.	1111 Bagby St Lbby 2	Houston	TX	77002-2589	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722192	Nestegg Energy Corporation	2308 Sierra Vista Rd	Artesia	NM	88210-9409	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722147	New Mexico Oil Corporation	PO Box 1714	Roswell	NM	88202-1714	
		1	1 11 1	1		1

						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722185	Pohort Kally Loopard	PO Box 294928	Kerrville	TX	78029-4928	
9402811898765401722185	Robert Kelly Leonard	PO BOX 294928	Kerrville	IX	78029-4928	Your shipment was received
						·
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722130	JTD Resources, LLC	PO Box 3422	Midland	TX	79702-3422	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722178	Regen Royalty Corp.	PO Box 210	Artesia	NM	88211-0210	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722314	Allar Development, LLC	PO Box 1567	Graham	TX	76450-7567	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722352	New Mexico Oil Corporation	PO Box 1714	Roswell	NM	88202-1714	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722369	Jalapeno Corporation	PO Box 1608	Albuquerque	NM	87103-1608	1 1 1
5 :02022000 :02 : 22000			/ madque: que		0.100 1000	Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722321	Flk Range Royalties I P	2110 Farrington St	Dallas	TX	75207-6502	
J-020110J0/0J401/22321	Lik hange noyanies, Li	ZIIO I allington St	Dallas	17	73207-0302	Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
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0402011000765404722207	Declared Francis Bearings 11.0	DO Dov 54594	Oklahams = City	O''	72454 4504	acceptance of your package
9402811898765401722307	Rockwell Energy Resources, LLC	PO Box 54584	Oklahoma City	ОК	73154-1584	is pending.

						Vous chinmont was received
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
0.40004.4000765.404.700000	M. h 0'l C	200			75744 7600	acceptance of your package
9402811898765401722390	Mewbourne Oil Company	PO Box 7698	Tyler	TX	75711-7698	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	Mewbourne Development					acceptance of your package
9402811898765401722383	Corporation	PO Box 7698	Tyler	TX	75711-7698	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722376	CWM 2000-B, Ltd.	PO Box 7698	Tyler	TX	75711-7698	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722055	3MG Corporation	PO Box 7698	Tyler	TX	75711-7698	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722024	Curtis W. Mewbourne, Trustee	PO Box 7698	Tyler	TX	75711-7698	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722093	Lazy J Bar Cane, LLC	PO Box 3660	Roswell	NM	88202-3660	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722086	Nixon Energy, LLC	PO Box 2222	Roswell	NM	88202-2222	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722079	The State of New Mexico	3100 Old Santa Fe Trail	Santa	NM	87501	is pending.
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						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722413	The United States of America	301 Dinosaur Trl	Santa Fe	NM	87508-1560	
3402011030703401722413	The office states of Afficient	301 Dinosaur III	Santare	INIVI	07300 1300	Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722451	Jalanene Corneration	PO Box 1608	Albuquerque	NM	87103-1608	
9402811898763401722431	загарено согрогаціон	PO BOX 1008	Albuquerque	INIVI	8/103-1008	Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						1
0402044000765404722420	Chief Camital OR CHILLS	0111 Wastahastan Du Sta 000	Dallas	TV	75225 6446	acceptance of your package
9402811898765401722420	Cnief Capital O&G II, LLC	8111 Westchester Dr Ste 900	Dallas	TX	75225-6146	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722406	CP Energy Investments III, LLC	8235 Douglas Ave Ste 400	Dallas	TX	75225-6004	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722499	Innoventions, Inc.	PO Box 40	Cedar Crest	NM	87008-0040	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722482	Charmar, LLC	4815 Vista Del Oso Ct NE	Albuquerque	NM	87109-2558	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	Bane Bigbie and wife, Melanie					acceptance of your package
9402811898765401722437	Bigbie	PO Box 998	Ardmore	ОК	73402-0998	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722475	Mitchell Exploration, Inc.	6212 Homestead Blvd	Midland	TX	79707-5059	is pending.

						Your shipment was received
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						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898/65401/22512	Tumbleweed Exploration, LLC	PO Box 50688	Midland	TX	79710-0688	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722550	Critterville, LLC	PO Box 620	Wimberley	TX	78676-0620	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722567	El Capitan Ventures, LLC	PO Box 700633	San Antonio	TX	78270-0633	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	Shannon C. Leonard, Trustee of the					acceptance of your package
9402811898765401722529	Shannon C. Leonard Childs Trust WI	1018 Sunset Canyon Dr N	Dripping Springs	TX	78620-3955	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
	Michael Kyle Leonard, Trustee of					in DENVER, CO 80217. The
	the Michael Kyle Leonard Childs					acceptance of your package
9402811898765401722598	Trust WI	PO Box 2625	Eagle Pass	TX	78853-2625	
			10 - 11			Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401722543	COG Operating LLC	600 W Illinois Ave	Midland	TX	79701-4882	1 1 1
3402011030703401722343	COC Operating LLC	occ vv minois / ive	Iviidiana	17	73701 4002	Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
0403911909765401733591	EOG Posquisos Inc	5509 Champions Dr	Midland	TV	79706-2843	1 1 1
9402811898765401722581	LOG NESOUICES, IIIC.	2303 Champions Di	IVIIUIdIIU	TX	79700-2843	Your shipment was received
						1
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
0.40004.4000765.404755555		5.0 01.0.440			77046 0534	acceptance of your package
9402811898765401722536	Oxy Y-1 Company	5 Greenway Plz Ste 110	Houston	TX	77046-0521	is pending.

						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	Occidental Permian Limited					acceptance of your package
9402811898765401722574		5 Greenway Plz Ste 110	Houston	TX	77046-0521	
9402811898765401722574	raitheiship	5 Greenway Piz Ste 110	nouston	17	77040-0521	Your shipment was received
						· ·
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401720211	Concho Oil & Gas LLC	600 W Illinois Ave	Midland	TX	79701-4882	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401720259	Foran Oil Company	5400 Lbj Fwy Ste 1500	Dallas	TX	75240-1017	
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401720228	Pontem Energy Partners I, LP	9001 Airport Fwy Ste 825	North Richland Hills	TX	76180-7795	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401720297	Bane Bigbie Inc.	PO Box 998	Ardmore	ОК	73402-0998	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
	PB Non-Op Drilling, LP c/o					acceptance of your package
9402811898765401720242	Whitefish Energy Partners, LP	25 Highland Park Vlg Ste 100-766	Dallas	TX	75205-2789	
3 102011030703 1017202 12	Transcensor Energy variations, En	23 Figuration and Figure 100 700	Danas	174	73203 2703	Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401720280	Lovi Oil & Gas II C	PO Box 568	Artesia	NM	88211-0568	
J+02011030703401720200	LEVI OII & Gas, LLC	I O BOX 300	הונכאמ	INIVI	30211-0308	Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
0.402.044.0007.55.404.7203.55	Paula Davialanina II II C	121 W 2nd Ct	Danis II	NIA 4	00204 4707	acceptance of your package
9402811898765401720235	Barbe Development, LLC	121 W 3rd St	Roswell	NM	88201-4707	is pending.

						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401720273	Markel Investments, LLC	605 W Country Club Rd	Roswell	NM	88201-5211	is pending.
						Your shipment was received
						at 3:32 pm on April 18, 2024
						in DENVER, CO 80217. The
						acceptance of your package
9402811898765401720853	Panhandle Properties, LLC	PO Box 647	Artesia	NM	88211-0647	is pending.

From: McClure, Dean, EMNRD on behalf of Engineer, OCD, EMNRD

To: Paula M. Vance

Cc: McClure, Dean, EMNRD; Rikala, Ward, EMNRD; Wrinkle, Justin, EMNRD; Powell, Brandon, EMNRD; Paradis, Kyle O;

Walls, Christopher; Lamkin, Baylen L.

Subject:Approved Administrative Order PLC-935Date:Friday, June 28, 2024 4:06:03 PM

Attachments: PLC935 Order.pdf

NMOCD has issued Administrative Order PLC-935 which authorizes Matador Production Company (228937) to surface commingle or off-lease measure, as applicable, the following wells:

Well API	Well Name UL or Q/Q		S-T-R	Pool
	S C	N/2 S/2	1-21S-28E	
30-015-53728	Simon Camamile 0206 Federal Com #205H	N/2 S/2	2-21S-28E	98315
	Com #20311	N/2 SW/4	6-21S-29E	
	C: C 1 030CE 1 1	S/2 S/2	1-21S-28E	
30-015-53729	Simon Camamile 0206 Federal Com #206H	S/2 S/2	2-21S-28E	98315
	Com #200H	S/2 SW/4	6-21S-29E	
	C' C " OAOCE I I	12345678	1-21S-28E	
30-015-54098	Simon Camamile 0206 Federal Com #201H	12345678	2-21S-28E	98315
	Com #201H	3 4 5 6	6-21S-29E	
	C. C. 1 030CE 1 1	12345678	1-21S-28E	
30-015-54099	Simon Camamile 0206 Federal Com #202H	12345678	2-21S-28E	98315
	Com #202H	3 4 5 6	6-21S-29E	
		9 10 11 12	1 21C 20E	
	C' C " OAOCE I I	13 14 15 16	1-21S-28E	
30-015-54303	Simon Camamile 0206 Federal Com #203H	9 10 11 12	2-21S-28E	98315
		13 14 15 16	2-215-26E	
		11 12 13 14	6-21S-29E	
		9 10 11 12	1 21C 20E	
	C' C " 030CE I I	13 14 15 16	1-21S-28E	
30-015-54366	Simon Camamile 0206 Federal Com #204H	9 10 11 12	2-21S-28E	98315
	Com #204H	13 14 15 16	2-215-26E	
		11 12 13 14	6-21S-29E	
	C: C 2 000 E 1 1	N/2 S/2	1-21S-28E	
30-015-54312	Simon Camamile 0206 Federal Com #125H	N/2 S/2	2-21S-28E	97995
	C0III #125H	N/2 SW/4	6-21S-29E	
	C' C " OAOCE "	S/2 S/2	1-21S-28E	
30-015-53730	Simon Camamile 0206 Federal	S/2 S/2	2-21S-28E	97995
	Com #126H	S/2 SW/4	6-21S-29E	

The administrative order is attached to this email and can also be found online at OCD Imaging.

Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me.

Dean McClure

Petroleum Engineer, Oil Conservation Division

New Mexico Energy, Minerals and Natural Resources Department (505) 469-8211



PO Box 631667 Cincinnati, OH 45263-1667

### **AFFIDAVIT OF PUBLICATION**

Joe Stark Holland And Hart 110 N Guadalupe ST # 1 Santa Fe NM 87501-1849

STATE OF WISCONSIN, COUNTY OF BROWN

The Carlsbad Current Argus, a newspaper published in the city of Carlsbad, Eddy County, State of New Mexico, and personal knowledge of the facts herein state and that the notice hereto annexed was Published in said newspapers in the issue:

04/19/2024

and that the fees charged are legal. Sworn to and subscribed before on 04/19/2024

Notary, State of WI, County of Brown

My commission expires

Publication Cost:

\$364.40

Order No:

10085607

# of Copies:

Customer No:

1360634

1

PO #:

THIS IS NOT AN INVOICE!

Please do not use this form for payment remittance.

KATHLEEN ALLEN Notary Public State of Wisconsin

To: All affected parties, including: Regeneration Energy Corp.; The Allar Company: Premier Oil & Gas, Inc.; Dastarac Inc.; Rove Miller and wife Mary Robler (1988). The pastarac Inc.; Rove Miller and wife Mary Robler (1988). The pastarac Inc.; Rove Miller and Wife Mary Robler (1988). The pastarac Inc.; Rove Miller and Wife Mary Robler (1988). The pastarac Inc.; All Mary Robler (1988). The pastarac Inc.; Cibola Land Corporation; Kenneth Borbe, Jr., his heirs and devisees; Stephen T. Mitchell, his heirs and devisees; Don Grady, his heirs and devisees; Don Orbeit Corporation; Ronadero Company, Inc.; Nafalie V. Hanagan, her heirs and devisees and devisees; Lonard Legacy Royally, LtC; LML Properties, LLC; Jack's Peak, LLC; Schutz Abstract Company; James B. O'Neill, Taving Corporation, Inc.; MCM Royallies, LLC; Kevin K. Tummersmith Realty, Inc.; Charmar, LLC; Bane Bigbie and wife, Melanie Bigbie, their heirs and devisees; Mitchell Exploration, Inc.; MCM Royallies, LLC; Kevin K. Leonard Child's Trust; Molly M. Arbard Trustee of the Michael Kyle Leonard Child's Trust; Molly M. Arbardy Trustee of the Patrick Leonard Child's Trust; Corporation, Inc.; MCM Royallies, LLC; Trust, Patrick Leonard Child's Trust; Michael Kyle Leonard, Trustee of the Patrick Leonard Child's Trust; S. E. S. Investments, Ltd.; First Southern Funding, LLC; Voyage Energy, LP; Red River Holdings, LLC; Samuel George Jones, his heirs and devisees; Mongoose Minerals LLC; EOG Resources, Inc.; EMI Energy, LLC; Samuel George Jones, his heirs and devisees; Mongoose Minerals LLC; For Resources, Inc.; Charmary, Luck Regen Corporation; Like Regen Royal-ties, LP; Rockwell Energy Resources, LLC; Mewbourne Overland Child's Trust (WI); Michael Kyle Leonard, Trustee of the Michael Kyle Leon SW/A of Section 6, 7215-R29E, in the WC Burton Flat Upper Wolfcamp East (oil) [98315] – currently dedicated to the Simon Camamile 0206 Fed Com #204 (API. No. 30-015-58) (API. 1) (API.

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF APPLICATION FOR

COMPULSORY POOLING AND APPROVAL

OF NON-STANDARD SPACING UNIT

SUBMITTED BY MATADOR PRODUCTION COMPANY

ORDER NO. R-22650

### **ORDER**

The Director of the New Mexico Oil Conservation Division ("OCD"), having heard this matter through a Hearing Examiner on February 16, 2023, and after considering the testimony, evidence, and recommendation of the Hearing Examiner, issues the following Order.

### **FINDINGS OF FACT**

- 1. Matador Production Company ("Operator") submitted an application ("Application") to compulsory pool the uncommitted oil and gas interests within the spacing unit ("Unit") described in Exhibit A.
- 2. The Application also seeks approval of a Non-Standard horizontal spacing unit for production from all Division-designated pools underlying the Unit.
- 3. Operator seeks to be designated the operator of the Unit.
- 4. Operator will dedicate the well(s) described in Exhibit A ("Well(s)") to the Unit.
- 5. Operator proposes the supervision and risk charges for the Well(s) described in Exhibit A.
- 6. Operator identified the owners of uncommitted interests in oil and gas minerals in the Unit and provided evidence that notice was given.
- 7. Operator identified the owners of interest in the offset oil and gas minerals from the Unit and provided evidence that notice was given.
- 8. The Application was heard by the Hearing Examiner on the date specified above, during which Operator presented evidence through affidavits in support of the Application. No other party presented evidence at the hearing.

### **CONCLUSIONS OF LAW**

- 9. OCD has jurisdiction to issue this Order pursuant to NMSA 1978, Section 70-2-17.
- 10. Operator is the owner of an oil and gas working interest within the Unit.

- 11. Operator satisfied the notice requirements for the Application and the hearing as required by 19.15.4.12 NMAC.
- 12. Operator has met the notice requirements for approval of non-standard horizontal spacing units in accordance with 19.15.16.15(B)(5) NMAC.
- 13. OCD satisfied the notice requirements for the hearing as required by 19.15.4.9 NMAC.
- 14. Operator has the right to drill the Well(s) to a common source of supply at the depth(s) and location(s) in the Unit described in Exhibit A.
- 15. OCD's rules allow the approval of a non-standard horizontal spacing unit, after notice and opportunity for hearing, "if necessary to prevent waste or protect correlative rights" 19.15.16.15(B)(5)(a) NMAC.
- 16. While the OCD is authorized to approve a non-standard spacing unit, <u>Rutter & Wilbanks Corp. v. Oil Conservation Comm'n</u>, 1975-NMSC-006, OCD lacks the authority to approve unitization and will disapprove an application if it determines that it is actually unitization. Order R-13554 (May 18, 2012) (disapproving application for a non-standard spacing unit consisting of 16 standard spacing units).
- 17. Approval of the Non-Standard Spacing Unit promotes effective well spacing and allows the Operator to therefore prevent waste and protect correlative rights.
- 18. The Unit contains separately owned uncommitted interests in oil and gas minerals.
- 19. Some of the owners of the uncommitted interests have not agreed to commit their interests to the Unit.
- 20. The pooling of uncommitted interests in the Unit will prevent waste and protect correlative rights, including the drilling of unnecessary wells.
- 21. This Order affords to the owner of an uncommitted interest the opportunity to produce his just and equitable share of the oil or gas in the pool.

### **ORDER**

- 22. The Unit is approved as a non-standard horizontal spacing unit.
- 23. Operator shall file Forms C-102 reflecting the correct acreage dedicated for each of the Wells.
- 24. The uncommitted interests in the Unit are pooled as set forth in Exhibit A.
- 25. The Unit shall be dedicated to the Well(s) set forth in Exhibit A.

CASE NO. 22990 ORDER NO. R-22650

Page 2 of 8

- 26. Operator is designated as operator of the Unit and the Well(s).
- 27. If the location of a well will be unorthodox under the spacing rules in effect at the time of completion, Operator shall obtain the OCD's approval for a non-standard location in accordance with 19.15.16.15(C) NMAC.
- 28. The Operator shall commence drilling the Well(s) within one year after the date of this Order, and complete each Well no later than one (1) year after the commencement of drilling the Well.
- 29. This Order shall terminate automatically if Operator fails to comply with Paragraph 28 unless Operator obtains an extension by amending this Order for good cause shown.
- 30. The infill well requirements in 19.15.13.9 NMAC through 19.15.13.12 NMAC shall be applicable.
- 31. Operator shall submit each owner of an uncommitted working interest in the pool ("Pooled Working Interest") an itemized schedule of estimated costs to drill, complete, and equip the well ("Estimated Well Costs").
- 32. No later than thirty (30) days after Operator submits the Estimated Well Costs, the owner of a Pooled Working Interest shall elect whether to pay its share of the Estimated Well Costs or its share of the actual costs to drill, complete and equip the well ("Actual Well Costs") out of production from the well. An owner of a Pooled Working Interest who elects to pay its share of the Estimated Well Costs shall render payment to Operator no later than thirty (30) days after the expiration of the election period, and shall be liable for operating costs, but not risk charges, for the well. An owner of a Pooled Working Interest who fails to pay its share of the Estimated Well Costs or who elects to pay its share of the Actual Well Costs out of production from the well shall be considered to be a "Non-Consenting Pooled Working Interest."
- 33. No later than one hundred eighty (180) days after Operator submits a Form C-105 for a well, Operator shall submit to each owner of a Pooled Working Interest an itemized schedule of the Actual Well Costs. The Actual Well Costs shall be considered to be the Reasonable Well Costs unless an owner of a Pooled Working Interest files a written objection no later than forty-five (45) days after receipt of the schedule. If an owner of a Pooled Working Interest files a timely written objection, OCD shall determine the Reasonable Well Costs after public notice and hearing.
- 34. No later than sixty (60) days after the expiration of the period to file a written objection to the Actual Well Costs or OCD's order determining the Reasonable Well Costs, whichever is later, each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs shall pay to Operator its share of the

CASE NO. 22990 ORDER NO. R-22650

Page 3 of 8

Reasonable Well Costs that exceed the Estimated Well Costs, or Operator shall pay to each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs its share of the Estimated Well Costs that exceed the Reasonable Well Costs.

- 35. The reasonable charges for supervision to drill and produce a well ("Supervision Charges") shall not exceed the rates specified in Exhibit A, provided however that the rates shall be adjusted annually pursuant to the COPAS form entitled "Accounting Procedure-Joint Operations."
- 36. No later than within ninety (90) days after Operator submits a Form C-105 for a well, Operator shall submit to each owner of a Pooled Working Interest an itemized schedule of the reasonable charges for operating and maintaining the well ("Operating Charges"), provided however that Operating Charges shall not include the Reasonable Well Costs or Supervision Charges. The Operating Charges shall be considered final unless an owner of a Pooled Working Interest files a written objection no later than forty-five (45) days after receipt of the schedule. If an owner of a Pooled Working Interest files a timely written objection, OCD shall determine the Operating Charges after public notice and hearing.
- 37. Operator may withhold the following costs and charges from the share of production due to each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs: (a) the proportionate share of the Supervision Charges; and (b) the proportionate share of the Operating Charges.
- 38. Operator may withhold the following costs and charges from the share of production due to each owner of a Non-Consenting Pooled Working Interest: (a) the proportionate share of the Reasonable Well Costs; (b) the proportionate share of the Supervision and Operating Charges; and (c) the percentage of the Reasonable Well Costs specified as the charge for risk described in Exhibit A.
- 39. Operator shall distribute a proportionate share of the costs and charges withheld pursuant to paragraph 38 to each Pooled Working Interest that paid its share of the Estimated Well Costs.
- 40. Each year on the anniversary of this Order, and no later than ninety (90) days after each payout, Operator shall provide to each owner of a Non-Consenting Pooled Working Interest a schedule of the revenue attributable to a well and the Supervision and Operating Costs charged against that revenue.
- 41. Any cost or charge that is paid out of production shall be withheld only from the share due to an owner of a Pooled Working Interest. No cost or charge shall be withheld from the share due to an owner of a royalty interests. For the purpose of this Order, an unleased mineral interest shall consist of a seven-eighths (7/8) working interest and a one-eighth (1/8) royalty interest.

- 42. Except as provided above, Operator shall hold the revenue attributable to a well that is not disbursed for any reason for the account of the person(s) entitled to the revenue as provided in the Oil and Gas Proceeds Payment Act, NMSA 1978, Sections 70-10-1 *et seq.*, and relinquish such revenue as provided in the Uniform Unclaimed Property Act, NMSA 1978, Sections 7-8A-1 *et seq.*
- 43. The Unit shall terminate if (a) the owners of all Pooled Working Interests reach a voluntary agreement; or (b) the well(s) drilled on the Unit are plugged and abandoned in accordance with the applicable rules. Operator shall inform OCD no later than thirty (30) days after such occurrence.
- 44. OCD retains jurisdiction of this matter for the entry of such orders as may be deemed necessary.

Date: 4/20/23

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

DYLAN M FUGE

DIRECTOR (ACTING)

DMF/hat

#### Exhibit A

Received by OCD: 2/14/2023 4:22:01 PM Page 9 of 150 COMPULSORY POOLING APPLICATION CHECKLIST ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS Case: 22990 APPLICANT'S RESPONSE Date February 16, 2023 Applicant **Matador Production Company** Designated Operator & OGRID (affiliation if applicable) Matador Production Company, OGRIG 228937 Applicant's Counsel: **Holland & Hart LLP** Case Title: Application of Matador Production Company for Approval of a Non-Standard Spacing Unit and Compulsory Pooling, Eddy County, New Mexico. Entries of Appearance/Intervenors: Mewbourne Oil Company, COG Operating LLC and Concho Oil & Gas Operating LLC, and EOG Resources, Inc. Well Family Simon Camamile 0206 Fed Com Formation/Pool Formation Name(s) or Vertical Extent: Wolfcamp Primary Product (Oil or Gas): Oil N/A Pooling this vertical extent: Pool Name and Pool Code: WC21S27E3; Upper Wolfcamp (98352) Well Location Setback Rules: Statewide oil rules Spacing Unit Type (Horizontal/Vertical) Horizontal Size (Acres) 670.38 Building Blocks: 40 acres Orientation: West-East Lots 1-8 (N2N2 equivalent) of irregular Sections 1 and Description: TRS/County 2, Township 21 South, Range 28 East, and Lots 3-6 (N2NW4 equivalent) of irregular Section 6, Township 21 South, Range 29 East, NMPM, Eddy County. Standard Horizontal Well Spacing Unit (Y/N), If No, describe and is No. Approval of the above described non-standard approval of non-standard unit requested in this application? spacing unit is requested. Other Situations Depth Severance: Y/N. If yes, description No Proximity Tracts: If yes, description No Proximity Defining Well: if yes, description N/A See Exhibit C-4 Applicant's Ownership in Each Tract Well(s)

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(standard or non-standard)

Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status

Received by OCD: 2/14/2023 4:22:01 PM	Page 10 of
Well #1	Simon Camamile 0206 Fed Com 201H
	SHL: 1712' FNL & 689' FWL (Lot 5) of Section 2
	BHL: 451' FNL & 2267' FWL (Lot 3) of Section 6
	Target: Wolfcamp
	Orientation: West-East
Anna de Campa	Completion: Standard Location
Well #2	Simon Camamile 0206 Fed Com 202H
	SHL: 1734' FNL & 708' FWL (Lot 5) of Section 2
	BHL: 1771' FNL & 2270' FWL (Lot 6) of Section 6
	Target: Wolfcamp
	Orientation: West-East
Well #3	Completion: Standard Location Simon Camamile 0206 Fed Com 222H
vveii #3	SHL: 1754' FNL & 686' FWL (Lot 5) of Section 2
	BHL: 1111' FNL & 2268' FWL (Lot 3) of Section 6
	Target: Wolfcamp
	Orientation: West-East
	Completion: Standard Location
Horizontal Well First and Last Take Points	Exhibit C-1
Completion Target (Formation, TVD and MD)	Exhibit C-5
, , , , , , , , , , , , , , , , , , , ,	Eximilate 5
AFE Capex and Operating Costs	\$8,000
Drilling Supervision/Month \$	
Production Supervision/Month \$	\$800
Justification for Supervision Costs	Exhibit C
Requested Risk Charge	200%
Notice of Hearing	
Proposed Notice of Hearing	See filed Application
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit E
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit F
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit C-4
Tract List (including lease numbers and owners)	Exhibits C-4
2	
If approval of Non-Standard Spacing Unit is requested, Tract	
List (including lease numbers and owners) of Tracts subject to notice requirements.	Exhibit C-7
,	
Pooled Parties (including ownership type)	Exhibit C-4
Unlocatable Parties to be Pooled	Not Applicable
Ownership Depth Severance (including percentage above &	N/4
below)	N/A
Joinder	
Sample Copy of Proposal Letter	Exhibit C-5
List of Interest Owners (ie Exhibit A of JOA)	Exhibit C-4
Chronology of Contact with Non-Joined Working Interests	Exhibit C-6
Oburted ad Ranging: 12/65/3928L&tter54 AM	Exhibit C-5

Received by OCD: 2/14/2023 4:22:01 PM	Page 11 of 15
Cost Estimate to Drill and Complete	Exhibit C-5
Cost Estimate to Equip Well	Exhibit C-5
Cost Estimate for Production Facilities	Exhibit C-5
Geology	
Summary (including special considerations)	Exhibit D
Spacing Unit Schematic	Exhibit C-3
Gunbarrel/Lateral Trajectory Schematic	Exhibits C-3 and D-2
Well Orientation (with rationale)	Exhibit D
Target Formation	Exhibits D; D-3
HSU Cross Section	Exhibit D-3
Depth Severance Discussion	N/A
Forms, Figures and Tables	
C-102	Exhibit C-1
Tracts	Exhibit C-4
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit C-4
General Location Map (including basin)	Exhibit D-1
Well Bore Location Map	Exhibits C-1, D-2
Structure Contour Map - Subsea Depth	Exhibit D-2
Cross Section Location Map (including wells)	Exhibit D-2
Cross Section (including Landing Zone)	Exhibit D-3
Additional Information	
Special Provisions/Stipulations	N/A
CERTIFICATION: I hereby certify that the information pro	
Printed Name (Attorney or Party Representative):	Michael H. Feldewert
Signed Name (Attorney or Party Representative):	- le l . M - 44 E l 22
Date:	Tachal & Fellewers 14-Feb-23

Released to Imaging: 2/15/2023 8:30:54 AM

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF APPLICATION FOR
COMPULSORY POOLING AND APPROVAL
OF NON-STANDARD SPACING UNIT
SUBMITTED BY MATADOR PRODUCTION COMPANY
CASE NO. 22992
ORDER NO. R-22654

### **ORDER**

The Director of the New Mexico Oil Conservation Division ("OCD"), having heard this matter through a Hearing Examiner on February 16, 2023, and after considering the testimony, evidence, and recommendation of the Hearing Examiner, issues the following Order.

## **FINDINGS OF FACT**

- 1. Matador Production Company ("Operator") submitted an application ("Application") to compulsory pool the uncommitted oil and gas interests within the spacing unit ("Unit") described in Exhibit A.
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## **CONCLUSIONS OF LAW**

- 9. OCD has jurisdiction to issue this Order pursuant to NMSA 1978, Section 70-2-17.
- 10. Operator is the owner of an oil and gas working interest within the Unit.

- 11. Operator satisfied the notice requirements for the Application and the hearing as required by 19.15.4.12 NMAC.
- 12. Operator has met the notice requirements for approval of non-standard horizontal spacing units in accordance with 19.15.16.15(B)(5) NMAC.
- 13. OCD satisfied the notice requirements for the hearing as required by 19.15.4.9 NMAC.
- 14. Operator has the right to drill the Well(s) to a common source of supply at the depth(s) and location(s) in the Unit described in Exhibit A.
- 15. OCD's rules allow the approval of a non-standard horizontal spacing unit, after notice and opportunity for hearing, "if necessary to prevent waste or protect correlative rights" 19.15.16.15(B)(5)(a) NMAC.
- 16. While the OCD is authorized to approve a non-standard spacing unit, <u>Rutter & Wilbanks Corp. v. Oil Conservation Comm'n</u>, 1975-NMSC-006, OCD lacks the authority to approve unitization and will disapprove an application if it determines that it is actually unitization. Order R-13554 (May 18, 2012) (disapproving application for a non-standard spacing unit consisting of 16 standard spacing units).
- 17. Approval of the Non-Standard Spacing Unit promotes effective well spacing and allows the Operator to therefore prevent waste and protect correlative rights.
- 18. The Unit contains separately owned uncommitted interests in oil and gas minerals.
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- 20. The pooling of uncommitted interests in the Unit will prevent waste and protect correlative rights, including the drilling of unnecessary wells.
- 21. This Order affords to the owner of an uncommitted interest the opportunity to produce his just and equitable share of the oil or gas in the pool.

### **ORDER**

- 22. The Unit is approved as a non-standard horizontal spacing unit.
- 23. Operator shall file Forms C-102 reflecting the correct acreage dedicated for each of the Wells.
- 24. The uncommitted interests in the Unit are pooled as set forth in Exhibit A.
- 25. The Unit shall be dedicated to the Well(s) set forth in Exhibit A.

CASE NO. 22992 ORDER NO. R-22654

Page 2 of 8

- 26. Operator is designated as operator of the Unit and the Well(s).
- 27. If the location of a well will be unorthodox under the spacing rules in effect at the time of completion, Operator shall obtain the OCD's approval for a non-standard location in accordance with 19.15.16.15(C) NMAC.
- 28. The Operator shall commence drilling the Well(s) within one year after the date of this Order, and complete each Well no later than one (1) year after the commencement of drilling the Well.
- 29. This Order shall terminate automatically if Operator fails to comply with Paragraph 28 unless Operator obtains an extension by amending this Order for good cause shown.
- 30. The infill well requirements in 19.15.13.9 NMAC through 19.15.13.12 NMAC shall be applicable.
- 31. Operator shall submit each owner of an uncommitted working interest in the pool ("Pooled Working Interest") an itemized schedule of estimated costs to drill, complete, and equip the well ("Estimated Well Costs").
- 32. No later than thirty (30) days after Operator submits the Estimated Well Costs, the owner of a Pooled Working Interest shall elect whether to pay its share of the Estimated Well Costs or its share of the actual costs to drill, complete and equip the well ("Actual Well Costs") out of production from the well. An owner of a Pooled Working Interest who elects to pay its share of the Estimated Well Costs shall render payment to Operator no later than thirty (30) days after the expiration of the election period, and shall be liable for operating costs, but not risk charges, for the well. An owner of a Pooled Working Interest who fails to pay its share of the Estimated Well Costs or who elects to pay its share of the Actual Well Costs out of production from the well shall be considered to be a "Non-Consenting Pooled Working Interest."
- 33. No later than one hundred eighty (180) days after Operator submits a Form C-105 for a well, Operator shall submit to each owner of a Pooled Working Interest an itemized schedule of the Actual Well Costs. The Actual Well Costs shall be considered to be the Reasonable Well Costs unless an owner of a Pooled Working Interest files a written objection no later than forty-five (45) days after receipt of the schedule. If an owner of a Pooled Working Interest files a timely written objection, OCD shall determine the Reasonable Well Costs after public notice and hearing.
- 34. No later than sixty (60) days after the expiration of the period to file a written objection to the Actual Well Costs or OCD's order determining the Reasonable Well Costs, whichever is later, each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs shall pay to Operator its share of the

Reasonable Well Costs that exceed the Estimated Well Costs, or Operator shall pay to each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs its share of the Estimated Well Costs that exceed the Reasonable Well Costs.

- 35. The reasonable charges for supervision to drill and produce a well ("Supervision Charges") shall not exceed the rates specified in Exhibit A, provided however that the rates shall be adjusted annually pursuant to the COPAS form entitled "Accounting Procedure-Joint Operations."
- 36. No later than within ninety (90) days after Operator submits a Form C-105 for a well, Operator shall submit to each owner of a Pooled Working Interest an itemized schedule of the reasonable charges for operating and maintaining the well ("Operating Charges"), provided however that Operating Charges shall not include the Reasonable Well Costs or Supervision Charges. The Operating Charges shall be considered final unless an owner of a Pooled Working Interest files a written objection no later than forty-five (45) days after receipt of the schedule. If an owner of a Pooled Working Interest files a timely written objection, OCD shall determine the Operating Charges after public notice and hearing.
- 37. Operator may withhold the following costs and charges from the share of production due to each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs: (a) the proportionate share of the Supervision Charges; and (b) the proportionate share of the Operating Charges.
- 38. Operator may withhold the following costs and charges from the share of production due to each owner of a Non-Consenting Pooled Working Interest: (a) the proportionate share of the Reasonable Well Costs; (b) the proportionate share of the Supervision and Operating Charges; and (c) the percentage of the Reasonable Well Costs specified as the charge for risk described in Exhibit A.
- 39. Operator shall distribute a proportionate share of the costs and charges withheld pursuant to paragraph 38 to each Pooled Working Interest that paid its share of the Estimated Well Costs.
- 40. Each year on the anniversary of this Order, and no later than ninety (90) days after each payout, Operator shall provide to each owner of a Non-Consenting Pooled Working Interest a schedule of the revenue attributable to a well and the Supervision and Operating Costs charged against that revenue.
- 41. Any cost or charge that is paid out of production shall be withheld only from the share due to an owner of a Pooled Working Interest. No cost or charge shall be withheld from the share due to an owner of a royalty interests. For the purpose of this Order, an unleased mineral interest shall consist of a seven-eighths (7/8) working interest and a one-eighth (1/8) royalty interest.

- 42. Except as provided above, Operator shall hold the revenue attributable to a well that is not disbursed for any reason for the account of the person(s) entitled to the revenue as provided in the Oil and Gas Proceeds Payment Act, NMSA 1978, Sections 70-10-1 *et seq.*, and relinquish such revenue as provided in the Uniform Unclaimed Property Act, NMSA 1978, Sections 7-8A-1 *et seq.*
- 43. The Unit shall terminate if (a) the owners of all Pooled Working Interests reach a voluntary agreement; or (b) the well(s) drilled on the Unit are plugged and abandoned in accordance with the applicable rules. Operator shall inform OCD no later than thirty (30) days after such occurrence.
- 44. OCD retains jurisdiction of this matter for the entry of such orders as may be deemed necessary.

Date: 4/30/2023

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

DYLANMEUGE

**DIRECTOR (ACTING)** 

DMF/hat

#### Exhibit A

Received by OCD: 2/14/2023 4:19:32 PM

COMPULSORY POOLING APPLICATION CHECKLIST ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS Case: 22992 APPLICANT'S RESPONSE Date February 16, 2023 Applicant **Matador Production Company** Matador Production Company, OGRIG 228937 Designated Operator & OGRID (affiliation if applicable) Applicant's Counsel: **Holland & Hart LLP** Application of Matador Production Company for Case Title: Approval of a Non-Standard Spacing Unit and Compulsory Pooling, Eddy County, New Mexico. Entries of Appearance/Intervenors: Mewbourne Oil Company, COG Operating LLC and Concho Oil & Gas Operating LLC, and EOG Resources, Well Family Simon Camamile 0206 Fed Com Formation/Pool Formation Name(s) or Vertical Extent: Wolfcamp Primary Product (Oil or Gas): Oil Pooling this vertical extent: N/A Pool Name and Pool Code: WC21S27E3; Upper Wolfcamp (98352) Well Location Setback Rules: Statewide oil rules Spacing Unit Type (Horizontal/Vertical) Horizontal Size (Acres) 780.84 **Building Blocks:** 40 acres Orientation: West-East Lots 9-16 (S2S2 equivalent) of irregular Sections 1 and Description: TRS/County 2, T21S, R28E, and Lots 11-14 (S2NW4 equivalent) of irregular Section 6, T21S, R29E, NMPM, Eddy County. Standard Horizontal Well Spacing Unit (Y/N), If No, describe and is No. Approval of the above described non-standard approval of non-standard unit requested in this application? spacing unit is requested. Other Situations Depth Severance: Y/N. If yes, description No Proximity Tracts: If yes, description No Proximity Defining Well: if yes, description N/A Applicant's Ownership in Each Tract See Exhibit C-4 Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)

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Received by OCD: 2/14/2023 4:19:32 PM	Page 13 of
Well #1	Simon Camamile 0206 Fed Com 203H
	SHL: 3531' FSL & 170' FWL (Lot 13) of Section 2 BHL: 3091' FNL & 2272' FWL (Lot 11) of Section 6
	Target: Wolfcamp
	Orientation: West-East
	Completion: Standard Location
Well #2	Simon Camamile 0206 Fed Com 204H
	SHL: 3531' FSL & 200' FWL (Lot 13) of Section 2
	BHL: 3369' FSL & 2274' FWL (Lot 14) of Section 6
	Target: Wolfcamp
	Orientation: West-East
	Completion: Standard Location
Well #3	Simon Camamile 0206 Fed Com 224H
	SHL: 3501' FSL & 200' FWL (Lot 13) of Section 2 BHL: 3751' FNL & 2273' FWL (Lot 11) of Section 6
	Target: Wolfcamp
	Orientation: West-East
	Completion: Standard Location
Horizontal Well First and Last Take Points	Exhibit C-1
Completion Target (Formation, TVD and MD)	Exhibit C-5
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$8,000
Production Supervision/Month \$	\$800
Justification for Supervision Costs	Exhibit C
Requested Risk Charge	200%
Notice of Hearing	
Proposed Notice of Hearing	See filed Application
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit E
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit F
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit C-4
Tract List (including lease numbers and owners)	Exhibits C-4
If approval of Non-Standard Spacing Unit is requested, Tract List (including lease numbers and owners) of Tracts subject to notice requirements.	Exhibit C-7
Pooled Parties (including ownership type)	Exhibit C-4
Unlocatable Parties to be Pooled	Not Applicable
Ownership Depth Severance (including percentage above & below)	N/A
Joinder	197
Sample Copy of Proposal Letter	Exhibit C-5
List of Interest Owners (ie Exhibit A of JOA)	Exhibit C-4
Chronology of Contact with Non-Joined Working Interests	Exhibit C-6
Coloried at Ranging: PV65/993BL&t2&t55 AM	Exhibit C-5
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Received by OCD: 2/14/2023 4:19:32 PM	Page 14 of 15
Cost Estimate to Drill and Complete	Exhibit C-5
Cost Estimate to Equip Well	Exhibit C-5
Cost Estimate for Production Facilities	Exhibit C-5
Geology	
Summary (including special considerations)	Exhibit D
Spacing Unit Schematic	Exhibit C-3
Gunbarrel/Lateral Trajectory Schematic	Exhibits C-3 and D-2
Well Orientation (with rationale)	Exhibit D
Target Formation	Exhibits D; D-3
HSU Cross Section	Exhibit D-3
Depth Severance Discussion	N/A
Forms, Figures and Tables	
C-102	Exhibit C-1
Tracts	Exhibit C-4
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit C-4
General Location Map (including basin)	Exhibit D-1
Well Bore Location Map	Exhibits C-1, D-2
Structure Contour Map - Subsea Depth	Exhibit D-2
Cross Section Location Map (including wells)	Exhibit D-2
Cross Section (including Landing Zone)	Exhibit D-3
Additional Information	
Special Provisions/Stipulations	N/A
CERTIFICATION: I hereby certify that the information pro	·
Printed Name (Attorney or Party Representative):	Michael H. Feldewert
Signed Name (Attorney or Party Representative):	
Date:	Tichal & Allewers 14-Feb-23

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Form 3160-5 (June 2019)

## **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED	
OMB No. 1004-0137	
Expires: October 31, 2021	

5.	Lease	Serial	No

DOKI	EAU OF LAND MANAGEMENT			
Do not use this fo	OTICES AND REPORTS ON Worm for proposals to drill or to Use Form 3160-3 (APD) for suc	6. If Indian, Allottee or Tribe Name		
abandoned wen. C	ose Form 3160-3 (APD) for suc	T YOU : COA/A		
	<b>TRIPLICATE</b> - Other instructions on page	/. If Unit of CA/Agree	ement, Name and/or No.	
1. Type of Well			8. Well Name and No.	
Oil Well Gas W	Vell Other		8. Well Name and No.	
2. Name of Operator			9. API Well No.	
3a. Address	3b. Phone No.	(include area code)	10. Field and Pool or I	Exploratory Area
		•		
4. Location of Well (Footage, Sec., T.,R	.,M., or Survey Description)		11. Country or Parish,	State
12. CHE	CK THE APPROPRIATE BOX(ES) TO INC	DICATE NATURE OF NOTI	ICE, REPORT OR OTH	IER DATA
TYPE OF SUBMISSION		TYPE OF AC	TION	
Notice of Intent	Acidize Deep	en Prod	luction (Start/Resume)	Water Shut-Off
Notice of filterit	Alter Casing Hydra	nulic Fracturing Recla	amation	Well Integrity
Subsequent Report	Casing Repair New	Construction Reco	omplete	Other
		and Abandon Temp	porarily Abandon	
Final Abandonment Notice	Convert to Injection Plug	Back Wate	er Disposal	
	ns. If the operation results in a multiple comices must be filed only after all requirements			
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)			
		Title		
Signature		Date		
	THE SPACE FOR FEDE	ERAL OR STATE OF	ICE USE	
Approved by				
••		Title		Date
	ned. Approval of this notice does not warrant quitable title to those rights in the subject lead duct operations thereon.			
Fitle 18 U.S.C Section 1001 and Title 43	U.S.C Section 1212, make it a crime for an	y person knowingly and will	Ifully to make to any de	partment or agency of the United States

any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

#### **GENERAL INSTRUCTIONS**

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

#### SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

#### **NOTICES**

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

## **Additional Information**

#### **Location of Well**

0. SHL: SWSW / 1250 FSL / 755 FWL / TWSP: 21S / RANGE: 28E / SECTION: 02 / LAT: 32.505484 / LONG: -104.0633202 ( TVD: 0 feet, MD: 0 feet ) PPP: SWSW / 1099 FSL / 0 FWL / TWSP: 21S / RANGE: 28E / SECTION: 01 / LAT: 32.5050673 / LONG: -104.0486256 ( TVD: 10048 feet, MD: 14900 feet ) PPP: LOT 17 / 1105 FSL / 0 FWL / TWSP: 21S / RANGE: 29E / SECTION: 6 / LAT: 32.505046 / LONG: -104.031422 ( TVD: 10165 feet, MD: 20362 feet ) BHL: NESW / 1389 FSL / 2268 FWL / TWSP: 21S / RANGE: 29E / SECTION: 6 / LAT: 32.5050362 / LONG: -104.0240654 ( TVD: 10169 feet, MD: 22590 feet )

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MATADOR PRODUCTION COMPANY WELL NAME & NO.: SIMON CAMAMILE 0206 FED COM 126H

APD ID: | 10400083208

SURFACE HOLE FOOTAGE: 1250'/S & 755'/W BOTTOM HOLE FOOTAGE 729'/S & 2265'/W

SURFACE LOCATION: Section 2, T.21 S., R.28 E. COUNTY: Eddy County, New Mexico

COA

$H_2S$	Yes	O No		
Potash	None	Secretary	© R-111-P	
Cave/Karst Potential	C Low	Medium	• High	
Cave/Karst Potential	Critical			
Variance	O None	• Flex Hose	Other	
Wellhead	Conventional	Multibowl	C Both	
Wellhead Variance	<ul><li>Diverter</li></ul>			
Other	✓ 4 String	Capitan Reef	$\square$ WIPP	
Other	☐ Fluid Filled	☐ Pilot Hole	☐ Open Annulus	
Other Variance	Break Testing	Offline Cementing	☐ Casing Clearance	
Special Requirements	☐ Water Disposal	<b>▼</b> COM	□ Unit	

## SEE ORIGINAL COA FOR ALL OTHER REQUIREMENTS.

#### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated **AT SPUD**. As a result, the Hydrogen Sulfide area must meet **title 43 CFR 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

### B. CASING DESIGN

- 1. The 20 inch surface casing shall be set at approximately 665 ft. (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. If Salt is encountered, set casing at least 25 ft. above the Salt.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

- completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <u>hours</u> or <u>500</u> psi compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 13-3/8 inch 1<sup>st</sup> intermediate casing shall be set at approximately 1,650 feet. The minimum required fill of cement behind the 13-3/8 inch intermediate casing is:

<u>Option 1 (Single Stage):</u> Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst and Capitan Reef**.

<u>Option 2 (Two-stage):</u> Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or Capitan reef.

**Note:** Excess cement volume is below the CFO's recommendation. More cement might be needed.

- ❖ In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3<sup>rd</sup> casing string must come to surface.
- ❖ In <u>Capitan Reef Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3<sup>rd</sup> casing string must come to surface.

## **Special Capitan Reef requirements:**

- Estimated **Capitan reef top** for the proposed well is approximately at **1,710 ft.** Use freshwater mud to protect the Capitan Reef formation.
- If circulation loss (50% or greater) occurs while drilling Capitan reef, daily drilling reports from the drill out the 1<sup>st</sup> intermediate casing shoe to the setting of the 2<sup>nd</sup> intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is

to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

**3.** The **9-5/8** inch 2<sup>nd</sup> intermediate casing shall be set at approximately **3,992** ft. (3,959 ft. TVD). The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

<u>Option 1 (Single Stage):</u> Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst and Capitan reef**.

<u>Option 2 (Two-stage):</u> Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- c. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- d. Second stage above DV tool:
  - **Cement to surface.** If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst and Capitan reef**.

**Note:** Excess cement volume is below the CFO's recommendation. More cement might be needed.

- **4.** Operator has proposed to set 5-1/2" production casing at approximately **21,213 ft.** (8,575 ft. TVD). The minimum required fill of cement behind the **5-1/2 in.** production casing is:
  - Cement should tie-back **at least 50 feet** above the Capitan reef top. Operator shall provide method of verification.

## C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed to use a 13-3/8" SOW multi-bowl wellhead assembly on the 1<sup>st</sup> intermediate string after cutting off 20" SOW wellhead. The assembly will be tested once installed. Minimum working pressure of the BOP/BOPE required for drilling below the surface casing shall be 2000 (2M) psi. A Diverter system along with a 2000

(2M) psi annular preventer is approved to be used when drilling the 17.5-inch hole. Before drilling out the surface casing shoe, annular preventer shall be tested in accordance with **title 43 CFR 3172** and **API Standard 53.** 

Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 1<sup>st</sup> intermediate casing shoe shall be **5000** (**5M**) **psi**. Before drilling out the 1<sup>st</sup> intermediate casing shoe, the BOP/BOPE and annular preventer shall be pressure-tested in accordance with **title 43 CFR 3172** and **API Standard 53**.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

## BOPE Break Testing Variance (Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per title 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

## **Offline Cementing**

Offline cementing variance is approved for surface and intermediate casings only. Contact the BLM prior to the commencement of any offline cementing procedure.

## D. SPECIAL REQUIREMENT (S)

## **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

## GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - **⊠** Eddy County

**EMAIL** or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

**BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV** (575) 361-2822

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per title 43 CFR 3172
    - as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

## A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The

- casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

## **B. PRESSURE CONTROL**

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in the **title 43 CFR 3172** and **API STD 53 Sec. 5.3**.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for

- review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in the title 43 CFR 3172.6(b)(9) must be followed.
  - e. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
  - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester

to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000-psi chart for a 5M BOP/BOPE and on a 15000-psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two-hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

### C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

## D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crewintensive operations.

#### SA 04/10/2024

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 Prione: (5/5) /48-1283 Fax: (5/5) /48-9/20 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

**FORM C-102** Revised August 1, 2011 Submit one copy to appropriate **District Office** 

X AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

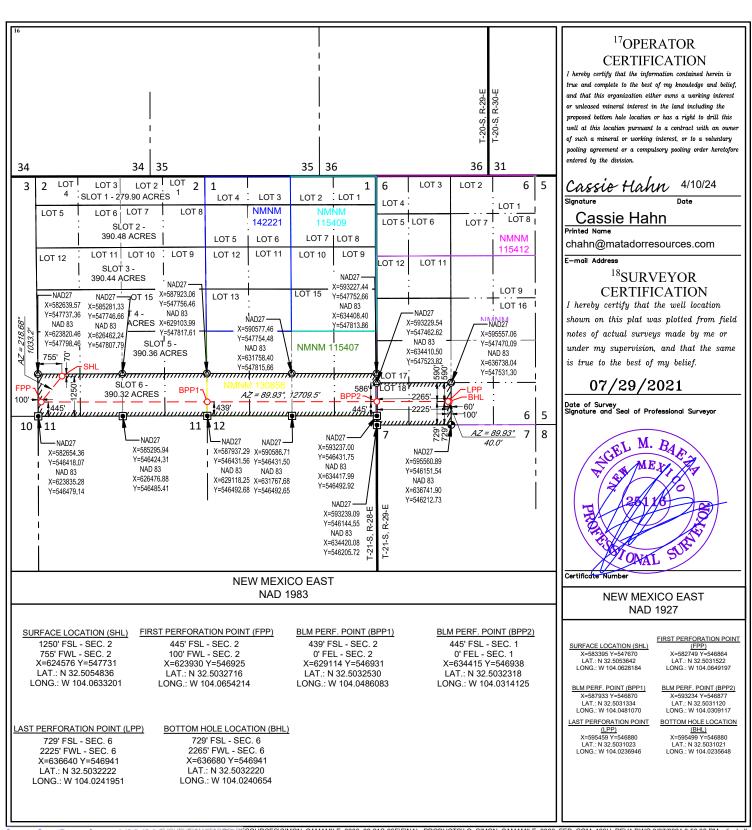
<sup>1</sup> API Number	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name			
30-025-	97995	97995 WC-015 G-05 S202935P; B0			
<sup>4</sup> Property Code	<sup>5</sup> P1	roperty Name	<sup>6</sup> Well Number		
	SIMON CAMAMILE 0206 FED COM				
<sup>7</sup> OGRID No.	<sup>8</sup> O	<sup>8</sup> Operator Name			
7377 MATADOR PRODUCTION COMPANY			3347'		
<sup>10</sup> Surface Location					
UL or lot no. Section Township	Range Lot Idn Feet	from the North/South line Feet from	n the East/West line County		

2 SOUTH WEST **EDDY** M 21-S 28-E 1250' 755'

<sup>11</sup>Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	6	21-S	29-E	-	729'	SOUTH	2265'	WEST	EDDY
<sup>12</sup> Dedicated Acres 390.32	<sup>13</sup> Joint or I	nfill <sup>14</sup> Co	nsolidation Cod	le <sup>15</sup> Ordo	er No.		•		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



9:46:15 AM

19

DISTANCE & DIRECTION

FROM INT. OF HWY-285, & US-180 E/US-62 E HEAD EAST ON US-180

E/US-62 E ±11.9 MILES, THENCE SOUTH (RIGHT) ON A LEASE RD

±0.7 MILES, THENCE SOUTHWEST (RIGHT) ON A PROPOSED RD

±85 FEET TO A POINT ±479 FEET NORTHEAST OF THE LOCATION.

- CALCULATED

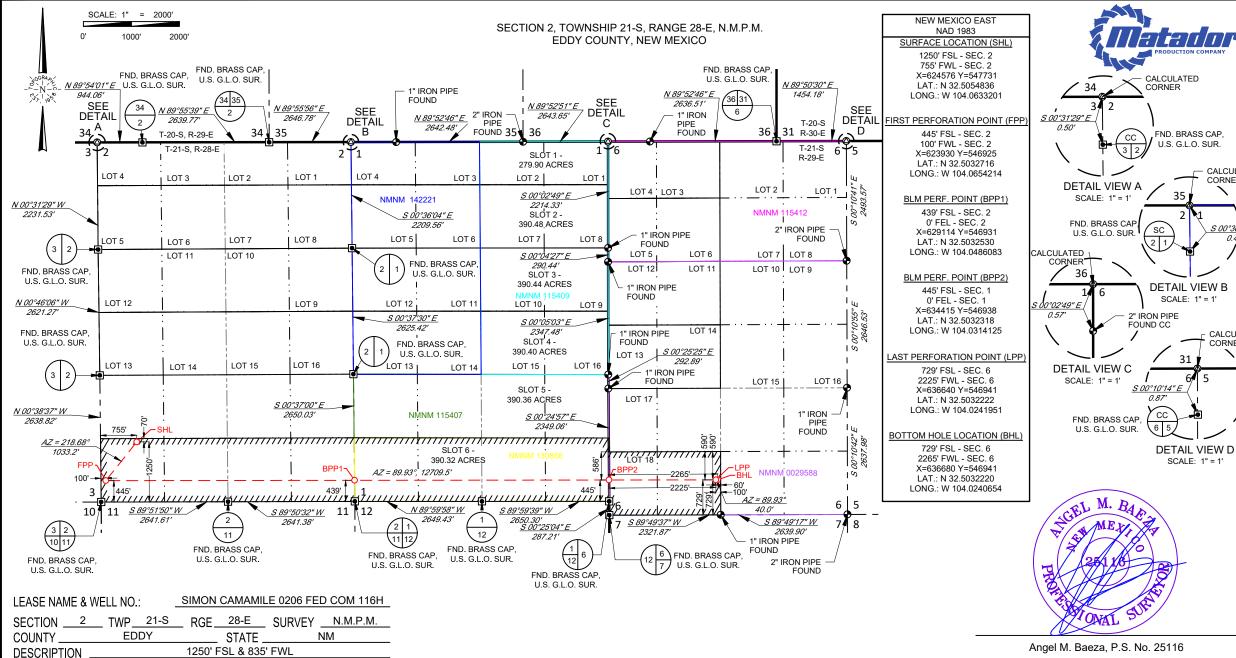
S 00°36'04" E

0.48'

CALCULATED

CORNER

CORNER



March 11, 2024



481 WINNSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554 TEXAS FIRM REGISTRATION NO. 10042504 WWW TOPOGRAPHIC COM

ALL BEARINGS. DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON

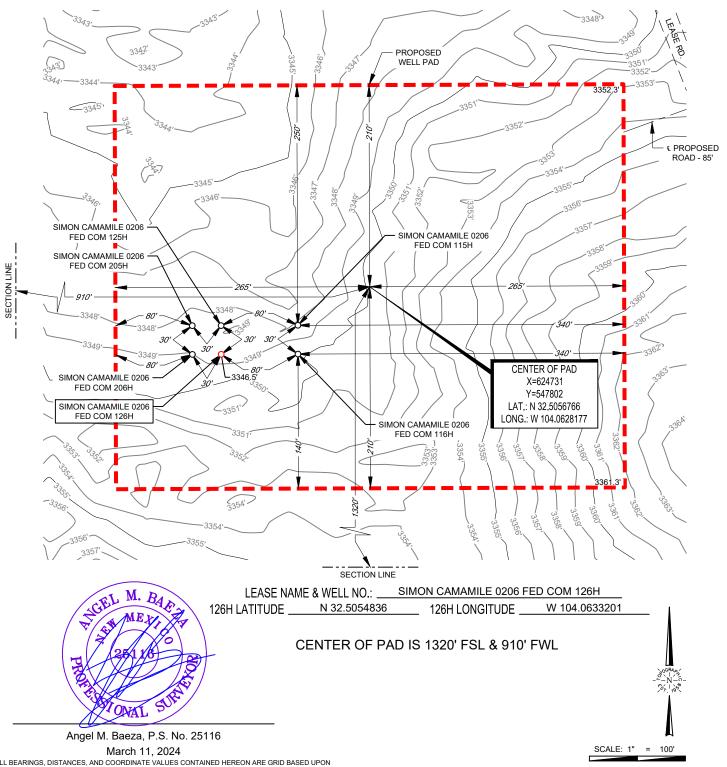
## LEGEND --- SECTION LINE - PROPOSED ROAD

ROAD WAY



SECTION 2, TOWNSHIP 21-S, RANGE 28-E, N.M.P.M. EDDY COUNTY, NEW MEXICO

DETAIL VIEW SCALE: 1" = 100'



ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

481 WINNSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554 TEXAS FIRM REGISTRATION NO. 10042504 WWW.TOPOGRAPHIC.COM

## **Modified BOP Testing Procedure for Batch Drilling**

Simon Camamile 0206 Fed Com 126H

SHL: 1250' FSL & 755' FWL Section 2

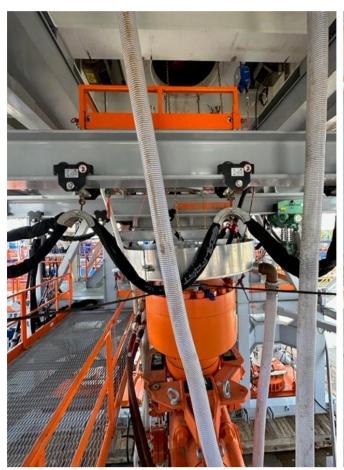
Elevation Above Sea Level: 3347'

Matador Production Company requests a variance to allow break testing the Blowout Preventer Equipment (BOPE) as prudent in batch drilling operations. Matador requests a variance from 43 CFR 3172.6(b)(9)(iv)(C) to only test broken pressure seals on the BOPE during batch (skid) drilling operations with multiple wells on the same pad.

#### **Justification**

The Bureau of Land Management began issuing and revising Onshore Orders pertaining the exploration and development of oil and gas operations on federal onshore and Indian leases in 1983. These orders were later published in 1988, specifically OOGO No. 2 "Drilling Operations on Federal and Indian Oil and Gas Leases" was published November 18, 1988, and has since been the governing standard for over 30 years. This order was later codified in 43 CFR Subpart 3172 on June 16, 2023 with no substantive changes to the content. During which time, the oil and gas industry has seen significant advancements in technology and processes that facilitate safer and more efficient operations, some of those being improvements in rig and wellhead design. The improvements in rig design allow for the BOP stack to remain connected and intact while skidding and the changes in wellhead design complement this feature by utilizing quick connects from BOP to wellhead. The combination of these technologies allow for the rig to skid to the next well while only breaking two pressure sealing connections.

American Petroleum Institute (API) standards, specifications and recommended practices are considered an industry standard and are commonly referenced in 43 CFR 3172 and routinely used in APD COA's. API Standard 53 "Well Control Equipment Systems for Drilling Wells" recognizes break testing as an acceptable practice during batch drilling operations, specifically in API Std 53 Section 5.3.7.1.





Figures 1 & 2: BOP winch system picture with walking capabilities.

## **Modified BOP Testing Procedure for Batch Drilling**

With these enhancements to operations, Matador Production Company believes that break testing during batch drilling operations meets, and in most cases, exceeds the BLM's intent of 43 CFR 3172.6(b)(9)(iv)(C).

This variance request will be referenced and attached in all APDs seeking approval for break testing and will receive approval prior to implementing this variance.

#### Procedure

- 1. Matador Production Company will follow the below guidelines prior to implementing break testing variance:
  - a. A full BOP test will be conducted on the first well on the pad.
    - Full BOP test will be conducted every 21 days per API Std 53, which is above 43 CFR 3172.6(b)(9)(iv)(D) 30 day requirement.
    - ii. Annular type preventers tested to 70% RWP per API Std 53, which is above 43 CFR 3172.6(b)(9)(iii) 50% requirement.
    - iii. Full BOP test will be conducted prior to drilling out any production hole sections.
  - b. The deepest first intermediate hole section will be drilled first.
    - i. All subsequent intermediate hole sections will be at same depth or shallower.
    - The calculated maximum anticipated surface pressure (MASP) for intermediate hole section will be below 4500 psi.
    - iii. If any well control events are encountered, a full BOP test will be performed on subsequent well.
- 2. After performing a full BOP test on first well, the intermediate hole section will be drilled and cased per design, two breaks will be made on the BOP equipment:
  - a. One between the BOP quick connect adapter and wellhead.
  - b. One between the HCR valve and choke line connection.
- 3. Following that, the BOP will be lifted up from the wellhead using a hydraulic or winch system. The two connections will be broken as seen in **Figure 3.**
- Once skidding to subsequent well is complete, the BOP will be installed on wellhead and the HCR-to-Choke line break will be reconnected.
- 5. The test plug will then be installed into wellhead.
- 6. A shell test will then be performed, testing both connections broken as seen in Figure 4.
  - a. The test will consist of a 250 psi low test and a high test equal to the BOP rating value submitted in the APD and as approved in COAs.
  - a. Break test procedure is the same for both 5M and 10M systems, only test pressures change.
- 7. Following a successful shell test, a function test of the lower pipe rams, blind rams, and annular preventer will be performed.
- 8. For multi-well pads, the same procedure will be followed for subsequent wells only if the next intermediate hole section can be drilled and cased with the 21-day BOP test window. If unable to be drilled in that time, a full BOP test will be performed.

## **Modified BOP Testing Procedure for Batch Drilling**

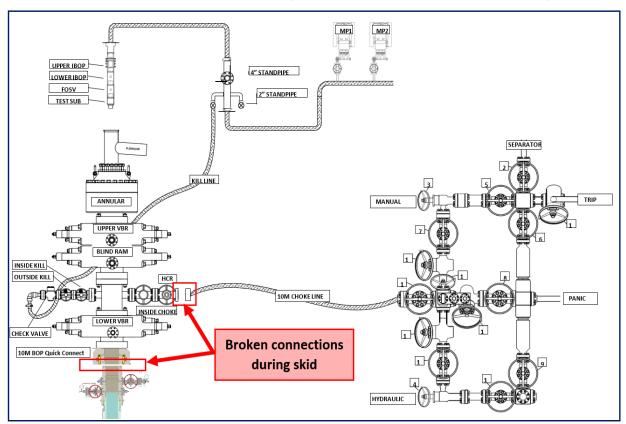


Figure 3: Shows which connections are broken during the skidding process

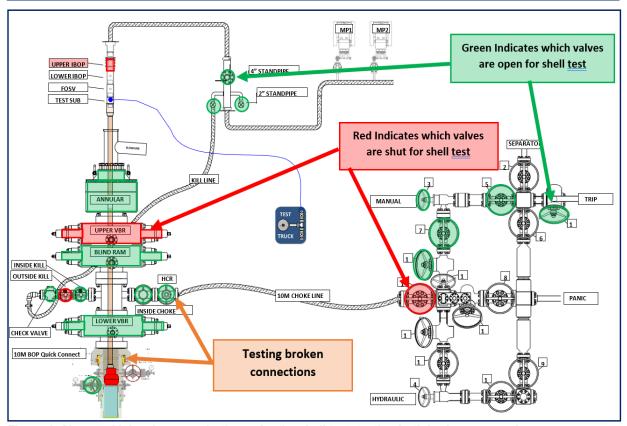


Figure 4: Shows which valves are shut/open for the shell test, testing both broken connections

## **Casing Table Specification Sheet**

Simon Camamile 0206 Fed Com 126H SHL: 1250' FSL & 755' FWL Section 2 BHL: 729' FSL & 2265' FWL Section 6

Township/Range: 21S 28E

**Elevation Above Sea Level: 3347** 

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)		Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 665	0 - 665	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 1650	0 - 1650	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 3992	0 - 3959	8.625	32	P110	Hunting TLW	1.125	1.125	1.8
Production	7.875	0 - 21213	0 - 8575	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

## Casing Specs - 8.625" 32lb Hunting TLW

Simon Camamile 0206 Fed Com 126H SHL: 1250' FSL & 755' FWL Section 2

Township/Range: 21S 28E Elevation Above Sea Level: 3347'



# TEC-LOCK WEDGE 8.625" 32.00 LB/FT (.352"Wall)

AXIS P110 HC

## **Pipe Body Data**

<u> </u>			
ı	Nominal OD:	8.625	in
ı	Nominal Wall:	.352	in
ı	Nominal Weight:	32.00	lb/ft
ı	Plain End Weight:	31.13	lb/ft
ı	Material Grade:	P110 HC	
ı	Mill/Specification:	AXIS	
ı	Yield Strength:	110,000	psi
ı	Tensile Strength:	125,000	psi
ı	Nominal ID:	7.921	in
ı	API Drift Diameter:	7.796	in
J	Special Drift Diameter:	None	in
1	RBW:	87.5 %	
ı	Body Yield:	1,006,000	lbf
ı	Burst:	7,860	psi
ı	Collapse:	4,170	psi
п		•	<u> </u>

## **Connection Data**

Standard OD:	9.000	in
Pin Bored ID:	7.921	in
Critical Section Area:	8.614	in²
Tensile Efficiency:	94.2 %	
Compressive Efficiency:	98.5 %	
Longitudinal Yield Strength:	948,000	lbf
Compressive Limit:	991,000	lbf
Internal Pressure Rating:	7,860	psi
External Pressure Rating:	4,170	psi
Maximum Bend:	55.1	°/100ft

## **Operational Data**

•			
Minimum Makeup Torque:	26,900	ft*lbf	
Optimum Makeup Torque:	33,600	ft*lbf	
Maximum Makeup Torque:	74,300	ft*lbf	
Minimum Yield:	82,600	ft*lbf	
Makeup Loss:	5.97	in	

Notes Operational Torque is equivalent to the Maximum Make-Up Torque

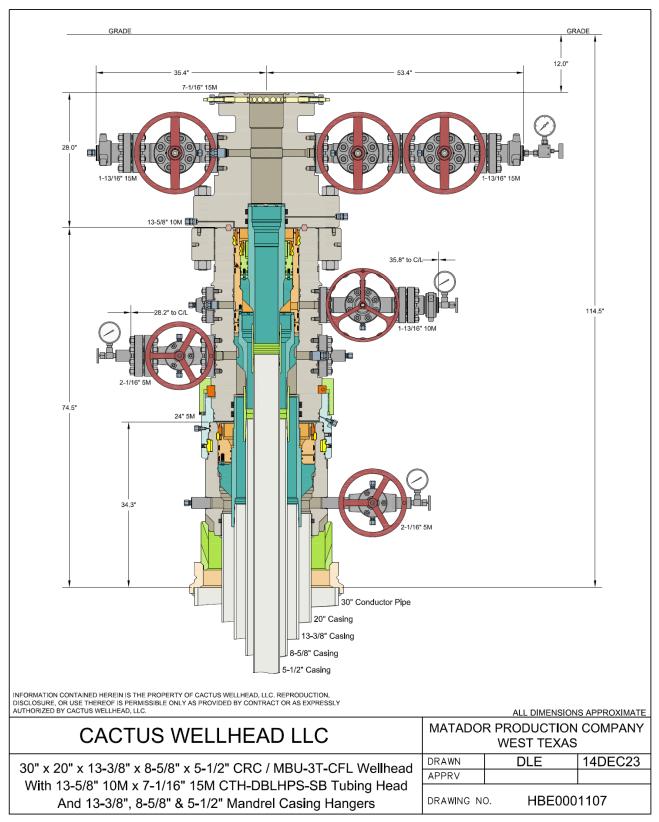


Generated on 7/26/2022

## 4-String Wellhead Diagram

Simon Camamile 0206 Fed Com 126H SHL: 1250' FSL & 755' FWL Section 2

Township/Range: 21S 28E Elevation Above Sea Level: 3347'



Simon Camamile 0206 Fed Com 126H Township/Range: 21S 28E SHL: 1250' FSL & 755' FWL Section 2 Elevation Above Sea Level: 3347'

## POWERITACK CERTIFICATE OF QUALITY LTYY/QR-5.7.1-19B №: LT2024-029-002 Customer Name Austin Hose Product Name Choke And Kill Hose **Product Specification** 3"×10000psi×11.08ft (3.38m) Quantity 2PCS Serial Number 7660215、7660216 **FSL** FSL3 -29℃~+121℃ Standard API Spec 16C 3rd edition Temperature Range Inspection Department Q.C. Department Inspection date 2024.02.20 Inspection Items Inspection results In accordance with API Spec 16C 3rd edition Appearance Checking Size and Lengths In accordance with API Spec 16C 3rd edition Dimensions and Tolerances In accordance with API Spec 16C 3rd edition End Connections: 4-1/16"×10000psi Integral flange for sour gas service In accordance with API Spec 6A 21st edition In accordance with API Spec 17D 3rd edition End Connections: 4-1/16"×10000psi Integral flange for sour gas service Hydrostatic Testing In accordance with API Spec 16C 3rd edition product Marking In accordance with API Spec 16C 3rd edition The inspected items meet standard requirements of API Spec 16C 3rd edition Inspection conclusion Remarks

Alice D

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

Auditor

Jane C

Inspector

Leo W

Approver

## POWERITACK! HYDROSTATIC TESTING REPORT LTYY/QR-5.7.1-28 №: <u>240220001</u> **Product Name** Choke And Kill Hose Standard API Spec 16C 3rd edition **Product Specification** 3"×10000psi×11.08ft (3.38m) Serial Number 7660215 MTU-BS-1600-3200-E Test medium Water Inspection Equipment Inspection Department Q.C. Department Inspection Date 2024.02.20 Rate of length change Standard requirements At working pressure, the rate of length change should not more than 65 mm (2½ in..)+ 0.01 L Testing result 10000psi (69.0MPa) ,length change 7mm Hydrostatic testing At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, Standard requirements the second pressure-holding period of not less than one hour, no leaks. Testing result 15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage Graph of pressure testing: 60-20-10/23/17 10/24/07 10/24/57 10/25/47 10/26/37 10/27/27 10/28/17 10/29/07 10/29/57 10/30/47 10/31/37 10/32/27 10/33/17 10/34/07 10/34/ 123215 1237:15 1242:15 1247:15 1252:15 1257:15 13:02:15 13:02:15 13:12:15 13:12:15 13:22:15 13:27:15 13:22:15 Conclusion The inspected items meet standard requirements of API Spec 16C 3<sup>rd</sup> edition Leo W Alace D Jane C Approver Auditor Inspector **(5)** LETONE LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

## POWERITACK HYDROSTATIC TESTING REPORT LTYY/QR-5.7.1-28 №: 240220002 Choke And Kill Hose **Product Name** Standard API Spec 16C 3rd edition **Product Specification** 3"×10000psi×11.08ft (3.38m) Serial Number 7660216 Inspection Equipment MTU-BS-1600-3200-E Test medium Water 2024.02.19 Inspection Department Q.C. Department Inspection Date Rate of length change At working pressure, the rate of length change should not more than 65 mm (2½ in..)+ 0.01 L Standard requirements Testing result 10000psi (69.0MPa) ,length change 8mm Hydrostatic testing At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, Standard requirements the second pressure-holding period of not less than one hour, no leaks. 15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage Testing result Graph of pressure testing: 14:36:53 14:37:43 14:38: 14:39:46 14:44:46 143936 145446 145936 15:0446 15:0936 15:1436 15:1936 15:2436 15:2946 15:3436 15:3946 15:344 Conclusion The inspected items meet standard requirements of API Spec 16C 3rd edition Alice D Leo W Jane C Approver Auditor Inspector **(5)** LETONE LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

## POWERITACK

#### CERTIFICATE OF CONFORMANCE

№:LT240220003

Product Name: Choke And Kill Hose

Product Specification: 3"×10000psi×11.08ft (3.38m)

Serial Number: 7660215, 7660216

End Connections: 4-1/16"×10000psi Integral flange for sour gas service

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD.in Feb, 2024, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3<sup>rd</sup> edition on Feb 20, 2024. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3<sup>rd</sup> edition.

QC Manager:

Date:Feb 20, 2024

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD



## **Offline Cementing - Intermediate Casing**

Simon Camamile 0206 Fed Com 126H SHL: 1250' FSL & 755' FWL Section 2

Township/Range: 21S 28E Elevation Above Sea Level: 3347'

Matador Production Company requests the option to cement the intermediate casing string offline as a prudent batch drilling efficiency of acreage development.

#### **Cement Program**

No changes to the cement program will take place for offline cementing.

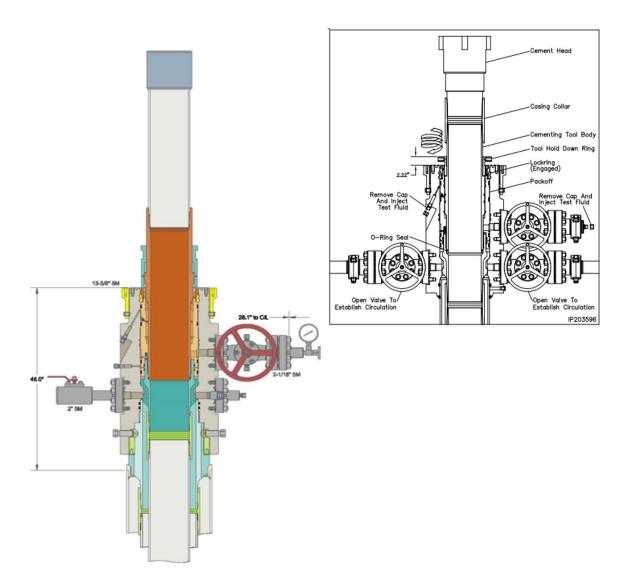
#### Offline Cementing Procedure

The operational sequence will be as follows. Well must meet the below requirements to be a candidate for offline cementing, if wellbore conditions change, BLM will be notified.

- No noticeable wellbore instability.
- Casing installed successfully with no issues.
- No observed shallow gas or other anomalies
- Intermediate hole section must have a MASP of 5,000 psi or lower.
- 1. Run casing as per normal operations. While running casing, confirm integrity of the float equipment (float collar and shoe).
- 2. Land Intermediate casing with fluted mandrel hanger through BOP stack.
- 3. Remove the landing joint and set packoff through BOP. Pressure test seals to 5,000 psi for 10 minutes. After the test, engage the lockring.
- 4. Notify the BLM 4 hours prior to N/D BOP and offline cementing. Confirm the following barriers are operational:
  - a. Inside Casing: 2 float valves and mud weight sufficient to hold back pore pressure
  - b. Annulus (outside) Casing: Packoff and mud weight sufficient to hold back pore pressure
- 5. Once the well is secure and BLM has been notified, proceed with nippling down BOP and installing cap flange.
- 6. Skid rig to the next well on the pad.
- 7. Rig up lines to take returns from wellhead through the cement choke manifold to the pits.
- 8. Attach a test pump with manifold to the open fitting and pump clean fluid until a stable test pressure of 5,000 psi is achieved. Hold pressure for 15 minutes. After a satisfactory test, bleed off test pressure, remove test pump and reinstall cap flange on the open fitting.
- 9. Attach the test pump to the upper outlet valve and pressure up the void area between the upper and lowermost O-rings until a stable test pressure of 5,000 psi is achieved. After a satisfactory test, bleed off all test pressure and leave the upper valve in the open position.
- 10. Place a mark across the top of the wellhead to monitor possible rotation of the tool during the cement job.
- 11. Install the casing hanger/packoff offline cementing tool. Rig up cement head and cementing lines. Pressure test lines against the cement head as per cement procedure.
- 12. Break circulation on well to confirm no restrictions. If shallow gas is encountered, shut in the well and reroute returns through the gas buster.
  - a. Max anticipated time before circulating with cement truck is 24 hours.
- 13. Establish circulation and cement casing as per plan, taking returns through the two 2-1/16" 5M gate valves on the housing lower outlets. At plug bump, pressure test casing to 0.22 psi/ft per foot of casing string length or 1,500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield.
- With cement in place, confirm well is static and floats are holding. Bleed off the cement pressure and remove cement head.
- 15. Remove the casing hanger/packoff offline cementing tool.
- 16. Install TA cap with pressure gauge for monitoring.

## Offline Cementing - Intermediate Casing

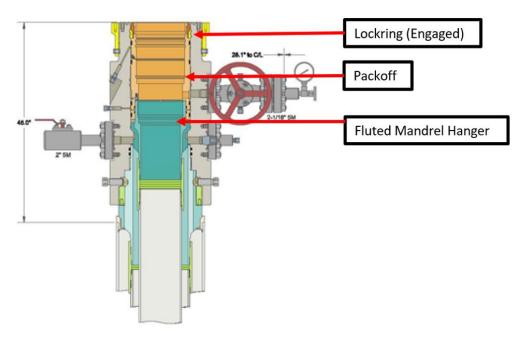
Figure 1: Cactus Offline Cementing Tool Schematic (5M tool)



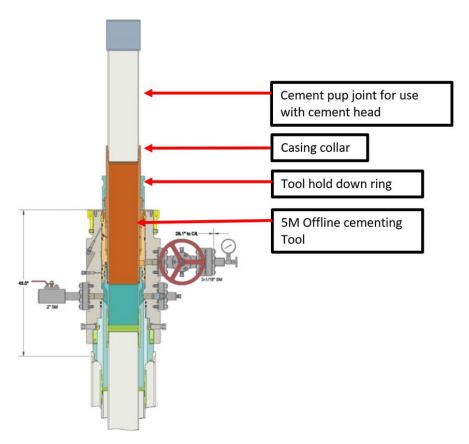
## Offline Cementing - Intermediate Casing

### Figure 2: Step-by-Step schematics procedure

**Step 1:** Landing the mandrel hanger and setting the packoff. The well is sealed with mud, two float valves, and packoff.



**Step 2:** Install casing hanger/packoff offline cementing tool.



## Offline Cementing - Intermediate Casing

Step 3: Install TA cap with pressure gauge for monitoring.

TA Cap Assembly

Install new ring gasket

### Offline Cementing - Surface Casing

Simon Camamile 0206 Fed Com 126H

SHL: 1250' FSL & 755' FWL Section 2

Elevation Above Sea Level: 3347'

Matador Production Company requests the option to cement the surface casing string offline as a prudent batch drilling efficiency of acreage development.

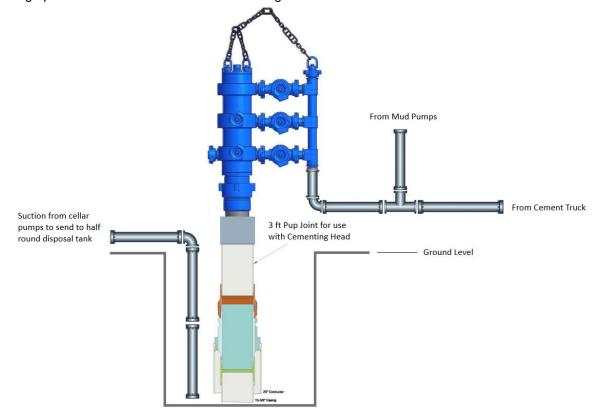
#### **Cement Program**

No changes to the cement program will take place for offline cementing.

#### Offline Cementing Procedure

The operational sequence will be as follows. Well must meet the below requirements to be a candidate for offline cementing, if wellbore conditions change, BLM will be notified.

- No noticeable wellbore instability.
- Casing installed successfully with no issues.
- No observed shallow gas or other anomalies
- 1. Run casing as per normal operations. While running casing, conduct a negative pressure test and confirm integrity of the float equipment (float collar and shoe).
- 2. Land casing with mandrel.
- 3. Nipple down BOP and install cap flange.
- 4. Skid rig to the next well on the pad.
- 5. Rig up on the well in accordance with the diagram shown below.



- 6. Circulate bottoms up with cement truck.
  - Max anticipated time before circulating with cement truck is 24 hours.
- 7. Perform cement job, taking returns in the cellar.
- 8. Confirm well is static and floats are holding following the cement job.
- 9. Remove cement equipment and install night cap with pressure gauge for monitoring.

# **Matador Production Company**

Ranger/Arrowhead
Simon Camamile Fed Com
Simon Camamile Fed Com #126H

Wellbore #1 BLM Plan #1

# **Anticollision Report**

28 March, 2024

**TVD Reference:** 

MD Reference:

Company: Matador Production Company

Project: Ranger/Arrowhead

Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft

Reference Wellbore Wellbore #1

Reference Design: BLM Plan #1 Local Co-ordinate Reference:

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft

KB @ 3377.5usft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Offset TVD Reference: Offset Datum

Reference BLM Plan #1

Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method: Stations Error Model: **ISCWSA** 

Depth Range: Unlimited Scan Method: Closest Approach 3D Maximum center-center distance of 10,000.0 usft Results Limited by: **Error Surface:** Pedal Curve

Warning Levels Evaluated at: 2.00 Sigma Casing Method: Not applied

Date 3/28/2024 Survey Tool Program

> From То

(usft) (usft) Survey (Wellbore) **Tool Name** Description

21,213.6 BLM Plan #1 (Wellbore #1) MWD OWSG MWD - Standard 0.0

mmary						
	Reference	Offset	Dista	nce		
Ov. No.	Measured	Measured	Between	Between	Separation	Warning
Site Name Offset Well - Wellbore - Design	Depth (usft)	Depth (usft)	Centres (usft)	Ellipses (usft)	Factor	
Simon Camamile Fed Com	10.0.0	100.07				
Simon Camamile Fed Com #113H - BLM Plan #1 - BLM	1.000.0	962.0	2,330.9	2.324.3	354.638	CC. ES
Simon Camamile Fed Com #113H - BLM Plan #1 - BLM	21,213.6	20.039.0	4,053.8	3.443.8	6.645	SF
Simon Camamile Fed Com #114H - Wellbore #1 - BLM P	1,000.0	962.0	2,245.9	2,239.3	341.706	CC
Simon Camamile Fed Com #114H - Wellbore #1 - BLM P	21,212.5	20,014.1	2,773.7	2,178.9	4.663	ES, SF
Simon Camamile Fed Com #116H - Wellbore #1 - BLM P	3,419.3	3,433.3	38.6	11.9	1.445	Level 3, CC
Simon Camamile Fed Com #116H - Wellbore #1 - BLM P	7,300.0	7,339.7	60.2	1.6	1.028	Level 2, ES, SF
Simon Camamile Fed Com #125H - Wellbore #1 - BLM P	1,000.0	1,001.0	29.9	23.2	4.450	CC, ES
Simon Camamile Fed Com #125H - Wellbore #1 - BLM P	21,213.6	21,212.2	1,320.0	701.5	2.134	SF
Simon Camamile Fed Com #134H - Wellbore #1 - BLM P	1,000.0	964.0	2,224.5	2,217.9	338.087	CC, ES
Simon Camamile Fed Com #134H - Wellbore #1 - BLM P	21,213.6	22,118.4	3,483.9	2,890.3	5.870	SF
Simon Camamile Fed Com #135H - Wellbore #1 - BLM P	7,301.4	7,500.0	1,963.2	1,907.9	35.495	CC
Simon Camamile Fed Com #135H - Wellbore #1 - BLM P	21,213.6	22,180.4	2,277.7	1,725.7	4.126	ES, SF
Simon Camamile Fed Com #136H - Wellbore #1 - BLM P	1,000.0	1,001.0	85.4	78.7	12.724	CC, ES
Simon Camamile Fed Com #136H - Wellbore #1 - BLM P	21,213.6	22,185.2	1,289.1	927.4	3.564	SF
Simon Camamile Fed Com #203H - Wellbore #1 - Actua	100.0	58.2	2,359.7	2,359.5	10,000.000	CC
Simon Camamile Fed Com #203H - Wellbore #1 - Actua	200.0	152.1	2,360.0	2,359.3	3,278.013	ES
Simon Camamile Fed Com #203H - Wellbore #1 - Actua	21,213.6	22,176.0	4,191.9	3,606.3	7.159	SF
Simon Camamile Fed Com #204H - Wellbore #1 - Actua	476.6	438.8	2,351.9	2,349.2	868.874	CC
Simon Camamile Fed Com #204H - Wellbore #1 - Actua	500.0	448.0	2,352.0	2,349.2	832.776	ES
Simon Camamile Fed Com #204H - Wellbore #1 - Actua	21,213.6	22,261.0	3,003.4	2,445.8	5.386	SF
Simon Camamile Fed Com #205H - Wellbore #1 - BLM P	1,000.0	1,001.0	42.3	35.6	6.300	CC
Simon Camamile Fed Com #205H - Wellbore #1 - BLM P	1,100.0	1,101.0	42.5	35.1	5.732	ES
Simon Camamile Fed Com #205H - Wellbore #1 - BLM P	21,213.6	22,452.8	1,936.0	1,489.3	4.334	SF
Simon Camamile Fed Com #206H - Wellbore #1 - Actua	2,306.6	2,302.7	17.4	1.1	1.064	Level 2, CC, ES, SF
Simon Camamile Fed Com #224H - Wellbore #1 - BLM P	1,000.0	961.0	2,323.3	2,316.8	353.684	CC, ES
Simon Camamile Fed Com #224H - Wellbore #1 - BLM P	21,213.6	22,472.9	3,644.9	3,074.5	6.390	SF
Simon Camamile Fed Com #225H - Wellbore #1 - BLM P	8,505.0	8,552.9	2,075.8	2,013.1	33.112	CC, ES
Simon Camamile Fed Com #225H - Wellbore #1 - BLM P	21,213.6	22,554.9	2,538.5	2,034.6	5.037	SF

Offset De	sign	Simon	Camamile	Fed Com -	Simon (	Camamile Fe	d Com #113	3H - BLM Pla	an #1 - BLM	Plan #1			Offset Site Error:	0.0 usft
Survey Prog	ram: 0-N	MMD											Offset Well Error:	0.0 usft
Refer	ence	Offs	et	Semi Majo	r Axis				Dist	ance				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Well	lbore Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft
MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

	Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #113H	- BLM Plan	#1 - BLM	Plan #1			Offset Site Error:	0.0 usft
														Offset Well Error:	0.0 usft
Page					-		Higheida	Offeet Wellhou	o Contro			Minimum	Sonaration	Wassels a	
100	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		warning	
Tool		0.0	0.0												
March   Marc											2,330.7	0.21	N/A		
March   Marc													2,784.703		
500   500   502   502   18	300.0	300.0	262.0	262.0	0.8	0.7	-15.22	2,249.1	-612.0	2,330.9	2,329.3	1.55	1,499.950		
100.0   100.0   602.0   662.0   1.9   1.8   1.5.22   2.246.1   612.0   2.350.9   2.337.2   3.70   629.152	400.0	400.0	362.0	362.0	1.2	1.1	-15.22	2,249.1	-612.0	2,330.9	2,328.6	2.27	1,026.406		
Total	500.0	500.0	462.0	462.0	1.6	1.4	-15.22	2,249.1	-612.0	2,330.9	2,327.9	2.99	780.118		
Mathematics	600.0	600.0	562.0	562.0	1.9	1.8	-15.22	2,249.1	-612.0	2,330.9	2,327.2	3.70	629.152		
900 0 900 0 900 802 0 802 0 802 0 30 29 -1522 22491 4-120 23391 2230 588 8088   1,000 1,000 1,002 0 1,002 0 1,002 0 3.7 3.6 1239 22491 4-120 23392 22481 7,77 30483 C,ES   1,100 1,100 1,100 1,002 0 1,002 0 3.7 3.6 1239 22491 4-120 23352 2324 2,78 7,97 203224   1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,10	700.0	700.0	662.0	662.0	2.3	2.1	-15.22	2,249.1	-612.0	2,330.9	2,326.5	4.42	527.141		
1,000															
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1,200	1,000.0	1,000.0	962.0	962.0	3.4	3.2	-15.22	2,249.1	-612.0	2,330.9	2,324.3	6.57	354.638	CC, ES	
1,200	1,100.0	1,100.0	1,062.0	1,062.0	3.7	3.6	123.99	2,249.1	-612.0	2,332.1	2,324.8	7.27	320.599		
1,370   1,370   1,2596   1,2595   4,66   4,3   123.99   2,2500   4912   2,484,9   2,341.0   8,91   283.667	1,200.0	1,199.7	1,161.7	1,161.7	4.0	3.9	124.04	2,249.1	-612.0	2,335.8	2,327.8	7.97	293.224		
1.4000   1.3980   1.271.9   1.271.9   1.271.9   4.7   4.3   124.03   2.250.5   40.12   2.353.4   2.344.4   9.08   229.868   1.5000   1.496.7   1.3000   1.300.0   5.1   4.4   124.12   2.251.7   4612.3   2.367.6   2.358.1   9.51   2.49.003   1.600.0   1.596.4   1.359.6   1.359.4   5.5   4.6   124.33   2.255.7   4.612.9   2.383.8   2.373.7   10.08   228.504   1.700.0   1.894.1   1.400.0   1.399.6   5.9   4.8   124.47   2.299.6   4.8   12.42.2   2.251.7   4.12.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2   2.201.2					4.4										
1,500.0 1,496.7 1,300.0 13.00.0 5.1 4.4 124.12 2,251.7 46123 2,367.6 2,358.1 9.51 249.003 1,500.0 1,895.4 1,396.6 13.594.6 5.5 4.6 124.33 2,255.7 4612.9 2,383.8 2,373.7 10.08 236.504 1,700.0 1,891.1 1,400.0 13.996.6 5.9 4.8 124.47 2,259.5 4615.2 2,402.5 2,319.1 10.58 227.151 1,800.0 1,792.7 1,445.7 1,445.0 6.3 5.0 124.63 2,247.4 4615.2 2,423.4 2,412.3 11.00 218.478 1,900.0 1,891.4 1,500.0 1,498.8 6.7 5.2 124.82 2,272.4 4615.2 2,423.4 2,412.3 11.00 218.478 1,200.0 1,891.1 1,533.3 1,531.6 7.1 5.3 124.94 2,227.8 4616.2 2,471.9 2,459.8 12.09 204.401 2,100.0 2,088.8 1,621.0 1,817.9 7.5 5.6 125.25 2,202.9 481.4 2,488.5 2,485.7 12.78 195.43 2,200.0 2,197.5 1,716.3 1,711.8 7.9 6.0 125.57 2,309.3 4.00.8 2,255.9 2,517.7 13.0 187.006 2,200.0 2,288.2 1,811.7 1,805.7 8.3 6.3 125.89 2,325.6 422.2 2,551.9 2,537.7 14.23 179.321 2,400.0 2,388.5 2,002.4 1,893.5 9.2 7.1 128.51 2,342.0 425.6 2,578.8 2,553.8 149.6 172.355 2,500.0 2,483.5 2,002.4 1,893.5 9.2 7.1 128.51 2,359.4 4.02.9 2,578.8 2,553.8 164.5 160.59 2,500.0 2,483.5 2,002.4 1,893.5 9.2 7.1 128.51 2,359.4 4.02.9 2,605.7 2,578.8 2,553.8 16.45 160.59 2,500.0 2,483.5 2,002.4 1,893.5 9.2 7.1 128.51 2,359.4 4.02.9 2,605.7 2,578.8 2,553.8 16.45 160.59 2,500.0 2,483.5 2,002.4 1,893.5 9.2 7.1 128.51 2,359.4 4.02.9 2,605.7 2,578.8 2,553.8 16.45 160.59 2,500.0 2,483.5 2,002.4 1,893.5 9.2 7.1 128.51 2,359.4 4.02.9 2,605.7 2,578.8 2,553.8 16.45 160.59 2,500.0 2,483.5 2,002.4 1,893.5 9.2 7.1 128.51 2,359.4 4.02.9 2,605.2 2,578.8 2,553.8 16.45 160.59 2,500.0 2,878.3 2,883.8 2,399.1 10.9 8.7 127.69 2,433.9 437.5 2,788.7 2,560.0 17.70 150.038 2,500.0 2,779.6 2,288.4 2,275.2 10.5 8.3 127.40 2,407.6 43.51 2,869.9 2,669.0 17.91 150.038 2,500.0 3,773.0 2,785.2 2,569.9 11.8 9.5 128.24 2,489.7 4,489.9 2,789.7 2,789.5 2,489.5 14.59 2,500.0 3,773.0 2,775.2 2,774.8 1,249.5 2,774.8 1,249.5 2,774.8 1,249.5 2,774.8 1,249.5 2,774.8 1,249.5 2,774.8 1,249.5 2,774.8 1,249.5 2,774.8 1,249.5 2,774.8 1,249.5 2,774.8 1,249.5 2,774.8 1,249.5 2,774.8 1,249.5 2,774.8 1,249.5 2,774.8 1,249.5 2,774.8 1,249.5 2,7															
1,000	1,400.0	1,398.0	1,271.9	1,271.9	4.7	4.3	124.03	2,250.5	-612.2	2,353.4	2,344.4	9.06	259.866		
1,700	1,500.0	1,496.7	1,300.0	1,300.0	5.1	4.4	124.12	2,251.7	-612.3	2,367.6	2,358.1	9.51	249.003		
1,800	1,600.0	1,595.4	1,359.6	1,359.4	5.5	4.6	124.33	2,255.7	-612.9	2,383.8	2,373.7	10.08	236.504		
1,900	1,700.0	1,694.1	1,400.0	1,399.6	5.9	4.8	124.47	2,259.5	-613.5	2,402.5	2,391.9	10.58	227.151		
2000	1,800.0	1,792.7	1,445.7	1,445.0	6.3	5.0	124.63	2,264.7	-614.2	2,423.4	2,412.3	11.09	218.478		
2,100	1,900.0	1,891.4	1,500.0	1,498.8	6.7	5.2	124.82	2,272.4	-615.4	2,446.6	2,434.9	11.64	210.209		
2,000         2,187.5         1,716.3         1,711.8         7.9         6.0         125.67         2,309.3         8,208.2         2,551.9         2,587.7         14.23         179.231           2,400.0         2,384.9         1,907.0         1,899.6         8.8         6.7         128.21         2,342.0         625.6         2,578.8         2,583.8         14.96         172.355           2,500.0         2,483.5         2,002.4         1,993.5         9.2         7.1         126.51         2,382.0         625.6         2,578.8         2,590.0         15.70         166.015           2,500.0         2,582.2         2,102.3         2,087.4         9.6         7.5         126.82         2,374.8         -630.3         2,632.7         2,616.3         16.45         160.069           2,600.0         2,277.6         2,288.4         2,275.2         10.5         8.3         127.40         2,407.6         -635.1         2,689.0         2,642.6         17.2         115.003.8           3,000.0         2,977.0         2,2479.1         2,483.0         11.3         9.1         127.96         2,420.3         -635.1         2,689.8         2,689.0         17.91         150.038           3,000.0         3,273	2,000.0	1,990.1	1,533.3	1,531.6	7.1	5.3	124.94	2,277.8	-616.2	2,471.9	2,459.8	12.09	204.401		
2300.0         2,286.2         1,811.7         1,806.7         8.3         6.3         125.89         2,325.6         -623.2         2,551.9         2,537.7         14.23         179.321           2,400.0         2,384.9         1,907.0         1,899.6         8.8         6.7         126.21         2,342.0         -625.6         2,578.8         2,563.8         14.96         172.355           2,500.0         2,483.5         2,002.4         1,993.5         9.2         7.1         126.51         2,368.4         -627.9         2,680.0         2,682.2         2,102.3         2,067.4         9.6         7.5         126.82         2,374.8         -690.3         2,682.7         2,680.6         17.22         156.455           2,800.0         2,2776.6         2,284.4         2,275.2         10.5         8.3         127.40         2,407.6         -635.7         2,689.8         2,680.0         17.91         190.038           2,900.0         2,878.3         2,383.8         2,369.1         10.9         8.7         127.69         2,423.9         -637.5         2,714.1         2,686.5         18.55         145.539           3,000.0         2,977.0         2,479.1         2,483.0         11.3         9.1         127	2,100.0	2,088.8	1,621.0	1,617.9	7.5	5.6	125.25	2,292.9	-618.4	2,498.5	2,485.7	12.78	195.543		
2,400.0 2,384.9 1,907.0 1,899.6 8.8 6.7 126.21 2,342.0 -625.6 2,578.8 2,563.8 14.96 172.355  2,500.0 2,483.5 2,002.4 1,993.5 9.2 7.1 126.51 2,358.4 -627.9 2,605.7 2,500.0 15.70 166.015 2,500.0 2,582.2 2,102.3 2,087.4 9.6 7.5 126.82 2,374.8 -630.3 2,632.7 2,618.3 16.45 160.059 2,700.0 2,680.9 2,680.9 2,181.3 10.1 8.0 127.11 2,331.2 -632.7 2,659.8 2,624.6 17.2 154.455 2,800.0 2,779.6 2,288.4 2,275.2 10.5 8.3 127.40 2,407.6 -635.1 2,686.9 2,680.0 17.9 1150.038 2,900.0 2,878.3 2,383.8 2,369.1 10.9 8.7 127.69 2,423.9 -637.5 2,714.1 2,695.5 18.65 145.539 3,000.0 2,977.0 2,479.1 2,463.0 11.3 9.1 127.96 2,440.3 -639.7 2,744.1 2,695.5 18.65 145.539 3,000.0 3,075.7 2,574.5 2,566.9 11.8 9.5 128.24 2,466.7 -642.3 2,786.7 2,748.5 20.13 137.622 3,200.0 3,174.3 2,689.8 2,650.8 12.2 9.9 128.50 2,473.1 -644.7 2,786.0 2,775.2 20.88 133.938 3,300.0 3,273.0 2,755.2 2,744.8 12.6 10.3 128.77 2,489.5 -647.1 2,823.5 2,801.8 21.62 130.698 3,400.0 3,371.7 2,865.5 2,838.7 13.1 10.7 129.02 2,505.9 -649.5 2,851.0 2,828.6 22.36 127.480 3,500.0 3,470.4 2,955.9 2,932.6 13.5 11.1 129.28 2,522.2 -651.9 2,878.5 2,855.4 23.11 124.563 3,600.0 3,569.1 3,051.2 3,026.5 14.0 11.6 129.53 2,538.6 -664.3 2,960.1 2,828.6 22.36 127.480 3,500.0 3,676.5 3,241.9 3,214.3 14.8 12.4 130.01 2,571.4 -659.1 2,961.4 2,335.1 2,535 116.842 3,900.0 3,667.8 3,146.6 3,120.4 14.4 12.0 12.977 2,555.0 -656.7 2,933.7 2,900.1 2,828.6 22.35 118.283 3,000.0 3,667.8 3,146.6 3,120.4 14.4 12.0 12.977 2,555.0 -656.7 2,933.7 2,900.1 2,684.1 12.419 4,000.0 4,062.5 3,528.0 3,480.0 16.1 13.6 130.70 2,620.5 -668.3 3,044.7 3,071.2 2,758.1 10.80 4,000.0 4,659.9 3,718.7 3,883.8 17.0 14.5 131.17 2,686.1 -675.9 3,156.5 3,125.9 30.57 103.80 4,000.0 4,659.9 4,047.3 3,909.4 3,871.6 17.9 15.3 131.57 2,686.1 -675.9 3,156.5 3,125.9 30.57 103.80 4,000.0 4,659.9 4,004.7 3,865.5 18.3 15.7 131.77 2,702.5 -678.3 3,166.5 3,125.9 30.57 103.250 4,000.0 4,656.9 4,004.7 3,865.5 18.3 15.7 131.77 2,702.5 -678.3 3,166.5 3,125.9 30.57 103.80 4,000.0 4,656.9 4,004.7 3,865.5 18.3 15.7 131.77 2,702.5 -678.3 3,166.	2,200.0	2,187.5	1,716.3	1,711.8	7.9	6.0	125.57	2,309.3	-620.8	2,525.2	2,511.7	13.50	187.006		
2,500.0	2,300.0	2,286.2	1,811.7	1,805.7	8.3	6.3	125.89	2,325.6	-623.2	2,551.9	2,537.7	14.23	179.321		
2,600.0 2,582.2 2,102.3 2,087.4 9.6 7.5 126.82 2,374.8 -630.3 2,632.7 2,616.3 16.45 160.059 2,700.0 2,680.9 2,206.9 2,101.3 10.1 8.0 127.11 2,391.2 -632.7 2,659.8 2,642.6 17.22 154.455 2,800.0 2,779.6 2,288.4 2,275.2 10.5 8.3 127.40 2,407.6 -635.1 2,686.9 2,669.0 17.91 150.038 2,900.0 2,878.3 2,383.8 2,369.1 10.9 8.7 127.69 2,423.9 -637.5 2,714.1 2,695.5 18.65 145.539 3,000.0 2,977.0 2,479.1 2,463.0 11.3 9.1 127.96 2,440.3 -639.9 2,741.4 2,722.0 19.39 141.379 3,100.0 3,075.7 2,574.5 2,555.9 11.8 9.5 128.24 2,456.7 -642.3 2,766.7 2,748.5 20.13 137.522 3,200.0 3,174.3 2,669.8 2,669.8 12.2 9.9 128.50 2,473.1 644.7 2,760.0 2,775.2 20.88 133.938 3,300.0 3,273.0 2,765.2 2,744.8 12.6 10.3 128.77 2,489.5 -647.1 2,823.5 2,801.8 21.62 130.598 3,400.0 3,371.7 2,865.5 2,838.7 13.1 10.7 129.02 2,505.9 -649.5 2,851.0 2,828.6 22.36 127.480 3,500.0 3,669.1 3,051.2 3,026.5 14.0 11.6 129.53 2,538.6 654.3 2,906.1 2,822.2 23.85 127.480 3,800.0 3,669.8 3,146.6 3,120.4 14.4 12.0 129.77 2,555.0 -656.7 2,933.7 2,909.1 24.60 119.259 3,800.0 3,765.5 3,241.9 3,214.3 14.8 12.4 130.01 2,571.4 -659.1 2,961.4 2,996.1 2,852.2 23.85 121.828 3,700.0 3,667.8 3,146.6 3,120.4 14.4 12.0 129.77 2,555.0 -656.7 2,933.7 2,909.1 24.60 119.259 3,800.0 3,765.5 3,241.9 3,214.3 14.8 12.4 130.01 2,571.4 -659.1 2,961.4 2,996.1 2,852.2 23.85 121.828 3,000.0 3,665.1 3,337.3 3,308.2 15.3 12.8 130.24 2,587.8 -666.3 3,044.7 3,017.2 2.75.8 110.380 4,000.0 4,062.5 3,528.0 3,496.0 16.1 13.6 130.70 2,505.5 -666.3 3,044.7 3,017.2 2.75.8 110.380 4,000.0 4,652.5 3,528.0 3,496.0 16.1 13.6 130.70 2,505.5 -666.3 3,044.7 3,017.2 2.75.8 110.380 4,000.0 4,655.9 4,004.7 3,965.5 18.3 15.7 131.177 2,702.5 -678.3 3,184.5 3,152.2 31.52 10.4897 4,000.0 4,358.8 3,814.0 3,777.7 17.5 14.9 131.35 2,669.7 -673.5 3,166.5 3,229.3 3,004.3 2,004.3 2,005.5 14.0 14.5 131.14 2,653.3 1,004.7 2,604.2 -663.9 3,166.5 3,249.9 3,004.3 2,833 108.455 4,000.0 4,559.9 4,004.7 3,965.5 18.3 15.7 131.77 2,702.5 -678.3 3,184.5 3,152.2 33.63 97.00 14.5 14.9 131.35 2,669.7 -673.5 3,126.9 3,006.0 2,982.1 104.89	2,400.0	2,384.9	1,907.0	1,899.6	8.8	6.7	126.21	2,342.0	-625.6	2,578.8	2,563.8	14.96	172.355		
2,700.0 2,680.9 2,206.9 2,181.3 10.1 8.0 127.11 2,391.2 -632.7 2,689.8 2,642.6 17.22 154.455 2,800.0 2,779.6 2,288.4 2,275.2 10.5 8.3 127.40 2,407.6 -635.1 2,686.9 2,669.0 17.91 150.038 2,900.0 2,878.3 2,383.8 2,389.1 10.9 8.7 127.69 2,423.9 -637.5 2,714.1 2,695.5 18.65 145.539 3,000.0 2,977.0 2,479.1 2,463.0 11.3 9.1 127.96 2,423.9 -637.5 2,714.1 2,695.5 18.65 145.539 3,000.0 3,075.7 2,574.5 2,556.9 11.8 9.5 128.24 2,456.7 -642.3 2,768.7 2,748.5 20.13 137.522 3,200.0 3,174.3 2,669.8 2,660.8 12.2 9.9 128.50 2,473.1 -644.7 2,786.0 2,775.2 20.88 133.938 3,300.0 3,273.0 2,765.2 2,744.8 12.6 10.3 128.77 2,489.5 -647.1 2,823.5 2,801.8 2,162 130.598 3,400.0 3,371.7 2,860.5 2,838.7 13.1 10.7 129.02 2,505.9 -649.5 2,851.0 2,828.6 22.36 127.480 3,500.0 3,569.1 3,051.2 3,026.5 14.0 11.6 129.53 2,538.6 -654.3 2,906.1 2,822.2 23.85 121.828 3,700.0 3,667.8 3,146.6 3,120.4 14.4 12.0 129.77 2,555.0 -656.7 2,933.7 2,909.1 24.60 119.259 3,800.0 3,865.1 3,337.3 3,308.2 15.3 12.8 130.24 2,587.8 -661.5 2,989.1 2,963.0 26.09 114.564 4,000.0 3,963.8 3,432.6 3,402.1 15.7 13.2 130.47 2,604.2 -663.9 3,016.9 2,990.1 2,684 112.413 4,100.0 4,062.5 3,528.0 3,496.0 16.1 13.6 130.70 2,630.5 -668.7 3,044.7 3,017.2 2,758 110.380 4,400.0 4,358.6 3,814.0 3,777.7 17.5 14.9 131.35 2,699.7 -673.5 3,128.5 3,098.6 2,882 104.897 4,400.0 4,358.6 3,814.0 3,777.7 17.5 14.9 131.35 2,699.7 -673.5 3,128.5 3,098.6 2,882 104.897 4,400.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.177 2,702.5 -668.7 3,126.5 3,126.5 3,098.6 2,882 104.897 4,400.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.177 2,702.5 -673.5 3,128.5 3,998.6 2,882 104.897 4,400.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.177 2,702.5 -673.5 3,128.5 3,998.6 2,882 104.897 4,400.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.177 2,702.5 -673.5 3,128.5 3,998.6 2,882 104.897 4,400.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.177 2,702.5 -673.5 3,128.5 3,998.6 2,882 104.897 4,400.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.177 2,702.5 -673.5 3,128.5 3,998.6 2,882 104.897 4,400.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.177 2,702.5 -673.5	2,500.0	2,483.5	2,002.4	1,993.5	9.2	7.1	126.51	2,358.4	-627.9	2,605.7	2,590.0	15.70	166.015		
2,800 0         2,779,6         2,288,4         2,275,2         10,5         8.3         127,40         2,407,6         -635,1         2,686,9         2,686,0         17,91         150,038           2,900 0         2,678,3         2,383,8         2,369,1         10,9         8,7         127,69         2,423,9         -637,5         2,714,1         2,696,5         18,65         145,539           3,000 0         2,977,0         2,479,1         2,463,0         11,3         9,1         127,96         2,440,3         -639,9         2,741,4         2,722,0         19,39         141,379           3,000 0         3,075,7         2,574,5         2,566,9         11,8         9,5         128,26         2,466,7         -642,3         2,768,7         2,748,5         201,3         135,522           3,200 0         3,174,3         2,698,8         2,650,8         12,2         9,9         128,50         2,473,1         -644,7         2,796,0         2,775,2         20.88         133,938           3,000 0         3,371,7         2,860,5         2,838,7         13,1         10,7         129,02         2,505,9         -649,5         2,878,5         2,854,6         22,36         127,480           3,500,0 <td< td=""><td>2,600.0</td><td>2,582.2</td><td>2,102.3</td><td>2,087.4</td><td>9.6</td><td>7.5</td><td>126.82</td><td>2,374.8</td><td>-630.3</td><td>2,632.7</td><td>2,616.3</td><td>16.45</td><td>160.059</td><td></td><td></td></td<>	2,600.0	2,582.2	2,102.3	2,087.4	9.6	7.5	126.82	2,374.8	-630.3	2,632.7	2,616.3	16.45	160.059		
2,900.0       2,878.3       2,383.8       2,389.1       10.9       8.7       127.69       2,423.9       -637.5       2,714.1       2,695.5       18.65       145.539         3,000.0       2,977.0       2,479.1       2,463.0       11.3       9.1       127.96       2,440.3       -639.9       2,741.4       2,722.0       19.39       141.379         3,100.0       3,075.7       2,574.5       2,566.9       11.8       9.5       128.24       2,466.7       -642.3       2,768.7       2,748.5       20.13       137.522         3,200.0       3,273.0       2,765.2       2,744.8       12.6       10.3       18.877       2,489.5       -647.1       2,823.5       2,801.8       21.62       130.598         3,400.0       3,371.7       2,860.5       2,838.7       13.1       10.7       129.02       2,505.9       -649.5       2,851.0       2,828.6       22.36       127.480         3,500.0       3,470.4       2,955.9       2,932.6       13.5       11.1       129.28       2,522.2       -651.9       2,878.5       2,855.4       23.11       124.563         3,600.0       3,569.1       3,161.2       3,024.1       11.6       129.53       2,538.6       -661.3	2,700.0	2,680.9	2,206.9	2,181.3	10.1	8.0	127.11	2,391.2	-632.7	2,659.8	2,642.6	17.22	154.455		
3,000.0 2,977.0 2,479.1 2,463.0 11.3 9.1 127.96 2,440.3 -639.9 2,741.4 2,722.0 19.39 141.379 3,100.0 3,076.7 2,574.5 2,556.9 111.8 9.5 128.24 2,466.7 -642.3 2,768.7 2,748.5 20.13 137.522 3,200.0 3,174.3 2,669.8 2,650.8 12.2 9.9 128.50 2,473.1 -644.7 2,796.0 2,775.2 20.88 133.938 3,300.0 3,273.0 2,765.2 2,744.8 12.6 10.3 128.77 2,499.5 -647.1 2,823.5 2,801.8 21.62 130.598 3,400.0 3,371.7 2,860.5 2,838.7 13.1 10.7 129.02 2,505.9 -649.5 2,851.0 2,828.6 22.36 127.480 3,500.0 3,470.4 2,955.9 2,932.6 13.5 11.1 129.28 2,522.2 -651.9 2,878.5 2,855.4 23.11 124.563 3,600.0 3,569.1 3,051.2 3,026.5 14.0 11.6 129.53 2,538.6 -654.3 2,906.1 2,882.2 23.85 121.828 3,700.0 3,667.8 3,146.6 3,120.4 14.4 12.0 129.77 2,555.0 -656.7 2,933.7 2,909.1 24.60 119.259 3,800.0 3,766.5 3,241.9 3,214.3 14.8 12.4 130.01 2,571.4 -659.1 2,961.4 2,936.1 2,535.5 116.842 3,900.0 3,865.1 3,337.3 3,308.2 15.3 12.8 130.24 2,587.8 -661.5 2,989.1 2,963.0 26.09 114.564 4,000.0 3,963.8 3,432.6 3,402.1 15.7 13.2 130.47 2,604.2 -666.9 3,004.3 2,900.1 26.84 112.413 4,100.0 4,062.5 3,528.0 3,496.0 16.1 13.6 130.70 2,620.5 -666.9 3,004.3 2,900.1 2,684.0 114.54 4,000.0 4,062.5 3,528.0 3,496.0 16.1 13.6 130.70 2,620.5 -666.9 3,004.3 2,900.1 2,004.3 28.3 108.455 4,300.0 4,652.0 3,586.0 3,496.0 16.1 13.6 130.70 2,620.5 -666.9 3,004.3 2,900.1 2,004.3 28.3 108.455 4,300.0 4,558.9 3,718.7 3,683.8 17.0 14.5 131.14 2,653.3 -671.1 3,100.5 3,071.4 29.08 106.630 4,400.0 4,358.6 3,814.0 3,777.7 17.5 14.9 131.35 2,669.7 -673.5 3,126.5 3,125.9 30.57 103.250 4,500.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 32.07 100.189 4,500.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 32.07 100.189 4,500.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 3,207.1 100.189 4,500.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 3,207.1 100.189 4,500.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 3,255.2 33.63 97.202	2,800.0	2,779.6	2,288.4	2,275.2	10.5	8.3	127.40	2,407.6	-635.1	2,686.9	2,669.0	17.91	150.038		
3,100.0 3,075.7 2,574.5 2,556.9 11.8 9.5 128.24 2,456.7 -642.3 2,768.7 2,748.5 20.13 137.522 3,200.0 3,174.3 2,669.8 2,650.8 12.2 9.9 128.50 2,473.1 -644.7 2,760.0 2,775.2 20.88 133.938 3,300.0 3,273.0 2,765.2 2,744.8 12.6 10.3 128.77 2,489.5 -647.1 2,823.5 2,801.8 21.62 130.598 3,400.0 3,371.7 2,860.5 2,838.7 13.1 10.7 129.02 2,505.9 -649.5 2,851.0 2,828.6 22.36 127.480 3,500.0 3,470.4 2,955.9 2,932.6 13.5 11.1 129.28 2,522.2 -651.9 2,878.5 2,855.4 23.11 124.563 3,600.0 3,569.1 3,051.2 3,026.5 14.0 11.6 129.53 2,538.6 -654.3 2,906.1 2,882.2 23.85 121.828 3,700.0 3,667.8 3,146.6 3,120.4 14.4 12.0 129.77 2,555.0 -656.7 2,933.7 2,909.1 24.60 119.259 3,800.0 3,766.5 3,241.9 3,214.3 14.8 12.4 130.01 2,571.4 -659.1 2,961.4 2,936.1 25.35 116.842 3,900.0 3,865.1 3,337.3 3,308.2 15.3 12.8 130.24 2,587.8 -661.5 2,999.1 2,963.0 26.09 114.564 4,000.0 3,863.8 3,432.6 3,402.1 15.7 13.2 130.47 2,604.2 -663.9 3,016.9 2,990.1 26.84 112.413 4,100.0 4,062.5 3,528.0 3,496.0 16.1 13.6 130.70 2,620.5 -666.3 3,044.7 3,017.2 27.58 110.380 4,200.0 4,161.2 3,623.3 3,589.9 16.6 14.0 130.92 2,636.9 -668.7 3,072.6 3,044.3 28.33 108.455 4,300.0 4,259.9 3,718.7 3,683.8 17.0 14.5 131.14 2,653.3 -671.1 3,100.5 3,071.4 29.08 106.630 4,400.0 4,358.6 3,814.0 3,777.7 17.5 14.9 131.35 2,669.7 -673.5 3,128.5 3,098.6 29.82 104.897 4,500.0 4,457.3 3,909.4 3,871.6 17.9 15.3 131.57 2,686.1 -675.9 3,156.5 3,126.5 3,126.9 103.85 98.660 4,700.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 3,207 100.189 4,800.0 4,855.0 4,300.2 4,259.4 4,153.3 19.2 16.6 132.18 2,735.2 -683.1 3,240.7 3,207.8 32.85 98.660 4,900.0 4,852.0 4,309.2 4,247.2 19.7 17.1 132.37 2,751.6 -685.5 3,268.5 3,268.8 3,235.2 33.63 97.202	2,900.0	2,878.3	2,383.8	2,369.1	10.9	8.7	127.69	2,423.9	-637.5	2,714.1	2,695.5	18.65	145.539		
3,200.0 3,174.3 2,669.8 2,650.8 12.2 9.9 128.50 2,473.1 -644.7 2,796.0 2,775.2 20.88 133.938 3,300.0 3,273.0 2,765.2 2,744.8 12.6 10.3 128.77 2,489.5 -647.1 2,823.5 2,801.8 21.62 130.598 3,400.0 3,371.7 2,860.5 2,838.7 13.1 10.7 129.02 2,505.9 -649.5 2,851.0 2,828.6 22.36 127.480 3,500.0 3,470.4 2,955.9 2,932.6 13.5 111.1 129.28 2,522.2 -661.9 2,878.5 2,855.4 23.11 124.563 3,600.0 3,569.1 3,051.2 3,026.5 14.0 11.6 129.53 2,538.6 -654.3 2,906.1 2,882.2 23.85 121.828 3,700.0 3,667.8 3,146.6 3,120.4 14.4 12.0 129.77 2,555.0 -656.7 2,933.7 2,909.1 24.60 119.259 3,800.0 3,766.5 3,241.9 3,214.3 14.8 12.4 130.01 2,571.4 -659.1 2,961.4 2,936.1 25.35 116.842 3,900.0 3,865.1 3,337.3 3,308.2 15.3 12.8 130.24 2,587.8 -661.5 2,989.1 2,963.0 26.09 114.564 4,000.0 3,963.8 3,432.6 3,402.1 15.7 13.2 130.47 2,604.2 -663.9 3,016.9 2,901. 26.84 112.413 4,100.0 4,062.5 3,528.0 3,496.0 16.1 13.6 130.70 2,620.5 -666.3 3,044.7 3,017.2 27.58 110.380 4,200.0 4,161.2 3,623.3 3,689.9 16.6 14.0 130.92 2,636.9 -668.7 3,072.6 3,044.3 28.33 108.455 4,300.0 4,259.9 3,718.7 3,683.8 17.0 14.5 131.14 2,653.3 -671.1 3,100.5 3,071.4 29.08 106.630 4,400.0 4,358.6 3,814.0 3,777.7 17.5 14.9 131.35 2,669.7 -673.5 3,128.5 3,098.6 29.82 104.897 4,500.0 4,457.3 3,909.4 3,871.6 17.9 15.3 131.77 2,606.1 -675.9 3,156.5 3,125.9 30.57 103.250 4,600.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.77 2,702.5 -678.3 3,164.5 3,153.2 31.32 101.662 4,700.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 3,207. 100.189 4,800.0 4,753.3 4,204.6 4,153.3 19.2 16.6 132.18 2,735.2 -683.1 3,240.7 3,207.8 32.85 98.660 4,900.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 3,207. 100.189 4,800.0 4,753.3 4,204.6 4,153.3 19.2 16.6 132.18 2,735.2 -683.1 3,240.7 3,207.8 32.85 98.660 4,900.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 3,207. 100.189 4,800.0 4,753.3 4,204.6 4,153.3 19.2 16.6 132.18 2,735.2 -683.1 3,240.7 3,207.8 32.85 98.660 4,900.0 4,852.0 4,309.2 4,247.2 19.7 17.1 132.37 2,751.6 -685.5 3,268.8 3	3,000.0	2,977.0	2,479.1	2,463.0	11.3	9.1	127.96	2,440.3	-639.9	2,741.4	2,722.0	19.39	141.379		
3,300.0 3,273.0 2,765.2 2,744.8 12.6 10.3 128.77 2,489.5 -647.1 2,823.5 2,801.8 21.62 130.598 3,400.0 3,371.7 2,860.5 2,838.7 13.1 10.7 129.02 2,505.9 -649.5 2,851.0 2,828.6 22.36 127.480  3,500.0 3,470.4 2,955.9 2,932.6 13.5 11.1 129.28 2,522.2 -651.9 2,878.5 2,855.4 23.11 124.563 3,600.0 3,569.1 3,051.2 3,026.5 14.0 11.6 129.53 2,538.6 -654.3 2,906.1 2,882.2 23.85 121.828 3,700.0 3,667.8 3,146.6 3,120.4 14.4 12.0 129.77 2,555.0 -656.7 2,933.7 2,909.1 24.60 119.259 3,800.0 3,766.5 3,241.9 3,214.3 14.8 12.4 130.01 2,571.4 -659.1 2,961.4 2,936.1 25.35 116.842 3,900.0 3,865.1 3,337.3 3,308.2 15.3 12.8 130.24 2,587.8 -661.5 2,989.1 2,963.0 26.09 114.564  4,000.0 3,963.8 3,432.6 3,402.1 15.7 13.2 130.47 2,604.2 -663.9 3,016.9 2,990.1 26.84 112.413 4,100.0 4,062.5 3,528.0 3,496.0 16.1 13.6 130.70 2,620.5 -666.3 3,044.7 3,017.2 27.58 110.380 4,200.0 4,161.2 3,623.3 3,589.9 16.6 14.0 130.92 2,636.9 -668.7 3,072.6 3,044.3 28.33 108.455 4,300.0 4,259.9 3,718.7 3,683.8 17.0 14.5 131.14 2,653.3 -671.1 3,100.5 3,071.4 29.08 106.630 4,400.0 4,358.6 3,814.0 3,777.7 17.5 14.9 131.35 2,669.7 -673.5 3,125.9 30.57 103.250 4,500.0 4,457.3 3,909.4 3,871.6 17.9 15.3 131.57 2,686.1 -675.9 3,156.5 3,125.9 30.57 103.250 4,600.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.77 2,702.5 -678.3 3,184.5 3,153.2 31.32 101.682 4,700.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 32.07 100.189 4,800.0 4,753.3 4,204.6 4,153.3 19.2 16.6 132.18 2,735.2 -683.1 3,240.7 3,207.8 32.85 98.660 4,900.0 4,852.0 4,309.2 4,247.2 19.7 17.1 132.37 2,751.6 -685.5 3,268.8 3,235.2 33.63 97.202	3,100.0	3,075.7	2,574.5	2,556.9	11.8	9.5	128.24	2,456.7	-642.3	2,768.7	2,748.5	20.13	137.522		
3,400.0 3,371.7 2,860.5 2,838.7 13.1 10.7 129.02 2,505.9 -649.5 2,851.0 2,828.6 22.36 127.480  3,500.0 3,470.4 2,955.9 2,932.6 13.5 11.1 129.28 2,522.2 -651.9 2,878.5 2,855.4 23.11 124.563 3,600.0 3,569.1 3,051.2 3,026.5 14.0 11.6 129.53 2,538.6 -654.3 2,906.1 2,882.2 23.85 121.828 3,700.0 3,667.8 3,146.6 3,120.4 14.4 12.0 129.77 2,555.0 -656.7 2,933.7 2,909.1 24.60 119.259 3,800.0 3,766.5 3,241.9 3,214.3 14.8 12.4 130.01 2,571.4 -659.1 2,961.4 2,936.1 25.35 116.842 3,900.0 3,865.1 3,337.3 3,308.2 15.3 12.8 130.24 2,587.8 -661.5 2,989.1 2,963.0 26.09 114.564  4,000.0 3,963.8 3,432.6 3,402.1 15.7 13.2 130.47 2,604.2 -663.9 3,016.9 2,990.1 26.84 112.413 4,100.0 4,062.5 3,528.0 3,496.0 16.1 13.6 130.70 2,620.5 -666.3 3,044.7 3,017.2 27.58 110.380 4,200.0 4,161.2 3,623.3 3,589.9 16.6 14.0 130.92 2,636.9 -668.7 3,072.6 3,044.3 28.33 108.455 4,200.0 4,259.9 3,718.7 3,683.8 17.0 14.5 131.14 2,653.3 -671.1 3,100.5 3,071.4 29.08 106.630 4,400.0 4,358.6 3,814.0 3,777.7 17.5 14.9 131.35 2,669.7 -673.5 3,128.5 3,098.6 29.82 104.897  4,500.0 4,657.3 3,909.4 3,871.6 17.9 15.3 131.57 2,686.1 -675.9 3,156.5 3,125.9 30.57 103.250 4,600.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.77 2,702.5 -678.3 3,184.5 3,153.2 31.32 101.682 4,700.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 32.07 100.189 4,800.0 4,753.3 4,204.6 4,153.3 19.2 16.6 132.18 2,735.2 -688.1 3,240.7 3,207.8 32.85 98.660 4,900.0 4,852.0 4,309.2 4,247.2 19.7 17.1 132.37 2,751.6 -685.5 3,268.8 3,235.2 33.63 97.202	3,200.0	3,174.3	2,669.8	2,650.8	12.2	9.9	128.50	2,473.1	-644.7	2,796.0	2,775.2	20.88	133.938		
3,500.0 3,470.4 2,955.9 2,932.6 13.5 11.1 129.28 2,522.2 -651.9 2,878.5 2,855.4 23.11 124.563 3,600.0 3,569.1 3,051.2 3,026.5 14.0 11.6 129.53 2,538.6 -654.3 2,906.1 2,882.2 23.85 121.828 3,700.0 3,667.8 3,146.6 3,120.4 14.4 12.0 129.77 2,555.0 -656.7 2,933.7 2,909.1 24.60 119.259 3,800.0 3,766.5 3,241.9 3,214.3 14.8 12.4 130.01 2,571.4 -659.1 2,961.4 2,936.1 25.35 116.842 3,900.0 3,865.1 3,337.3 3,308.2 15.3 12.8 130.24 2,587.8 -661.5 2,989.1 2,963.0 26.09 114.564  4,000.0 3,963.8 3,432.6 3,402.1 15.7 13.2 130.47 2,604.2 -663.9 3,016.9 2,900.1 26.84 112.413 4,100.0 4,062.5 3,528.0 3,496.0 16.1 13.6 130.70 2,620.5 -666.3 3,044.7 3,017.2 27.58 110.380 4,200.0 4,161.2 3,623.3 3,589.9 16.6 14.0 130.92 2,636.9 -668.7 3,072.6 3,044.3 28.33 108.455 4,300.0 4,259.9 3,718.7 3,683.8 17.0 14.5 131.14 2,653.3 -671.1 3,100.5 3,071.4 29.08 106.630 4,400.0 4,358.6 3,814.0 3,777.7 17.5 14.9 131.35 2,669.7 -673.5 3,128.5 3,098.6 29.82 104.897  4,500.0 4,457.3 3,909.4 3,871.6 17.9 15.3 131.57 2,686.1 -675.9 3,156.5 3,125.9 30.57 103.250 4,600.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.77 2,702.5 -678.3 3,184.5 3,153.2 31.32 101.682 4,700.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 32.07 100.189 4,800.0 4,753.3 4,204.6 4,153.3 19.2 16.6 132.18 2,735.2 -683.1 3,240.7 3,207.8 32.85 98.660 4,900.0 4,852.0 4,309.2 4,247.2 19.7 17.1 132.37 2,751.6 -685.5 3,268.8 3,235.2 33.63 97.202	3,300.0	3,273.0	2,765.2	2,744.8	12.6	10.3	128.77	2,489.5	-647.1	2,823.5	2,801.8	21.62	130.598		
3,600.0 3,569.1 3,051.2 3,026.5 14.0 11.6 129.53 2,538.6 -654.3 2,906.1 2,882.2 23.85 121.828 3,700.0 3,667.8 3,146.6 3,120.4 14.4 12.0 129.77 2,555.0 -656.7 2,933.7 2,909.1 24.60 119.259 3,800.0 3,766.5 3,241.9 3,214.3 14.8 12.4 130.01 2,571.4 -659.1 2,961.4 2,936.1 25.35 116.842 3,900.0 3,865.1 3,337.3 3,308.2 15.3 12.8 130.24 2,587.8 -661.5 2,989.1 2,963.0 26.09 114.564 14.00.0 3,963.8 3,432.6 3,402.1 15.7 13.2 130.47 2,604.2 -663.9 3,016.9 2,990.1 26.84 112.413 4,100.0 4,062.5 3,528.0 3,496.0 16.1 13.6 130.70 2,620.5 -666.3 3,044.7 3,017.2 27.58 110.380 4,200.0 4,161.2 3,623.3 3,589.9 16.6 14.0 130.92 2,636.9 -668.7 3,072.6 3,044.3 28.33 108.455 4,300.0 4,259.9 3,718.7 3,683.8 17.0 14.5 131.14 2,653.3 -671.1 3,100.5 3,071.4 29.08 106.630 4,400.0 4,358.6 3,814.0 3,777.7 17.5 14.9 131.35 2,669.7 -673.5 3,128.5 3,098.6 29.82 104.897 4,500.0 4,457.3 3,909.4 3,871.6 17.9 15.3 131.57 2,686.1 -675.9 3,156.5 3,125.9 30.57 103.250 4,600.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.77 2,702.5 -678.3 3,184.5 3,153.2 31.32 101.682 4,700.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 32.07 100.189 4,800.0 4,753.3 4,204.6 4,153.3 19.2 16.6 132.18 2,735.2 -683.1 3,240.7 3,207.8 32.85 98.660 4,900.0 4,852.0 4,309.2 4,247.2 19.7 17.1 132.37 2,751.6 -685.5 3,268.8 3,235.2 33.63 97.202	3,400.0	3,371.7	2,860.5	2,838.7	13.1	10.7	129.02	2,505.9	-649.5	2,851.0	2,828.6	22.36	127.480		
3,700.0 3,667.8 3,146.6 3,120.4 14.4 12.0 129.77 2,555.0 -656.7 2,933.7 2,909.1 24.60 119.259 3,800.0 3,766.5 3,241.9 3,214.3 14.8 12.4 130.01 2,571.4 -659.1 2,961.4 2,936.1 25.35 116.842 3,900.0 3,865.1 3,337.3 3,308.2 15.3 12.8 130.24 2,587.8 -661.5 2,989.1 2,963.0 26.09 114.564  4,000.0 3,963.8 3,432.6 3,402.1 15.7 13.2 130.47 2,604.2 -663.9 3,016.9 2,990.1 26.84 112.413 4,100.0 4,062.5 3,528.0 3,496.0 16.1 13.6 130.70 2,620.5 -666.3 3,044.7 3,017.2 27.58 110.380 4,200.0 4,161.2 3,623.3 3,589.9 16.6 14.0 130.92 2,636.9 -668.7 3,072.6 3,044.3 28.33 108.455 4,300.0 4,259.9 3,718.7 3,683.8 17.0 14.5 131.14 2,653.3 -671.1 3,100.5 3,071.4 29.08 106.630 4,400.0 4,358.6 3,814.0 3,777.7 17.5 14.9 131.35 2,669.7 -673.5 3,128.5 3,098.6 29.82 104.897  4,500.0 4,457.3 3,909.4 3,871.6 17.9 15.3 131.57 2,686.1 -675.9 3,156.5 3,125.9 30.57 103.250 4,600.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.77 2,702.5 -678.3 3,184.5 3,153.2 31.32 101.682 4,700.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 32.07 100.189 4,800.0 4,753.3 4,204.6 4,153.3 19.2 16.6 132.18 2,735.2 -683.1 3,240.7 3,207.8 32.85 98.660 4,900.0 4,852.0 4,309.2 4,247.2 19.7 17.1 132.37 2,751.6 -685.5 3,268.8 3,235.2 33.63 97.202	3,500.0	3,470.4	2,955.9	2,932.6	13.5	11.1	129.28	2,522.2	-651.9	2,878.5	2,855.4	23.11	124.563		
3,800.0 3,766.5 3,241.9 3,214.3 14.8 12.4 130.01 2,571.4 -659.1 2,961.4 2,936.1 25.35 116.842 3,900.0 3,865.1 3,337.3 3,308.2 15.3 12.8 130.24 2,587.8 -661.5 2,989.1 2,963.0 26.09 114.564 4,000.0 3,963.8 3,432.6 3,402.1 15.7 13.2 130.47 2,604.2 -663.9 3,016.9 2,990.1 26.84 112.413 4,100.0 4,062.5 3,528.0 3,496.0 16.1 13.6 130.70 2,620.5 -666.3 3,044.7 3,017.2 27.58 110.380 4,200.0 4,161.2 3,623.3 3,589.9 16.6 14.0 130.92 2,636.9 -668.7 3,072.6 3,044.3 28.33 108.455 4,300.0 4,259.9 3,718.7 3,683.8 17.0 14.5 131.14 2,653.3 -671.1 3,100.5 3,071.4 29.08 106.630 4,400.0 4,358.6 3,814.0 3,777.7 17.5 14.9 131.35 2,669.7 -673.5 3,128.5 3,098.6 29.82 104.897 4,500.0 4,457.3 3,909.4 3,871.6 17.9 15.3 131.57 2,686.1 -675.9 3,156.5 3,125.9 30.57 103.250 4,600.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.77 2,702.5 -678.3 3,184.5 3,153.2 31.32 101.682 4,700.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,126.5 3,207.8 32.85 98.660 4,900.0 4,852.0 4,309.2 4,247.2 19.7 17.1 132.37 2,751.6 -685.5 3,268.8 3,235.2 33.63 97.202	3,600.0	3,569.1	3,051.2	3,026.5	14.0	11.6	129.53	2,538.6	-654.3	2,906.1	2,882.2	23.85	121.828		
3,900.0 3,865.1 3,337.3 3,308.2 15.3 12.8 130.24 2,587.8 -661.5 2,989.1 2,963.0 26.09 114.564  4,000.0 3,963.8 3,432.6 3,402.1 15.7 13.2 130.47 2,604.2 -663.9 3,016.9 2,990.1 26.84 112.413  4,100.0 4,062.5 3,528.0 3,496.0 16.1 13.6 130.70 2,620.5 -666.3 3,044.7 3,017.2 27.58 110.380  4,200.0 4,161.2 3,623.3 3,589.9 16.6 14.0 130.92 2,636.9 -668.7 3,072.6 3,044.3 28.33 108.455  4,300.0 4,259.9 3,718.7 3,683.8 17.0 14.5 131.14 2,653.3 -671.1 3,100.5 3,071.4 29.08 106.630  4,400.0 4,358.6 3,814.0 3,777.7 17.5 14.9 131.35 2,669.7 -673.5 3,128.5 3,098.6 29.82 104.897  4,500.0 4,457.3 3,909.4 3,871.6 17.9 15.3 131.57 2,686.1 -675.9 3,156.5 3,125.9 30.57 103.250  4,600.0 4,555.9 4,004.7 3,965.5 18.3 15.7 131.77 2,702.5 -678.3 3,184.5 3,153.2 31.32 101.682  4,700.0 4,654.6 4,100.1 4,059.4 18.8 16.1 131.98 2,718.8 -680.7 3,212.6 3,180.5 32.07 100.189  4,800.0 4,753.3 4,204.6 4,153.3 19.2 16.6 132.18 2,735.2 -683.1 3,240.7 3,207.8 32.85 98.660  4,900.0 4,852.0 4,309.2 4,247.2 19.7 17.1 132.37 2,751.6 -685.5 3,268.8 3,235.2 33.63 97.202	3,700.0	3,667.8	3,146.6	3,120.4	14.4	12.0	129.77	2,555.0	-656.7	2,933.7	2,909.1	24.60	119.259		
4,000.0       3,963.8       3,432.6       3,402.1       15.7       13.2       130.47       2,604.2       -663.9       3,016.9       2,990.1       26.84       112.413         4,100.0       4,062.5       3,528.0       3,496.0       16.1       13.6       130.70       2,620.5       -666.3       3,044.7       3,017.2       27.58       110.380         4,200.0       4,161.2       3,623.3       3,589.9       16.6       14.0       130.92       2,636.9       -668.7       3,072.6       3,044.3       28.33       108.455         4,300.0       4,259.9       3,718.7       3,683.8       17.0       14.5       131.14       2,653.3       -671.1       3,100.5       3,071.4       29.08       106.630         4,400.0       4,358.6       3,814.0       3,777.7       17.5       14.9       131.35       2,669.7       -673.5       3,128.5       3,098.6       29.82       104.897         4,500.0       4,457.3       3,999.4       3,871.6       17.9       15.3       131.57       2,686.1       -675.9       3,156.5       3,125.9       30.57       103.250         4,600.0       4,555.9       4,004.7       3,965.5       18.3       15.7       131.77       2,702.5															
4,100.0       4,062.5       3,528.0       3,496.0       16.1       13.6       130.70       2,620.5       -666.3       3,044.7       3,017.2       27.58       110.380         4,200.0       4,161.2       3,623.3       3,589.9       16.6       14.0       130.92       2,636.9       -668.7       3,072.6       3,044.3       28.33       108.455         4,300.0       4,259.9       3,718.7       3,683.8       17.0       14.5       131.14       2,653.3       -671.1       3,100.5       3,071.4       29.08       106.630         4,400.0       4,358.6       3,814.0       3,777.7       17.5       14.9       131.35       2,669.7       -673.5       3,128.5       3,098.6       29.82       104.897         4,500.0       4,457.3       3,909.4       3,871.6       17.9       15.3       131.57       2,686.1       -675.9       3,156.5       3,125.9       30.57       103.250         4,600.0       4,555.9       4,004.7       3,965.5       18.3       15.7       131.77       2,702.5       -678.3       3,184.5       3,153.2       31.32       101.682         4,700.0       4,654.6       4,100.1       4,059.4       18.8       16.1       131.98       2,718.8	3,900.0	3,865.1	3,337.3	3,308.2	15.3	12.8	130.24	2,587.8	-661.5	2,989.1	2,963.0	26.09	114.564		
4,200.0       4,161.2       3,623.3       3,589.9       16.6       14.0       130.92       2,636.9       -668.7       3,072.6       3,044.3       28.33       108.455         4,300.0       4,259.9       3,718.7       3,683.8       17.0       14.5       131.14       2,653.3       -671.1       3,100.5       3,071.4       29.08       106.630         4,400.0       4,358.6       3,814.0       3,777.7       17.5       14.9       131.35       2,669.7       -673.5       3,128.5       3,098.6       29.82       104.897         4,500.0       4,457.3       3,909.4       3,871.6       17.9       15.3       131.57       2,686.1       -675.9       3,156.5       3,125.9       30.57       103.250         4,600.0       4,555.9       4,004.7       3,965.5       18.3       15.7       131.77       2,702.5       -678.3       3,184.5       3,153.2       31.32       101.682         4,700.0       4,654.6       4,100.1       4,059.4       18.8       16.1       131.98       2,718.8       -680.7       3,212.6       3,180.5       32.07       100.189         4,800.0       4,753.3       4,204.6       4,153.3       19.2       16.6       132.18       2,735.2	4,000.0	3,963.8	3,432.6	3,402.1	15.7	13.2	130.47	2,604.2	-663.9	3,016.9	2,990.1	26.84	112.413		
4,300.0       4,259.9       3,718.7       3,683.8       17.0       14.5       131.14       2,653.3       -671.1       3,100.5       3,071.4       29.08       106.630         4,400.0       4,358.6       3,814.0       3,777.7       17.5       14.9       131.35       2,669.7       -673.5       3,128.5       3,098.6       29.82       104.897         4,500.0       4,457.3       3,909.4       3,871.6       17.9       15.3       131.57       2,686.1       -675.9       3,156.5       3,125.9       30.57       103.250         4,600.0       4,555.9       4,004.7       3,965.5       18.3       15.7       131.77       2,702.5       -678.3       3,184.5       3,153.2       31.32       101.682         4,700.0       4,654.6       4,100.1       4,059.4       18.8       16.1       131.98       2,718.8       -680.7       3,212.6       3,180.5       32.07       100.189         4,800.0       4,753.3       4,204.6       4,153.3       19.2       16.6       132.18       2,735.2       -683.1       3,240.7       3,207.8       32.85       98.660         4,900.0       4,852.0       4,309.2       4,247.2       19.7       17.1       132.37       2,751.6	4,100.0	4,062.5	3,528.0	3,496.0	16.1	13.6	130.70	2,620.5	-666.3	3,044.7	3,017.2	27.58	110.380		
4,400.0       4,358.6       3,814.0       3,777.7       17.5       14.9       131.35       2,669.7       -673.5       3,128.5       3,098.6       29.82       104.897         4,500.0       4,457.3       3,909.4       3,871.6       17.9       15.3       131.57       2,686.1       -675.9       3,156.5       3,125.9       30.57       103.250         4,600.0       4,555.9       4,004.7       3,965.5       18.3       15.7       131.77       2,702.5       -678.3       3,184.5       3,153.2       31.32       101.682         4,700.0       4,654.6       4,100.1       4,059.4       18.8       16.1       131.98       2,718.8       -680.7       3,212.6       3,180.5       32.07       100.189         4,800.0       4,753.3       4,204.6       4,153.3       19.2       16.6       132.18       2,735.2       -683.1       3,240.7       3,207.8       32.85       98.660         4,900.0       4,852.0       4,309.2       4,247.2       19.7       17.1       132.37       2,751.6       -685.5       3,268.8       3,235.2       33.63       97.202	4,200.0	4,161.2	3,623.3	3,589.9	16.6	14.0	130.92	2,636.9	-668.7	3,072.6	3,044.3	28.33	108.455		
4,500.0       4,457.3       3,909.4       3,871.6       17.9       15.3       131.57       2,686.1       -675.9       3,156.5       3,125.9       30.57       103.250         4,600.0       4,555.9       4,004.7       3,965.5       18.3       15.7       131.77       2,702.5       -678.3       3,184.5       3,153.2       31.32       101.682         4,700.0       4,654.6       4,100.1       4,059.4       18.8       16.1       131.98       2,718.8       -680.7       3,212.6       3,180.5       32.07       100.189         4,800.0       4,753.3       4,204.6       4,153.3       19.2       16.6       132.18       2,735.2       -683.1       3,240.7       3,207.8       32.85       98.660         4,900.0       4,852.0       4,309.2       4,247.2       19.7       17.1       132.37       2,751.6       -685.5       3,268.8       3,235.2       33.63       97.202	4,300.0	4,259.9		3,683.8	17.0	14.5	131.14	2,653.3	-671.1			29.08	106.630		
4,600.0       4,555.9       4,004.7       3,965.5       18.3       15.7       131.77       2,702.5       -678.3       3,184.5       3,153.2       31.32       101.682         4,700.0       4,654.6       4,100.1       4,059.4       18.8       16.1       131.98       2,718.8       -680.7       3,212.6       3,180.5       32.07       100.189         4,800.0       4,753.3       4,204.6       4,153.3       19.2       16.6       132.18       2,735.2       -683.1       3,240.7       3,207.8       32.85       98.660         4,900.0       4,852.0       4,309.2       4,247.2       19.7       17.1       132.37       2,751.6       -685.5       3,268.8       3,235.2       33.63       97.202	4,400.0	4,358.6	3,814.0	3,777.7	17.5	14.9	131.35	2,669.7	-673.5	3,128.5	3,098.6	29.82	104.897		
4,600.0       4,555.9       4,004.7       3,965.5       18.3       15.7       131.77       2,702.5       -678.3       3,184.5       3,153.2       31.32       101.682         4,700.0       4,654.6       4,100.1       4,059.4       18.8       16.1       131.98       2,718.8       -680.7       3,212.6       3,180.5       32.07       100.189         4,800.0       4,753.3       4,204.6       4,153.3       19.2       16.6       132.18       2,735.2       -683.1       3,240.7       3,207.8       32.85       98.660         4,900.0       4,852.0       4,309.2       4,247.2       19.7       17.1       132.37       2,751.6       -685.5       3,268.8       3,235.2       33.63       97.202	4,500.0	4,457.3	3,909.4	3,871.6	17.9	15.3	131.57	2,686.1	-675.9	3,156.5	3,125.9	30.57	103.250		
4,700.0       4,654.6       4,100.1       4,059.4       18.8       16.1       131.98       2,718.8       -680.7       3,212.6       3,180.5       32.07       100.189         4,800.0       4,753.3       4,204.6       4,153.3       19.2       16.6       132.18       2,735.2       -683.1       3,240.7       3,207.8       32.85       98.660         4,900.0       4,852.0       4,309.2       4,247.2       19.7       17.1       132.37       2,751.6       -685.5       3,268.8       3,235.2       33.63       97.202															
4,900.0 4,852.0 4,309.2 4,247.2 19.7 17.1 132.37 2,751.6 -685.5 3,268.8 3,235.2 33.63 97.202		4,654.6			18.8	16.1			-680.7			32.07	100.189		
						16.6									
5,000.0 4,950.7 4,386.1 4,341.1 20.1 17.4 132.57 2,768.0 -687.9 3,297.0 3,262.7 34.31 96.104		4,852.0	4,309.2		19.7	17.1	132.37		-685.5	3,268.8		33.63	97.202		
	5,000.0	4,950.7	4,386.1	4,341.1	20.1	17.4	132.57	2,768.0	-687.9	3,297.0	3,262.7	34.31	96.104		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

Property	Offset Des	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #113H	- BLM Plan	#1 - BLM	Plan #1			Offset Site Error:	0.0 usft
Name														Offset Well Error:	0.0 usft
Page					-		Highside	Offset Wellbor	e Centre			Minimum	Separation	Marning	
	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		waning	
5,000   5,2467	5,100.0	5,049.4	4,481.5	4,435.0	20.6	17.8	132.76	2,784.4	-690.3	3,325.2	3,290.1	35.05	94.860		
Section   Sect	5,200.0	5,148.1	4,576.8	4,528.9	21.0	18.2	132.94	2,800.8	-692.6	3,353.4	3,317.6	35.80	93.670		
5,000   5,444   4,862   4,862   4,862   4,862   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,864   2,86							133.13								
5,000   5,042   4,686   4,046   228   199   133.60   2,086.3   7,702.2   3,408.0   3,402   36.70   88.37   88.37   5,700   5,841.5   5,003.0   4,004.4   22.2   20.4   133.63   2,081.7   1,774   3,400.2   3,400.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8   3,641.8															
5,700   5,6415   5,6538   4,9684   23   2															
5,800   5,740   2,848   5,902   3,848   5,902   23,7   20,8   194,00   2,896   7,707   3,822   3,846   3,848   41,78   68,772   41,000   5,937   5,339   5,248   5,374   2,95   22,0   134,49   2,948   7,714   3,860   3,685   4,877   4,25   4,25   4,26   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25   4,25															
Section   Sect															
5,000   5,087.5   5,380   6,280.1   24.5   21.6   184.33   2,281.8   711.8   3,580.5   3,588.8   41.78   68.702   6.200   6.194.9   5,500.3   5,467.9   25.4   22.5   194.85   2,984.6   7.16.6   3,637.6   3,594.3   42.27   64.061   6.300.7   6.200   6.235.5   5,277.5   5,581.8   2.99   22.9   194.81   2,281.0   7.100   3,065.1   3,622.1   44.02   82.23   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0   2.201.0															
6.000 6.038.2 6.430 6.374.0 22.0 134.49 2.348.2 74.2 3.000.0 3.066.5 42.53 64.67   6.200 6.134.9 5.0303 5.467.9 22.4 134.69 2.094.6 74.60 3.067.1 3.067.3 3.094.3 4.27 64.001   6.200 6.233.6 5.025.7 5.561.8 25.9 22.9 134.61 2.094.6 74.00 3.066.1 3.052.1 44.02 82.03   6.200 6.333.0 5.205.7 5.561.8 25.9 22.9 134.61 2.094.6 74.00 3.066.1 3.052.1 44.02 82.03   6.200 6.323.0 5.214.0 5.665.7 20.3 23.3 134.96 2.097.4 721.4 3.094.7 3.060.0 44.77 82.51   6.200 6.200.0 6.200.0 5.200.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0 5.000.0															
6,300   6,223   5,6257   5,5618   259   229   134.81   2,881															
6,300, 6,233, 6,506,7	6.200.0	6.134.9	5.530.3	5.467.9	25.4	22.5	134.65	2.964.6	-716.6	3.637.6	3.594.3	43.27	84.061		
6,000   6,382   5,721															
6,500.0         6,541.0         6,816.4         5,749.6         28.8         23.7         135.12         3,013.7         -723.8         3,732.4         3,776.7         45.22         81.009           6,700.0         6,682.3         6,007.1         5,937.4         27.6         24.6         135.41         3,046.5         -728.6         3,780.7         3,733.8         47.01         80.422           6,000.0         6,525.7         6,978.6         6,003.5         6,555.7         6,978.6         6,003.7         1,757.6         46.55.7         7,976.4         6,003.3         28.55.7         6,978.6         6,907.9         20.0         28.4         135.70         3,079.3         -73.34         3,880.3         3,789.6         45.50         79.127           7,000.0         6,924.4         6,987.9         20.0         28.4         137.00         3,153.2         -73.26         3,866.3         3,814.0         52.27         73.310           7,200.0         7,121.8         7,184.7         7,091.0         29.9         28.9         138.45         3,153.5         -80.0         3,889.2         3,835.6         53.60         72.664           7,300.0         7,231.9         7,347.2         7,197.0         7,307.2         21.1															
6,700.0 6,628.3 6,007.1 5,937.4 27.6 24.6 135.41 3,046.5 .728.6 3,780.7 3,733.6 47.01 80.422 6,800.0 6,727.0 6,102.4 6,031.3 28.1 25.0 135.56 3,062.9 .731.0 3,809.3 3,761.6 47.76 79.764 6,900.0 6,925.7 6,197.8 6,152.2 28.5 25.4 137.00 3,152.2 .722.8 3,809.3 3,761.6 27.7 79.700.0 6,924.4 6,931.3 7,004.9 7,011.0 29.4 28.7 137.72 3,153.3 .701.1 3,877.5 3,866.3 3,814.0 52.27 73,986 77,000.7 7,023.1 7,004.9 7,011.0 29.4 28.7 137.72 3,153.3 .701.1 3,877.5 3,865.3 3,814.0 52.27 73,986 77,000.0 7,203.1 7,004.9 7,011.0 29.4 28.7 137.72 3,153.3 .701.1 3,877.5 3,865.3 5,860 72,284 73,900.0 7,203.4 7,287.2 7,150.3 30.3 20.0 139.15 3,153.6 .819.1 3,901.7 3,847.5 41.8 72,012 7,700.0 7,319.1 7,315.2 7,163.7 30.7 26.1 139.76 3,153.8 .850.7 3,915.6 3,860.8 54.7 7,154.8 7,400.0 7,319.1 7,315.2 7,163.7 30.7 26.1 139.76 3,153.8 .850.7 3,915.6 3,860.8 54.7 7,154.8 7,500.0 7,417.8 7,347.2 7,216.0 31.0 26.2 140.16 3,153.8 .850.7 3,915.6 3,860.8 54.7 7,161.1 7,700.0 7,518.9 7,400.0 7,318.8 7,225.7 31.2 26.2 140.18 3,153.8 .850.7 3,870.6 55.07 71,284.7 7,500.0 7,518.9 7,400.0 7,318.8 7,225.7 31.2 26.2 140.18 3,153.8 .850.7 3,815.6 3,800.9 54.7 3,870.6 55.07 71,884.7 7,800.0 7,518.8 7,225.7 31.2 26.2 140.39 3,153.8 .850.7 3,815.8 3,800.0 3,875.7 55.24 71,161.1 7,800.0 7,518.8 7,225.7 31.2 26.2 140.39 3,153.8 3,154.0 .850.7 3,800.0 3,875.7 55.24 71,161.1 7,800.0 7,518.8 7,225.7 31.2 26.2 140.39 3,154.0 .850.7 3,154.1 .400.1 3,862.3 3,900.2 56.13 70.888 7,800.0 7,518.8 7,225.7 31.2 26.2 140.39 3,154.0 .850.7 3,154.1 .400.1 3,862.3 3,900.2 56.13 70.888 7,800.0 7,518.8 7,225.7 31.2 26.2 140.39 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154.0 .400.1 3,154		6,431.0	5,816.4	5,749.6	26.8	23.7	135.12	3,013.7	-723.8	3,723.4		45.52	81.805		
6,800.0         6,727.0         6,102.4         6,013.3         28.1         25.0         155.56         3,082.9         -731.0         3,809.3         3,786.6         47.76         707.04           6,900.0         6,802.7         6,197.8         6,087.0         6,007.9         29.0         28.4         135.70         3,153.2         -732.6         3,866.3         3,814.0         52.27         73.966           7,100.0         7,023.1         7,094.9         7,011.0         29.4         28.7         137.72         3,153.5         -701.1         3,876.5         3,866.3         3,814.0         52.27         73.966           7,200.0         7,220.1         7,147.8         7,144.7         7,091.0         29.9         28.9         183.45         3,153.5         -806.6         3,882.2         3,835.6         53.00         7.201.0         7,347.2         7,150.3         30.3         22.0         180.15         3,153.6         -819.1         3,017.7         3,847.5         54.8         7,201.2         7,216.0         7,347.2         7,160.3         30.7         23.1         19.79.9         8,600.3         3,153.6         -819.1         3,007.7         3,875.6         53.00         7,212.4         3,141.0         3,153.6         -819	6,600.0	6,529.6	5,911.7	5,843.5	27.2	24.2	135.26	3,030.1	-726.2	3,752.0	3,705.7	46.26	81.102		
6,000   6,825   6,197	6,700.0	6,628.3	6,007.1	5,937.4	27.6	24.6	135.41	3,046.5	-728.6	3,780.7	3,733.6	47.01	80.422		
7,000         6,024.4         6,087.0         6,097.9         29.0         28.4         137.09         3,153.2         -732.6         3,886.3         3,814.0         52.27         73.966           7,000.0         7,023.1         7,094.9         7,011.0         29.4         28.7         137.72         3,153.3         -701.1         3,877.6         3,824.6         52.97         73.210           7,200.0         7,220.4         7,257.2         7,150.3         30.3         29.0         139.15         3,153.6         -819.1         3,901.7         3,847.5         54.18         72.012           7,400.0         7,319.1         7,319.7         7,319.3         30.7         29.1         139.79         3,153.8         -580.7         3,315.6         3,680.8         547.3         71.244           7,500.0         7,417.8         7,380.8         7,225.7         7,310.0         310.2         29.2         140.09         3,153.9         -546.8         3,331.0         3,577.7         55.24         71.161           7,600.0         7,516.9         7,400.0         7,248.8         31.6         29.3         141.00         3,154.0         -517.1         3,940.2         56.13         70.686           7,800.0         7	6,800.0	6,727.0	6,102.4	6,031.3	28.1	25.0	135.56	3,062.9	-731.0	3,809.3	3,761.6	47.76	79.764		
7,1000 7,023 1 7,094 9 7,011 0 29.4 28.7 137.72 3,153.3 -701.1 3,877.6 3,824.6 52.97 73.210  7,2000 7,121.8 7,184.7 7,091.0 29.9 28.9 189.15 3,153.6 -600.6 3,889.2 3,835.6 53.60 72.564  7,2000 7,2024 7,257.2 7,150.3 30.3 29.0 139.15 3,153.6 -600.6 3,889.2 3,835.6 53.60 72.564  7,2000 7,204 7,272.7 7,192.7 30.7 29.1 139.79 3,153.8 -50.7 3,915.6 3,800.8 54.73 71.566  7,486.5 7,384.7 7,347.2 7,216.0 31.0 29.2 140.16 3,153.8 -50.7 3,915.6 3,800.8 54.73 71.584  7,500.0 7,417.8 7,361.8 7,225.7 31.2 29.2 140.13 3,153.9 -546.8 3,331.0 3,875.7 552.4 71.161  7,500.0 7,516.9 7,400.0 7,248.8 31.6 29.3 141.00 3,154.0 -517.1 3,446.7 3,809.9 55.70 70.850  7,700.0 7,616.2 7,433.2 7,280.0 32.0 29.3 141.57 3,154.1 -490.1 3,962.3 3,900.2 66.13 70.588  7,500.0 7,158.7 461.3 7,284.1 32.4 29.3 142.07 3,154.2 -466.4 3,757.1 3,221.6 56.51 70.393  7,500.0 7,515.8 7,461.3 7,284.1 3.2 4 29.3 142.07 3,154.2 -466.4 3,757.1 3,821.6 56.51 70.393  8,086.5 8,002.0 7,524.3 7,313.5 33.1 29.4 14.224 3,154.2 445.1 3,993.9 3,937.1 56.85 70.256  8,100.0 8,015.5 7,500.0 7,302.9 33.1 29.4 14.224 3,154.2 445.1 3,993.9 3,937.1 56.85 70.256  8,100.0 8,015.5 7,526.8 7,314.6 33.4 29.5 86.42 3,154.4 408.4 4,026.0 3,866.6 57.37 70.174  8,100.0 8,015.5 7,526.8 7,314.6 33.4 29.5 86.42 3,154.4 408.4 4,026.0 3,866.6 57.37 70.174  8,100.0 8,015.5 7,526.8 7,331.7 33.8 29.5 83.46 3,154.4 408.4 4,026.0 3,866.6 57.37 70.174  8,100.0 8,015.5 7,526.8 7,331.7 33.8 29.5 83.46 3,154.4 408.4 4,026.0 3,866.6 57.37 70.174  8,100.0 8,015.5 7,526.8 7,331.7 33.8 29.5 83.46 3,154.4 408.4 4,026.0 3,866.6 57.37 70.174  8,100.0 8,015.5 7,526.8 7,331.7 33.8 29.5 83.46 3,154.4 408.4 4,026.0 3,866.6 57.37 70.174  8,100.0 8,015.5 7,526.8 7,331.7 33.8 29.5 83.46 3,154.4 408.4 4,026.0 3,866.6 57.37 70.174  8,100.0 8,105.5 7,526.8 7,331.7 33.8 29.5 83.46 3,154.4 408.4 4,026.0 3,866.6 57.37 70.174  8,100.0 8,105.5 7,526.8 7,331.7 33.8 29.5 83.46 3,154.4 408.4 4,026.0 3,866.6 57.37 70.174  8,100.0 8,105.5 7,526.8 7,331.7 33.8 29.5 83.46 3,154.4 408.4 4,026.0 3,866.6 57.37 70.174  8,100.0 8,	6,900.0	6,825.7	6,197.8	6,125.2	28.5	25.4	135.70	3,079.3	-733.4	3,838.0	3,789.5	48.50	79.127		
7,200.0 7,121.8 7,184.7 7,091.0 29.9 28.9 138.45 3,153.5 60.6 3,889.2 3,835.6 53.60 72.564 7,300.0 7,220.4 7,257.2 7,150.3 30.3 20.0 139.15 3,153.6 619.1 3,901.7 3,847.5 54.18 72.012 7,400.0 7,319.1 7,315.2 7,193.7 30.7 20.1 139.79 3,153.8 4-80.7 3,915.6 3,860.8 64.73 71.546 7,466.5 7,384.7 7,347.2 7,216.0 31.0 29.2 140.16 3,153.8 4-80.7 3,915.6 3,860.8 54.73 71.546 7,466.5 7,384.7 7,347.2 7,216.0 31.0 29.2 140.16 3,153.8 4-80.7 3,915.6 3,860.8 54.73 71.546 7,460.0 7,417.8 7,361.8 7,225.7 31.2 29.2 140.39 3,153.9 546.8 3,391.0 3,875.7 552.4 71.161 7,600.0 7,417.8 7,400.0 7,249.8 31.6 29.3 141.00 3,153.9 546.8 3,391.0 3,875.7 552.4 71.161 7,600.0 7,516.9 7,400.0 7,249.8 31.6 29.3 141.00 3,154.0 4.91.1 4.90.1 3,962.3 3,906.2 66.13 70.588 7,800.0 7,151.6 7,458.6 7,266.3 32.8 29.4 142.54 3,154.2 466.4 3,978.1 3,962.3 3,906.2 66.13 70.588 7,800.0 7,151.6 7,458.6 7,266.3 32.8 29.4 142.54 3,154.2 466.4 3,978.1 3,921.6 66.11 70.393 8,000.0 7,915.5 7,500.0 7,302.9 33.1 29.4 142.87 3,154.3 432.6 4,009.9 3,952.8 57.10 70.230 8,086.5 8,002.0 7,524.3 7,313.5 33.3 29.4 142.87 3,154.3 432.6 4,009.9 3,952.8 57.10 70.230 8,086.5 8,002.0 7,524.3 7,313.5 33.3 29.4 142.87 3,154.4 410.4 4,023.0 3,968.4 57.34 70.169 8,100.0 8,015.5 7,550.0 7,323.7 33.6 29.5 864.6 3,154.4 498.4 4,026.0 3,968.6 57.37 70.174 8,150.0 8,068.4 7,538.9 7,318.7 33.5 29.5 864.6 3,154.4 498.4 4,026.0 3,968.6 57.37 70.174 8,150.0 8,068.4 7,538.9 7,318.7 33.5 29.5 86.40 3,154.4 498.4 4,026.0 3,968.6 57.37 70.174 8,450.0 8,168.7 7,550.0 7,323.7 33.6 29.5 864.6 3,154.4 498.4 4,084.4 4,086.0 3,978.8 57.55 70.346 8,260.0 8,141.8 7,550.0 7,333.7 33.6 29.5 864.6 3,154.4 498.4 4,084.4 4,086.3 8,978.8 57.4 70.206 8,300.0 8,210.6 7,572.3 7,331.7 33.8 29.5 86.6 80.57 3,154.6 380.1 4,069.3 4,001.6 57.87 70.391 8,800.0 8,648.6 7,580.0 7,383.7 33.9 29.8 7.708 8,500.0 8,384.6 7,580.0 7,385.5 33.9 29.8 7.708 8,500.0 8,416.6 7,650.0 7,385.5 33.9 29.8 7.708 8,500.0 8,416.6 7,650.0 7,385.5 33.9 29.8 7.708 8,500.0 8,584.8 7,700.0 7,385.5 33.9 30.0 7.7513 3,154.9 242.4 4,118.4 4,0	7,000.0	6,924.4	6,987.0	6,907.9	29.0	28.4	137.09	3,153.2	-732.6	3,866.3	3,814.0	52.27	73.966		
7,300.0         7,220.4         7,257.2         7,150.3         30.3         29.0         139.15         3,153.6         6,491.1         3,901.7         3,847.5         54.18         72.012           7,400.0         7,319.1         7,315.2         7,193.7         30.7         29.1         139.79         3,153.8         -50.7         3,915.6         3,860.8         54.73         71,546           7,800.0         7,417.8         7,361.8         7,225.7         31.2         29.2         140.18         3,153.8         -50.7         3,925.7         3,870.6         55.04         71,164           7,800.0         7,417.8         7,361.8         7,225.7         31.2         29.2         140.39         3,153.9         -546.8         3,931.0         3,870.6         55.04         71,164           7,800.0         7,418.8         7,268.8         31.6         29.3         141.57         3,154.1         4.90.1         3,966.2         56.13         70.585           7,800.0         7,315.8         7,461.3         7,228.3         32.8         29.4         142.87         3,154.1         4.90.1         3,937.1         56.85         70.250           8,000.0         7,315.5         7,528.8         7,314.6         3	7,100.0	7,023.1	7,094.9	7,011.0	29.4	28.7	137.72	3,153.3	-701.1	3,877.6	3,824.6	52.97	73.210		
7,400.0         7,316.1         7,316.2         7,136.7         30.7         28.1         138.79         3,153.8         -580.7         3,915.6         3,860.8         54.73         71,546           7,466.5         7,384.7         7,347.2         7,216.0         31.0         29.2         140.39         3,153.8         -580.7         3,925.7         3870.6         55.07         71,284           7,600.0         7,516.9         7,400.0         7,249.8         31.6         29.3         141.00         3,153.8         -560.7         3,980.7         55.70         70.850           7,700.0         7,616.2         7,437.2         7,280.0         32.0         29.3         141.07         3,154.1         490.1         3,962.3         3,906.2         56.13         70.958           7,800.0         7,715.8         7,461.3         7,280.0         32.0         29.3         141.20         3,154.2         466.4         3,997.81         3,921.6         56.51         70.938           8,000.0         7,915.5         7,568.8         7,298.3         32.8         29.4         142.87         3,154.4         410.7         4,023.8         3,966.4         57.34         70.174           8,000.0         8,015.5         7,5	7,200.0	7,121.8	7,184.7	7,091.0	29.9	28.9	138.45	3,153.5	-660.6	3,889.2	3,835.6	53.60	72.564		
7.486.5         7.3847         7.472         7.216.0         31.0         29.2         140.18         3.153.8         -557.7         3.925.7         3.70.6         55.07         71.284           7.500.0         7.417.8         7.361.8         7.225.7         31.2         29.2         140.39         3.153.9         -546.8         3.931.0         3.875.7         55.24         71.161           7.600.0         7.516.9         7.400.0         7.249.8         31.6         29.3         141.07         3.154.1         -490.1         3.962.3         3.900.2         56.13         70.850           7.600.0         7.715.8         7.461.3         7.284.1         32.4         29.3         141.57         3.154.1         -490.1         3.962.3         3.901.6         56.13         70.983           7.800.0         7.715.8         7.465.8         7.266.3         32.8         29.4         142.67         3.154.1         -490.1         3.987.1         36.51         70.256           8,000.0         7.915.5         7.500.0         7.302.9         33.1         29.4         142.87         3.154.3         -432.6         4.009.9         3.952.8         57.10         70.169           8,000.0         7.524.3         7.31	7,300.0	7,220.4	7,257.2	7,150.3	30.3	29.0	139.15	3,153.6	-619.1	3,901.7	3,847.5	54.18	72.012		
7,500.0         7,417.8         7,361.8         7,257.7         31.2         29.2         140.39         3,153.9         -546.8         3,931.0         3,875.7         55.24         71.161           7,600.0         7,516.9         7,400.0         7,249.8         31.6         29.3         141.00         3,154.0         -517.1         3,946.7         3,890.9         55.70         70.850           7,700.0         7,616.2         7,433.2         7,269.0         32.0         29.3         141.07         3,154.1         490.1         3,962.3         3,902.2         56.13         70.588           7,800.0         7,715.8         7,461.3         7,284.1         32.4         29.3         142.07         3,154.2         464.4         3,978.1         3,201.6         56.51         70.393           7,900.0         7,816.8         7,486.8         7,296.3         32.8         29.4         142.54         3,154.2         446.4         3,983.9         3,937.1         56.85         70.256           8,000.0         7,915.5         7,500.0         7,302.9         33.3         29.4         4.12         3,154.4         410.7         4,023.8         3,966.4         57.37         70.174           8,100.0         8,015.	7,400.0	7,319.1	7,315.2	7,193.7	30.7	29.1	139.79	3,153.8	-580.7	3,915.6	3,860.8	54.73	71.546		
7,600 0         7,516.9         7,400.0         7,248.8         31.6         29.3         141.00         3,154.0         -517.1         3,946.7         3,880.9         55.70         70.850           7,700.0         7,816.2         7,433.2         7,269.0         32.0         29.3         141.57         3,154.1         -490.1         3,962.3         3,062.2         56.13         70.588           7,000.0         7,815.6         7,468.8         7,269.3         32.8         29.4         142.54         3,154.2         -468.4         3,972.1         3,921.6         56.51         7,032.6           8,000.0         7,915.5         7,500.0         7,302.9         33.1         29.4         142.87         3,154.3         -432.6         4,009.9         3,982.8         57.10         70.230           8,000.0         7,526.8         7,314.6         33.3         29.4         412.8         3,154.4         -410.7         40.23.8         3,966.4         57.37         70.174           8,150.0         8,015.5         7,526.8         7,314.7         33.5         29.5         -85.42         3,154.4         -409.4         40.20.3         3,966.4         57.37         70.174           8,150.0         8,114.8															
7,700.0 7,816.2 7,433.2 7,269.0 32.0 29.3 141.57 3,154.1 -490.1 3,962.3 3,060.2 56.13 70.588 7,800.0 7,715.8 7,461.8 7,263.3 32.8 29.4 142.07 3,154.2 -466.4 3,978.1 3,921.6 56.51 70.393 7,900.0 7,915.5 7,500.0 7,302.9 33.1 29.4 142.87 3,154.3 -432.6 4,009.9 3,952.8 57.10 70.230 8,086.5 8,002.0 7,524.3 7,313.5 33.3 29.4 142.87 3,154.3 -432.6 4,009.9 3,952.8 57.10 70.230 8,086.5 8,002.0 7,524.3 7,313.5 33.3 29.4 142.87 3,154.4 -410.7 4,023.8 3,966.4 57.34 70.169 8,100.0 8,015.5 7,526.8 7,314.6 33.4 29.5 -85.42 3,154.4 -410.7 4,023.8 3,966.4 57.37 70.174 8,150.0 8,065.4 7,536.9 7,318.7 33.5 29.5 -84.46 3,154.4 -438.7 4,026.0 3,986.6 57.37 70.174 8,200.0 8,114.8 7,550.0 7,323.7 33.6 29.5 -83.46 3,154.4 -387.1 4,042.6 3,985.0 57.55 70.245 8,250.0 8,163.3 7,550.0 7,323.7 33.7 29.5 -82.61 3,154.4 -387.1 4,042.6 3,985.0 57.55 70.245 8,250.0 8,163.3 7,550.0 7,323.7 33.7 29.5 -82.61 3,154.4 -387.1 4,042.6 3,985.0 57.55 70.393 8,300.0 8,210.6 7,572.3 7,331.7 33.8 29.5 -81.53 3,154.5 -366.3 4,059.3 4,001.6 57.67 70.391 8,350.0 8,266.3 7,585.5 7,336.1 33.8 29.6 -79.64 3,154.6 -340.1 4,075.5 4,011.7 57.77 70.548 8,400.0 8,301.1 7,600.0 7,340.5 33.9 29.6 -79.84 3,154.6 -340.1 4,075.5 4,011.7 57.77 70.548 8,400.0 8,341.6 7,600.0 7,340.5 33.9 29.6 -79.87 3,154.6 -340.1 4,075.5 4,011.7 57.77 70.548 8,550.0 8,416.6 7,650.0 7,353.2 33.9 29.6 -79.87 3,154.6 -340.1 4,075.5 4,017.7 57.77 70.548 8,550.0 8,476.0 7,563.0 7,353.2 33.9 29.8 -76.46 3,154.8 -291.7 4,097.3 4,039.3 57.99 70.650 8,600.0 8,449.5 7,650.0 7,353.2 33.9 29.8 -76.46 3,154.8 -291.7 4,097.3 4,039.3 57.99 70.650 8,600.0 8,449.5 7,650.0 7,353.2 33.9 29.8 -76.46 3,154.9 -268.3 4,009.3 4,005.5 57.88 70.777 8,650.0 8,476.0 7,573.8 7,357.7 33.9 29.9 -75.76 3,154.9 -268.3 4,009.3 50.0 58.46 70.459 8,550.0 8,548.9 7,700.0 7,361.5 33.8 30.0 -74.71 3,154.9 -242.4 4,114.8 4,060.3 58.46 70.459 8,550.0 8,588.8 7,750.0 7,361.5 33.8 30.0 -74.71 3,155.0 -220.9 4,122.5 4,063.7 58.74 70.186 8,850.0 8,588.8 7,750.0 7,365.6 33.8 30.0 -73.31 3,154.9 -242.4 4,114.8 4,060.3 59.11 69.557 8,9	7,500.0	7,417.8	7,361.8	7,225.7	31.2	29.2	140.39	3,153.9	-546.8	3,931.0	3,875.7	55.24	71.161		
7,800.0 7,715.8 7,461.3 7,284.1 32.4 29.3 142.07 3,154.2 -466.4 3,978.1 3,921.6 56.51 70,393 7,900 7,315.6 7,485.8 7,296.3 32.8 29.4 142.54 3,154.2 -445.1 3,993.9 3,937.1 56.85 70,256 8,000.0 7,395.9 33.1 29.4 142.54 3,154.2 -445.1 3,993.9 3,937.1 56.85 70,256 8,000.0 7,7915.5 7,500.0 7,302.9 33.1 29.4 142.57 3,154.3 432.6 4,099.3 3,522.8 57.10 70,230 8,066.5 8,002.0 7,524.3 7,313.5 33.3 29.4 4.12 3,154.4 -410.7 4,023.8 3,966.4 57.34 70,169 8,100.0 8,015.5 7,526.8 7,314.6 33.4 29.5 -85.42 3,154.4 -408.4 4,026.0 3,988.6 57.37 70,174 8,150.0 8,065.4 7,536.9 7,318.7 33.5 29.5 -84.46 3,154.4 -399.2 4,034.2 3,976.8 57.46 70,206 8,200.0 8,114.8 7,550.0 7,323.7 33.6 29.5 -83.46 3,154.4 -387.1 4,026.0 3,976.8 57.46 70,206 8,250.0 8,163.3 7,550.0 7,323.7 33.7 29.5 -82.61 3,154.4 -387.1 4,051.0 3,993.4 57.55 70,245 8,250.0 8,163.3 7,550.0 7,323.7 33.8 29.5 -81.53 3,154.5 -386.3 4,095.3 4,001.6 57.67 70,391 8,350.0 8,256.3 7,585.5 7,336.1 33.8 29.6 -80.57 3,154.6 -335.8 4,067.5 4,009.8 57.72 70,471 8,400.0 8,300.1 7,600.0 7,340.5 33.9 29.6 -79.64 3,154.6 -340.1 4,075.5 4,017.7 57.77 70,548 8,450.0 8,341.6 7,650.0 7,346.5 33.9 29.6 -78.67 3,154.6 -340.1 4,075.5 4,017.7 57.77 70,548 8,500.0 8,341.6 7,650.0 7,348.1 33.9 29.6 -78.67 3,154.6 -340.1 4,075.5 4,017.7 57.77 70,548 8,500.0 8,341.6 7,650.0 7,345.2 33.9 29.6 -78.67 3,154.6 -340.1 4,075.5 4,017.7 57.77 70,548 8,500.0 8,446.6 7,650.0 7,346.5 33.9 29.6 -78.67 3,154.6 -340.1 4,075.5 4,017.7 57.77 70,548 8,500.0 8,446.6 7,650.0 7,346.5 33.9 29.6 -78.67 3,154.6 -340.1 4,075.5 4,017.7 57.77 70,548 8,500.0 8,446.6 7,650.0 7,345.1 33.9 29.6 -78.67 3,154.6 -340.1 4,075.5 4,017.7 57.77 70,548 8,500.0 8,446.6 7,650.0 7,346.5 33.9 29.6 -78.67 3,154.6 -340.1 4,075.5 4,017.7 57.77 70,548 8,500.0 8,446.6 7,650.0 7,346.5 33.9 29.8 -75.66 3,154.9 -291.7 4,097.3 4,033.3 57.99 70,650 8,660.0 8,449.5 7,650.0 7,355.2 33.9 29.8 -75.66 3,154.9 -291.7 4,097.3 4,093.3 57.99 70,650 8,660.0 8,449.5 7,750.0 7,361.5 33.9 39.0 -75.76 3,154.9 -292.9 4,125.5 4,063.7 56.7 9,700.0 7,361.5 33.9 39.0 -7	7,600.0	7,516.9	7,400.0	7,249.8	31.6	29.3	141.00	3,154.0	-517.1	3,946.7	3,890.9	55.70	70.850		
7,900.0         7,815.6         7,485.8         7,296.3         32.8         29.4         142.54         3,154.2         -445.1         3,993.9         3,937.1         56.85         70.256           8,000.0         7,915.5         7,500.0         7,302.9         33.1         29.4         142.87         3,154.3         -432.6         4,009.9         3,952.8         57.10         70.250           8,086.5         8,002.0         7,524.3         7,314.6         33.4         29.5         -85.42         3,154.4         -408.4         4,026.0         3,968.6         57.37         70.174           8,150.0         8,065.4         7,536.9         7,318.7         33.5         29.5         -84.46         3,154.4         -399.2         4,034.2         3,976.8         57.46         70.206           8,250.0         8,148.8         7,550.0         7,323.7         33.7         29.5         -82.61         3,154.4         -387.1         4,042.6         3,985.0         57.55         70.245           8,300.0         8,210.6         7,572.3         7,331.7         33.8         29.5         -81.53         3,154.6         -363.1         4,042.6         3,993.4         57.57         70.391           8,300.0															
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8,400.0       8,300.1       7,600.0       7,340.5       33.9       29.6       -79.64       3,154.6       -340.1       4,075.5       4,017.7       57.77       70.548         8,450.0       8,341.6       7,600.0       7,340.5       33.9       29.6       -78.87       3,154.6       -340.1       4,083.2       4,025.5       57.73       70.732         8,500.0       8,380.6       7,628.0       7,348.1       33.9       29.7       -77.92       3,154.7       -313.1       4,090.4       4,032.5       57.88       70.673         8,550.0       8,416.6       7,650.0       7,353.2       33.9       29.8       -77.08       3,154.8       -291.7       4,097.3       4,039.3       57.99       70.650         8,600.0       8,449.5       7,650.0       7,353.2       33.9       29.8       -76.46       3,154.8       -291.7       4,103.6       4,045.6       57.98       70.777         8,650.0       8,479.0       7,673.8       7,357.7       33.9       29.9       -75.76       3,154.9       -268.3       4,109.3       4,051.1       58.16       70.654         8,750.0       7,361.5       33.8       30.0       -75.13       3,154.9       -242.4       4,114.4       <	8,300.0	8,210.6	7,572.3	7,331.7	33.8	29.5	-81.53	3,154.5	-366.3	4,059.3	4,001.6	57.67	70.391		
8,450.0       8,341.6       7,600.0       7,340.5       33.9       29.6       -78.87       3,154.6       -340.1       4,083.2       4,025.5       57.73       70.732         8,500.0       8,380.6       7,628.0       7,348.1       33.9       29.7       -77.92       3,154.7       -313.1       4,090.4       4,032.5       57.88       70.673         8,550.0       8,416.6       7,650.0       7,353.2       33.9       29.8       -76.46       3,154.8       -291.7       4,097.3       4,039.3       57.99       70.650         8,650.0       8,449.5       7,650.0       7,353.2       33.9       29.8       -76.46       3,154.8       -291.7       4,103.6       4,045.6       57.98       70.777         8,650.0       8,479.0       7,673.8       7,357.7       33.9       29.9       -75.76       3,154.9       -268.3       4,109.3       4,051.1       58.16       70.654         8,700.0       8,504.8       7,700.0       7,361.5       33.9       30.0       -75.13       3,154.9       -242.4       4,114.4       4,066.0       58.39       70.470         8,800.0       8,544.9       7,721.7       7,363.8       33.8       30.1       -74.27       3,155.0		8,256.3	7,585.5	7,336.1	33.8	29.6	-80.57	3,154.6	-353.8	4,067.5	4,009.8	57.72	70.471		
8,500.0       8,380.6       7,628.0       7,348.1       33.9       29.7       -77.92       3,154.7       -313.1       4,090.4       4,032.5       57.88       70.673         8,550.0       8,416.6       7,650.0       7,353.2       33.9       29.8       -77.08       3,154.8       -291.7       4,097.3       4,039.3       57.99       70.650         8,600.0       8,449.5       7,650.0       7,353.2       33.9       29.8       -76.46       3,154.8       -291.7       4,103.6       4,045.6       57.98       70.777         8,650.0       8,479.0       7,673.8       7,357.7       33.9       29.9       -75.76       3,154.9       -268.3       4,109.3       4,051.1       58.16       70.654         8,700.0       8,504.8       7,700.0       7,361.5       33.9       30.0       -75.13       3,154.9       -242.4       4,114.4       4,056.0       58.39       70.470         8,750.0       8,526.9       7,700.0       7,361.5       33.8       30.0       -74.71       3,154.9       -242.4       4,118.8       4,060.3       58.46       70.459         8,800.0       8,544.9       7,721.7       7,363.8       33.8       30.1       -74.27       3,155.0	8,400.0	8,300.1	7,600.0	7,340.5	33.9	29.6	-79.64	3,154.6	-340.1	4,075.5	4,017.7	57.77	70.548		
8,550.0 8,416.6 7,650.0 7,353.2 33.9 29.8 -77.08 3,154.8 -291.7 4,097.3 4,039.3 57.99 70.650 8,600.0 8,449.5 7,650.0 7,353.2 33.9 29.8 -76.46 3,154.8 -291.7 4,103.6 4,045.6 57.98 70.777 8,650.0 8,479.0 7,673.8 7,357.7 33.9 29.9 -75.76 3,154.9 -268.3 4,109.3 4,051.1 58.16 70.654 8,700.0 8,504.8 7,700.0 7,361.5 33.9 30.0 -75.13 3,154.9 -242.4 4,114.4 4,056.0 58.39 70.470 8,750.0 8,526.9 7,700.0 7,361.5 33.8 30.0 -74.71 3,154.9 -242.4 4,114.8 4,060.3 58.46 70.459 8,800.0 8,544.9 7,721.7 7,363.8 33.8 30.1 -74.27 3,155.0 -220.9 4,122.5 4,063.7 58.74 70.186 8,850.0 8,558.8 7,750.0 7,365.6 33.8 30.3 -73.92 3,155.1 -192.6 4,125.4 4,066.3 59.11 69.795 8,900.0 8,568.4 7,754.2 7,365.7 33.7 30.3 -73.71 3,155.1 -188.4 4,127.5 4,068.1 59.34 69.557 8,950.0 8,573.8 7,807.2 7,367.0 33.7 30.7 -73.55 3,155.2 -135.5 4,128.5 4,068.5 60.03 68.773 8,986.5 8,575.0 7,843.6 7,367.9 33.7 31.0 -73.55 3,155.3 -99.0 4,128.5 4,067.9 60.58 68.147	8,450.0	8,341.6	7,600.0	7,340.5	33.9	29.6	-78.87	3,154.6	-340.1	4,083.2	4,025.5	57.73	70.732		
8,600.0 8,449.5 7,650.0 7,353.2 33.9 29.8 -76.46 3,154.8 -291.7 4,103.6 4,045.6 57.98 70.777 8,650.0 8,479.0 7,673.8 7,357.7 33.9 29.9 -75.76 3,154.9 -268.3 4,109.3 4,051.1 58.16 70.654 8,700.0 8,504.8 7,700.0 7,361.5 33.9 30.0 -75.13 3,154.9 -242.4 4,114.4 4,056.0 58.39 70.470 8,750.0 8,526.9 7,700.0 7,361.5 33.8 30.0 -74.71 3,154.9 -242.4 4,118.8 4,060.3 58.46 70.459  8,800.0 8,544.9 7,721.7 7,363.8 33.8 30.1 -74.27 3,155.0 -220.9 4,122.5 4,063.7 58.74 70.186 8,850.0 8,558.8 7,750.0 7,365.6 33.8 30.3 -73.92 3,155.1 -192.6 4,125.4 4,066.3 59.11 69.795 8,900.0 8,568.4 7,754.2 7,365.7 33.7 30.3 -73.71 3,155.1 -188.4 4,127.5 4,068.1 59.34 69.557 8,950.0 8,573.8 7,807.2 7,367.0 33.7 30.7 -73.55 3,155.2 -135.5 4,128.5 4,068.5 60.03 68.773 8,986.5 8,575.0 7,843.6 7,367.9 33.7 31.0 -73.55 3,155.3 -99.0 4,128.5 4,067.9 60.58 68.147	8,500.0	8,380.6	7,628.0	7,348.1	33.9	29.7	-77.92	3,154.7	-313.1	4,090.4	4,032.5	57.88	70.673		
8,650.0       8,479.0       7,673.8       7,357.7       33.9       29.9       -75.76       3,154.9       -268.3       4,109.3       4,051.1       58.16       70.654         8,700.0       8,504.8       7,700.0       7,361.5       33.9       30.0       -75.13       3,154.9       -242.4       4,114.4       4,056.0       58.39       70.470         8,750.0       8,526.9       7,700.0       7,361.5       33.8       30.0       -74.71       3,154.9       -242.4       4,118.8       4,060.3       58.46       70.459         8,800.0       8,544.9       7,721.7       7,363.8       33.8       30.1       -74.27       3,155.0       -220.9       4,122.5       4,063.7       58.74       70.186         8,850.0       8,558.8       7,750.0       7,365.6       33.8       30.3       -73.92       3,155.1       -192.6       4,125.4       4,066.3       59.11       69.795         8,900.0       8,568.4       7,754.2       7,365.7       33.7       30.3       -73.71       3,155.1       -188.4       4,127.5       4,068.1       59.34       69.557         8,950.0       8,573.8       7,807.2       7,367.0       33.7       30.7       -73.55       3,155.2		8,416.6				29.8	-77.08	3,154.8		4,097.3	4,039.3	57.99			
8,700.0       8,504.8       7,700.0       7,361.5       33.9       30.0       -75.13       3,154.9       -242.4       4,114.4       4,056.0       58.39       70.470         8,750.0       8,526.9       7,700.0       7,361.5       33.8       30.0       -74.71       3,154.9       -242.4       4,118.8       4,060.3       58.46       70.459         8,800.0       8,544.9       7,721.7       7,363.8       33.8       30.1       -74.27       3,155.0       -220.9       4,122.5       4,063.7       58.74       70.186         8,850.0       8,558.8       7,750.0       7,365.6       33.8       30.3       -73.92       3,155.1       -192.6       4,125.4       4,066.3       59.11       69.795         8,900.0       8,568.4       7,754.2       7,365.7       33.7       30.3       -73.71       3,155.1       -188.4       4,127.5       4,068.1       59.34       69.557         8,950.0       8,573.8       7,807.2       7,367.0       33.7       30.7       -73.55       3,155.2       -135.5       4,128.5       4,068.5       60.03       68.773         8,986.5       8,575.0       7,843.6       7,367.9       33.7       31.0       -73.55       3,155.3		8,449.5				29.8						57.98			
8,750.0       8,526.9       7,700.0       7,361.5       33.8       30.0       -74.71       3,154.9       -242.4       4,118.8       4,060.3       58.46       70.459         8,800.0       8,544.9       7,721.7       7,363.8       33.8       30.1       -74.27       3,155.0       -220.9       4,122.5       4,063.7       58.74       70.186         8,850.0       8,558.8       7,750.0       7,365.6       33.8       30.3       -73.92       3,155.1       -192.6       4,125.4       4,066.3       59.11       69.795         8,900.0       8,568.4       7,754.2       7,365.7       33.7       30.3       -73.71       3,155.1       -188.4       4,127.5       4,068.1       59.34       69.557         8,950.0       8,573.8       7,807.2       7,367.0       33.7       30.7       -73.55       3,155.2       -135.5       4,128.5       4,068.5       60.03       68.773         8,986.5       8,575.0       7,843.6       7,367.9       33.7       31.0       -73.55       3,155.3       -99.0       4,128.5       4,067.9       60.58       68.147		8,479.0								4,109.3		58.16			
8,800.0 8,544.9 7,721.7 7,363.8 33.8 30.1 -74.27 3,155.0 -220.9 4,122.5 4,063.7 58.74 70.186 8,850.0 8,558.8 7,750.0 7,365.6 33.8 30.3 -73.92 3,155.1 -192.6 4,125.4 4,066.3 59.11 69.795 8,900.0 8,568.4 7,754.2 7,365.7 33.7 30.3 -73.71 3,155.1 -188.4 4,127.5 4,068.1 59.34 69.557 8,950.0 8,573.8 7,807.2 7,367.0 33.7 30.7 -73.55 3,155.2 -135.5 4,128.5 4,068.5 60.03 68.773 8,986.5 8,575.0 7,843.6 7,367.9 33.7 31.0 -73.55 3,155.3 -99.0 4,128.5 4,067.9 60.58 68.147															
8,850.0       8,558.8       7,750.0       7,365.6       33.8       30.3       -73.92       3,155.1       -192.6       4,125.4       4,066.3       59.11       69.795         8,900.0       8,568.4       7,754.2       7,365.7       33.7       30.3       -73.71       3,155.1       -188.4       4,127.5       4,068.1       59.34       69.557         8,950.0       8,573.8       7,807.2       7,367.0       33.7       30.7       -73.55       3,155.2       -135.5       4,128.5       4,068.5       60.03       68.773         8,986.5       8,575.0       7,843.6       7,367.9       33.7       31.0       -73.55       3,155.3       -99.0       4,128.5       4,067.9       60.58       68.147	8,750.0	8,526.9		7,361.5	33.8	30.0	-74.71	3,154.9	-242.4	4,118.8	4,060.3	58.46	70.459		
8,900.0     8,568.4     7,754.2     7,365.7     33.7     30.3     -73.71     3,155.1     -188.4     4,127.5     4,068.1     59.34     69.557       8,950.0     8,573.8     7,807.2     7,367.0     33.7     30.7     -73.55     3,155.2     -135.5     4,128.5     4,068.5     60.03     68.773       8,986.5     8,575.0     7,843.6     7,367.9     33.7     31.0     -73.55     3,155.3     -99.0     4,128.5     4,067.9     60.58     68.147															
8,950.0     8,573.8     7,807.2     7,367.0     33.7     30.7     -73.55     3,155.2     -135.5     4,128.5     4,068.5     60.03     68.773       8,986.5     8,575.0     7,843.6     7,367.9     33.7     31.0     -73.55     3,155.3     -99.0     4,128.5     4,067.9     60.58     68.147															
8,986.5 8,575.0 7,843.6 7,367.9 33.7 31.0 -73.55 3,155.3 -99.0 4,128.5 4,067.9 60.58 68.147															
	8,993.2	8,575.0	7,850.3	7,368.1	33.8	31.1	-73.55	3,155.3	-92.3	4,128.5	4,067.8	60.69	68.030		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Well Simon Camamile Fed Com #126H

Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #113H	- BLM Plan	#1 - BLM	Plan #1			Offset Site Error:	0.0 usft
Survey Prog Refer		WD Offset	•	Semi Major	· Δyis				Dista	ance			Offset Well Error:	0.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
9,000.0	8,575.0	7,857.1	7,368.3	33.8	31.2	-73.56	3,155.3	-85.5	4,128.4	4,067.6	60.79	67.910		
9,100.0	8,575.0	7,957.1	7,370.7	33.9	32.2	-73.59	3,155.4	14.4	4,127.7	4,065.2	62.53	66.013		
9,200.0	8,575.0	8,057.1	7,373.2	34.4	33.4	-73.62	3,155.5	114.4	4,127.0	4,062.5	64.56	63.922		
9,300.0	8,575.0	8,157.0	7,375.7	35.3	34.8	-73.65	3,155.6	214.3	4,126.3	4,059.5	66.87	61.708		
9,400.0	8,575.0	8,257.0	7,378.2	36.3	36.3	-73.69	3,155.8	314.3	4,125.6	4,056.2	69.42	59.430		
9,500.0	8,575.0	8,357.0	7,380.7	37.6	37.9	-73.72	3,155.9	414.2	4,125.0	4,052.8	72.19	57.138		
9,600.0	8,575.0	8,457.0	7,383.1	38.9	39.6	-73.75	3,156.0	514.1	4,124.3	4,049.1	75.16	54.872		
9,700.0	8,575.0	8,556.9	7,385.6	40.4	41.4	-73.79	3,156.1	614.1	4,123.6	4,045.3	78.31	52.660		
9,800.0	8,575.0	8,656.9	7,388.1	41.9	43.3	-73.82	3,156.2	714.0	4,122.9	4,041.3	81.60	50.523		
9,900.0	8,575.0	8,756.9	7,390.6	43.6	45.2	-73.85	3,156.4	813.9	4,122.2	4,037.2	85.04	48.472		
10,000.0	8,575.0	8,856.8	7,393.1	45.3	47.1	-73.89	3,156.5	913.9	4,121.5	4,032.9	88.60	46.517		
10,100.0	8,575.0	8,956.8	7,395.5	47.0	49.1	-73.92	3,156.6	1,013.8	4,120.8	4,028.6	92.27	44.660		
10,200.0	8,575.0	9,056.8	7,398.0	48.9	51.2	-73.95	3,156.7	1,113.8	4,120.2	4,024.1	96.04	42.903		
10,300.0	8,575.0	9,156.7	7,400.5	50.8	53.2	-73.99	3,156.8	1,213.7	4,119.5	4,019.6	99.89	41.242		
10,400.0	8,575.0	9,256.7	7,403.0	52.7	55.3	-74.02	3,157.0	1,313.6	4,118.8	4,015.0	103.81	39.676		
10,500.0	8,575.0	9,356.7	7,405.5	54.7	57.5	-74.05	3,157.1	1,413.6	4,118.1	4,010.3	107.81	38.199		
10,600.0	8,575.0	9,456.6	7,407.9	56.7	59.6	-74.09	3,157.2	1,513.5	4,117.4	4,005.6	111.86	36.808		
10,700.0	8,575.0	9,556.6	7,410.4	58.7	61.8	-74.12	3,157.3	1,613.5	4,116.8	4,000.8	115.97	35.498		
10,800.0	8,575.0	9,656.6	7,412.9	60.8	64.0	-74.15	3,157.4	1,713.4	4,116.1	3,996.0	120.13	34.263		
10,900.0	8,575.0	9,756.6	7,415.4	62.9	66.2	-74.18	3,157.6	1,813.3	4,115.4	3,991.1	124.34	33.099		
11,000.0	8,575.0	9,856.5	7,417.9	65.0	68.5	-74.22	3,157.7	1,913.3	4,114.8	3,986.2	128.58	32.001		
11,100.0	8,575.0	9,956.5	7,420.3	67.1	70.7	-74.25	3,157.8	2,013.2	4,114.1	3,981.2	132.86	30.965		
11,200.0	8,575.0	10,056.5	7,422.8	69.3	73.0	-74.28	3,157.9	2,113.1	4,113.4	3,976.2	137.18	29.986		
11,300.0	8,575.0	10,156.4	7,425.3	71.5	75.2	-74.32	3,158.1	2,213.1	4,112.8	3,971.2	141.52	29.061		
11,400.0	8,575.0	10,256.4	7,427.8	73.7	77.5	-74.35	3,158.2	2,313.0	4,112.1	3,966.2	145.89	28.185		
11,500.0	8,575.0	10,356.4	7,430.3	75.9	79.8	-74.38	3,158.3	2,413.0	4,111.4	3,961.1	150.29	27.356		
11,600.0	8,575.0	10,456.3	7,432.7	78.2	82.1	-74.42	3,158.4	2,512.9	4,110.8	3,956.1	154.71	26.570		
11,700.0	8,575.0	10,556.3	7,435.2	80.4	84.4	-74.45	3,158.5	2,612.8	4,110.1	3,951.0	159.16	25.824		
11,800.0	8,575.0	10,656.3	7,437.7	82.7	86.8	-74.48	3,158.7	2,712.8	4,109.4	3,945.8	163.62	25.116		
11,900.0	8,575.0	10,756.2	7,440.2	84.9	89.1	-74.52	3,158.8	2,812.7	4,108.8	3,940.7	168.10	24.443		
12,000.0	8,575.0	10,856.2	7,442.7	87.2	91.4	-74.55	3,158.9	2,912.7	4,108.1	3,935.5	172.60	23.802		
12,100.0	8,575.0	10,956.2	7,445.2	89.5	93.8	-74.58	3,159.0	3,012.6	4,107.5	3,930.4	177.11	23.191		
12,200.0	8,575.0	11,056.2	7,447.6	91.8	96.1	-74.62	3,159.1	3,112.5	4,106.8	3,925.2	181.64	22.610		
12,300.0	8,575.0	11,156.1	7,450.1	94.1	98.5	-74.65	3,159.3	3,212.5	4,106.2	3,920.0	186.18	22.055		
12,400.0	8,575.0	11,256.1	7,452.6	96.4	100.8	-74.68	3,159.4	3,312.4	4,105.5	3,914.8	190.74	21.524		
12,500.0	8,575.0	11,356.1	7,455.1	98.7	103.2	-74.72	3,159.5	3,412.3	4,104.9	3,909.6	195.31	21.018		
12,600.0	8,575.0	11,456.0	7,457.6	101.0	105.5	-74.75	3,159.6	3,512.3	4,104.2	3,904.3	199.88	20.533		
12,700.0	8,575.0	11,556.0	7,460.0	103.4	107.9	-74.78	3,159.7	3,612.2	4,103.6	3,899.1	204.47	20.069		
12,800.0	8,575.0	11,656.0	7,462.5	105.7	110.3	-74.82	3,159.9	3,712.2	4,102.9	3,893.9	209.07	19.624		
12,900.0	8,575.0	11,755.9	7,465.0	108.0	112.7	-74.85	3,160.0	3,812.1	4,102.3	3,888.6	213.68	19.198		
13,000.0	8,575.0	11,855.9	7,467.5	110.4	115.0	-74.89	3,160.1	3,912.0	4,101.6	3,883.3	218.30	18.789		
13,100.0	8,575.0	11,955.9	7,470.0	112.7	117.4	-74.92	3,160.2	4,012.0	4,101.0	3,878.1	222.93	18.396		
13,200.0	8,575.0	12,055.8	7,472.4	115.1	119.8	-74.95	3,160.3	4,111.9	4,100.4	3,872.8	227.56	18.019		
13,300.0	8,575.0	12,155.8	7,474.9	117.5	122.2	-74.99	3,160.5	4,211.9	4,099.7	3,867.5	232.20	17.656		
13,400.0	8,575.0	12,255.8	7,477.4	119.8	124.6	-75.02	3,160.6	4,311.8	4,099.1	3,862.2	236.85	17.307		
13,500.0	8,575.0	12,355.8	7,479.9	122.2	127.0	-75.05	3,160.7	4,411.7	4,098.5	3,857.0	241.51	16.970		
13,600.0	8,575.0	12,455.7	7,482.4	124.6	129.4	-75.09	3,160.8	4,511.7	4,097.8	3,851.7	246.17	16.646		
13,700.0	8,575.0	12,555.7	7,484.8	126.9	131.8	-75.12	3,161.0	4,611.6	4,097.2	3,846.4	250.84	16.334		
13,800.0	8,575.0	12,655.7	7,487.3	129.3	134.2	-75.15	3,161.1	4,711.5	4,096.6	3,841.0	255.51	16.033		
13,900.0	8,575.0	12,755.6	7,489.8	131.7	136.6	-75.19	3,161.2	4,811.5	4,095.9	3,835.7	260.20	15.742		
14,000.0	8,575.0	12,855.6	7,492.3	134.1	139.0	-75.22	3,161.3	4,911.4	4,095.3	3,830.4	264.88	15.461		
14,100.0	8,575.0	12,955.6	7,494.8	136.4	141.4	-75.25	3,161.4	5,011.4	4,094.7	3,825.1	269.57	15.189		

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com

Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Well Simon Camamile Fed Com #126H

Offset De		Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #113H	- BLM Plan	#1 - BLM	Plan #1			Offset Site Error:	0.0 usft
Survey Prog Refer		WD Offse		Semi Major	Avia				Dista				Offset Well Error:	0.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	g	
14,200.0	8,575.0	13,055.5	7,497.2	138.8	143.8	-75.29	3,161.6	5,111.3	4,094.1	3,819.8	274.27	14.927		
14,300.0	8,575.0	13,155.5	7,499.7	141.2	146.2	-75.32	3,161.7	5,211.2	4,093.4	3,814.5	278.97	14.673		
14,400.0	8,575.0	13,255.5	7,502.2	143.6	148.6	-75.35	3,161.8	5,311.2	4,092.8	3,809.1	283.68	14.428		
14,500.0	8,575.0	13,355.4	7,504.7	146.0	151.0	-75.39	3,161.9	5,411.1	4,092.2	3,803.8	288.39	14.190		
14,600.0	8,575.0	13,455.4	7,507.2	148.4	153.4	-75.42	3,162.0	5,511.1	4,091.6	3,798.5	293.10	13.959		
14,700.0	8,575.0	13,555.4	7,509.6	150.8	155.8	-75.46	3,162.2	5,611.0	4,090.9	3,793.1	297.82	13.736		
14,800.0	8,575.0	13,655.4	7,512.1	153.2	158.3	-75.49	3,162.3	5,710.9	4,090.3	3,787.8	302.55	13.520		
14,900.0	8,575.0	13,755.3	7,514.6	155.6	160.7	-75.52	3,162.4	5,810.9	4,089.7	3,782.4	307.27	13.310		
15,000.0 15,100.0	8,575.0 8,575.0	13,855.3 13,955.3	7,517.1 7,519.6	158.0 160.4	163.1 165.5	-75.56 -75.59	3,162.5 3,162.6	5,910.8 6,010.7	4,089.1 4,088.5	3,777.1 3,771.8	312.00 316.74	13.106 12.908		
15,100.0	8,575.0	14,055.2	7,519.0	162.8	167.9	-75.62	3,162.8	6,110.7	4,088.3	3,766.4	321.48	12.716		
15,300.0	8,575.0	14,155.2	7,524.5	165.2	170.4	-75.66	3,162.9	6,210.6	4,087.3	3,761.1	326.22	12.529		
15,400.0 15,500.0	8,575.0 8,575.0	14,255.2 14,355.1	7,527.0 7,529.5	167.6 170.0	172.8 175.2	-75.69 -75.73	3,163.0 3,163.1	6,310.6 6,410.5	4,086.7 4,086.1	3,755.7 3,750.3	330.96 335.71	12.348 12.171		
15,600.0	8,575.0	14,355.1	7,529.5	170.0	175.2	-75.73 -75.76	3,163.1	6,510.4	4,085.4	3,745.0	340.46	12.171		
15,700.0	8,575.0	14,555.1	7,532.0	174.9	180.0	-75.79	3,163.4	6,610.4	4,084.8	3,739.6	345.22	11.833		
15,800.0	8,575.0	14,655.0	7,536.9	177.3	182.5	-75.83	3,163.5	6,710.3	4,084.2	3,734.3	349.97	11.670		
15,900.0	8,575.0	14,755.0	7,539.4	179.7	184.9	-75.86	3,163.6	6,810.3	4,083.6	3,728.9	354.73	11.512		
16,000.0	8,575.0	14,855.0	7,541.9	182.1	187.3	-75.89	3,163.7	6,910.2	4,083.0	3,723.5	359.50	11.358		
16,100.0	8,575.0	14,955.0	7,544.4	184.5	189.7	-75.93	3,163.8	7,010.1	4,082.4	3,718.2	364.26	11.207		
16,200.0	8,575.0	15,054.9	7,546.8	187.0	192.2	-75.96	3,164.0	7,110.1	4,081.8	3,712.8	369.03	11.061		
16,300.0	8,575.0	15,154.9	7,549.3	189.4	194.6	-76.00	3,164.1	7,210.0	4,081.2	3,707.4	373.80	10.918		
16,400.0	8,575.0	15,254.9	7,551.8	191.8	197.0	-76.03	3,164.2	7,309.9	4,080.7	3,702.1	378.58	10.779		
16,500.0	8,575.0	15,354.8	7,554.3	194.2	199.5	-76.06	3,164.3	7,409.9	4,080.1	3,696.7	383.35	10.643		
16,600.0	8,575.0	15,454.8	7,556.8	196.6	201.9	-76.10	3,164.5	7,509.8	4,079.5	3,691.3	388.13	10.510		
16,700.0	8,575.0	15,554.8	7,559.2	199.1	204.3	-76.13	3,164.6	7,609.8	4,078.9	3,686.0	392.91	10.381		
16,800.0	8,575.0	15,654.7	7,561.7	201.5	206.8	-76.16	3,164.7	7,709.7	4,078.3	3,680.6	397.70	10.255		
16,900.0	8,575.0	15,754.7	7,564.2	203.9	209.2	-76.20	3,164.8	7,809.6	4,077.7	3,675.2	402.48	10.131		
17,000.0	8,575.0	15,854.7	7,566.7	206.3	211.6	-76.23	3,164.9	7,909.6	4,077.1	3,669.8	407.27	10.011		
17,100.0	8,575.0	15,954.6	7,569.2	208.8	214.1	-76.27	3,165.1	8,009.5	4,076.5	3,664.5	412.06	9.893		
17,200.0	8,575.0	16,054.6	7,571.6	211.2	216.5	-76.30	3,165.2	8,109.5	4,076.0	3,659.1	416.86	9.778		
17,300.0	8,575.0	16,154.6	7,574.1	213.6	218.9	-76.33	3,165.3	8,209.4	4,075.4	3,653.7	421.65	9.665		
17,400.0	8,575.0	16,254.6	7,576.6	216.0	221.4	-76.37	3,165.4	8,309.3	4,074.8	3,648.3	426.45	9.555		
17,500.0	8,575.0	16,354.5	7,579.1	218.5	223.8	-76.40	3,165.5	8,409.3	4,074.2	3,643.0	431.25	9.448		
17,600.0	8,575.0	16,454.5	7,581.6	220.9	226.2	-76.44	3,165.7	8,509.2	4,073.6	3,637.6	436.05	9.342		
17,700.0	8,575.0	16,554.5	7,584.0	223.3	228.7	-76.47	3,165.8	8,609.1	4,073.1	3,632.2	440.85	9.239		
17,800.0	8,575.0	16,654.4	7,586.5	225.8	231.1	-76.50	3,165.9	8,709.1	4,072.5	3,626.8	445.66	9.138		
17,900.0	8,575.0	16,754.4	7,589.0	228.2	233.5	-76.54	3,166.0	8,809.0	4,071.9	3,621.5	450.46	9.039		
18,000.0	8,575.0	16,854.4	7,591.5	230.6	236.0	-76.57	3,166.1	8,909.0	4,071.3	3,616.1	455.27	8.943		
18,100.0	8,575.0	16,954.3	7,594.0	233.0	238.4	-76.61	3,166.3	9,008.9	4,070.8	3,610.7	460.08	8.848		
18,200.0	8,575.0	17,054.3	7,596.4	235.5	240.8	-76.64	3,166.4	9,108.8	4,070.2	3,605.3	464.90	8.755		
18,300.0	8,575.0	17,154.3	7,598.9	237.9	243.3	-76.67	3,166.5	9,208.8	4,069.6	3,599.9	469.71	8.664		
18,400.0	8,575.0	17,254.2	7,601.4	240.3	245.7	-76.71	3,166.6	9,308.7	4,069.1	3,594.5	474.53	8.575		
18,500.0	8,575.0	17,354.2	7,603.9	242.8	248.2	-76.74	3,166.7	9,408.6	4,068.5	3,589.2	479.34	8.488		
18,600.0	8,575.0	17,454.2	7,606.4	245.2	250.6	-76.78	3,166.9	9,508.6	4,067.9	3,583.8	484.16	8.402		
18,700.0	8,575.0	17,554.2	7,608.9	247.6	253.0	-76.81	3,167.0	9,608.5	4,067.4	3,578.4	488.99	8.318		
18,800.0	8,575.0	17,654.1	7,611.3	250.1	255.5	-76.84	3,167.1	9,708.5	4,066.8	3,573.0	493.81	8.236		
18,900.0	8,575.0	17,754.1	7,613.8	252.5	257.9	-76.88	3,167.2	9,808.4	4,066.3	3,567.6	498.63	8.155		
19,000.0	8,575.0	17,854.1	7,616.3	255.0	260.4	-76.91	3,167.3	9,908.3	4,065.7	3,562.2	503.46	8.076		
19,100.0 19,200.0	8,575.0 8,575.0	17,954.0 18,054.0	7,618.8 7,621.3	257.4 259.8	262.8 265.2	-76.95 -76.98	3,167.5 3,167.6	10,008.3 10,108.2	4,065.2 4,064.6	3,556.9 3,551.5	508.29 513.12	7.998 7.921		
19,300.0	8,575.0	18,154.0	7,623.7	262.3	267.7	-77.01	3,167.7	10,208.2	4,064.0	3,546.1	517.95	7.846		

Database:

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

Well Simon Camamile Fed Com #126H

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma EDM 5000.14 Single User Db

Offset De	sign	Simon (	Camamile	Fed Com -	Simon C	amamile Fe	d Com #113H	- BLM Plan	#1 - BLM	Plan #1			Offset Site Error:	0.0 usft
Survey Prog	ram: 0-M	WD											Offset Well Error:	0.0 usft
Refer	ence	Offse	et	Semi Major	Axis				Dista	nce				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,400.0	8,575.0	18,253.9	7,626.2	264.7	270.1	-77.05	3,167.8	10,308.1	4,063.5	3,540.7	522.78	7.773		
19,500.0	8,575.0	18,353.9	7,628.7	267.1	272.6	-77.08	3,168.0	10,408.0	4,062.9	3,535.3	527.62	7.701		
19,600.0	8,575.0	18,453.9	7,631.2	269.6	275.0	-77.12	3,168.1	10,508.0	4,062.4	3,529.9	532.45	7.630		
19,700.0	8,575.0	18,553.8	7,633.7	272.0	277.4	-77.15	3,168.2	10,607.9	4,061.9	3,524.6	537.29	7.560		
19,800.0	8,575.0	18,653.8	7,636.1	274.5	279.9	-77.18	3,168.3	10,707.8	4,061.3	3,519.2	542.13	7.491		
19,900.0	8,575.0	18,753.8	7,638.6	276.9	282.3	-77.22	3,168.4	10,807.8	4,060.8	3,513.8	546.97	7.424		
20,000.0	8,575.0	18,853.8	7,641.1	279.3	284.8	-77.25	3,168.6	10,907.7	4,060.2	3,508.4	551.81	7.358		
20,100.0	8,575.0	18,953.7	7,643.6	281.8	287.2	-77.29	3,168.7	11,007.7	4,059.7	3,503.0	556.66	7.293		
20,200.0	8,575.0	19,053.7	7,646.1	284.2	289.7	-77.32	3,168.8	11,107.6	4,059.1	3,497.6	561.50	7.229		
20,300.0	8,575.0	19,153.7	7,648.5	286.6	292.1	-77.35	3,168.9	11,207.5	4,058.6	3,492.3	566.35	7.166		
20,400.0	8,575.0	19,253.6	7,651.0	289.1	294.5	-77.39	3,169.0	11,307.5	4,058.1	3,486.9	571.20	7.105		
20,500.0	8,575.0	19,353.6	7,653.5	291.5	297.0	-77.42	3,169.2	11,407.4	4,057.5	3,481.5	576.04	7.044		
20,600.0	8,575.0	19,453.6	7,656.0	294.0	299.4	-77.46	3,169.3	11,507.4	4,057.0	3,476.1	580.90	6.984		
20,700.0	8,575.0	19,553.5	7,658.5	296.4	301.9	-77.49	3,169.4	11,607.3	4,056.5	3,470.7	585.75	6.925		
20,800.0	8,575.0	19,653.5	7,660.9	298.9	304.3	-77.53	3,169.5	11,707.2	4,055.9	3,465.3	590.60	6.867		
20,900.0	8,575.0	19,753.5	7,663.4	301.3	306.8	-77.56	3,169.6	11,807.2	4,055.4	3,459.9	595.45	6.811		
21,000.0	8,575.0	19,853.4	7,665.9	303.7	309.2	-77.59	3,169.8	11,907.1	4,054.9	3,454.6	600.31	6.755		
21,100.0	8,575.0	19,953.4	7,668.4	306.2	311.7	-77.63	3,169.9	12,007.0	4,054.3	3,449.2	605.17	6.700		
21,200.0	8,575.0	20,039.0	7,670.5	308.6	313.7	-77.66	3,170.0	12,092.6	4,053.8	3,444.2	609.69	6.649		
21,206.8	8,575.0	20,039.0	7,670.5	308.8	313.7	-77.66	3,170.0	12,092.6	4,053.8	3,444.0	609.85	6.647		
21,213.6	8,575.0	20,039.0	7,670.5	309.0	313.7	-77.66	3,170.0	12,092.6	4,053.8	3,443.8	610.02	6.645 S	F	

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Cut =

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft

KB @ 3377.5usft

Grid

Minimum Curvature 2.00 sigma

EDM 5000.14 Single User Db

Offset Datum

Offset Des	sign	Simon C	Camamile	Fed Com -	Simon C	amamile Fed	d Com #114H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 usf
Survey Progr Refere		WD Offse	ıt	Semi Major	Axis				Dista	ance			Offset Well Error:	0.0 usf
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellboro		Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-14.99	2,169.5	-580.8	2,246.2					
100.0	100.0	62.0	62.0	0.1	0.1	-14.99	2,169.5	-580.8	2,245.9	2,245.7	0.21	N/A		
200.0	200.0	162.0	162.0	0.5	0.4	-14.99	2,169.5	-580.8	2,245.9	2,245.1	0.84	2,683.162		
300.0	300.0	262.0	262.0	0.8	0.7	-14.99	2,169.5	-580.8	2,245.9	2,244.3	1.55	1,445.256		
400.0	400.0	362.0	362.0	1.2	1.1	-14.99	2,169.5	-580.8	2,245.9	2,243.6	2.27	988.979		
500.0	500.0	462.0	462.0	1.6	1.4	-14.99	2,169.5	-580.8	2,245.9	2,242.9	2.99	751.672		
600.0	600.0	562.0	562.0	1.9	1.8	-14.99	2,169.5	-580.8	2,245.9	2,242.2	3.70	606.210		
700.0	700.0	662.0	662.0	2.3	2.1	-14.99	2,169.5	-580.8	2,245.9	2,241.5	4.42	507.919		
800.0	800.0	762.0	762.0	2.6	2.5	-14.99	2,169.5	-580.8	2,245.9	2,240.8	5.14	437.055		
900.0	900.0	862.0	862.0	3.0	2.9	-14.99	2,169.5	-580.8	2,245.9	2,240.0	5.86	383.544		
1,000.0	1,000.0	962.0	962.0	3.4	3.2	-14.99	2,169.5	-580.8	2,245.9	2,239.3	6.57	341.706 C	C	
1,100.0	1,100.0	1,062.0	1,062.0	3.7	3.6	124.22	2,169.5	-580.8	2,247.1	2,239.8	7.27	308.916		
1,200.0	1,199.7	1,161.7	1,161.7	4.0	3.9	124.28	2,169.5	-580.8	2,250.8	2,242.8	7.97	282.557		
1,300.0	1,299.1	1,261.1	1,261.1	4.4	4.3	124.38	2,169.5	-580.8	2,257.0	2,248.3	8.67	260.469		
1,372.0	1,370.4	1,332.4	1,332.4	4.6	4.5	124.48	2,169.5	-580.8	2,263.0	2,253.8	9.17	246.656		
1,400.0	1,398.0	1,360.0	1,360.0	4.7	4.6	124.57	2,169.5	-580.8	2,265.5	2,256.2	9.37	241.677		
1,500.0	1,496.7	1,458.7	1,458.7	5.1	5.0	124.90	2,169.5	-580.8	2,274.8	2,264.7	10.09	225.439		
1,600.0	1,595.4	1,557.4	1,557.4	5.5	5.4	125.23	2,169.5	-580.8	2,284.2	2,273.4	10.82	211.205		
1,700.0	1,694.1	1,656.1	1,656.1	5.9	5.7	125.56	2,169.5	-580.8	2,293.6	2,282.1	11.55	198.655		
1,800.0	1,792.7	1,754.7	1,754.7	6.3	6.1	125.88	2,169.5	-580.8	2,303.2	2,290.9	12.28	187.530		
1,900.0	1,891.4	1,853.4	1,853.4	6.7	6.4	126.20	2,169.5	-580.8	2,312.8	2,299.7	13.02	177.613		
2,000.0	1,990.1	1,952.1	1,952.1	7.1	6.8	126.52	2,169.5	-580.8	2,322.4	2,308.7	13.76	168.729		
2,100.0	2,088.8	2,076.0	2,076.0	7.5	7.2	126.91	2,169.0	-581.0	2,331.9	2,317.3	14.59	159.839		
2,200.0	2,187.5	2,224.5	2,224.4	7.9	7.7	127.33	2,165.4	-582.6	2,339.6	2,324.1	15.47	151.213		
2,300.0	2,286.2	2,373.9	2,373.6	8.3	8.2	127.69	2,158.3	-585.7	2,345.2	2,328.8	16.36	143.380		
2,400.0	2,384.9	2,523.9	2,523.2	8.8	8.7	127.99	2,147.5	-590.4	2,348.7	2,331.5	17.25	136.195		
2,500.0	2,483.5	2,674.5	2,672.9	9.2	9.2	128.25	2,133.1	-596.6	2,350.1	2,332.0	18.14	129.578		
2,600.0	2,582.2	2,816.8	2,814.0	9.6	9.7	128.43	2,116.2	-603.9	2,349.4	2,330.4	19.01	123.618		
2,700.0	2,680.9	2,916.7	2,912.9	10.1	10.1	128.55	2,103.4	-609.5	2,348.0	2,328.2	19.76	118.844		
2,800.0	2,779.6	3,016.5	3,011.8	10.5	10.4	128.67	2,090.7	-615.0	2,346.5	2,326.0	20.51	114.400		
2,900.0	2,878.3	3,116.4	3,110.7	10.9	10.8	128.79	2,077.9	-620.5	2,345.1	2,323.8	21.27	110.256		
3,000.0	2,977.0	3,216.3	3,209.6	11.3	11.2	128.91	2,065.2	-626.0	2,343.7	2,321.6	22.03	106.383		
3,100.0	3,075.7	3,316.1	3,308.5	11.8	11.5	129.03	2,052.4	-631.6	2,342.2	2,319.4	22.79	102.757		
3,200.0	3,174.3	3,416.0	3,407.4	12.2	11.9	129.14	2,039.7	-637.1	2,340.8	2,317.3	23.56	99.357		
3,300.0	3,273.0	3,515.9	3,506.3	12.6	12.3	129.26	2,026.9	-642.6	2,339.4	2,315.1	24.33	96.164		
3,400.0	3,371.7	3,615.8	3,605.2	13.1	12.7	129.38	2,014.1	-648.1	2,338.1	2,313.0	25.10	93.161		
3,500.0	3,470.4	3,715.6	3,704.1	13.5	13.1	129.50	2,001.4	-653.7	2,336.7	2,310.8	25.87	90.330		
3,600.0	3,569.1	3,815.5	3,803.0	14.0	13.5	129.62	1,988.6	-659.2	2,335.3	2,308.7	26.64	87.660		
3,700.0	3,667.8	3,915.4	3,901.9	14.4	13.9	129.74	1,975.9	-664.7	2,334.0	2,306.6	27.41	85.136		
3,800.0	3,766.5	4,015.2	4,000.8	14.8	14.2	129.86	1,963.1	-670.3	2,332.6	2,304.4	28.19	82.748		
3,900.0	3,865.1	4,115.1	4,099.7	15.3	14.6	129.98	1,950.4	-675.8	2,331.3	2,302.3	28.97	80.485		
4,000.0	3,963.8	4,215.0	4,198.6	15.7	15.0	130.10	1,937.6	-681.3	2,330.0	2,300.2	29.74	78.339		
4,100.0	4,062.5	4,314.9	4,297.5	16.1	15.4	130.22	1,924.9	-686.8	2,328.7	2,298.1	30.52	76.300		
4,200.0	4,161.2	4,414.7	4,396.4	16.6	15.8	130.34	1,912.1	-692.4	2,327.4	2,296.1	31.30	74.362		
4,300.0	4,259.9	4,514.6	4,495.3	17.0	16.2	130.46	1,899.4	-697.9	2,326.1	2,294.0	32.08	72.516		
4,400.0	4,358.6	4,614.5	4,594.2	17.5	16.6	130.58	1,886.6	-703.4	2,324.8	2,291.9	32.86	70.757		
4,500.0	4,457.3	4,714.3	4,693.1	17.9	17.0	130.70	1,873.9	-708.9	2,323.5	2,289.9	33.64	69.079		
4,600.0	4,555.9	4,795.5	4,773.5	18.3	17.4	130.80	1,863.6	-713.4	2,322.5	2,288.1	34.36	67.597		
4,630.6	4,586.1	4,815.7	4,793.5	18.5	17.5	130.83	1,861.3	-714.4	2,322.4	2,287.8	34.56	67.194		
4,700.0	4,654.6	4,861.4	4,838.9	18.8	17.6	130.90	1,856.3	-716.5	2,322.8	2,287.7	35.02	66.320		
4,800.0	4,753.3	4,927.1	4,904.3	19.2	17.9	131.01	1,850.0	-719.3	2,324.5	2,288.8	35.68	65.150		
	4,852.0	5,000.0	4,976.9	19.7	18.2	131.15	1,844.3	-721.7	2,327.8	2,291.4	36.35	64.036		

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft KB @ 3377.5usft

#### Anticollision Report

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Part	Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #114H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 usft
					0					B:-4				Offset Well Error:	0.0 usft
					-		Highside	Offset Wellbo	re Centre			Minimum	Separation	Warning	
	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		warning	
Section   Sect											2 295 5		63 114		
Section   Sect															
5,000   5,0467   6,2531   5,2287   21.4   19.1   19.1   19.2   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9   19.9															
Section   Sect															
5,000	5,400.0	5,345.4	5,330.8	5,307.4	21.9	19.3	131.99	1,834.0	-726.2	2,366.2	2,326.8	39.41	60.037		
Section   Septis   Section   Secti	5,500.0	5,444.1	5,429.5	5,406.1	22.3	19.6	132.28	1,834.0	-726.2	2,377.1	2,337.0	40.14	59.223		
Section   Sect	5,600.0	5,542.8	5,528.2	5,504.8	22.8	20.0	132.56	1,834.0	-726.2	2,388.1	2,347.3	40.87	58.438		
5,000   6,889   5,982   5,892   6,890   241   0.09   130.40   18,940   -7,082   2,4214   2,3784   43.05   59,220   59,220   6,001   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000	5,700.0	5,641.5	5,626.9	5,603.5	23.2	20.3	132.84	1,834.0	-726.2	2,399.2	2,357.6	41.59	57.683		
	5,800.0	5,740.2	5,725.6	5,702.2	23.7	20.6	133.12	1,834.0	-726.2	2,410.3	2,367.9	42.32	56.954		
0.000	5,900.0	5,838.9		5,800.9	24.1		133.40	1,834.0		2,421.4	2,378.4				
6.2000 6,134.99 6,120.3 6,026.9 25.4 21.9 134.22 18.94 0.728.2 24.95 2.24.10.0 45.23 54.82   6.4000 6,323.3 6,219.6 6,156.8 2.9 22.3 134.48 18.94 7.728.2 2.478.0 2.481.3 46.08 53.076   6.2000 6,323.3 6,317.7 6,224.3 28.3 22.6 134.75 18.94.0 7.728.2 2.478.0 2.481.3 46.08 53.076   6.2000 6,323.3 6,151.0 6,416.6 27.2 23.3 138.01 18.94.0 7.728.2 2.478.5 2.485.5 2.481.3 46.08 53.076   6.2000 6,323.6 6,151.0 6,491.6 27.2 23.3 138.01 18.94.0 7.728.2 2.498.5 2.482.9 48.14 51.948   6.2000 6,323.3 6,151.7 6,209.3 27.6 23.0 138.55 1.834.0 7.728.2 2.201.0 2.482.9 48.14 51.948   6.2000 6,323.3 6,151.7 6,209.3 27.6 23.0 138.55 1.834.0 7.728.2 2.201.0 2.482.9 48.14 51.948   6.2000 6,325.7 6,811.1 6,787.7 25.5 24.3 138.04 18.94.0 7.728.2 2.354.2 2.474.6 48.00 50.898   6.2000 6,325.7 6,811.1 6,787.7 25.5 24.3 138.04 18.94.0 7.728.2 2.354.2 2.474.5 48.00 51.10 49.949   7.2000 7.201.1 12.8 7.128.3 7.084.8 7.084.1 29.4 25.0 33.228 13.84.0 7.728.2 2.355.0 2.485.6 50.33 50.385   7.2000 7.201.4 7.209.9 7.161.1 90.3 254. 139.09 1.834.1 459.9 2.599.9 2.599.1 5.208.0 51.10 49.389   7.2000 7.201.4 7.209.9 7.161.1 90.3 254. 139.09 1.834.1 459.9 2.599.9 2.599.0 2.599.5 53.0 52.0 49.0 2.209.0 7.209.0 7.209.8 7.209.8 7.209.8 7.409.0 7.209.8 7.409.1 7.209.8 7.409.0 7.209.8 7.409.0 7.209.8 7.409.0 7.209.8 7.409.0 7.209.8 7.409.0 7.209.8 7.409.0 7.209.8 7.409.0 7.209.8 7.409.0 7.209.8 7.409.0 7.209.8 30.0 256.0 140.39 18.94.2 450.0 2.509.1 2.509.0 53.00 48.060   7.2000 7.201.6 7.201.6 7.201.3 32.0 257.1 143.00 18.94.2 450.0 1.201.2 2.500.0 2.503.5 53.57 48.060   7.2000 7.201.6 7.201.6 7.201.3 32.0 257.1 143.00 18.94.2 450.0 2.201.2 2.500.0 2.503.5 53.0 4.009   7.2000 7.201.6 7.201.6 7.201.3 32.0 257.1 143.00 18.94.2 450.0 2.201.2 2.500.0 2.509.0 2.509.0 4.000   7.201.6 7.201.6 7.201.3 32.0 257.1 143.0 32.0 257.1 143.0 40.0 18.94.2 450.0 2.201.2 2.500.0 2.509.0 2.509.0 4.201.2 4.201.2 32.0 2.201.2 32.0 2.201.2 2.500.0 2.509.0 2.509.0 4.201.2 4.201.2 32.0 2.201.2 32.0 2.201.2 32.0 2.201.2 32.0 2.201.2 32.0 2.201.2 32.0 2.201.2 32.0 2.201.2 32.0 2	6,000.0	5,937.5	5,922.9	5,899.5	24.5	21.3	133.67	1,834.0	-726.2	2,432.6	2,388.8	43.77	55.571		
6.000 6.233 6 6.2190 6.1956 259 223 134.48 1.8340 -728.2 2.468.6 2.4206 450.9 83.899 (6.000 6.4310 6.416.4 6.3830) 28.8 22.9 135.01 1.8340 -728.2 2.4855 2.4421 47.42 52.03 (6.000 6.4310 6.416.4 6.3830) 28.8 22.9 135.01 1.8340 -728.2 2.4855 2.4421 47.42 52.03 (6.000 6.526.3 6.615.0 6.416.4 6.3830) 28.8 22.9 135.01 1.8340 -728.2 2.4855 2.4421 47.42 52.03 (6.000 6.727.0 6.112.4 6.8980) 27.6 2.33 135.27 1.8340 -728.2 2.501.0 2.462.9 48.14 51.440 (6.000 6.727.0 6.112.4 6.8980) 21.1 2.39 135.78 1.8340 -728.2 2.501.0 2.462.9 48.7 48.87 51.410 (6.000 6.727.0 6.112.4 6.8980) 22.1 2.39 135.78 1.8340 -728.2 2.501.0 2.455.9 2.466.4 51.0 49.49 (7.000 6.525.7 6.811.1 6.787.7 2.5 2.441 1.8340 -728.2 2.535.9 2.446.6 45.0 50.889 (7.000 6.525.7 6.811.1 6.787.7 2.5 2.441 1.8340 -728.2 2.535.9 2.446.6 51.0 49.49 (7.000 7.720.1 7.720.1 7.721.8 7.725.3 7.005.1 2.9 2.5 2.1 38.29 1.8340 -728.2 2.535.9 2.486.4 51.10 49.49 (7.000 7.720.1 7.721.8 7.725.3 7.005.1 2.9 2.5 2.1 38.29 1.8341 4.99.9 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	6,100.0	6,036.2	6,021.6	5,998.2	25.0	21.6	133.95	1,834.0	-726.2	2,443.9	2,399.4	44.50	54.915		
6.000 6.392 3 6.317 6 6.2943 26.3 22.6 134.75 18.340 -726.2 2.478.0 2.431.3 46.99 \$5.076 6.5000 6.5310 6.4164 6.393.0 26.8 22.9 135.01 18.340 -726.2 2.489.2 2.489.2 2.489.2 2.259.3 \$5.050 6.5000 6.529.6 6.515.0 6.491.6 27.2 23.3 135.27 18.340 -726.2 2.501.0 2.482.9 48.14 \$51.948 6.500.0 6.277.0 6.772.4 6.689.0 27.6 23.6 135.53 18.340 -726.2 2.501.2 2.489.2 448.6 51.410 6.580.0 6.777.0 6.772.4 6.689.0 2.521.2 29.0 155.76 18.340 -726.2 2.526.2 2.489.2 474.6 49.0 50.889 6.600.0 6.827.7 6.811.1 6.787.7 26.5 24.3 136.04 18.340 -726.2 2.526.2 2.486.6 40.33 50.335 50.335 6.700.0 6.824.4 6.923.2 6.889.6 20.0 24.6 136.42 18.340 -726.2 2.526.2 2.486.6 40.33 50.335 50.335 6.700.0 7.223.1 7.034.6 7.006.1 29.4 25.0 137.25 18.340 -697.0 2.585.6 2.506.8 51.80 49.389 7.700.0 7.023.1 7.034.6 7.006.1 29.4 25.0 137.25 18.341 -659.9 2.569.9 2.517.5 2.259.3 2.489.6 40.032 7.700.0 7.721.8 7.729.3 7.065.1 29.0 25.2 188.29 18.341 -659.9 2.569.9 2.517.5 2.29 40.052 7.700.0 7.721.8 7.729.3 7.065.1 29.0 25.5 140.34 18.342 -580.0 2.569.9 2.517.5 2.29 40.052 7.700.0 7.319.1 7.269.5 7.208.8 30.7 25.5 140.34 18.342 -580.0 2.566.4 2.563.1 3.32 48.562 7.700.0 7.319.1 7.269.5 7.208.8 30.7 25.5 140.34 18.342 -580.0 2.566.4 2.563.1 3.32 48.562 7.700.0 7.516.9 7.361.7 7.273.3 31.6 25.6 142.17 18.343 -412.5 2.500.2 2.576.2 2.535 5.337 48.566 7.700.0 7.516.2 7.700.7 7.266.5 7.350.7 7.263.3 31.2 25.6 142.17 18.343 -412.5 2.500.2 2.576.2 2.584.2 4.384.4 49.091 7.700.0 7.516.2 7.700.7 7.561.2 7.700.7 7.561.2 7.700.7 7.561.2 7.700.7 7.561.2 7.700.7 7.561.2 7.700.7 7.561.2 7.700.7 7.561.2 7.700.7 7.561.2 7.700.7 7.561.2 7.700.7 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.561.2 7.700.0 7.700.0 7.700.0 7.700.0 7.700.0 7.700.0 7.700.0 7.700.0 7.700.0 7.															
6,500.0         6,613.0         6,614.6         6,931.0         6,616.6         6,615.0         6,616.6         22.9         135.01         1,834.0         -726.2         2,489.5         2,442.1         47.42         \$2.533           6,000.0         6,228.3         6,615.0         6,691.6         27.6         23.6         15.55.3         1,854.0         -726.2         2,512.6         2,461.7         48.67         7,514.0         6,690.0         6,628.3         6,611.0         6,690.0         6,628.3         6,690.0         2,65.2         2,811.8         1,834.0         -726.2         2,554.2         2,474.6         49.60         50.89           7,000.0         6,924.4         6,823.2         6,899.8         28.0         24.6         136.42         1,834.0         -721.6         2,545.5         2,481.6         611.0         49.69           7,000.0         7,221.8         7,122.8         7,293.0         7,041.1         8,942.9         2,529.5         2,586.8         2,506.8         1,894.9         4,949.9           7,200.0         7,221.8         7,121.1         3,03         2.54         138.29         1,884.1         -699.9         2,596.8         2,506.8         1,894.9         4,949.9         2,596.9         2,506.9															
6,000 6,529 6 6,515 0 6,491 6 27.2 23.3 135.27 1,834.0 -726.2 2,501.0 2,422.9 48.14 51.948 6,000 6,027 0 6,027 6 4,023.2 1,023.0 135.53 1,834.0 -726.2 2,512.8 2,463.7 48.67 51.410 6,000 6,027 0 6,000 6,027 0 6,000 6,027 0 6,000 6,027 0 6,000 6,027 0 6,000 6,027 0 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000 6,000															
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6,800.0 6,727.0 6,712.4 6,889.0 28.1 23.9 135.78 1,834.0 -726.2 2,524.2 2,474.6 49.00 50.889 6,800.0 6,820.4 6,923.2 6,899.8 29.0 24.6 136.42 1,834.0 -726.2 2,524.5 2,496.4 51.10 49.849 7,000.0 6,924.4 6,923.2 6,899.8 29.0 24.6 136.42 1,834.0 -721.8 2,547.5 2,496.4 51.10 49.849 7,000.0 7,023.1 7,034.6 7,008.1 29.4 25.0 137.25 1,834.0 -807.0 2,558.6 2,506.8 51.80 49.899 7,200.0 7,121.8 7,129.3 7,095.1 29.9 25.2 138.99 1,834.1 -419.1 2,582.2 2,529.3 52.89 48.822 7,400.0 7,319.1 7,289.5 7,206.8 30.7 25.5 140.34 1,834.2 -40.11 2,582.2 2,529.3 52.89 48.822 7,400.0 7,319.1 7,289.5 7,206.8 30.7 25.5 140.34 1,834.2 -561.1 2,007.2 5,535 53.5 37 48.665 7,200.0 7,417.8 7,319.7 7,273.3 31.6 25.6 140.93 1,834.1 -519.2 2,582.2 2,529.3 53.89 48.724 7,200.0 7,316.2 7,400.0 7,296.3 32.0 25.7 143.05 1,834.2 -544.7 2,612.7 2,559.0 53.69 48.666 7,200.0 7,316.2 7,400.0 7,296.3 32.0 25.7 143.05 1,834.3 -4513.2 2,650.2 2,576.2 53.88 48.724 7,200.0 7,716.2 7,400.0 7,726.2 3,200.0 7,296.3 32.0 25.7 143.05 1,834.3 -4501.2 2,667.7 2,613.3 54.4 49.091 7,200.0 7,716.8 7,427.1 7,311.4 22.4 25.8 143.73 1,834.3 -460.1 2,667.7 2,613.3 54.3 49.091 7,200.0 7,716.5 7,450.0 7,322.2 28.255 144.35 1,834.4 -340.2 2,728.2 2,767.2 2,535.5 53.9 48.624 1,834.3 1,834.3 -460.1 2,667.7 2,613.3 54.3 49.091 4,432 1,434.3 1,434.4 -417.4 2,700.2 2,654.8 54.0 49.799 8,865.8 8,002.0 7,500.0 7,346.4 33.3 26.2 6.48 1,834.4 -380.2 2,728.4 2,674.1 54.36 50.199 8,865.8 8,002.0 7,500.0 7,346.4 33.3 26.2 6.48 1,834.4 -380.2 2,728.4 2,674.1 54.36 50.199 8,865.8 8,002.0 7,500.0 7,346.4 33.3 26.2 6.48 1,834.4 -380.2 2,728.4 2,674.1 54.36 50.199 8,865.8 8,002.0 7,500.0 7,346.4 33.3 26.2 6.48 1,834.4 -380.2 2,728.4 2,674.1 54.36 50.199 8,865.8 8,002.0 7,500.0 7,346.4 33.3 26.2 6.48 1,834.4 -380.2 2,728.4 2,674.1 54.36 50.199 8,865.8 8,002.0 7,500.0 7,346.4 33.3 26.2 6.48 1,834.4 -380.2 2,728.4 2,674.1 54.36 50.199 8,865.8 8,002.0 8,865.8 7,500.0 7,346.4 33.3 26.2 6.48 1,834.4 -380.2 2,728.4 2,674.1 54.36 50.199 8,865.8 8,860.8 8,865.8 7,500.0 7,366.5 33.8 26.6 3.8 8,960.8 8,	6,600.0	6,529.6	6,515.0	6,491.6	27.2	23.3	135.27	1,834.0	-726.2	2,501.0	2,452.9	48.14	51.948		
6,000 6,2827 6,811.1 6,787.7 22.5 24.3 136.04 1,834.0 -726.2 2,835.9 2,486.6 50.33 50.385 7,000.0 6,924.4 6,923.2 6,899.8 29.0 24.6 138.4.2 1,834.0 -897.0 2,588.6 2,506.8 51.80 49.849 7,000.7 7,022.1 7,034.6 7,000.1 29.4 25.0 137.25 1,834.0 -897.0 2,588.6 2,506.8 51.80 49.849 7,000.7 7,022.1 7,034.6 7,000.1 30.3 25.4 139.36 1,834.1 -859.9 2,589.9 2,517.5 52.9 49.052 7,000.7 7,201.4 7,209.9 7,100.1 30.3 25.4 139.36 1,834.1 -859.9 2,589.9 2,517.5 52.9 49.052 7,000.7 7,201.4 7,209.9 7,100.8 30.7 25.5 140.94 1,834.2 -850.0 2,596.4 2,543.1 53.32 48.602 7,465.5 7,344.7 7,304.2 7,234.9 31.0 25.6 140.93 1,834.2 -850.0 2,596.4 2,543.1 53.32 48.602 7,465.5 7,344.7 7,304.2 7,234.9 31.0 25.6 140.93 1,834.2 -556.1 2,607.5 2,553.5 53.57 48.605 7,500.0 7,516.9 7,361.7 7,273.3 31.6 25.6 140.93 1,834.2 -566.1 2,607.0 2,553.5 53.57 48.605 7,500.0 7,516.9 7,361.7 7,273.3 31.6 25.6 140.93 1,834.3 -513.2 2,503.2 2,576.2 53.96 48.724 7,700.0 7,761.2 7,400.0 7,266.3 32.0 25.7 143.05 1,834.3 -513.2 2,503.2 2,576.2 53.96 48.724 7,700.0 7,616.2 7,400.0 7,266.3 32.0 25.7 143.05 1,834.3 -460.1 2,607.7 2,813.3 54.3 4 80.01 7,600.0 7,616.0 7,450.0 7,422.3 52.8 25.9 143.73 1,834.3 -460.1 2,607.7 2,813.3 54.3 4 80.01 7,600.0 7,616.6 7,450.0 7,266.3 33.1 26.0 145.04 1,834.4 -366.2 2,713.5 2,853.5 54.3 4 80.01 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,843.2 8,84	6,700.0	6,628.3	6,613.7	6,590.3	27.6	23.6	135.53	1,834.0	-726.2	2,512.6	2,463.7	48.87	51.410		
7,000.0         6,924.4         6,923.2         6,899.6         29.0         24.6         136.42         1,834.0         -721.6         2,647.5         2,468.4         51.10         49.849           7,000.0         7,201.1         7,034.6         7,000.1         22.4         25.0         137.25         1,834.1         -697.0         2,588.6         2,568.8         51.80         49.399           7,300.0         7,221.4         7,209.9         7,161.1         30.3         25.4         139.96         1,834.1         -619.1         2,582.2         2,593.3         52.89         48.622           7,400.0         7,319.1         7,269.5         7,209.8         30.7         25.5         140.34         1,834.2         -566.1         2,807.0         2,553.5         53.67         48.802           7,400.0         7,319.9         7,245.9         31.2         25.5         141.26         1,834.2         -54.1         2,807.0         2,553.5         53.67         48.805           7,500.0         7,417.8         7,319.9         7,245.9         31.2         25.5         141.26         1,834.2         -54.1         2,812.1         53.89         48.666           7,500.0         7,316.2         7,400.0         7,	6,800.0	6,727.0	6,712.4	6,689.0	28.1	23.9	135.78	1,834.0	-726.2	2,524.2	2,474.6	49.60	50.889		
7.1000 7,0231 7,034 6 7,008.1 29.4 25.0 137.25 1,834.0 -697.0 2,558.6 2,508.8 51.80 49.389 7.2000 7,121.8 7,122.3 7,008.1 29.9 25.2 138.29 1,834.1 -699.1 2,589.9 2,569.9 2,561.5 52.39 49.052 7.2001 7,224 7,209.9 7,161.1 30.3 25.4 139.36 1,834.1 -699.1 2,589.2 2,509.3 52.89 48.052 7,400.0 7,319.1 7,289.5 7,209.8 30.7 25.5 140.34 1,834.2 -580.0 2,586.4 2,543.1 53.32 48.892 7,400.0 7,319.1 7,289.5 7,209.8 30.7 25.5 140.34 1,834.2 -586.1 2,607.0 2,555.5 53.57 48.665 7,500.0 7,417.8 7,319.2 7,224.9 31.0 25.6 140.93 1,834.2 -566.1 2,607.0 2,555.5 53.57 48.665 7,500.0 7,519.9 7,381.7 7,273.3 31.6 25.6 142.17 1,834.3 -513.2 2,580.0 2,576.2 53.98 48.724 7,700.0 7,616.2 7,400.0 7,280.3 32.0 25.7 143.05 1,834.3 -482.6 2,648.5 2,694.2 54.21 48.864 7,700.0 7,616.2 7,400.0 7,230.3 32.0 25.7 143.05 1,834.3 -482.6 2,648.5 2,694.2 54.21 48.864 7,900.0 7,715.8 7,457.1 7,311.4 32.4 25.8 143.73 1,834.3 -480.1 2,667.7 2,613.3 54.34 49.991 7,900.0 7,815.6 7,450.0 7,333.9 33.1 26.0 145.04 1,834.4 -440.5 2,687.9 2,533.5 54.39 49.423 8,000.0 7,915.5 7,476.4 7,335.9 33.1 26.0 145.04 1,834.4 -440.5 2,687.9 2,533.5 54.39 49.423 8,000.0 8,015.5 7,500.0 7,346.4 33.3 26.2 64.8 1,834.4 -360.2 2,731.5 2,677.2 54.33 50.279 8,150.0 8,065.4 7,500.0 7,346.4 33.5 26.2 81.82 1,834.4 -360.2 2,731.5 2,677.2 54.33 50.279 8,150.0 8,168.4 7,500.0 7,366.3 33.8 26.5 -77.39 1,834.4 -360.2 2,731.5 2,677.2 54.33 50.279 8,150.0 8,168.4 7,500.0 7,366.5 33.8 26.5 -77.44 1,834.5 -360.0 2,778.5 2,772.4 54.04 51.194 8,250.0 8,168.4 7,500.0 7,366.5 33.8 26.5 -77.44 1,834.5 -360.0 2,778.5 2,772.4 54.04 51.194 8,250.0 8,168.4 7,500.0 7,366.5 33.8 26.5 -77.44 1,834.5 -360.0 2,778.5 2,772.4 54.04 51.194 8,250.0 8,168.4 7,500.0 7,366.5 33.8 26.5 -77.44 1,834.5 -360.0 2,778.5 2,772.4 54.04 51.194 8,250.0 8,168.4 7,500.0 7,366.5 33.8 26.5 -77.30 1,834.5 -360.0 2,778.5 2,772.4 54.04 51.194 8,250.0 8,466.4 7,500.0 7,366.7 33.9 26.8 -72.53 1,834.6 -220.5 2,768.5 2,771.4 53.49 53.27 53.8 53.79 54.148 8,250.0 8,508.4 7,575.7 7,401.0 33.7 26.8 38.8 27.7 67.63 1,834.6 -220.5 2,83	6,900.0	6,825.7	6,811.1	6,787.7	28.5	24.3	136.04	1,834.0	-726.2	2,535.9	2,485.6	50.33	50.385		
7,200         7,1218         7,204         7,209         7,204         7,209         7,1811         30,30         25.4         138,29         1,834.1         -8919         2,569         2,517.5         52.39         49,052           7,300.0         7,202.4         7,209.9         7,181.1         30.3         25.5         140.34         1,834.2         -580.0         2,596.4         2,543.1         53.32         48,892           7,400.0         7,319.1         7,284.9         31.0         25.6         140.93         1,834.2         -580.0         2,596.4         2,543.1         53.32         48.665           7,500.0         7,417.8         7,319.9         7,245.9         31.2         25.6         141.26         1,834.2         -566.1         2,607.0         2,559.0         53.66         66.6           7,500.0         7,516.9         7,367.0         7,245.9         31.2         25.6         142.17         1,834.3         -513.2         2,630.2         2,576.2         53.88         48.724           7,500.0         7,516.2         7,400.0         7,269.3         32.0         25.7         143.05         1,834.3         480.1         2,641.5         2,542.1         48.854           7,800.0	7,000.0	6,924.4	6,923.2	6,899.6	29.0	24.6	136.42	1,834.0	-721.6	2,547.5	2,496.4	51.10	49.849		
7,300 0         7,200,4         7,200,9         7,161,1         30.3         25,4         1393,86         1,834,1         -619,1         2,582,2         2,529,3         52,88         48,822           7,400 0         7,319,1         7,289,5         7,209,8         30,7         25,5         140,34         1,834,2         -586,1         2,690,0         2,593,3         52,88         48,822           7,400 0         7,347,7         7,304,2         7,284,9         31,0         256         140,93         1,834,2         -544,7         2,612,7         2,559,0         53,86         48,666           7,500 0         7,417,8         7,319,9         7,245,9         31,2         256         142,17         1,834,3         -513,2         2,690,2         2,576,2         53,86         48,724           7,000 0         7,616,2         7,400 0         7,296,3         32,0         25,7         143,05         1,834,3         -480,0         2,576,2         542,1         48,854           7,800 0         7,816,6         7,450,0         7,323,2         32,8         25,9         144,35         1,834,4         -40,5         2,687,9         2,633,5         54,34         49,091           8,000 0         7,915,6         7,	7,100.0	7,023.1	7,034.6	7,008.1	29.4	25.0	137.25	1,834.0	-697.0	2,558.6	2,506.8	51.80	49.389		
7,400.0         7,319.1         7,269.5         7,209.8         30.7         25.5         140,34         1,834.2         -580.0         2,566.4         2,543.1         53.32         48,662           7,665.5         7,384.7         7,304.2         7,234.9         31.0         25.6         141.26         1,834.2         -586.1         2,607.0         2,555.5         53.57         48,666           7,500.0         7,417.8         7,319.9         7,245.9         31.2         25.6         141.26         1,834.2         -541.7         2,612.7         2,559.0         53.69         48,666           7,500.0         7,616.2         7,400.0         7,266.3         32.0         25.7         143.05         1,834.3         -482.6         2,684.5         2,594.2         54.21         48,854           7,900.0         7,815.6         7,450.0         7,323.2         32.8         25.9         144.35         1,834.4         -440.5         2,687.9         2,633.5         54.39         49,423           8,000.0         7,915.5         7,476.4         7,335.9         33.1         26.0         145.04         1,834.4         -440.5         2,684.8         54.40         49,799           8,160.0         8,016.4	7,200.0	7,121.8	7,129.3	7,095.1	29.9	25.2	138.29	1,834.1	-659.9	2,569.9	2,517.5	52.39	49.052		
7,466.5 7,384.7 7,304.2 7,234.9 31.0 25.6 140.93 1,834.2 -556.1 2,607.0 2,553.5 53.57 48.665  7,500.0 7,417.8 7,319.9 7,245.9 31.2 25.6 141.26 1,834.2 -544.7 2,612.7 2,559.0 53.69 48.666  7,500.0 7,516.9 7,361.7 7,273.3 31.6 25.6 142.17 1,834.3 -513.2 2,500.2 2,576.2 53.98 48.724  7,800.0 7,616.2 7,400.0 7,296.3 32.0 25.7 143.05 1,834.3 482.6 2,648.5 2,594.2 54.2 148.864  7,800.0 7,715.8 7,427.1 7,311.4 32.4 25.8 143.73 1,834.3 460.1 2,667.7 2,613.3 54.34 49.091  7,900.0 7,815.6 7,450.0 7,323.2 32.8 25.9 144.35 1,834.4 440.5 2,687.9 2,633.5 54.39 49.423  8,000.0 7,915.5 7,476.4 7,335.9 33.1 26.0 145.04 1,834.4 441.4 2,709.2 2,633.5 54.39 49.423  8,000.0 8,015.5 7,500.0 7,346.4 33.3 26.2 6.48 1,834.4 -396.2 2,728.4 2,674.1 54.36 50.189  8,150.0 8,065.4 7,500.0 7,346.4 33.4 26.2 83.00 1,834.4 -396.2 2,728.4 2,674.1 54.36 50.189  8,150.0 8,165.3 7,500.0 7,346.4 33.5 26.2 83.00 1,834.4 -396.2 2,731.5 2,677.2 54.33 50.279  8,150.0 8,163.3 7,531.4 7,358.9 33.7 26.4 -78.90 1,834.4 -367.4 2,766.5 2,712.4 54.04 51.194  8,300.0 8,114.8 7,519.1 7,354.2 33.6 26.3 80.29 1,834.4 -367.4 2,766.5 2,712.4 54.04 51.194  8,300.0 8,210.6 7,550.0 7,366.6 33.8 26.5 -77.44 1,834.5 -350.0 2,778.1 2,724.2 53.97 51.478  8,400.0 8,301.1 7,572.2 7,372.8 33.9 26.8 -74.99 1,834.5 -302.4 2,812.2 2,763.7 53.70 52.35  8,500.0 8,341.6 7,500.0 7,386.6 33.8 26.5 -77.44 1,834.5 -350.0 2,778.1 2,724.2 53.97 51.478  8,400.0 8,341.6 7,500.0 7,386.6 33.8 26.5 -77.44 1,834.5 -350.0 2,778.1 2,724.2 53.97 51.478  8,400.0 8,416.6 7,550.0 7,386.6 33.8 26.5 -77.44 1,834.5 -300.4 2,811.2 2,767.7 53.49 52.77  8,600.0 8,446.5 7,632.8 7,388.3 33.9 26.8 -72.53 1,834.5 -302.4 2,811.2 2,767.7 53.49 52.49  8,500.0 8,446.5 7,632.8 7,388.3 33.9 26.8 -72.53 1,834.5 -302.4 2,811.2 2,775.5 53.70 52.35  8,500.0 8,446.5 7,684.9 7,390.0 33.9 27.0 -71.44 1,834.5 -302.4 2,811.2 2,767.7 53.49 52.47  8,600.0 8,446.5 7,684.9 7,390.0 33.9 27.1 -70.47 1,834.6 -226.7 2,839.2 2,785.8 53.7 53.9 53.29  8,600.0 8,446.5 7,681.9 7,390.0 33.9 27.4 -888.3 1,834.6 -226.9 2,839.2 2,805.3 53.	7,300.0	7,220.4	7,206.9	7,161.1	30.3	25.4	139.36	1,834.1	-619.1	2,582.2	2,529.3	52.89	48.822		
7,500.0 7,417.8 7,319.9 7,245.9 31.2 25.6 141.26 1,834.2 5.44.7 2,612.7 2,559.0 53.69 48,666 7,600.0 7,516.9 7,361.7 7,273.3 31.6 25.6 142.17 1,834.3 5.13.2 2,830.2 2,576.2 53.98 48,724 7,700.0 7,516.9 7,361.7 7,273.3 31.6 25.6 142.17 1,834.3 5.13.2 2,830.2 2,576.2 53.98 48,724 7,700.0 7,516.2 7,400.0 7,206.3 32.0 25.7 143.05 1,834.3 460.1 2,667.7 2,614.3 54.34 49.991 7,900.0 7,815.6 7,450.0 7,323.2 32.8 25.9 144.35 1,834.4 440.5 2,687.9 2,633.5 54.34 49.991 7,900.0 7,815.6 7,450.0 7,323.2 32.8 25.9 144.35 1,834.4 440.5 2,687.9 2,633.5 54.39 49.423 8,000.0 7,915.5 7,476.4 33.3 26.2 6.48 1,834.4 49.991 8,086.5 8,020.0 7,500.0 7,346.4 33.3 26.2 6.48 1,834.4 396.2 2,728.4 2,674.1 54.36 50,189 8,100.0 8,015.5 7,500.0 7,346.4 33.4 26.2 83.00 1,834.4 396.2 2,731.5 2,677.2 54.33 50,279 8,150.0 8,065.4 7,500.0 7,346.4 33.5 26.2 81.82 1,834.4 396.2 2,743.1 2,689.9 54.18 50.634 8,200.0 8,163.3 7,531.4 7,358.9 33.7 26.4 78.90 1,834.4 396.2 2,743.1 2,689.9 54.18 50.881 8,250.0 8,163.3 7,551.4 7,358.9 33.7 26.4 7.8.90 1,834.4 367.4 2,766.5 2,712.4 54.04 51.194 8,300.0 8,206.6 7,500.0 7,386.6 33.8 26.5 7.74.4 1,834.5 350.0 2,778.1 2,722.2 53.97 51.478 8,350.0 8,256.3 7,550.0 7,386.6 33.8 26.5 7.74.4 1,834.5 350.0 2,778.1 2,722.2 53.97 51.478 8,350.0 8,266.3 7,550.0 7,386.6 33.8 26.5 7.74.4 1,834.5 350.0 2,778.1 2,722.2 53.97 51.478 8,450.0 8,341.6 7,600.0 7,380.7 33.9 26.8 74.59 1,834.5 350.0 2,778.1 2,727.5 53.70 52.188 8,450.0 8,416.6 7,650.0 7,380.7 33.9 26.8 74.59 1,834.5 300.0 2,789.5 2,785.8 53.75 51.898 8,450.0 8,449.5 7,632.8 7,388.3 33.9 27.1 7.0.47 1,834.6 2.20.5 2,839.2 2,785.8 53.75 51.898 8,450.0 8,449.5 7,632.8 7,388.3 33.9 27.1 7.0.47 1,834.6 2.20.5 2,839.2 2,785.8 53.75 53.99 53.32 8,500.0 8,449.5 7,632.8 7,388.3 33.9 27.1 7.0.47 1,834.6 2.20.5 2,839.2 2,785.8 53.75 53.99 53.32 8,500.0 8,449.5 7,632.8 7,388.3 33.9 27.1 7.0.47 1,834.6 2.20.5 2,839.2 2,785.8 53.75 53.39 53.32 8,500.0 8,568.0 7,600.7 7,380.7 33.9 26.8 74.5 34.8 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	7,400.0	7,319.1	7,269.5	7,209.8	30.7	25.5	140.34	1,834.2	-580.0	2,596.4	2,543.1	53.32	48.692		
7,600.0         7,516.9         7,361.7         7,273.3         31.6         25.6         142.17         1,834.3         -512.2         2,630.2         2,576.2         53.98         48.724           7,700.0         7,616.2         7,400.0         7,263.3         32.0         25.7         143.05         1,834.3         -616.2         2,646.5         2,594.2         54.21         48.854           7,800.0         7,715.8         7,427.1         7,311.4         32.4         25.8         143.73         1,834.3         -460.1         2,667.7         2,613.3         54.34         49.091           7,900.0         7,815.6         7,475.0         7,323.2         32.8         25.9         144.35         1,834.4         -440.5         2,687.9         2,633.5         54.39         49.23           8,000.0         7,915.5         7,476.4         7,335.9         33.1         26.0         145.04         1,834.4         -417.4         2,709.2         2,684.8         54.40         49.799           8,066.5         8,002.0         7,550.0         7,346.4         33.4         26.2         -81.82         1,834.4         -396.2         2,774.1         2,688.9         54.18         50.19           8,150.0         8,	7,466.5	7,384.7	7,304.2	7,234.9	31.0	25.6	140.93	1,834.2	-556.1	2,607.0	2,553.5	53.57	48.665		
7,700.0         7,616.2         7,400.0         7,296.3         32.0         25.7         143.05         1,834.3         482.6         2,648.5         2,594.2         54.21         48.84           7,800.0         7,715.8         7,427.1         7,311.4         32.4         25.8         143,73         1,834.3         460.1         2,667.7         2,613.3         54.34         49.091           7,900.0         7,815.6         7,460.0         7,323.2         32.8         25.9         144.35         1,834.4         -440.5         2,687.9         2,633.5         54.39         49.23           8,000.0         7,915.5         7,476.4         7,335.9         33.1         26.0         145.04         1,834.4         -396.2         2,728.4         2,674.1         54.36         50.189           8,100.0         8,065.5         7,500.0         7,346.4         33.4         26.2         -81.82         1,834.4         -396.2         2,778.1         2,577.2         54.33         50.279           8,150.0         8,163.3         7,551.0         7,534.2         33.6         26.3         -80.29         1,834.4         -396.2         2,774.1         2,586.9         54.14         50.81           8,200.0         8,163	7,500.0	7,417.8	7,319.9	7,245.9	31.2	25.6	141.26	1,834.2	-544.7	2,612.7	2,559.0	53.69	48.666		
7,800.0         7,715.8         7,427.1         7,311.4         32.4         25.8         143.73         1,834.3         -460.1         2,667.7         2,613.3         54.34         49.091           7,900.0         7,815.6         7,490.0         7,323.2         32.8         25.9         144.35         1,834.4         -410.5         2,687.9         2,633.5         54.34         49.091           8,000.0         7,915.5         7,476.4         7,335.9         33.1         26.0         145.04         1,834.4         -417.4         2,709.2         2,684.8         54.00         49.799           8,000.0         7,500.0         7,346.4         33.3         26.2         -83.00         1,834.4         -396.2         2,728.4         2,674.1         54.36         50.189           8,150.0         8,055.4         7,500.0         7,346.4         33.5         26.2         -81.82         1,834.4         -396.2         2,731.5         2,677.2         54.33         50.279           8,150.0         8,056.4         7,500.0         7,346.4         33.5         26.2         -81.82         1,834.4         -396.2         2,743.1         2,686.9         54.14         50.881           8,250.0         8,168.0	7,600.0	7,516.9	7,361.7	7,273.3	31.6	25.6	142.17	1,834.3	-513.2	2,630.2	2,576.2	53.98	48.724		
7,900.0         7,815.6         7,450.0         7,323.2         32.8         25.9         144.35         1,834.4         -440.5         2,687.9         2,633.5         54.39         49.423           8,000.0         7,915.5         7,476.4         7,335.9         33.1         26.0         145.04         1,834.4         -396.2         2,782.4         2,674.1         54.36         50.189           8,100.0         8,015.5         7,500.0         7,346.4         33.3         26.2         -6.48         1,834.4         -396.2         2,781.5         2,677.2         54.33         50.279           8,150.0         8,065.4         7,500.0         7,346.4         33.5         26.2         -81.82         1,834.4         -396.2         2,743.1         2,688.9         54.18         50.634           8,200.0         8,114.8         7,519.1         7,354.2         33.6         26.3         -80.29         1,834.4         -378.8         2,754.8         2,700.6         54.14         50.881           8,250.0         8,163.3         7,531.4         7,358.9         33.7         26.4         -78.90         1,834.4         -367.4         2,766.5         2,712.4         54.04         51.194           8,350.0         8	7,700.0	7,616.2	7,400.0	7,296.3	32.0	25.7	143.05	1,834.3	-482.6	2,648.5	2,594.2	54.21	48.854		
8,000.0 7,915.5 7,476.4 7,335.9 33.1 26.0 145.04 1,834.4 -417.4 2,709.2 2,654.8 54.40 49.799 8,086.5 8,002.0 7,500.0 7,346.4 33.3 26.2 6.48 1,834.4 -396.2 2,728.4 2,674.1 54.36 50.189 8,100.0 8,015.5 7,500.0 7,346.4 33.4 26.2 -83.00 1,834.4 -396.2 2,731.5 2,677.2 54.33 50.279 8,150.0 8,065.4 7,500.0 7,346.4 33.5 26.2 -81.82 1,834.4 -396.2 2,743.1 2,688.9 54.18 50.634 8,200.0 8,114.8 7,519.1 7,354.2 33.6 26.3 -80.29 1,834.4 -378.8 2,754.8 2,700.6 54.14 50.881 8,250.0 8,163.3 7,531.4 7,358.9 33.7 26.4 -78.90 1,834.4 -367.4 2,766.5 2,712.4 54.04 51.194 8,300.0 8,210.6 7,550.0 7,365.6 33.8 26.5 -77.44 1,834.5 -350.0 2,778.1 2,724.2 53.97 51.478 8,350.0 8,256.3 7,550.0 7,365.6 33.8 26.5 -77.44 1,834.5 -350.0 2,778.1 2,724.2 53.97 51.478 8,350.0 8,266.3 7,550.0 7,365.6 33.8 26.5 -74.89 1,834.5 -350.0 2,778.1 2,724.2 53.97 51.478 8,350.0 8,266.3 7,572.2 7,372.8 33.9 26.6 -74.89 1,834.5 -350.0 2,778.1 2,724.2 53.97 51.478 8,450.0 8,341.6 7,600.0 7,380.7 33.9 26.8 -73.50 1,834.5 -320.1 2,800.5 2,746.8 53.70 52.148 8,450.0 8,380.6 7,600.0 7,380.7 33.9 26.8 -73.50 1,834.5 -302.4 2,811.2 2,757.5 53.70 52.353 8,500.0 8,380.6 7,600.0 7,380.7 33.9 26.8 -72.53 1,834.5 -302.4 2,811.2 2,757.5 53.70 52.353 8,500.0 8,416.6 7,617.2 7,384.9 33.9 27.0 -71.44 1,834.5 -285.7 2,830.6 2,777.1 53.43 52.972 8,600.0 8,449.5 7,632.8 7,388.3 33.9 27.1 -70.47 1,834.6 -220.5 2,839.2 2,785.8 53.39 53.176 8,600.0 8,490.0 7,650.0 7,391.6 33.9 27.2 -69.56 1,834.6 -220.5 2,839.2 2,765.8 53.39 53.176 8,600.0 8,490.0 7,650.0 7,391.0 33.9 27.4 -68.83 1,834.6 -220.8 2,859.8 2,806.3 53.51 53.445 8,600.0 8,544.9 7,700.0 7,396.2 33.8 27.7 -67.63 1,834.6 -220.8 2,859.8 2,866.3 53.51 53.445 8,800.0 8,544.9 7,700.0 7,396.2 33.8 27.7 -67.63 1,834.6 -220.8 2,859.8 2,866.3 53.51 53.445 8,800.0 8,544.9 7,700.0 7,396.2 33.8 27.7 -67.63 1,834.6 -220.8 2,859.8 2,866.3 53.51 53.45 8,800.0 8,544.9 7,700.0 7,396.2 33.8 27.7 -67.63 1,834.6 -220.8 2,859.8 2,866.3 53.51 53.445 8,800.0 8,544.9 7,700.0 7,396.2 33.8 27.7 -67.63 1,834.6 -220.8 2,859.8 2,866.3 53.51 53.445 8,8	7,800.0	7,715.8	7,427.1	7,311.4	32.4	25.8	143.73	1,834.3	-460.1	2,667.7	2,613.3	54.34	49.091		
8,086.5 8,002.0 7,500.0 7,346.4 33.3 26.2 64.8 1,834.4 -396.2 2,728.4 2,674.1 54.36 50.189 8,100.0 8,015.5 7,500.0 7,346.4 33.4 26.2 -83.00 1,834.4 -396.2 2,731.5 2,677.2 54.33 50.279 8,150.0 8,065.4 7,500.0 7,346.4 33.5 26.2 -81.82 1,834.4 -396.2 2,731.5 2,677.2 54.33 50.279 8,200.0 8,114.8 7,519.1 7,354.2 33.6 26.3 -80.29 1,834.4 -378.8 2,754.8 2,700.6 54.14 50.881  8,250.0 8,163.3 7,531.4 7,358.9 33.7 26.4 -78.90 1,834.4 -367.4 2,766.5 2,712.4 54.04 51.194 8,300.0 8,210.6 7,550.0 7,365.6 33.8 26.5 -77.44 1,834.5 -350.0 2,778.1 2,724.2 53.97 51.478 8,350.0 8,256.3 7,550.0 7,365.6 33.8 26.5 -76.30 1,834.5 -350.0 2,778.1 2,724.2 53.97 51.478 8,450.0 8,300.1 7,572.2 7,372.8 33.9 26.8 -74.89 1,834.5 -350.0 2,789.5 2,735.8 53.75 51.898 8,400.0 8,300.1 7,572.2 7,372.8 33.9 26.8 -74.89 1,834.5 -320.1 2,800.5 2,746.8 53.70 52.148 8,450.0 8,341.6 7,600.0 7,380.7 33.9 26.8 -72.53 1,834.5 -302.4 2,811.2 2,757.5 53.70 52.353  8,500.0 8,489.5 7,632.8 7,384.9 33.9 27.0 -71.44 1,834.5 -285.7 2,830.6 2,777.1 53.49 52.745 8,550.0 8,416.6 7,617.2 7,384.9 33.9 27.0 -71.44 1,834.5 -285.7 2,830.6 2,777.1 53.43 52.972 8,600.0 8,49.5 7,632.8 7,388.3 33.9 27.0 -71.44 1,834.5 -285.7 2,830.6 2,777.1 53.49 53.223 8,700.0 8,504.8 7,664.9 7,394.0 33.9 27.0 -71.44 1,834.6 -270.5 2,839.2 2,785.8 53.39 53.176 8,650.0 8,479.0 7,650.0 7,391.6 33.9 27.0 -70.47 1,834.6 -270.5 2,839.2 2,785.8 53.39 53.176 8,650.0 8,504.8 7,664.9 7,394.0 33.9 27.0 -70.47 1,834.6 -223.8 2,839.2 2,785.8 53.39 53.323 8,700.0 8,504.8 7,664.9 7,394.0 33.9 27.0 -70.47 1,834.6 -223.8 2,855.9 2,800.5 53.42 53.42 1 8,750.0 8,568.4 7,737.5 7,400.3 33.7 28.0 -66.91 1,834.7 -180.9 2,868.6 2,814.7 53.65 53.268 8,950.0 8,568.4 7,737.5 7,400.3 33.7 28.0 -66.91 1,834.7 -186.6 2,871.3 2,817.2 54.17 53.010 8,950.0 8,573.8 7,767.7 7,401.0 33.7 28.3 -66.74 1,834.7 -186.6 2,871.3 2,817.2 54.17 53.010	7,900.0	7,815.6	7,450.0	7,323.2	32.8	25.9	144.35	1,834.4	-440.5	2,687.9	2,633.5	54.39	49.423		
8,100.0 8,015.5 7,500.0 7,346.4 33.4 26.2 -83.00 1,834.4 -396.2 2,731.5 2,677.2 54.33 50.279 8,150.0 8,066.4 7,500.0 7,346.4 33.5 26.2 -81.82 1,834.4 -396.2 2,743.1 2,688.9 54.18 50.634 8,200.0 8,114.8 7,519.1 7,354.2 33.6 26.3 -80.29 1,834.4 -378.8 2,754.8 2,700.6 54.14 50.881  8,250.0 8,163.3 7,531.4 7,358.9 33.7 26.4 -78.90 1,834.4 -367.4 2,766.5 2,712.4 54.04 51.194 8,300.0 8,210.6 7,550.0 7,365.6 33.8 26.5 -77.44 1,834.5 -350.0 2,778.1 2,724.2 53.97 51.478 8,350.0 8,256.3 7,550.0 7,365.6 33.8 26.5 -76.30 1,834.5 -350.0 2,778.1 2,724.2 53.97 51.478 8,400.0 8,300.1 7,572.2 7,372.8 33.9 26.6 -74.89 1,834.5 -329.1 2,800.5 2,746.8 53.70 52.148 8,450.0 8,341.6 7,600.0 7,380.7 33.9 26.8 -73.50 1,834.5 -302.4 2,811.2 2,757.5 53.70 52.353  8,500.0 8,380.6 7,600.0 7,380.7 33.9 26.8 -72.53 1,834.5 -302.4 2,821.2 2,767.7 53.49 52.745 8,650.0 8,449.5 7,632.8 7,388.3 33.9 27.0 -71.44 1,834.5 -285.7 2,830.6 2,777.1 53.43 52.972 8,660.0 8,449.5 7,632.8 7,388.3 33.9 27.1 -70.47 1,834.6 -255.6 2,847.0 2,793.6 53.39 53.176 8,650.0 8,479.0 7,650.0 7,391.6 33.9 27.2 -40.4 68.83 1,834.6 -263.6 2,847.0 2,793.6 53.39 53.176 8,650.0 8,564.8 7,664.9 7,394.0 33.9 27.4 -68.83 1,834.6 -228.2 8,589.2 2,805.5 53.42 53.421  8,750.0 8,556.8 7,714.3 7,396.2 33.8 27.5 -68.18 1,834.6 -228.2 8,589.2 2,805.5 53.42 53.421  8,850.0 8,568.8 7,714.3 7,396.2 33.8 27.7 -67.63 1,834.6 -228.2 8,589.2 2,805.5 53.42 53.421  8,850.0 8,568.8 7,774.3 7,396.2 33.8 27.7 -67.63 1,834.6 -224.1 2,864.7 2,811.1 53.67 53.49 53.29 8,800.0 8,568.8 7,774.3 7,399.3 33.8 27.7 -67.63 1,834.7 -166.6 2,871.3 2,811.2 54.61 53.010	8,000.0	7,915.5	7,476.4	7,335.9	33.1	26.0	145.04	1,834.4	-417.4	2,709.2	2,654.8	54.40	49.799		
8,150.0         8,065.4         7,500.0         7,346.4         33.5         26.2         -81.82         1,834.4         -396.2         2,743.1         2,688.9         54.18         50.634           8,200.0         8,114.8         7,519.1         7,354.2         33.6         26.3         -80.29         1,834.4         -378.8         2,754.8         2,700.6         54.14         50.881           8,250.0         8,163.3         7,551.4         7,358.9         33.7         26.4         -78.90         1,834.5         -360.0         2,776.5         2,712.4         54.04         51.194           8,350.0         8,256.3         7,550.0         7,365.6         33.8         26.5         -77.44         1,834.5         -350.0         2,789.5         2,735.8         53.75         51.478           8,350.0         8,256.3         7,550.0         7,365.6         33.8         26.5         -76.30         1,834.5         -350.0         2,789.5         2,735.8         53.75         51.898           8,450.0         8,341.6         7,600.0         7,380.7         33.9         26.8         -72.53         1,834.5         -302.4         2,811.2         2,767.7         53.49         52.745           8,550.0	8,086.5	8,002.0	7,500.0	7,346.4	33.3	26.2	6.48	1,834.4	-396.2	2,728.4	2,674.1	54.36	50.189		
8,200.0       8,114.8       7,519.1       7,354.2       33.6       26.3       -80.29       1,834.4       -378.8       2,754.8       2,700.6       54.14       50.881         8,250.0       8,163.3       7,531.4       7,358.9       33.7       26.4       -78.90       1,834.4       -367.4       2,766.5       2,712.4       54.04       51.194         8,300.0       8,210.6       7,550.0       7,365.6       33.8       26.5       -77.44       1,834.5       -350.0       2,778.5       2,735.8       53.75       51.898         8,400.0       8,300.1       7,572.2       7,372.8       33.9       26.6       -74.89       1,834.5       -329.1       2,800.5       2,746.8       53.70       52.148         8,450.0       8,341.6       7,600.0       7,380.7       33.9       26.8       -72.53       1,834.5       -302.4       2,811.2       2,757.5       53.70       52.353         8,550.0       8,380.6       7,600.0       7,384.9       33.9       27.0       -71.44       1,834.5       -265.7       2,830.6       2,777.1       53.43       52.972         8,550.0       8,449.5       7,632.8       7,384.9       33.9       27.0       -71.44       1,834.5	8,100.0	8,015.5	7,500.0	7,346.4	33.4	26.2	-83.00	1,834.4	-396.2	2,731.5	2,677.2	54.33	50.279		
8,250.0       8,163.3       7,531.4       7,358.9       33.7       26.4       -78.90       1,834.4       -367.4       2,766.5       2,712.4       54.04       51.194         8,300.0       8,210.6       7,550.0       7,365.6       33.8       26.5       -77.44       1,834.5       -350.0       2,778.1       2,724.2       53.97       51.478         8,350.0       8,256.3       7,550.0       7,365.6       33.8       26.5       -76.30       1,834.5       -350.0       2,789.5       2,735.8       53.75       51.898         8,400.0       8,300.1       7,572.2       7,372.8       33.9       26.6       -74.89       1,834.5       -329.1       2,800.5       2,746.8       53.70       52.148         8,450.0       8,341.6       7,600.0       7,380.7       33.9       26.8       -72.53       1,834.5       -302.4       2,811.2       2,767.7       53.49       52.745         8,550.0       8,416.6       7,617.2       7,384.9       33.9       27.0       -71.44       1,834.5       -285.7       2,830.6       2,777.1       53.49       52.745         8,650.0       8,449.5       7,632.8       7,388.3       33.9       27.1       -70.47       1,834.6	8,150.0	8,065.4	7,500.0	7,346.4	33.5	26.2	-81.82	1,834.4	-396.2	2,743.1	2,688.9	54.18	50.634		
8,300.0       8,210.6       7,550.0       7,365.6       33.8       26.5       -77.44       1,834.5       -350.0       2,778.1       2,724.2       53.97       51.478         8,350.0       8,256.3       7,550.0       7,365.6       33.8       26.5       -76.30       1,834.5       -350.0       2,789.5       2,735.8       53.75       51.898         8,400.0       8,300.1       7,572.2       7,372.8       33.9       26.6       -74.89       1,834.5       -329.1       2,800.5       2,746.8       53.70       52.148         8,450.0       8,341.6       7,600.0       7,380.7       33.9       26.8       -73.50       1,834.5       -302.4       2,811.2       2,767.5       53.70       52.353         8,500.0       8,380.6       7,600.0       7,380.7       33.9       26.8       -72.53       1,834.5       -302.4       2,821.2       2,767.7       53.49       52.745         8,550.0       8,416.6       7,617.2       7,384.9       33.9       27.0       -71.44       1,834.5       -285.7       2,830.6       2,777.1       53.43       52.972         8,600.0       8,449.5       7,652.8       7,398.3       33.9       27.1       -70.47       1,834.6	8,200.0	8,114.8	7,519.1	7,354.2	33.6	26.3	-80.29	1,834.4	-378.8	2,754.8	2,700.6	54.14	50.881		
8,350.0       8,256.3       7,550.0       7,365.6       33.8       26.5       -76.30       1,834.5       -350.0       2,789.5       2,735.8       53.75       51.898         8,400.0       8,300.1       7,572.2       7,372.8       33.9       26.6       -74.89       1,834.5       -329.1       2,800.5       2,746.8       53.70       52.148         8,450.0       8,341.6       7,600.0       7,380.7       33.9       26.8       -73.50       1,834.5       -302.4       2,811.2       2,757.5       53.70       52.353         8,500.0       8,380.6       7,600.0       7,380.7       33.9       26.8       -72.53       1,834.5       -302.4       2,821.2       2,767.7       53.49       52.745         8,550.0       8,416.6       7,617.2       7,384.9       33.9       27.0       -71.44       1,834.5       -285.7       2,830.6       2,777.1       53.43       52.972         8,600.0       8,449.5       7,632.8       7,388.3       33.9       27.1       -70.47       1,834.6       -270.5       2,839.2       2,785.8       53.39       53.176         8,650.0       8,479.0       7,650.0       7,391.6       33.9       27.2       -69.58       1,834.6	8,250.0	8,163.3	7,531.4	7,358.9	33.7	26.4	-78.90	1,834.4	-367.4	2,766.5	2,712.4	54.04	51.194		
8,400.0       8,300.1       7,572.2       7,372.8       33.9       26.6       -74.89       1,834.5       -329.1       2,800.5       2,746.8       53.70       52.148         8,450.0       8,341.6       7,600.0       7,380.7       33.9       26.8       -73.50       1,834.5       -302.4       2,811.2       2,757.5       53.70       52.353         8,500.0       8,380.6       7,600.0       7,380.7       33.9       26.8       -72.53       1,834.5       -302.4       2,821.2       2,767.7       53.49       52.745         8,550.0       8,416.6       7,617.2       7,384.9       33.9       27.0       -71.44       1,834.5       -285.7       2,830.6       2,777.1       53.43       52.972         8,600.0       8,449.5       7,632.8       7,388.3       33.9       27.1       -70.47       1,834.6       -270.5       2,839.2       2,785.8       53.39       53.176         8,650.0       8,479.0       7,650.0       7,391.6       33.9       27.2       -69.58       1,834.6       -253.6       2,847.0       2,793.6       53.39       53.23         8,750.0       8,526.9       7,681.2       7,396.2       33.8       27.5       -68.18       1,834.6       <		8,210.6	7,550.0		33.8	26.5	-77.44		-350.0	2,778.1		53.97	51.478		
8,450.0       8,341.6       7,600.0       7,380.7       33.9       26.8       -73.50       1,834.5       -302.4       2,811.2       2,757.5       53.70       52.353         8,500.0       8,380.6       7,600.0       7,380.7       33.9       26.8       -72.53       1,834.5       -302.4       2,821.2       2,767.7       53.49       52.745         8,550.0       8,416.6       7,617.2       7,384.9       33.9       27.0       -71.44       1,834.5       -285.7       2,830.6       2,777.1       53.43       52.972         8,600.0       8,449.5       7,632.8       7,388.3       33.9       27.1       -70.47       1,834.6       -270.5       2,839.2       2,785.8       53.39       53.176         8,650.0       8,479.0       7,650.0       7,391.6       33.9       27.2       -69.58       1,834.6       -253.6       2,847.0       2,793.6       53.39       53.23         8,700.0       8,504.8       7,664.9       7,394.0       33.9       27.4       -68.83       1,834.6       -222.8       2,859.8       2,800.5       53.42       53.421         8,750.0       8,526.9       7,681.2       7,396.2       33.8       27.5       -68.18       1,834.6       <	8,350.0	8,256.3	7,550.0	7,365.6	33.8	26.5	-76.30	1,834.5	-350.0	2,789.5	2,735.8	53.75	51.898		
8,500.0       8,380.6       7,600.0       7,380.7       33.9       26.8       -72.53       1,834.5       -302.4       2,821.2       2,767.7       53.49       52.745         8,550.0       8,416.6       7,617.2       7,384.9       33.9       27.0       -71.44       1,834.5       -285.7       2,830.6       2,777.1       53.43       52.972         8,600.0       8,449.5       7,652.8       7,388.3       33.9       27.1       -70.47       1,834.6       -270.5       2,839.2       2,785.8       53.39       53.176         8,650.0       8,479.0       7,650.0       7,391.6       33.9       27.2       -69.58       1,834.6       -253.6       2,847.0       2,793.6       53.39       53.323         8,700.0       8,504.8       7,664.9       7,394.0       33.9       27.4       -68.83       1,834.6       -238.9       2,853.9       2,800.5       53.42       53.421         8,750.0       8,526.9       7,681.2       7,396.2       33.8       27.5       -68.18       1,834.6       -222.8       2,859.8       2,806.3       53.51       53.445         8,800.0       8,544.9       7,700.0       7,398.2       33.8       27.7       -67.63       1,834.6	8,400.0	8,300.1	7,572.2	7,372.8	33.9	26.6	-74.89	1,834.5	-329.1	2,800.5	2,746.8	53.70	52.148		
8,550.0       8,416.6       7,617.2       7,384.9       33.9       27.0       -71.44       1,834.5       -285.7       2,830.6       2,777.1       53.43       52.972         8,600.0       8,449.5       7,632.8       7,388.3       33.9       27.1       -70.47       1,834.6       -270.5       2,839.2       2,785.8       53.39       53.176         8,650.0       8,479.0       7,650.0       7,391.6       33.9       27.2       -69.58       1,834.6       -253.6       2,847.0       2,793.6       53.99       53.23         8,700.0       8,504.8       7,664.9       7,394.0       33.9       27.4       -68.83       1,834.6       -238.9       2,853.9       2,800.5       53.42       53.421         8,750.0       8,526.9       7,681.2       7,396.2       33.8       27.5       -68.18       1,834.6       -222.8       2,859.8       2,806.3       53.51       53.445         8,800.0       8,544.9       7,700.0       7,398.2       33.8       27.7       -67.63       1,834.6       -204.1       2,864.7       2,811.1       53.67       53.379         8,850.0       8,558.8       7,714.3       7,399.3       33.8       27.8       -67.22       1,834.7       <	8,450.0	8,341.6	7,600.0	7,380.7	33.9	26.8	-73.50	1,834.5	-302.4	2,811.2	2,757.5	53.70	52.353		
8,550.0       8,416.6       7,617.2       7,384.9       33.9       27.0       -71.44       1,834.5       -285.7       2,830.6       2,777.1       53.43       52.972         8,600.0       8,449.5       7,632.8       7,388.3       33.9       27.1       -70.47       1,834.6       -270.5       2,839.2       2,785.8       53.39       53.176         8,650.0       8,479.0       7,650.0       7,391.6       33.9       27.2       -69.58       1,834.6       -253.6       2,847.0       2,793.6       53.99       53.23         8,700.0       8,504.8       7,664.9       7,394.0       33.9       27.4       -68.83       1,834.6       -238.9       2,853.9       2,800.5       53.42       53.421         8,750.0       8,526.9       7,681.2       7,396.2       33.8       27.5       -68.18       1,834.6       -222.8       2,859.8       2,806.3       53.51       53.445         8,800.0       8,544.9       7,700.0       7,398.2       33.8       27.7       -67.63       1,834.6       -204.1       2,864.7       2,811.1       53.67       53.379         8,850.0       8,558.8       7,714.3       7,399.3       33.8       27.8       -67.22       1,834.7       <	8,500.0	8,380.6	7,600.0	7,380.7	33.9	26.8	-72.53	1,834.5	-302.4	2,821.2	2,767.7	53.49	52.745		
8,600.0       8,449.5       7,632.8       7,388.3       33.9       27.1       -70.47       1,834.6       -270.5       2,839.2       2,785.8       53.39       53.176         8,650.0       8,479.0       7,650.0       7,391.6       33.9       27.2       -69.58       1,834.6       -253.6       2,847.0       2,793.6       53.39       53.23         8,700.0       8,504.8       7,664.9       7,394.0       33.9       27.4       -68.83       1,834.6       -238.9       2,853.9       2,800.5       53.42       53.421         8,750.0       8,526.9       7,681.2       7,396.2       33.8       27.5       -68.18       1,834.6       -222.8       2,859.8       2,806.3       53.51       53.445         8,800.0       8,544.9       7,700.0       7,398.2       33.8       27.7       -67.63       1,834.6       -204.1       2,864.7       2,811.1       53.67       53.379         8,850.0       8,558.8       7,714.3       7,399.3       33.8       27.8       -67.22       1,834.7       -189.9       2,868.6       2,814.7       53.85       53.268         8,900.0       8,568.4       7,737.5       7,400.3       33.7       28.0       -66.91       1,834.7       <															
8,650.0       8,479.0       7,650.0       7,391.6       33.9       27.2       -69.58       1,834.6       -253.6       2,847.0       2,793.6       53.39       53.323         8,700.0       8,504.8       7,664.9       7,394.0       33.9       27.4       -68.83       1,834.6       -238.9       2,853.9       2,800.5       53.42       53.421         8,750.0       8,526.9       7,681.2       7,396.2       33.8       27.5       -68.18       1,834.6       -222.8       2,859.8       2,806.3       53.51       53.445         8,800.0       8,544.9       7,700.0       7,398.2       33.8       27.7       -67.63       1,834.6       -204.1       2,864.7       2,811.1       53.67       53.379         8,850.0       8,558.8       7,714.3       7,399.3       33.8       27.8       -67.22       1,834.7       -189.9       2,868.6       2,814.7       53.85       53.268         8,900.0       8,568.4       7,737.5       7,400.3       33.7       28.0       -66.91       1,834.7       -166.6       2,871.3       2,817.2       54.17       53.010         8,950.0       8,573.8       7,767.7       7,401.0       33.7       28.3       -66.74       1,834.7															
8,700.0 8,504.8 7,664.9 7,394.0 33.9 27.4 -68.83 1,834.6 -238.9 2,853.9 2,805.5 53.42 53.421  8,750.0 8,526.9 7,681.2 7,396.2 33.8 27.5 -68.18 1,834.6 -222.8 2,859.8 2,806.3 53.51 53.445  8,800.0 8,544.9 7,700.0 7,398.2 33.8 27.7 -67.63 1,834.6 -204.1 2,864.7 2,811.1 53.67 53.379  8,850.0 8,558.8 7,714.3 7,399.3 33.8 27.8 -67.22 1,834.7 -189.9 2,868.6 2,814.7 53.85 53.268  8,900.0 8,568.4 7,737.5 7,400.3 33.7 28.0 -66.91 1,834.7 -166.6 2,871.3 2,817.2 54.17 53.010  8,950.0 8,573.8 7,767.7 7,401.0 33.7 28.3 -66.74 1,834.7 -136.4 2,872.8 2,818.2 54.61 52.601															
8,800.0       8,544.9       7,700.0       7,398.2       33.8       27.7       -67.63       1,834.6       -204.1       2,864.7       2,811.1       53.67       53.379         8,850.0       8,558.8       7,714.3       7,399.3       33.8       27.8       -67.22       1,834.7       -189.9       2,868.6       2,814.7       53.85       53.268         8,900.0       8,568.4       7,737.5       7,400.3       33.7       28.0       -66.91       1,834.7       -166.6       2,871.3       2,817.2       54.17       53.010         8,950.0       8,573.8       7,767.7       7,401.0       33.7       28.3       -66.74       1,834.7       -136.4       2,872.8       2,818.2       54.61       52.601															
8,800.0       8,544.9       7,700.0       7,398.2       33.8       27.7       -67.63       1,834.6       -204.1       2,864.7       2,811.1       53.67       53.379         8,850.0       8,558.8       7,714.3       7,399.3       33.8       27.8       -67.22       1,834.7       -189.9       2,868.6       2,814.7       53.85       53.268         8,900.0       8,568.4       7,737.5       7,400.3       33.7       28.0       -66.91       1,834.7       -166.6       2,871.3       2,817.2       54.17       53.010         8,950.0       8,573.8       7,767.7       7,401.0       33.7       28.3       -66.74       1,834.7       -136.4       2,872.8       2,818.2       54.61       52.601	8,750.0	8,526.9	7,681.2	7,396.2	33.8	27.5	-68.18	1,834.6	-222.8	2,859.8	2,806.3	53.51	53.445		
8,850.0 8,558.8 7,714.3 7,399.3 33.8 27.8 -67.22 1,834.7 -189.9 2,868.6 2,814.7 53.85 53.268 8,900.0 8,568.4 7,737.5 7,400.3 33.7 28.0 -66.91 1,834.7 -166.6 2,871.3 2,817.2 54.17 53.010 8,950.0 8,573.8 7,767.7 7,401.0 33.7 28.3 -66.74 1,834.7 -136.4 2,872.8 2,818.2 54.61 52.601															
8,950.0 8,573.8 7,767.7 7,401.0 33.7 28.3 -66.74 1,834.7 -136.4 2,872.8 2,818.2 54.61 52.601		8,558.8			33.8	27.8			-189.9	2,868.6		53.85	53.268		
	8,900.0	8,568.4	7,737.5	7,400.3	33.7	28.0	-66.91	1,834.7	-166.6	2,871.3	2,817.2	54.17	53.010		
8,986.5 8,575.0 7,804.2 7,401.9 33.7 28.7 -66.73 1,834.8 -99.9 2,872.8 2,817.7 55.12 52.124	8,950.0	8,573.8	7,767.7	7,401.0	33.7	28.3	-66.74	1,834.7	-136.4	2,872.8	2,818.2	54.61	52.601		
	8,986.5	8,575.0	7,804.2	7,401.9	33.7	28.7	-66.73	1,834.8	-99.9	2,872.8	2,817.7	55.12	52.124		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

 TVD Reference:
 KB @ 3377.5usft

 MD Reference:
 KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

Offset Des	sign	Simon C	Camamile	Fed Com -	Simon C	amamile Fed	d Com #114H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 ust
Survey Progr Refere		WD <b>Offse</b>		Sami Majar	Avia				Dista				Offset Well Error:	0.0 ust
Refere Measured	Vertical	Measured	Vertical	Semi Major Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
8,993.2	8,575.0	7,810.9	7,402.0	33.8	28.8	-66.73	1,834.8	-93.2	2,872.8	2,817.6	55.22	52.025		
9,000.0	8,575.0	7,817.8	7,402.2	33.8	28.9	-66.73	1,834.8	-86.4	2,872.7	2,817.4	55.33	51.924		
9,100.0	8,575.0	7,917.7	7,404.5	33.9	30.0	-66.77	1,834.9	13.5	2,871.8	2,814.8	57.00	50.386		
9,200.0	8,575.0	8,017.7	7,406.9	34.4	31.4	-66.82	1,835.0	113.5	2,870.9	2,811.9	58.97	48.684		
9,300.0	8,575.0	8,117.7	7,409.2	35.3	32.8	-66.86	1,835.2	213.4	2,870.0	2,808.8	61.22	46.882		
9,400.0	8,575.0	8,217.7	7,411.5	36.3	34.4	-66.90	1,835.3	313.4	2,869.1	2,805.3	63.71	45.032		
9,500.0	8,575.0	8,317.6	7,413.9	37.6	36.0	-66.95	1,835.4	413.3	2,868.2	2,801.7	66.43	43.178		
9,600.0	8,575.0	8,417.6	7,416.2	38.9	37.8	-66.99	1,835.5	513.3	2,867.2	2,797.9	69.33	41.354		
9,700.0	8,575.0	8,517.6	7,418.5	40.4	39.6	-67.03	1,835.6	613.2	2,866.3	2,793.9	72.42	39.581		
9,800.0	8,575.0	8,617.5	7,420.9	41.9	41.5	-67.08	1,835.8	713.2	2,865.4	2,789.8	75.65	37.878		
9,900.0	8,575.0	8,717.5	7,423.2	43.6	43.4	-67.12	1,835.9	813.1	2,864.5	2,785.5	79.02	36.252		
10,000.0	8,575.0	8,817.5	7,425.6	45.3	45.4	-67.16	1,836.0	913.1	2,863.6	2,781.1	82.50	34.709		
10,100.0	8,575.0	8,917.5	7,427.9	47.0	47.5	-67.21	1,836.1	1,013.0	2,862.7	2,776.6	86.10	33.250		
10,200.0	8,575.0	9,017.4	7,430.2	48.9	49.6	-67.25	1,836.3	1,112.9	2,861.8	2,772.0	89.78	31.876		
10,300.0	8,575.0	9,117.4	7,432.6	50.8	51.7	-67.29	1,836.4	1,212.9	2,860.9	2,767.4	93.55	30.583		
10,400.0	8,575.0	9,217.4	7,434.9	52.7	53.8	-67.33	1,836.5	1,312.8	2,860.0	2,762.6	97.39	29.368		
10,500.0	8,575.0	9,317.4	7,437.2	54.7	56.0	-67.38	1,836.6	1,412.8	2,859.1	2,757.8	101.29	28.227		
10,600.0	8,575.0	9,417.3	7,439.6	56.7	58.2	-67.42	1,836.7	1,512.7	2,858.2	2,753.0	105.26	27.155		
10,700.0	8,575.0	9,517.3	7,441.9	58.7	60.4	-67.46	1,836.9	1,612.7	2,857.4	2,748.1	109.27	26.149		
10,800.0	8,575.0	9,617.3	7,444.3	60.8	62.6	-67.51	1,837.0	1,712.6	2,856.5	2,743.1	113.33	25.204		
10,900.0	8,575.0	9,717.2	7,446.6	62.9	64.8	-67.55	1,837.1	1,812.6	2,855.6	2,738.1	117.44	24.315		
11,000.0	8,575.0	9,817.2	7,448.9	65.0	67.1	-67.59	1,837.2	1,912.5	2,854.7	2,733.1	121.58	23.479		
11,100.0	8,575.0	9,917.2	7,451.3	67.1	69.4	-67.64	1,837.4	2,012.5	2,853.8	2,728.1	125.76	22.692		
11,200.0	8,575.0	10,017.2	7,453.6	69.3	71.6	-67.68	1,837.5	2,112.4	2,852.9	2,723.0	129.97	21.950		
11,300.0	8,575.0	10,117.1	7,455.9	71.5	73.9	-67.73	1,837.6	2,212.3	2,852.0	2,717.8	134.21	21.250		
11,400.0	8,575.0	10,217.1	7,458.3	73.7	76.2	-67.77	1,837.7	2,312.3	2,851.2	2,712.7	138.48	20.589		
11,500.0	8,575.0	10,317.1	7,460.6	75.9	78.5	-67.81	1,837.8	2,412.2	2,850.3	2,707.5	142.77	19.964		
11,600.0	8,575.0	10,417.1	7,463.0	78.2	80.9	-67.86	1,838.0	2,512.2	2,849.4	2,702.3	147.08	19.373		
11,700.0	8,575.0	10,517.0	7,465.3	80.4	83.2	-67.90	1,838.1	2,612.1	2,848.5	2,697.1	151.42	18.812		
11,800.0	8,575.0	10,617.0	7,467.6	82.7	85.5	-67.94	1,838.2	2,712.1	2,847.7	2,691.9	155.77	18.281		
11,900.0	8,575.0	10,717.0	7,470.0	84.9	87.9	-67.99	1,838.3	2,812.0	2,846.8	2,686.7	160.14	17.776		
12,000.0	8,575.0	10,816.9	7,472.3	87.2	90.2	-68.03	1,838.5	2,912.0	2,845.9	2,681.4	164.53	17.297		
12,100.0	8,575.0	10,916.9	7,474.7	89.5	92.6	-68.07	1,838.6	3,011.9	2,845.1	2,676.1	168.94	16.841		
12,200.0	8,575.0	11,016.9	7,477.0	91.8	94.9	-68.12	1,838.7	3,111.8	2,844.2	2,670.8	173.36	16.407		
12,300.0	8,575.0	11,116.9	7,479.3	94.1	97.3	-68.16	1,838.8	3,211.8	2,843.3	2,665.5	177.79	15.993		
12,400.0	8,575.0	11,216.8	7,481.7	96.4	99.7	-68.21	1,838.9	3,311.7	2,842.5	2,660.2	182.23	15.598		
12,500.0	8,575.0	11,316.8	7,484.0	98.7	102.0	-68.25	1,839.1	3,411.7	2,841.6	2,654.9	186.69	15.221		
12,600.0	8,575.0	11,416.8	7,486.3	101.0	104.4	-68.29	1,839.2	3,511.6	2,840.8	2,649.6	191.16	14.860		
12,700.0	8,575.0	11,516.8	7,488.7	103.4	106.8	-68.34	1,839.3	3,611.6	2,839.9	2,644.3	195.64	14.516		
12,800.0	8,575.0	11,616.7	7,491.0	105.7	109.2	-68.38	1,839.4	3,711.5	2,839.0	2,638.9	200.13	14.186		
12,900.0	8,575.0	11,716.7	7,493.4	108.0	111.6	-68.42	1,839.6	3,811.5	2,838.2	2,633.6	204.63	13.870		
13,000.0	8,575.0	11,816.7	7,495.7	110.4	114.0	-68.47	1,839.7	3,911.4	2,837.3	2,628.2	209.14	13.567		
13,100.0	8,575.0	11,916.6	7,498.0	112.7	116.3	-68.51	1,839.8	4,011.4	2,836.5	2,622.8	213.66	13.276		
13,200.0	8,575.0	12,016.6	7,500.4	115.1	118.7	-68.56	1,839.9	4,111.3	2,835.6	2,617.4	218.19	12.996		
13,300.0	8,575.0	12,116.6	7,502.7	117.5	121.1	-68.60	1,840.0	4,211.2	2,834.8	2,612.1	222.72	12.728		
13,400.0	8,575.0	12,216.6	7,505.0	119.8	123.5	-68.64	1,840.2	4,311.2	2,833.9	2,606.7	227.26	12.470		
13,500.0	8,575.0	12,316.5	7,507.4	122.2	125.9	-68.69	1,840.3	4,411.1	2,833.1	2,601.3	231.81	12.221		
13,600.0	8,575.0	12,416.5	7,509.7	124.6	128.3	-68.73	1,840.4	4,511.1	2,832.3	2,595.9	236.37	11.982		
13,700.0	8,575.0	12,516.5	7,512.1	126.9	130.7	-68.78	1,840.5	4,611.0	2,831.4	2,590.5	240.94	11.752		
13,800.0	8,575.0	12,616.5	7,514.4	129.3	133.2	-68.82	1,840.7	4,711.0	2,830.6	2,585.1	245.51	11.530		
13,900.0	8,575.0	12,716.4	7,516.7	131.7	135.6	-68.87	1,840.8	4,810.9	2,829.7	2,579.7	250.08	11.315		
14,000.0	8,575.0	12,816.4	7,519.1	134.1	138.0	-68.91	1,840.9	4,910.9	2,828.9	2,574.2	254.67	11.108		

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com

Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Well Simon Camamile Fed Com #126H

Offset Des	sign	Simon (	Camamile	Fed Com -	Simon C	amamile Fed	d Com #114H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 usf
Survey Progr				0	A!-				Di-4				Offset Well Error:	0.0 usf
Refere Measured	ence Vertical	Offse Measured	et Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	e Centre	Dista Between	ance Between	Minimum	Separation	Moneine	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
14,100.0	8,575.0	12,916.4	7,521.4	136.4	140.4	-68.95	1,841.0	5,010.8	2,828.1	2,568.8	259.25	10.908		
14,200.0	8,575.0	13,016.3	7,523.7	138.8	142.8	-69.00	1,841.1	5,110.8	2,827.2	2,563.4	263.85	10.715		
14,300.0	8,575.0	13,116.3	7,526.1	141.2	145.2	-69.04	1,841.3	5,210.7	2,826.4	2,558.0	268.45	10.529		
14,400.0	8,575.0	13,216.3	7,528.4	143.6	147.6	-69.09	1,841.4	5,310.6	2,825.6	2,552.5	273.06	10.348		
14,500.0	8,575.0	13,316.3	7,530.8	146.0	150.0	-69.13	1,841.5	5,410.6	2,824.7	2,547.1	277.67	10.173		
14,600.0	8,575.0	13,416.2	7,533.1	148.4	152.5	-69.18	1,841.6	5,510.5	2,823.9	2,541.6	282.28	10.004		
14,700.0	8,575.0	13,516.2	7,535.4	150.8	154.9	-69.22	1,841.7	5,610.5	2,823.1	2,536.2	286.90	9.840		
14,800.0	8,575.0	13,616.2	7,537.8	153.2	157.3	-69.26	1,841.9	5,710.4	2,822.3	2,530.7	291.53	9.681		
14,900.0	8,575.0	13,716.1	7,540.1	155.6	159.7	-69.31	1,842.0	5,810.4	2,821.5	2,525.3	296.16	9.527		
15,000.0	8,575.0	13,816.1	7,542.4	158.0	162.1	-69.35	1,842.1	5,910.3	2,820.6	2,519.8	300.79	9.377		
15,100.0	8,575.0	13,916.1	7,544.8	160.4	164.6	-69.40	1,842.2	6,010.3	2,819.8	2,514.4	305.43	9.232		
15,200.0	8,575.0	14,016.1	7,547.1	162.8	167.0	-69.44	1,842.4	6,110.2	2,819.0	2,508.9	310.08	9.091		
15,300.0	8,575.0	14,116.0	7,549.5	165.2	169.4	-69.49	1,842.5	6,210.2	2,818.2	2,503.5	314.73	8.954		
15,400.0	8,575.0	14,216.0	7,551.8	167.6	171.8	-69.53	1,842.6	6,310.1	2,817.4	2,498.0	319.38	8.821		
15,500.0	8,575.0	14,316.0	7,554.1	170.0	174.3	-69.58	1,842.7	6,410.0	2,816.6	2,492.5	324.04	8.692		
15,600.0	8,575.0	14,416.0	7,556.5	172.5	176.7	-69.62	1,842.8	6,510.0	2,815.8	2,487.1	328.70	8.566		
15,700.0	8,575.0	14,515.9	7,558.8	174.9	179.1	-69.67	1,843.0	6,609.9	2,815.0	2,481.6	333.36	8.444		
15,800.0	8,575.0	14,615.9	7,561.2	177.3	181.6	-69.71	1,843.1	6,709.9	2,814.1	2,476.1	338.03	8.325		
15,900.0	8,575.0	14,715.9	7,563.5	179.7	184.0	-69.75	1,843.2	6,809.8	2,813.3	2,470.6	342.70	8.209		
16,000.0	8,575.0	14,815.8	7,565.8	182.1	186.4	-69.80	1,843.3	6,909.8	2,812.5	2,465.2	347.38	8.097		
16,100.0	8,575.0	14,915.8	7,568.2	184.5	188.9	-69.84	1,843.5	7,009.7	2,811.7	2,459.7	352.06	7.987		
16,200.0	8,575.0	15,015.8	7,570.5	187.0	191.3	-69.89	1,843.6	7,109.7	2,810.9	2,454.2	356.74	7.880		
16,300.0	8,575.0	15,115.8	7,572.8	189.4	193.7	-69.93	1,843.7	7,209.6	2,810.1	2,448.7	361.43	7.775		
16,400.0	8,575.0	15,215.7	7,575.2	191.8	196.1	-69.98	1,843.8	7,309.6	2,809.4	2,443.2	366.12	7.673		
16,500.0	8,575.0	15,315.7	7,577.5	194.2	198.6	-70.02	1,843.9	7,409.5	2,808.6	2,437.7	370.81	7.574		
16,600.0	8,575.0	15,415.7	7,579.9	196.6	201.0	-70.07	1,844.1	7,509.4	2,807.8	2,432.3	375.51	7.477		
16,700.0	8,575.0	15,515.7	7,582.2	199.1	203.4	-70.11	1,844.2	7,609.4	2,807.0	2,426.8	380.21	7.383		
16,800.0	8,575.0	15,615.6	7,584.5	201.5	205.9	-70.16	1,844.3	7,709.3	2,806.2	2,421.3	384.91	7.290		
16,900.0	8,575.0	15,715.6	7,586.9	203.9	208.3	-70.20	1,844.4	7,809.3	2,805.4	2,415.8	389.62	7.200		
17,000.0	8,575.0	15,815.6	7,589.2	206.3	210.8	-70.25	1,844.6	7,909.2	2,804.6	2,410.3	394.33	7.112		
17,100.0	8,575.0	15,915.5	7,591.5	208.8	213.2	-70.29	1,844.7	8,009.2	2,803.8	2,404.8	399.04	7.026		
17,200.0	8,575.0	16,015.5	7,593.9	211.2	215.6	-70.34	1,844.8	8,109.1	2,803.1	2,399.3	403.76	6.942		
17,300.0	8,575.0	16,115.5	7,596.2	213.6	218.1	-70.38	1,844.9	8,209.1	2,802.3	2,393.8	408.48	6.860		
17,400.0	8,575.0	16,215.5	7,598.6	216.0	220.5	-70.43	1,845.0	8,309.0	2,801.5	2,388.3	413.20	6.780		
17,500.0	8,575.0	16,315.4	7,600.9	218.5	222.9	-70.47	1,845.2	8,408.9	2,800.7	2,382.8	417.92	6.702		
17,600.0	8,575.0	16,415.4	7,603.2	220.9	225.4	-70.52	1,845.3	8,508.9	2,799.9	2,377.3	422.65	6.625		
17,700.0	8,575.0	16,515.4	7,605.6	223.3	227.8	-70.56	1,845.4	8,608.8	2,799.2	2,371.8	427.38	6.550		
17,800.0	8,575.0	16,615.4	7,607.9	225.8	230.3	-70.61	1,845.5	8,708.8	2,798.4	2,366.3	432.12	6.476		
17,900.0	8,575.0	16,715.3	7,610.2	228.2	232.7	-70.65	1,845.7	8,808.7	2,797.6	2,360.8	436.85	6.404		
18,000.0	8,575.0	16,815.3	7,612.6	230.6	235.1	-70.70	1,845.8	8,908.7	2,796.9	2,355.3	441.59	6.334		
18,100.0	8,575.0	16,915.3	7,614.9	233.0	237.6	-70.74	1,845.9	9,008.6	2,796.1	2,349.8	446.34	6.265		
18,200.0	8,575.0	17,015.2	7,617.3	235.5	240.0	-70.79	1,846.0	9,108.6	2,795.3	2,344.3	451.08	6.197		
18,300.0	8,575.0	17,115.2	7,619.6	237.9	242.5	-70.84	1,846.1	9,208.5	2,794.6	2,338.7	455.83	6.131		
18,400.0	8,575.0	17,110.2	7,621.9	240.3	244.9	-70.88	1,846.3	9,308.5	2,793.8	2,333.2	460.58	6.066		
18,500.0	8,575.0	17,315.2	7,624.3	242.8	247.3	-70.93	1,846.4	9,408.4	2,793.1	2,327.7	465.33	6.002		
18,600.0	8,575.0	17,415.1	7,626.6	245.2	249.8	-70.97	1,846.5	9,508.3	2,792.3	2,322.2	470.09	5.940		
18,700.0	8,575.0	17,515.1	7,629.0	247.6	252.2	-71.02	1,846.6	9,608.3	2,791.5	2,316.7	474.85	5.879		
18,800.0	8,575.0	17,615.1	7,631.3	250.1	252.2	-71.02	1,846.8	9,708.2	2,791.3	2,310.7	479.61	5.819		
18,900.0	8,575.0	17,615.1	7,633.6	252.5	254.7	-71.06 -71.11	1,846.9	9,808.2	2,790.0	2,311.2	484.38	5.760		
				252.5		-71.11 -71.15								
19,000.0 19,100.0	8,575.0 8,575.0	17,815.0 17,915.0	7,636.0 7,638.3	257.4	259.5 262.0	-71.15 -71.20	1,847.0 1,847.1	9,908.1 10,008.1	2,789.3 2,788.5	2,300.2 2,294.6	489.14 493.91	5.702 5.646		
19,200.0	8,575.0	18,015.0	7,640.6	259.8	264.4	-71.24	1,847.2	10,108.0	2,787.8	2,289.1	498.68	5.590		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

Offset De	•		Camamile	Fed Com -	Simon C	amamile Fe	d Com #114H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 usf
Survey Progr Refer		WD <b>Offse</b>		Semi Major	Avio				Dista				Offset Well Error:	0.0 usf
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor	+E/-W	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
							(usft)	(usft)						
19,300.0	8,575.0	18,114.9	7,643.0	262.3	266.9	-71.29	1,847.4	10,208.0	2,787.1	2,283.6	503.46	5.536		
19,400.0	8,575.0	18,214.9	7,645.3	264.7	269.3	-71.34	1,847.5	10,307.9	2,786.3	2,278.1	508.23	5.482		
19,500.0	8,575.0	18,314.9	7,647.7	267.1	271.8	-71.38	1,847.6	10,407.9	2,785.6	2,272.6	513.01	5.430		
19,600.0	8,575.0	18,414.9	7,650.0	269.6	274.2	-71.43	1,847.7	10,507.8	2,784.8	2,267.0	517.79	5.378		
19,700.0	8,575.0	18,514.8	7,652.3	272.0	276.6	-71.47	1,847.9	10,607.7	2,784.1	2,261.5	522.58	5.328		
19,800.0	8,575.0	18,614.8	7,654.7	274.5	279.1	-71.52	1,848.0	10,707.7	2,783.4	2,256.0	527.37	5.278		
19,900.0	8,575.0	18,714.8	7,657.0	276.9	281.5	-71.56	1,848.1	10,807.6	2,782.6	2,250.5	532.15	5.229		
20,000.0	8,575.0	18,814.8	7,659.3	279.3	284.0	-71.61	1,848.2	10,907.6	2,781.9	2,245.0	536.95	5.181		
20,100.0	8,575.0	18,914.7	7,661.7	281.8	286.4	-71.66	1,848.3	11,007.5	2,781.2	2,239.4	541.74	5.134		
20,200.0	8,575.0	19,014.7	7,664.0	284.2	288.9	-71.70	1,848.5	11,107.5	2,780.4	2,233.9	546.54	5.087		
20,300.0	8,575.0	19,114.7	7,666.4	286.6	291.3	-71.75	1,848.6	11,207.4	2,779.7	2,228.4	551.33	5.042		
20,400.0	8,575.0	19,214.6	7,668.7	289.1	293.8	-71.79	1,848.7	11,307.4	2,779.0	2,222.9	556.13	4.997		
20,500.0	8,575.0	19,314.6	7,671.0	291.5	296.2	-71.84	1,848.8	11,407.3	2,778.3	2,217.3	560.94	4.953		
20,600.0	8,575.0	19,414.6	7,673.4	294.0	298.6	-71.88	1,849.0	11,507.3	2,777.5	2,211.8	565.74	4.910		
20,700.0	8,575.0	19,514.6	7,675.7	296.4	301.1	-71.93	1,849.1	11,607.2	2,776.8	2,206.3	570.55	4.867		
20,800.0	8,575.0	19,614.5	7,678.0	298.9	303.5	-71.98	1,849.2	11,707.1	2,776.1	2,200.7	575.36	4.825		
20,900.0	8,575.0	19,714.5	7,680.4	301.3	306.0	-72.02	1,849.3	11,807.1	2,775.4	2,195.2	580.17	4.784		
21,000.0	8,575.0	19,814.5	7,682.7	303.7	308.4	-72.07	1,849.4	11,907.0	2,774.7	2,189.7	584.99	4.743		
21,100.0	8,575.0	19,901.7	7,684.8	306.2	310.6	-72.11	1,849.6	11,994.2	2.774.0	2,184.5	589.46	4.706		
21,200.0	8,575.0	20,001.7	7,686.5	308.6	313.0	-72.14	1,850.0	12,094.2	2,773.7	2,179.5	594.25	4.668		
21,212.5	8,575.0	20,014.1	7,686.7	308.9	313.3	-72.15	1,850.0	12,106.6	2,773.7	2,178.9	594.85	4.663 ES,	SF	
21,213.6	8,575.0	20,003.9	7.686.5	309.0	313.1	-72.14	1,850.0	12,096.4	2,773.7	2,179.1	594.59	4.665		

Company: Matador Production Company

Project: Ranger/Arrowhead

Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft

KB @ 3377.5usft

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Reference Measured Depth (usft)  0.0	cal th         Measured Depth (usft)           0.0         1           100.0         101           200.0         201           300.0         301           400.0         401           500.0         501           600.0         601           700.0         701           800.0         801           900.0         901           1000.1         1,001           1109.7         1,200           299.1         1,304	Depth (usft)  1.0 1.0 1.0 101.0 1.0 201.0 11.0 301.0 11.0 401.0 11.0 501.0 11.0 601.0 11.0 801.0 11.0 901.0	Semi Major Reference (usft) 0.0 0.1 0.5 0.8 1.2 1.6 1.9 2.3 2.6	Offset (usft)  0.0 0.1 0.5 0.8 1.2 1.6	Highside Toolface (°) 89.83 89.83 89.83 89.83 89.83 89.83	Offset Wellbor +N/-S (usft) 0.2 0.2 0.2 0.2 0.2	re Centre +E/-W (usft) 79.9 79.9 79.9	Dista Between Centres (usft)	nce Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Offset Well Error: Warning	0.0 usft
Measured Depth (usft)  0.0 100.0 100.0 200.0 300.0 300.0 400.0 400.0 500.0 500.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100	cal th         Measured Depth (usft)           0.0         1           100.0         101           200.0         201           300.0         301           400.0         401           500.0         501           600.0         601           700.0         701           800.0         801           900.0         901           1000.1         1,001           1109.7         1,200           299.1         1,304	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Reference (usft) 0.0 0.1 0.5 0.8 1.2 1.6 1.9 2.3	0.0 0.1 0.5 0.8 1.2 1.6	Toolface (°) 89.83 89.83 89.83 89.83 89.83	+N/-S (usft) 0.2 0.2 0.2 0.2	+E/-W (usft) 79.9 79.9	Between Centres (usft)	Between Ellipses	Separation	•	Warning	
Depth (usft)         Depth (usft)           0.0         100.0           100.0         100           200.0         200           300.0         300           400.0         400           500.0         500           600.0         600           700.0         700           800.0         800           900.0         1,000           1,100.0         1,100           1,200.0         1,199           1,372.0         1,372           1,400.0         1,595           1,700.0         1,694           1,800.0         1,792           1,900.0         2,088           2,100.0         2,088           2,400.0         2,384           2,500.0         2,483           2,600.0         2,582           2,700.0         2,680           2,800.0         2,779           2,900.0         3,075           3,000.0         3,075           3,000.0         3,273           3,400.0         3,371           3,419.3         3,390           3,500.0         3,667           3,800.0         3,766	th (usft)  0.0 1 100.0 101 200.0 201 300.0 301 400.0 401 500.0 501 600.0 601 700.0 701 800.0 901 000.0 1,001 100.0 1,101 199.7 1,200 299.1 1,304	Depth (usft)  1.0 1.0 1.0 10.0 1.0 201.0 11.0 301.0 11.0 401.0 11.0 501.0 11.0 601.0 11.0 601.0 11.0 701.0 11.0 901.0	(usft)  0.0  0.1  0.5  0.8  1.2  1.6  1.9  2.3	0.0 0.1 0.5 0.8 1.2	Toolface (°) 89.83 89.83 89.83 89.83 89.83	+N/-S (usft) 0.2 0.2 0.2 0.2	+E/-W (usft) 79.9 79.9	Centres (usft)	Ellipses	Separation	•	Warning	
100.0 100.0 200.0 300.0 300.0 300.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0	100.0 101 200.0 201 300.0 301 400.0 401 500.0 501 600.0 601 700.0 701 800.0 901 000.0 1,001 100.0 1,101 199.7 1,200 299.1 1,304	11.0 101.0 11.0 201.0 11.0 301.0 11.0 401.0 11.0 501.0 11.0 601.0 11.0 701.0 11.0 801.0 11.0 901.0	0.1 0.5 0.8 1.2 1.6 1.9 2.3	0.1 0.5 0.8 1.2 1.6	89.83 89.83 89.83	0.2 0.2 0.2	79.9	79.9					
200.0 200.0 300.0 400.0 400.0 400.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0	200.0 201 300.0 301 400.0 401 500.0 501 600.0 601 700.0 701 800.0 801 900.0 901 000.0 1,001 100.0 1,101 199.7 1,200 299.1 1,304	11.0 201.0 11.0 301.0 11.0 401.0 11.0 501.0 11.0 601.0 11.0 701.0 11.0 801.0 11.0 901.0	0.5 0.8 1.2 1.6 1.9 2.3	0.5 0.8 1.2 1.6	89.83 89.83 89.83	0.2 0.2							
300.0 300.0 400.0 400.0 400.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0	300.0 301 400.0 401 500.0 501 600.0 601 700.0 701 800.0 801 900.0 901 000.0 1,001 100.0 1,101 199.7 1,200 299.1 1,304	11.0 301.0 11.0 401.0 11.0 501.0 11.0 601.0 11.0 701.0 11.0 801.0 11.0 901.0	0.8 1.2 1.6 1.9 2.3	0.8 1.2 1.6	89.83 89.83	0.2	79.9	79.9	79.7	0.26	307.608		
400.0 400 500.0 500 600.0 600 700.0 700 800.0 800 900.0 900 1,000.0 1,000 1,100.0 1,100 1,200.0 1,398 1,372.0 1,370 1,400.0 1,595 1,700.0 1,694 1,800.0 1,792 1,900.0 1,900 2,100.0 2,088 2,200.0 2,187 2,400.0 2,384 2,500.0 2,483 2,600.0 2,582 2,700.0 2,887 3,000.0 3,075 3,200.0 3,774 3,300.0 3,273 3,400.0 3,566 3,700.0 3,667 3,800.0 3,666 3,700.0 3,666 3,900.0 3,666 3,900.0 3,666 3,900.0 3,666 3,900.0 3,666 3,900.0 3,666 3,900.0 3,666 3,900.0 3,666	400.0 401 500.0 501 600.0 601 700.0 701 800.0 801 900.0 901 000.0 1,001 100.0 1,101 199.7 1,200 299.1 1,304	11.0 401.0 11.0 501.0 11.0 601.0 11.0 701.0 11.0 801.0 11.0 901.0	1.2 1.6 1.9 2.3	1.2 1.6	89.83			79.9	79.0	0.98	81.841		
500.0 500 600.0 600.0 600.0 700.0 800.0 800 900.0 900 1,000.0 1,000 1,100.0 1,100 1,200.0 1,199 1,300.0 1,299 1,372.0 1,370 1,400.0 1,595 1,700.0 1,694 1,800.0 1,792 1,900.0 1,891 2,000.0 1,990 2,100.0 2,088 2,200.0 2,187 2,300.0 2,266 2,400.0 2,582 2,400.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 2,878 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,667 3,800.0 3,666 3,700.0 3,666 3,700.0 3,666 3,900.0 3,666 3,900.0 3,666 3,900.0 3,666 3,900.0 3,666	500.0 501 600.0 601 700.0 701 800.0 801 900.0 901 000.0 1,001 100.0 1,101 199.7 1,200 299.1 1,304	11.0 501.0 11.0 601.0 11.0 701.0 11.0 801.0 11.0 901.0	1.6 1.9 2.3	1.6		0.2	79.9	79.9	78.3	1.69	47.199		
600.0 600.0 700.0 700.0 800.0 800.0 800.0 900.0 900.0 1,000.0 1,000.0 1,100.0 1,100.0 1,300.0 1,300.0 1,390.0 1,370.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,390.0 1,374.0 1,300.0 1,374.0 1,300.0 1,374.0 1,300.0 1,374.0 1,300.0 1,374.0 1,300.0 1,374.0 1,300.0 1,376.0 1,300.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0 1,360.0	600.0 601 700.0 701 800.0 801 900.0 901 000.0 1,001 100.0 1,101 199.7 1,200 299.1 1,304	11.0 601.0 11.0 701.0 11.0 801.0 11.0 901.0	1.9 2.3		89.83		79.9	79.9	77.5	2.41	33.162		
700.0 700 800.0 800 900.0 900 1,000.0 1,000 1,100.0 1,100 1,200.0 1,390 1,372.0 1,370 1,400.0 1,596 1,600.0 1,596 1,700.0 1,891 2,000.0 2,187 2,300.0 2,384 2,500.0 2,483 2,200.0 2,384 2,500.0 2,483 2,700.0 2,680 2,400.0 2,77 2,900.0 2,878 3,000.0 3,075 3,200.0 3,774 3,300.0 3,774 3,300.0 3,774 3,300.0 3,776 3,400.0 3,667 3,800.0 3,667 3,800.0 3,666 3,700.0 3,667 3,800.0 3,666 3,700.0 3,666 3,700.0 3,666 3,700.0 3,666 3,700.0 3,666 3,700.0 3,666 3,700.0 3,666	700.0 701 800.0 801 900.0 901 000.0 1,001 100.0 1,101 199.7 1,200 299.1 1,304	11.0 701.0 11.0 801.0 11.0 901.0	2.3	1.9		0.2	79.9	79.9	76.8	3.13	25.561		
800.0 800 900.0 900 1,000.0 1,000 1,000.0 1,000 1,100.0 1,100 1,200.0 1,199 1,372.0 1,370 1,400.0 1,595 1,700.0 1,694 1,800.0 1,792 1,900.0 1,990 2,100.0 2,887 2,200.0 2,187 2,300.0 2,286 2,400.0 2,384 2,500.0 2,483 2,600.0 2,582 2,400.0 2,384 2,500.0 2,887 3,000.0 3,075 3,200.0 3,774 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,667 3,800.0 3,666 3,700.0 3,666 3,700.0 3,666 3,700.0 3,666 3,700.0 3,666 3,700.0 3,666 3,700.0 3,666 3,700.0 3,666 3,700.0 3,666 3,700.0 3,666	800.0 801 900.0 901 000.0 1,001 100.0 1,101 199.7 1,200 299.1 1,304	11.0 801.0 11.0 901.0			89.83	0.2	79.9	79.9	76.1	3.84	20.794		
900.0 900.1 1,000.0 1,000.1 1,100.0 1,100.1 1,200.0 1,199.1 1,300.0 1,299.1 1,372.0 1,370.1 1,400.0 1,595.1 1,700.0 1,694.1 1,800.0 1,792.1 1,900.0 1,891.2 2,000.0 2,187.2 2,300.0 2,286.2 2,400.0 2,384.2 2,500.0 2,483.2 2,600.0 2,286.2 2,700.0 2,680.2 2,700.0 2,680.2 2,700.0 2,680.3 2,600.0 3,756.3 3,000.0 3,773.3 3,000.0 3,774.3 3,000.0 3,766.3 3,700.0 3,667.3 3,800.0 3,766.3 3,900.0 3,865.3	900.0 901 000.0 1,001 100.0 1,101 199.7 1,200 299.1 1,304	1.0 901.0		2.3	89.83	0.2	79.9	79.9	75.4	4.56	17.526		
1,000.0 1,000 1,100.0 1,100 1,100.0 1,190 1,300.0 1,299 1,372.0 1,370 1,400.0 1,398 1,500.0 1,694 1,800.0 1,792 1,700.0 1,694 1,800.0 1,792 2,000.0 2,088 2,200.0 2,187 2,300.0 2,286 2,400.0 2,384 2,500.0 2,483 2,600.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 3,076 3,000.0 3,774 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,766 3,800.0 3,766	000.0 1,001 100.0 1,101 199.7 1,200 299.1 1,304		3.0	2.6 3.0	89.83 89.83	0.2 0.2	79.9 79.9	79.9 79.9	74.7 73.9	5.28 6.00	15.145 13.334		
1,100.0 1,100 1,200.0 1,199 1,372.0 1,370 1,400.0 1,398 1,500.0 1,496 1,600.0 1,595 1,700.0 1,694 1,800.0 1,792 1,900.0 2,088 2,200.0 2,187 2,300.0 2,286 2,400.0 2,384 2,500.0 2,433 2,600.0 2,582 2,700.0 2,680 2,700.0 2,680 3,000.0 3,773 3,100.0 3,757 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,766 3,700.0 3,667 3,800.0 3,667 3,800.0 3,666 3,900.0 3,666	100.0 1,101 199.7 1,200 299.1 1,304	1,001.0	3.4	3.4	89.83	0.2	79.9	79.9	73.9	6.71	11.910		
1,200.0 1,199 1,300.0 1,299 1,372.0 1,370 1,400.0 1,398 1,500.0 1,496 1,600.0 1,595 1,700.0 1,694 1,800.0 1,792 1,900.0 1,891 2,000.0 2,088 2,200.0 2,187 2,300.0 2,266 2,400.0 2,384 2,500.0 2,483 2,600.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 2,878 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,568 3,700.0 3,667 3,800.0 3,666 3,900.0 3,666 3,900.0 3,666 3,900.0 3,666	199.7 1,200 299.1 1,304	1.0 1,101.0	3.7	3.7	-132.12	0.2	79.9	81.4	74.0	7.41	10.979		
1,300.0 1,299 1,372.0 1,370 1,400.0 1,398 1,500.0 1,496 1,600.0 1,595 1,700.0 1,694 1,800.0 1,792 1,900.0 1,891 2,000.0 2,088 2,200.0 2,187 2,300.0 2,286 2,400.0 2,384 2,500.0 2,483 2,600.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 2,878 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,666 3,900.0 3,666	299.1 1,304		4.0	4.1	-135.27	0.2	79.9	85.9	77.8	8.10	10.602		
1,372.0 1,370.1 1,400.0 1,398 1,500.0 1,496 1,600.0 1,595 1,700.0 1,694 1,800.0 1,792 1,900.0 1,891 2,000.0 2,187 2,300.0 2,286 2,400.0 2,384 2,500.0 2,483 2,500.0 2,483 2,500.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 2,878 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,766 3,700.0 3,667 3,800.0 3,766			4.4	4.4	-133.27	-1.8	78.0	91.8	83.0	8.79	10.442		
1,400.0 1,398 1,500.0 1,496 1,600.0 1,595 1,700.0 1,694 1,800.0 1,792 1,900.0 1,891 2,000.0 2,088 2,200.0 2,187 2,300.0 2,286 2,400.0 2,582 2,700.0 2,680 2,600.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,500.0 3,667 3,700.0 3,667 3,800.0 3,666 3,900.0 3,666	,5.0		4.6	4.7	-141.16	-5.8	74.1	95.6	86.4	9.28	10.308		
1,600.0 1,595 1,700.0 1,694 1,800.0 1,792 1,900.0 1,891 2,000.0 2,088 2,200.0 2,187 2,300.0 2,286 2,400.0 2,384 2,500.0 2,483 2,600.0 2,582 2,700.0 2,878 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,766 3,800.0 3,766	398.0 1,408		4.7	4.8	-141.90	-7.9	72.1	96.9	87.4	9.47	10.234		
1,600.0 1,595 1,700.0 1,694 1,800.0 1,792 1,900.0 1,891 2,000.0 1,990 2,100.0 2,088 2,200.0 2,187 2,300.0 2,286 2,400.0 2,582 2,700.0 2,680 2,600.0 2,680 2,800.0 2,779 2,900.0 2,878 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,666 3,800.0 3,666	496.7 1,512	2.4 1,511.0	5.1	5.1	-143.23	-18.1	62.3	98.5	88.4	10.14	9.717		
1,800.0 1,792 1,900.0 1,891 2,000.0 1,990 2,100.0 2,088 2,200.0 2,187 2,300.0 2,286 2,400.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 2,878 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,566 3,700.0 3,667 3,800.0 3,666 3,900.0 3,666 3,900.0 3,865			5.5	5.5	-142.71	-32.2	48.7	95.7	84.9	10.82	8.844		
1,900.0 1,891 2,000.0 1,990 2,100.0 2,088 2,200.0 2,187 2,300.0 2,286 2,400.0 2,384 2,500.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 2,878 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,566 3,700.0 3,667 3,800.0 3,666 3,900.0 3,865	694.1 1,716	6.0 1,710.5	5.9	5.9	-141.49	-47.2	34.3	91.3	79.8	11.55	7.907		
2,000.0 1,990 2,100.0 2,088 2,200.0 2,187 2,300.0 2,286 2,400.0 2,384 2,500.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 2,878 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,566 3,700.0 3,667 3,800.0 3,667 3,800.0 3,666 3,900.0 3,865	792.7 1,815	5.9 1,808.2	6.3	6.3	-140.15	-62.2	19.9	87.0	74.7	12.30	7.073		
2,100.0 2,088 2,200.0 2,187 2,300.0 2,286 2,400.0 2,384 2,500.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,766 3,700.0 3,667 3,800.0 3,766 3,900.0 3,865	891.4 1,915	5.7 1,905.9	6.7	6.7	-138.67	-77.1	5.5	82.7	69.6	13.06	6.331		
2,200.0 2,187 2,300.0 2,286 2,400.0 2,384 2,600.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 3,075 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,566 3,700.0 3,667 3,800.0 3,667 3,800.0 3,666 3,900.0 3,865	990.1 2,015	5.6 2,003.6	7.1	7.1	-137.03	-92.1	-8.9	78.5	64.6	13.85	5.668		
2,300.0 2,286 2,400.0 2,384 2,500.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 2,878 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,566 3,700.0 3,667 3,800.0 3,667 3,800.0 3,865	088.8 2,115	5.5 2,101.3	7.5	7.6	-135.20	-107.1	-23.3	74.3	59.7	14.65	5.074		
2,400.0 2,384 2,500.0 2,483 2,600.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 3,075 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,566 3,700.0 3,667 3,800.0 3,666 3,900.0 3,865	187.5 2,215	5.4 2,199.0	7.9	8.0	-133.16	-122.0	-37.7	70.2	54.8	15.47	4.541		
2,500.0 2,483 2,600.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 2,878 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,766	286.2 2,315	5.3 2,296.7	8.3	8.5	-130.87	-137.0	-52.1	66.3	50.0	16.31	4.064		
2,600.0 2,582 2,700.0 2,680 2,800.0 2,779 2,900.0 2,878 3,000.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,766	384.9 2,415	5.2 2,394.4	8.8	8.9	-128.30	-151.9	-66.5	62.4	45.3	17.18	3.635		
2,700.0 2,680 2,800.0 2,779 2,900.0 2,878 3,000.0 2,977 3,100.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,865	483.5 2,515	5.1 2,492.1	9.2	9.4	-125.39	-166.9	-80.9	58.7	40.7	18.06	3.251		
2,800.0 2,779 2,900.0 2,878 3,000.0 2,977 3,100.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,766 3,900.0 3,865			9.6	9.8	-122.11	-181.9	-95.3	55.2	36.2	18.98	2.908		
2,900.0 2,878 3,000.0 2,977 3,100.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,766			10.1	10.3	-118.38	-196.8	-109.7	51.9	31.9	19.92	2.603		
3,100.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,566 3,700.0 3,667 3,800.0 3,865			10.5 10.9	10.7 11.2	-114.17 -109.42	-211.8 -226.8	-124.1 -138.5	48.8 46.0	27.9 24.1	20.89 21.87	2.335 2.103		
3,100.0 3,075 3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,566 3,700.0 3,667 3,800.0 3,865	977.0 3,014	4.5 2,980.6	11.3	11.7	-104.10	-241.7	-152.9	43.6	20.7	22.87	1.905		
3,200.0 3,174 3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,865 3,900.0 3,865			11.8	12.1	-98.22	-256.7	-167.3	41.6	17.7	23.86	1.741		
3,300.0 3,273 3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,865			12.2	12.6	-91.81	-271.6	-181.7	40.0	15.2	24.83	1.612		
3,400.0 3,371 3,419.3 3,390 3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,865			12.6	13.1	-84.98	-286.6	-196.1	39.0	13.3	25.73	1.517		
3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,766 3,900.0 3,865			13.1	13.6	-77.91	-301.6	-210.5	38.6	12.1	26.57	1.454 L	evel 3	
3,500.0 3,470 3,600.0 3,569 3,700.0 3,667 3,800.0 3,766 3,900.0 3,865	390.8 3,433	3.3 3,390.4	13.2	13.7	-76.53	-304.5	-213.3	38.6	11.9	26.72	1.445 L	evel 3, CC	
3,600.0 3,569 3,700.0 3,667 3,800.0 3,766 3,900.0 3,865			13.5	14.0	-70.80	-316.5	-224.9	38.8	11.5	27.31	1.421 L		
3,700.0 3,667 3,800.0 3,766 3,900.0 3,865			14.0	14.5	-63.85	-331.5	-239.3	39.6	11.6	27.97	1.415 L		
3,900.0 3,865			14.4	15.0	-57.27	-346.5	-253.7	40.9	12.3	28.56	1.432 L		
	766.5 3,813	3.5 3,762.3	14.8	15.5	-51.17	-361.4	-268.1	42.7	13.6	29.10	1.469 L	evel 3	
4 000 0 3 063	865.1 3,913	3.4 3,860.0	15.3	16.0	-45.63	-376.4	-282.5	45.0	15.4	29.62	1.519		
4,000.0 3,963	963.8 4,013	3.3 3,957.7	15.7	16.4	-40.66	-391.4	-296.9	47.7	17.5	30.14	1.581		
4,100.0 4,062	062.5 4,113	3.2 4,055.4	16.1	16.9	-36.25	-406.3	-311.3	50.6	20.0	30.67	1.651		
4,200.0 4,161	161.2 4,213	3.1 4,153.1	16.6	17.4	-32.34	-421.3	-325.7	53.9	22.7	31.22	1.725		
4,300.0 4,259		3.0 4,250.8	17.0	17.9	-28.89	-436.2	-340.1	57.3	25.5	31.79	1.803		
4,400.0 4,358		2.8 4,348.5	17.5	18.4	-25.85	-451.2	-354.5	61.0	28.6	32.39	1.883		
4,500.0 4,457	259.9 4,313		17.9	18.9	-23.15	-466.2	-368.9	64.8	31.8	33.00	1.963		
4,600.0 4,555	259.9 4,313 358.6 4,412		18.3	19.4	-20.75	-481.1	-383.3	68.7	35.1	33.64	2.042		
4,700.0 4,654 4,800.0 4,753	259.9 4,313 358.6 4,412 457.3 4,512		18.8 19.2	19.8 20.3	-18.62 -16.72	-496.1 -511.1	-397.7 -412.1	72.7 76.9	38.4 41.9	34.29 34.96	2.121 2.198		
4,900.0 4,852	259.9 4,313 358.6 4,412 457.3 4,512 555.9 4,612 654.6 4,712	+,100.0	19.7	20.8	-15.01	-526.0	-426.5	81.1	45.4	35.64	2.274		

Company: Matador Production Company

Project: Ranger/Arrowhead

Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

Well Simon Camamile Fed Com #126H

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Offset Des	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #116H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 usft
Survey Progr													Offset Well Error:	0.0 usft
Refere Measured	ence Vertical	Offset Measured	t Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	o Contro	Dista Between	ance Between	Minimum	Separation		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
5,000.0	4,950.7	5,012.2	4,934.7	20.1	21.3	-13.46	-541.0	-440.9	85.3	49.0	36.33	2.348		
5,100.0	5,049.4	5,112.0	5,032.4	20.6	21.8	-12.07	-555.9	-455.3	89.6	52.6	37.03	2.421		
5,200.0	5,148.1	5,211.9	5,130.1	21.0	22.3	-10.81	-570.9	-469.7	94.0	56.3	37.74	2.491		
5,300.0	5,246.7	5,311.8	5,227.8	21.4	22.8	-9.65	-585.9	-484.1	98.4	60.0	38.45	2.559		
5,400.0	5,345.4	5,411.7	5,325.5	21.9	23.2	-8.60	-600.8	-498.5	102.9	63.7	39.17	2.626		
5,500.0	5,444.1	5,511.6	5,423.2	22.3	23.7	-7.64	-615.8	-512.9	107.3	67.4	39.90	2.690		
5,600.0	5,542.8	5,611.5	5,520.9	22.8	24.2	-6.75	-630.8	-527.3	111.8	71.2	40.63	2.752		
5,700.0	5,641.5	5,711.3	5,618.6	23.2	24.7	-5.93	-645.7	-541.7	116.4	75.0	41.37	2.813		
5,800.0	5,740.2	5,811.2	5,716.3	23.7	25.2	-5.17	-660.7	-556.2	120.9	78.8	42.11	2.872		
5,900.0	5,838.9	5,911.1	5,814.0	24.1	25.7	-4.47	-675.6	-570.6	125.5	82.6	42.85	2.929		
6,000.0	5,937.5	6,011.0	5,911.7	24.5	26.2	-3.82	-690.6	-585.0	130.1	86.5	43.59	2.984		
6,100.0	6,036.2	6,110.9	6,009.4	25.0	26.7	-3.21	-705.6	-599.4	134.7	90.3	44.34	3.037		
6,200.0 6,300.0	6,134.9 6,233.6	6,210.8 6,310.6	6,107.1 6,204.8	25.4 25.9	27.2 27.6	-2.64 -2.11	-720.5 -735.5	-613.8 -628.2	139.3 143.9	94.2 98.1	45.09 45.84	3.089 3.140		
6,400.0	6,332.3	6,410.5	6,302.5	26.3	28.1	-2.11 -1.61	-735.5 -750.5	-642.6	143.9	102.0	46.59	3.189		
6,500.0	6,431.0	6,510.4	6,400.2	26.8	28.6	-1.14	-765.4	-657.0	153.2	105.9	47.34	3.236		
6,600.0	6,529.6	6,610.3	6,497.9	27.2	29.1	-0.70	-780.4	-671.4	157.9	109.8	48.10	3.282		
6,700.0	6,628.3	6,721.0	6,606.8	27.6	29.6	-0.70	-794.3	-684.8	159.2	110.2	48.97	3.252		
6,800.0	6,727.0	6,831.4	6,716.6	28.1	30.0	-0.09	-802.9	-693.1	153.8	104.2	49.60	3.101		
6,900.0	6,825.7	6,940.5	6,825.6	28.5	30.4	0.00	-806.2	-696.2	141.7	91.7	50.01	2.834		
7,000.0	6,924.4	7,040.3	6,925.4	29.0	30.7	0.00	-806.2	-696.2	125.6	75.0	50.64	2.481		
7,100.0	7,023.1	7,148.8	7,033.6	29.4	30.9	-2.49	-806.2	-690.3	106.1	55.6	50.53	2.100		
7,200.0	7,121.8	7,251.4	7,133.3	29.9	31.1	-17.44	-806.2	-666.6	77.9	26.5	51.49	1.514		
7,296.5	7,217.0	7,336.8	7,212.0	30.3	31.2	-51.85	-806.2	-633.6	60.2	1.8	58.42	1.031	Level 2	
7,300.0	7,220.4	7,339.7	7,214.5	30.3	31.2	-53.35	-806.2	-632.3	60.2	1.6	58.62	1.028	Level 2, ES, SF	
7,400.0	7,319.1	7,413.1	7,277.4	30.7	31.2	-88.97	-806.1	-594.5	88.2	33.8	54.35	1.622		
7,466.5	7,384.7	7,454.4	7,310.5	31.0	31.2	-101.78	-806.1	-569.8	125.9	77.1	48.81	2.579		
7,500.0	7,417.8	7,473.3	7,325.0	31.2	31.2	-106.40	-806.1	-557.7	147.8	101.3	46.55	3.176		
7,600.0	7,516.9	7,523.4	7,361.6	31.6	31.2	-115.25	-806.0	-523.4	219.6	178.2	41.46	5.298		
7,700.0	7,616.2	7,565.6	7,389.9	32.0	31.1	-120.38	-806.0	-492.2	297.4	259.6	37.79	7.870		
7,800.0	7,715.8	7,600.0	7,411.2	32.4	31.1	-123.85	-806.0	-465.2	379.0	344.2	34.74	10.909		
7,900.0	7,815.6	7,632.6	7,430.0	32.8	31.1	-126.66	-805.9	-438.5	463.0	430.5	32.58	14.211		
8,000.0	7,915.5	7,659.7	7,444.3	33.1	31.1	-129.02	-805.9	-415.5	549.0	518.4	30.64	17.918		
8,086.5	8,002.0	7,680.6	7,454.6	33.3	31.1	89.93	-805.9	-397.4	624.5	595.3	29.22	21.376		
8,100.0	8,015.5	7,683.7	7,456.1	33.4	31.1	0.13	-805.9	-394.7	636.3	607.3	29.00	21.940		
8,150.0	8,065.4	7,700.0	7,463.6	33.5	31.1	0.11	-805.9	-380.2	679.0	650.5	28.46	23.857		
8,200.0	8,114.8	7,700.0	7,463.6	33.6	31.1	0.10	-805.9	-380.2	719.9	693.1	26.76	26.899		
8,250.0	8,163.3	7,722.6	7,473.3	33.7	31.0	0.09	-805.8	-359.8	758.7	732.2	26.40	28.734		
8,300.0	8,210.6	7,736.9	7,479.1	33.8	31.0	0.08	-805.8	-346.7	795.5	770.0	25.47	31.234		
8,350.0 8,400.0	8,256.3 8,300.1	7,750.0 7,767.2	7,484.1 7,490.2	33.8 33.9	31.0 31.0	0.08 0.07	-805.8 -805.8	-334.6 -318.6	830.2 862.6	805.8 839.0	24.43 23.59	33.977 36.571		
8,450.0	8,341.6	7,782.9	7,495.3	33.9	31.0	0.07	-805.8	-303.7	892.7	870.0	22.67	39.375		
8,500.0	8,380.6	7,800.0	7,500.5	33.9	31.0	0.07	-805.7	-287.4	920.4	898.5	21.84	42.149		
8,550.0	8,416.6	7,815.5	7,504.7	33.9	31.0	0.07	-805.7	-272.5	945.5	924.5	20.99	45.051		
8,600.0	8,449.5	7,832.2	7,508.8	33.9	31.0	0.07	-805.7	-256.3	968.1	947.9	20.26	47.776		
8,650.0	8,479.0	7,850.0	7,512.7	33.9	31.0	0.07	-805.7	-238.9	988.1	968.5	19.68	50.222		
8,700.0	8,504.8	7,866.2	7,515.7	33.9	31.0	0.07	-805.7	-223.0	1,005.4	986.3	19.17	52.438		
8,750.0	8,526.9	7,883.5	7,518.5	33.8	31.0	0.07	-805.6	-205.9	1,020.1	1,001.2	18.85	54.100		
8,800.0	8,544.9	7,900.0	7,520.6	33.8	31.0	0.07	-805.6	-189.5	1,031.9	1,013.2	18.70	55.178		
8,850.0	8,558.8	7,918.4	7,522.4	33.8	31.0	0.07	-805.6	-171.3	1,041.0	1,022.2	18.76	55.485		
8,900.0	8,568.4	7,950.0	7,524.2	33.7	31.0	0.07	-805.6	-139.7	1,047.5	1,028.5	19.04	55.031		
8,950.0	8,573.8	7,953.6	7,524.3	33.7	31.0	0.07	-805.6	-136.1	1,050.7	1,031.3	19.44	54.043		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

Name   Column   Col	Well Error:	0.0 usft
8,892.2         8,875.0         7,980.9         7,525.0         33.8         31.1         0.07         -805.5         -88.8         1,091.2         1,091.3         1,982.2         282.2           9,000.0         8,575.0         8,197.7         7,525.1         33.8         31.1         0.07         -805.4         8.0         1,094.4         1,031.2         1,988.6         228.2           9,000.0         8,575.0         8,202.3         7,526.4         33.4         31.9         0.07         -805.2         107.9         1,047.7         1,026.0         21.72         48.240           9,000.0         8,575.0         8,022.4         7,531.8         30.9         0.07         -805.0         307.9         1,047.7         1,042.5         22.11         48.240           9,000.0         8,575.0         8,022.4         7,531.8         30.9         0.07         -805.0         307.9         1,044.3         1,020.5         2.281         43.867           9,000.0         8,575.0         8,027.4         7,535.9         30.9         0.07         -804.7         80.78         1,044.9         1,014.8         2.211         43.867           9,000.0         8,575.0         8,027.6         7,535.2         3.89	Warning	
9,000,0   8,375,0   7,997,7   7,525,1   33,8   31,1   0,07   805,5   42,0   1,061,0   1,031,2   19,88   52,882   9,200,0   8,375,0   8,202,3   7,528,4   34,4   31,9   0,07   805,2   107,9   1,047,7   1,026,0   21,72   48,240   9,200,0   8,375,0   8,207,8   7,530,1   35,3   32,8   0,07   805,1   207,9   1,044,0   1,023,3   22,71   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46,062   46		
9,100 8,575 0 8,102 3 7,528 7 33 9 31.4 0.07 8.05 4 8.0 1.0494 10.286 20.77 50.286 9.2007 8,575 0 8,202 3 7,528 4 34.4 319 0.07 8.05 2 1079 10.46 0 1.023 3 22.71 46.082 9.300 8,575 0 8,207 6 7,531 8 36.3 32.8 0.07 8.05 1 2079 10.46 0 1.023 3 22.71 46.082 9.300 8,575 0 8,207 4 7,535 8 36.3 32.8 0.07 8.05 1 2079 10.44 3 1.020 5 23.81 43.857 9.500 8,575 0 8,002 4 7,535 2 38.9 36.7 0.07 8.06 1 0.00 4 407 8 10.42 6 10.17 7 2.26 0 41.00 5 9.500 8,575 0 8,002 4 7,535 2 38.9 36.7 0.07 8.04 7 507 8 10.40 9 10.14 8 26.11 39.862 9.700 8,575 0 8,702 4 7,535 2 40.4 38.3 0.07 8.04 7 507 8 10.40 9 10.11 8 27.33 38.03 1 9.00 0 8,575 0 8,702 7 7,586 9 40.4 38.3 0.07 8.04 8 707.8 10.97 8 10.99 8 10.01 9 27.33 38.03 1 9.00 0 8,575 0 8,707 7 7,538 5 41.9 38.8 0.07 8.04 4 80.7 7 10.35 9 10.06 1 29.82 34.740 10.000 8,575 0 8,002 5 7,541 9 45.3 43.4 0.07 8.04 2 807.7 10.35 9 10.06 1 29.82 34.740 10.000 8,575 0 9,002 5 7,541 9 45.3 43.4 0.07 8.04 2 807.7 10.03 5 90.00 3.57 0 9,002 5 7,541 9 45.3 43.4 0.07 8.04 2 807.7 10.00 1 9.00 3.57 0 9,002 5 7,541 9 45.3 43.4 0.07 8.04 2 807.7 10.00 2 99.00 3.57 0 9,002 5 7,541 9 45.3 43.4 0.07 8.04 2 807.7 10.00 2 99.00 3.57 0 9,002 5 7,541 5 80 9 47.2 0.07 8.04 1 1.07 6 1.00 9 90.0 3 5.57 0 9.00 5 7,541 5 80 9 47.2 0.07 8.04 1 1.00 7 1.00 1.00 8,575 0 9.00 5 7,543 6 49.9 47.2 0.07 8.03 1 1.00 7 1.00 7 8.00 1 1.00 7 8.00 1 1.00 8.57 0 9.00 9 30.5 4 28.11 7 10.00 0 8,575 0 9,00 7 5 7,543 6 5 7.5 5 8 40 9 47.2 0.07 8.03 1 1.00 1.00 1.00 8,575 0 9.00 9 30.5 5 7,540 5 8 40 9 47.2 0.07 8.03 1 1.00 1.00 8,575 0 9.00 9 30.5 4 28.11 7 10.00 0 8,575 0 9,00 7 5 7,543 6 5 7 5 5 1 1 0.07 8.03 1 1.00 8 8.00 1 1.00 9 90.0 90.0 9 30.5 4 28.11 7 10.00 0 8,575 0 9,00 7 5 7,543 6 5 7 5 5 1 0 0.00 1 8.00 1 1.00 8,575 0 9,00 9 30.5 4 28.11 7 10.00 0 8,575 0 9,00 7 5 7,543 6 5 7 5 7 5 1 0 0.00 8 8,575 0 9,00 7 6 7,553 7 5 8 7 5 7 5 1 0 0.00 8 8,575 0 9,00 7 7 7,50 7 7,50 8 8 7 5 7 5 1 0.00 8 80.3 1 1.00 7 1.00 9 8,575 0 9,00 9 30.5 4 28.11 7 1.00 0 8,575 0 9,00 9 7 7,50 7 7,50 8 10 9 10 9 10 9 10 9 9 10 9 9 10 9 9 10		
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10,400.0 8,575.0 9,397.5 7,548.6 52.7 51.1 0.07 -803.7 1,307.6 1,027.5 990.9 36.54 28.117 10,500.0 8,575.0 9,497.5 7,550.3 54.7 53.1 0.07 -803.6 1,407.6 1,025.8 997.8 37.94 27.037 10,600.0 8,575.0 9,597.5 7,552.0 56.7 55.2 0.06 -803.5 1,507.5 1,024.1 984.8 39.35 26.026 10,700.0 8,575.0 9,702.6 7,555.7 58.7 57.4 0.06 -803.4 1,607.5 1,022.4 981.6 40.81 25.055 10,800.0 8,575.0 9,802.6 7,555.4 60.8 59.6 0.06 -803.2 1,707.5 1,020.2 978.5 42.24 24.166 10,900.0 8,575.0 9,897.4 7,557.1 62.9 61.6 0.06 -803.2 1,707.5 1,020.7 978.5 42.24 24.166 10,900.0 8,575.0 9,997.4 7,558.7 65.0 63.8 0.06 -803.1 1,807.4 1,019.0 975.4 43.64 23.350 11,000.0 8,575.0 10,102.6 7,560.4 67.1 66.1 0.06 -803.0 1,907.4 1,017.4 972.3 45.09 22.562 11,1000.0 8,575.0 10,102.6 7,560.4 67.1 66.1 0.06 -802.9 2,007.4 1,015.7 999.1 46.59 21.802 11,200.0 8,575.0 10,302.6 7,563.8 71.5 70.5 0.06 -802.6 2,207.3 1,012.3 962.8 49.52 20.442 11,400.0 8,575.0 10,302.6 7,563.8 71.5 70.5 0.06 -802.6 2,207.3 1,012.3 962.8 49.52 20.442 11,400.0 8,575.0 10,307.3 7,565.5 73.7 72.7 0.06 -802.6 2,207.3 1,012.3 962.8 49.52 20.442 11,500.0 8,575.0 10,502.7 7,567.2 75.9 75.1 0.06 -802.6 2,207.3 1,010.6 959.7 50.96 19.832 11,500.0 8,575.0 10,602.7 7,568.8 76.2 75.9 75.1 0.06 -802.6 2,207.3 1,003.9 956.5 52.48 19.225 11,600.0 8,575.0 10,602.7 7,568.8 76.2 77.3 0.06 -802.4 2,407.3 1,008.9 956.5 52.48 19.225 11,600.0 8,575.0 10,602.7 7,567.2 82.7 81.9 0.06 -802.4 2,407.3 1,008.9 956.5 52.48 19.225 11,600.0 8,575.0 10,602.7 7,573.9 84.9 84.2 0.06 -801.9 2,807.2 1,003.9 946.9 56.96 17.626 11,900.0 8,575.0 10,902.7 7,573.9 84.9 84.2 0.06 -801.9 2,807.2 1,003.9 946.9 56.96 17.626 11,900.0 8,575.0 11,102.8 7,570.5 80.4 79.5 0.06 -801.5 3,107.1 997.2 943.8 58.46 17.145 12,000.0 8,575.0 11,102.8 7,577.3 89.5 88.8 0.06 -801.5 3,107.1 997.2 943.6 6.00 15.057 12,500.0 8,575.0 11,102.8 7,587.4 0.94.9 98.5 0.06 -801.5 3,107.1 997.2 942.6 6.748 14.703 12,600.0 8,575.0 11,102.8 7,587.4 0.94.9 98.0 0.05 -801.0 3,000.9 998.8 937.4 61.46 16.251 12,200.0 8,575.0 11,102.8 7,587.4 103.4 102.9 0.05		
10,500.0		
10,600.0		
10,700.0		
10,800.0         8,575.0         9,802.6         7,555.4         60.8         59.6         0.06         -803.2         1,707.5         1,020.7         978.5         42.24         24.166           10,900.0         8,575.0         9,897.4         7,557.1         62.9         61.6         0.06         -803.1         1,807.4         1,019.0         975.4         43.64         23.350           11,000.0         8,575.0         10,102.6         7,558.7         65.0         63.8         0.06         -803.0         1,907.4         1,015.7         991.4         45.09         22.562           11,100.0         8,575.0         10,102.6         7,562.1         69.3         68.2         0.06         -802.7         2,107.4         1,015.7         99.1         46.59         21.802           11,200.0         8,575.0         10,302.6         7,563.8         71.5         70.5         0.06         -802.7         2,107.4         1,014.0         966.0         48.01         21.120           11,400.0         8,575.0         10,397.3         7,565.5         73.7         72.7         0.06         -802.6         2,207.3         1,010.6         959.7         50.96         19.832           11,500.0         8,575.0		
10,900.0 8,575.0 9,897.4 7,557.1 62.9 61.6 0.06 -803.1 1,807.4 1,019.0 975.4 43.64 23.350 11,000.0 8,575.0 9,997.4 7,558.7 65.0 63.8 0.06 -803.0 1,907.4 1,015.7 969.1 46.59 22.562 11,100.0 8,575.0 10,102.6 7,560.4 67.1 66.1 0.06 -802.9 2,007.4 1,015.7 969.1 46.59 21.802 11,200.0 8,575.0 10,197.4 7,562.1 69.3 68.2 0.06 -802.7 2,107.4 1,014.0 966.0 48.01 21.120 11,300.0 8,575.0 10,302.6 7,563.8 71.5 70.5 0.06 -802.6 2,207.3 1,012.3 962.8 49.52 20.442 11,400.0 8,575.0 10,302.6 7,563.8 71.5 70.5 0.06 -802.6 2,207.3 1,012.3 962.8 49.52 20.442 11,400.0 8,575.0 10,502.7 7,567.2 75.9 75.1 0.06 -802.4 2,407.3 1,008.9 966.5 52.48 19.225 11,500.0 8,575.0 10,602.7 7,568.8 78.2 77.3 0.06 -802.2 2,507.2 1,007.3 953.3 53.97 18.664 11,700.0 8,575.0 10,602.7 7,568.8 78.2 77.3 0.06 -802.1 2,507.2 1,007.3 953.3 53.97 18.664 11,800.0 8,575.0 10,602.7 7,572.2 82.7 81.9 0.06 -802.1 2,507.2 1,007.3 954.8 58.46 17.145 11,800.0 8,575.0 10,802.7 7,572.2 82.7 81.9 0.06 -802.0 2,707.2 1,003.9 946.9 56.96 17.626 11,800.0 8,575.0 10,802.7 7,572.2 82.7 81.9 0.06 -802.0 2,707.2 1,003.9 946.9 56.96 17.626 11,800.0 8,575.0 10,902.7 7,572.2 82.7 81.9 0.06 -801.9 2,807.2 1,002.2 943.8 58.46 17.145 12,000.0 8,575.0 10,902.7 7,573.9 84.9 84.2 0.06 -801.9 2,807.2 1,002.2 943.8 58.46 17.145 12,000.0 8,575.0 10,902.7 7,573.9 84.9 84.2 0.06 -801.9 2,807.2 1,002.9 943.8 58.46 17.145 12,000.0 8,575.0 10,902.7 7,573.9 84.9 84.2 0.06 -801.6 3,007.1 998.8 937.4 61.46 16.251 12,200.0 8,575.0 11,102.8 7,577.3 89.5 88.8 0.06 -801.6 3,007.1 998.8 937.4 61.46 16.251 12,200.0 8,575.0 11,102.8 7,577.3 89.5 88.8 0.06 -801.6 3,007.1 998.8 937.4 61.46 16.251 12,200.0 8,575.0 11,102.8 7,577.3 89.5 88.8 0.06 -801.6 3,007.1 998.8 937.4 61.46 16.251 12,200.0 8,575.0 11,102.8 7,577.3 89.5 88.8 0.06 -801.6 3,007.1 998.8 937.4 61.46 16.251 12,200.0 8,575.0 11,102.8 7,582.3 96.4 95.8 0.06 -801.5 3,107.1 997.2 934.2 62.93 15.845 12,300.0 8,575.0 11,102.8 7,582.3 96.4 95.8 0.06 -801.5 3,107.1 997.2 934.2 62.93 15.845 12,300.0 8,575.0 11,407.2 7,584.0 98.7 98.0 0.05 -801.0 3,50		
11,000.0         8,575.0         9,997.4         7,558.7         65.0         63.8         0.06         -803.0         1,907.4         1,017.4         972.3         45.09         22.562           11,100.0         8,575.0         10,102.6         7,560.4         67.1         66.1         0.06         -802.9         2,007.4         1,015.7         969.1         46.59         21.802           11,200.0         8,575.0         10,197.4         7,562.1         69.3         68.2         0.06         -802.7         2,107.4         1,014.0         966.0         48.01         21.120           11,300.0         8,575.0         10,302.6         7,563.8         71.5         70.5         0.06         -802.6         2,207.3         1,012.3         962.8         49.52         20.442           11,400.0         8,575.0         10,302.7         7,565.5         73.7         72.7         0.06         -802.4         2,307.3         1,010.6         959.7         50.96         19.832           11,500.0         8,575.0         10,502.7         7,567.2         75.9         75.1         0.06         -802.4         2,407.3         1,008.9         956.5         52.48         19.225           11,600.0         8,575.0		
11,100.0       8,575.0       10,102.6       7,560.4       67.1       66.1       0.06       -802.9       2,007.4       1,015.7       969.1       46.59       21.802         11,200.0       8,575.0       10,197.4       7,562.1       69.3       68.2       0.06       -802.7       2,107.4       1,014.0       966.0       48.01       21.120         11,300.0       8,575.0       10,302.6       7,563.8       71.5       70.5       0.06       -802.6       2,207.3       1,012.3       962.8       49.52       20.442         11,400.0       8,575.0       10,397.3       7,565.5       73.7       72.7       0.06       -802.5       2,307.3       1,010.6       959.7       50.96       19.832         11,500.0       8,575.0       10,502.7       7,567.2       75.9       75.1       0.06       -802.4       2,407.3       1,008.9       956.5       52.48       19.225         11,600.0       8,575.0       10,602.7       7,568.8       78.2       77.3       0.06       -802.2       2,507.2       1,007.3       953.3       53.97       18.664         11,700.0       8,575.0       10,602.7       7,568.8       78.2       77.3       0.06       -802.1       2,607.2 </td <td></td> <td></td>		
11,200.0       8,575.0       10,197.4       7,562.1       69.3       68.2       0.06       -802.7       2,107.4       1,014.0       966.0       48.01       21,120         11,300.0       8,575.0       10,302.6       7,563.8       71.5       70.5       0.06       -802.6       2,207.3       1,012.3       962.8       49.52       20.442         11,400.0       8,575.0       10,397.3       7,565.5       73.7       72.7       0.06       -802.5       2,307.3       1,010.6       959.7       50.96       19.832         11,500.0       8,575.0       10,502.7       7,567.2       75.9       75.1       0.06       -802.4       2,407.3       1,008.9       956.5       52.48       19.225         11,600.0       8,575.0       10,602.7       7,568.8       78.2       77.3       0.06       -802.2       2,507.2       1,007.3       953.3       53.97       18.664         11,700.0       8,575.0       10,697.3       7,570.5       80.4       79.5       0.06       -802.1       2,607.2       1,005.6       950.2       55.42       18.145         11,800.0       8,575.0       10,802.7       7,573.9       84.9       84.2       0.06       -801.9       2,807.2 </td <td></td> <td></td>		
11,300.0       8,575.0       10,302.6       7,563.8       71.5       70.5       0.06       -802.6       2,207.3       1,012.3       962.8       49.52       20,442         11,400.0       8,575.0       10,397.3       7,565.5       73.7       72.7       0.06       -802.5       2,307.3       1,010.6       959.7       50.96       19.832         11,500.0       8,575.0       10,602.7       7,567.2       75.9       75.1       0.06       -802.4       2,407.3       1,008.9       956.5       52.48       19.225         11,600.0       8,575.0       10,602.7       7,568.8       78.2       77.3       0.06       -802.2       2,507.2       1,007.3       953.5       52.48       19.225         11,700.0       8,575.0       10,697.3       7,570.5       80.4       79.5       0.06       -802.1       2,607.2       1,005.6       950.2       55.42       18.145         11,800.0       8,575.0       10,802.7       7,573.9       84.9       84.2       0.06       -801.9       2,807.2       1,002.2       943.8       58.46       17.145         12,000.0       8,575.0       10,902.7       7,573.9       84.9       84.2       0.06       -801.9       2,807.2 </td <td></td> <td></td>		
11,400.0 8,575.0 10,397.3 7,565.5 73.7 72.7 0.06 -802.5 2,307.3 1,010.6 959.7 50.96 19.832 11,500.0 8,575.0 10,502.7 7,567.2 75.9 75.1 0.06 -802.4 2,407.3 1,008.9 956.5 52.48 19.225 11,600.0 8,575.0 10,602.7 7,568.8 78.2 77.3 0.06 -802.2 2,507.2 1,007.3 953.3 53.97 18.664 11,700.0 8,575.0 10,697.3 7,570.5 80.4 79.5 0.06 -802.1 2,607.2 1,005.6 950.2 55.42 18.145 11,800.0 8,575.0 10,802.7 7,572.2 82.7 81.9 0.06 -802.0 2,707.2 1,003.9 946.9 56.96 17.626 11,900.0 8,575.0 10,902.7 7,573.9 84.9 84.2 0.06 -802.0 2,707.2 1,003.9 946.9 56.96 17.626 11,900.0 8,575.0 10,902.7 7,573.9 84.9 84.2 0.06 -801.9 2,807.2 1,002.2 943.8 58.46 17.145 12,000.0 8,575.0 11,102.8 7,577.3 89.5 88.8 0.06 -801.7 2,907.1 1,000.5 940.6 59.92 16.699 12,100.0 8,575.0 11,102.8 7,577.3 89.5 88.8 0.06 -801.6 3,007.1 998.8 937.4 61.46 16.251 12,200.0 8,575.0 11,197.2 7,579.0 91.8 91.0 0.06 -801.5 3,107.1 997.2 934.2 62.93 15.845 12,300.0 8,575.0 11,302.8 7,580.6 94.1 93.5 0.06 -801.4 3,207.0 995.5 931.0 64.49 15.437 12,400.0 8,575.0 11,402.8 7,582.3 96.4 95.8 0.06 -801.2 3,307.0 993.8 927.8 66.00 15.057 12,500.0 8,575.0 11,402.8 7,582.3 96.4 95.8 0.06 -801.2 3,307.0 993.8 927.8 66.00 15.057 12,500.0 8,575.0 11,402.8 7,582.3 96.4 95.8 0.06 -801.2 3,307.0 993.8 927.8 66.00 15.057 12,500.0 8,575.0 11,402.8 7,582.3 96.4 95.8 0.06 -801.2 3,307.0 993.8 927.8 66.00 15.057 12,500.0 8,575.0 11,402.8 7,582.3 96.4 95.8 0.06 -801.2 3,307.0 993.8 927.8 66.00 15.057 12,500.0 8,575.0 11,402.8 7,582.3 96.4 95.8 0.06 -801.2 3,307.0 993.8 927.8 66.00 15.057 12,500.0 8,575.0 11,402.8 7,582.3 96.4 95.8 0.06 -801.0 3,507.0 990.4 921.4 69.04 14.346 12,700.0 8,575.0 11,602.8 7,587.4 101.0 100.5 0.05 -801.0 3,507.0 990.4 921.4 69.04 14.346 12,700.0 8,575.0 11,702.8 7,587.4 103.4 102.9 0.05 -800.9 3,606.9 988.7 918.2 70.56 14.013		
11,500.0       8,575.0       10,502.7       7,567.2       75.9       75.1       0.06       -802.4       2,407.3       1,008.9       956.5       52.48       19.225         11,600.0       8,575.0       10,602.7       7,568.8       78.2       77.3       0.06       -802.2       2,507.2       1,007.3       953.3       53.97       18.664         11,700.0       8,575.0       10,697.3       7,570.5       80.4       79.5       0.06       -802.1       2,607.2       1,005.6       950.2       55.42       18.145         11,800.0       8,575.0       10,802.7       7,572.2       82.7       81.9       0.06       -802.0       2,707.2       1,003.9       946.9       56.96       17.626         11,900.0       8,575.0       10,902.7       7,573.9       84.9       84.2       0.06       -801.9       2,807.2       1,002.2       943.8       58.46       17.145         12,000.0       8,575.0       10,997.3       7,575.6       87.2       86.4       0.06       -801.7       2,907.1       1,000.5       940.6       59.92       16.699         12,100.0       8,575.0       11,102.8       7,577.3       89.5       88.8       0.06       -801.6       3,007.1 </td <td></td> <td></td>		
11,600.0       8,575.0       10,602.7       7,568.8       78.2       77.3       0.06       -802.2       2,507.2       1,007.3       953.3       53.97       18.664         11,700.0       8,575.0       10,697.3       7,570.5       80.4       79.5       0.06       -802.1       2,607.2       1,005.6       950.2       55.42       18.145         11,800.0       8,575.0       10,802.7       7,572.2       82.7       81.9       0.06       -802.0       2,707.2       1,003.9       946.9       56.96       17.626         11,900.0       8,575.0       10,902.7       7,573.9       84.9       84.2       0.06       -801.9       2,807.2       1,002.2       943.8       58.46       17.145         12,000.0       8,575.0       10,997.3       7,575.6       87.2       86.4       0.06       -801.7       2,907.1       1,000.5       940.6       59.92       16,699         12,100.0       8,575.0       11,102.8       7,577.3       89.5       88.8       0.06       -801.6       3,007.1       998.8       937.4       61.46       16,251         12,200.0       8,575.0       11,197.2       7,579.0       91.8       91.0       0.06       -801.5       3,107.1 <td></td> <td></td>		
11,700.0       8,575.0       10,697.3       7,570.5       80.4       79.5       0.06       -802.1       2,607.2       1,005.6       950.2       55.42       18.145         11,800.0       8,575.0       10,802.7       7,572.2       82.7       81.9       0.06       -802.0       2,707.2       1,003.9       946.9       56.96       17.626         11,900.0       8,575.0       10,902.7       7,573.9       84.9       84.2       0.06       -801.9       2,807.2       1,002.2       943.8       58.46       17.145         12,000.0       8,575.0       10,997.3       7,575.6       87.2       86.4       0.06       -801.7       2,907.1       1,000.5       940.6       59.92       16.699         12,100.0       8,575.0       11,102.8       7,577.3       89.5       88.8       0.06       -801.6       3,007.1       998.8       937.4       61.46       16.251         12,200.0       8,575.0       11,197.2       7,579.0       91.8       91.0       0.06       -801.5       3,107.1       997.2       934.2       62.93       15.845         12,300.0       8,575.0       11,302.8       7,580.6       94.1       93.5       0.06       -801.4       3,207.0		
11,800.0       8,575.0       10,802.7       7,572.2       82.7       81.9       0.06       -802.0       2,707.2       1,003.9       946.9       56.96       17.626         11,900.0       8,575.0       10,902.7       7,573.9       84.9       84.2       0.06       -801.9       2,807.2       1,002.2       943.8       58.46       17.145         12,000.0       8,575.0       10,997.3       7,575.6       87.2       86.4       0.06       -801.7       2,907.1       1,000.5       940.6       59.92       16.699         12,100.0       8,575.0       11,102.8       7,577.3       89.5       88.8       0.06       -801.6       3,007.1       998.8       937.4       61.46       16.251         12,200.0       8,575.0       11,197.2       7,579.0       91.8       91.0       0.06       -801.5       3,107.1       997.2       934.2       62.93       15.845         12,300.0       8,575.0       11,302.8       7,580.6       94.1       93.5       0.06       -801.4       3,207.0       995.5       931.0       64.49       15.437         12,400.0       8,575.0       11,497.2       7,584.0       98.7       98.0       0.05       -801.2       3,307.0		
11,900.0 8,575.0 10,902.7 7,573.9 84.9 84.2 0.06 -801.9 2,807.2 1,002.2 943.8 58.46 17.145 12,000.0 8,575.0 10,997.3 7,575.6 87.2 86.4 0.06 -801.7 2,907.1 1,000.5 940.6 59.92 16.699 12,100.0 8,575.0 11,102.8 7,577.3 89.5 88.8 0.06 -801.6 3,007.1 998.8 937.4 61.46 16.251 12,200.0 8,575.0 11,197.2 7,579.0 91.8 91.0 0.06 -801.5 3,107.1 997.2 934.2 62.93 15.845 12,300.0 8,575.0 11,302.8 7,580.6 94.1 93.5 0.06 -801.4 3,207.0 995.5 931.0 64.49 15.437  12,400.0 8,575.0 11,402.8 7,582.3 96.4 95.8 0.06 -801.2 3,307.0 993.8 927.8 66.00 15.057 12,500.0 8,575.0 11,402.8 7,584.0 98.7 98.0 0.05 -801.1 3,407.0 992.1 924.6 67.48 14.703 12,600.0 8,575.0 11,602.8 7,585.7 101.0 100.5 0.05 -801.0 3,507.0 990.4 921.4 69.04 14.346 12,700.0 8,575.0 11,702.8 7,587.4 103.4 102.9 0.05 -800.9 3,606.9 988.7 918.2 70.56 14.013		
12,000.0       8,575.0       10,997.3       7,575.6       87.2       86.4       0.06       -801.7       2,907.1       1,000.5       940.6       59.92       16.699         12,100.0       8,575.0       11,102.8       7,577.3       89.5       88.8       0.06       -801.6       3,007.1       998.8       937.4       61.46       16.251         12,200.0       8,575.0       11,197.2       7,579.0       91.8       91.0       0.06       -801.5       3,107.1       997.2       934.2       62.93       15.845         12,300.0       8,575.0       11,302.8       7,580.6       94.1       93.5       0.06       -801.4       3,207.0       995.5       931.0       64.49       15.437         12,400.0       8,575.0       11,402.8       7,582.3       96.4       95.8       0.06       -801.2       3,307.0       993.8       927.8       66.00       15.057         12,500.0       8,575.0       11,497.2       7,584.0       98.7       98.0       0.05       -801.1       3,407.0       992.1       924.6       67.48       14.703         12,600.0       8,575.0       11,602.8       7,585.7       101.0       100.5       0.05       -801.0       3,507.0		
12,100.0       8,575.0       11,102.8       7,577.3       89.5       88.8       0.06       -801.6       3,007.1       998.8       937.4       61.46       16.251         12,200.0       8,575.0       11,197.2       7,579.0       91.8       91.0       0.06       -801.5       3,107.1       997.2       934.2       62.93       15.845         12,300.0       8,575.0       11,302.8       7,580.6       94.1       93.5       0.06       -801.4       3,207.0       995.5       931.0       64.49       15.437         12,400.0       8,575.0       11,402.8       7,582.3       96.4       95.8       0.06       -801.2       3,307.0       993.8       927.8       66.00       15.057         12,500.0       8,575.0       11,497.2       7,584.0       98.7       98.0       0.05       -801.1       3,407.0       992.1       924.6       67.48       14.703         12,600.0       8,575.0       11,602.8       7,585.7       101.0       100.5       0.05       -801.0       3,507.0       990.4       921.4       69.04       14.346         12,700.0       8,575.0       11,702.8       7,587.4       103.4       102.9       0.05       -800.9       3,606.9		
12,200.0       8,575.0       11,197.2       7,579.0       91.8       91.0       0.06       -801.5       3,107.1       997.2       934.2       62.93       15.845         12,300.0       8,575.0       11,302.8       7,580.6       94.1       93.5       0.06       -801.4       3,207.0       995.5       931.0       64.49       15.437         12,400.0       8,575.0       11,402.8       7,582.3       96.4       95.8       0.06       -801.2       3,307.0       993.8       927.8       66.00       15.057         12,500.0       8,575.0       11,497.2       7,584.0       98.7       98.0       0.05       -801.1       3,407.0       992.1       924.6       67.48       14.703         12,600.0       8,575.0       11,602.8       7,585.7       101.0       100.5       0.05       -801.0       3,507.0       990.4       921.4       69.04       14.346         12,700.0       8,575.0       11,702.8       7,587.4       103.4       102.9       0.05       -800.9       3,606.9       98.7       918.2       70.56       14.013		
12,300.0     8,575.0     11,302.8     7,580.6     94.1     93.5     0.06     -801.4     3,207.0     995.5     931.0     64.49     15.437       12,400.0     8,575.0     11,402.8     7,582.3     96.4     95.8     0.06     -801.2     3,307.0     993.8     927.8     66.00     15.057       12,500.0     8,575.0     11,497.2     7,584.0     98.7     98.0     0.05     -801.1     3,407.0     992.1     924.6     67.48     14.703       12,600.0     8,575.0     11,602.8     7,585.7     101.0     100.5     0.05     -801.0     3,507.0     990.4     921.4     69.04     14.346       12,700.0     8,575.0     11,702.8     7,587.4     103.4     102.9     0.05     -800.9     3,606.9     988.7     918.2     70.56     14.013		
12,400.0     8,575.0     11,402.8     7,582.3     96.4     95.8     0.06     -801.2     3,307.0     993.8     927.8     66.00     15.057       12,500.0     8,575.0     11,497.2     7,584.0     98.7     98.0     0.05     -801.1     3,407.0     992.1     924.6     67.48     14.703       12,600.0     8,575.0     11,602.8     7,585.7     101.0     100.5     0.05     -801.0     3,507.0     990.4     921.4     69.04     14.346       12,700.0     8,575.0     11,702.8     7,587.4     103.4     102.9     0.05     -800.9     3,606.9     988.7     918.2     70.56     14.013		
12,500.0     8,575.0     11,497.2     7,584.0     98.7     98.0     0.05     -801.1     3,407.0     992.1     924.6     67.48     14.703       12,600.0     8,575.0     11,602.8     7,585.7     101.0     100.5     0.05     -801.0     3,507.0     990.4     921.4     69.04     14.346       12,700.0     8,575.0     11,702.8     7,587.4     103.4     102.9     0.05     -800.9     3,606.9     988.7     918.2     70.56     14.013		
12,600.0 8,575.0 11,602.8 7,585.7 101.0 100.5 0.05 -801.0 3,507.0 990.4 921.4 69.04 14.346 12,700.0 8,575.0 11,702.8 7,587.4 103.4 102.9 0.05 -800.9 3,606.9 988.7 918.2 70.56 14.013		
12,700.0 8,575.0 11,702.8 7,587.4 103.4 102.9 0.05 -800.9 3,606.9 988.7 918.2 70.56 14.013		
12,800.0 8,575.0 11,797.1 7,589.1 105.7 105.1 0.05 -800.7 3,706.9 987.1 915.0 72.04 13.701		
12,900.0 8,575.0 11,902.9 7,590.7 108.0 107.6 0.05 -800.6 3,806.9 985.4 911.8 73.61 13.386		
13,000.0 8,575.0 11,997.1 7,592.4 110.4 109.8 0.05 -800.5 3,906.8 983.7 908.6 75.09 13.099		
13,100.0 8,575.0 12,102.9 7,594.1 112.7 112.3 0.05 -800.3 4,006.8 982.0 905.3 76.67 12.808		
13,200.0 8,575.0 12,202.9 7,595.8 115.1 114.7 0.05 -800.2 4,106.8 980.3 902.1 78.20 12.536		
13,300.0 8,575.0 12,302.9 7,597.5 117.5 117.1 0.05 -800.1 4,206.8 978.6 898.9 79.73 12.274		
13,400.0 8,575.0 12,402.9 7,599.2 119.8 119.4 0.05 -800.0 4,306.7 977.0 895.7 81.27 12.022		
13,500.0 8,575.0 12,503.0 7,600.8 122.2 121.8 0.05 -799.8 4,406.7 975.3 892.5 82.80 11.778		
13,600.0 8,575.0 12,597.0 7,602.5 124.6 124.1 0.05 -799.7 4,506.7 973.6 889.3 84.29 11.550		
13,700.0 8,575.0 12,703.0 7,604.2 126.9 126.6 0.05 -799.6 4,606.6 971.9 886.0 85.88 11.318		
13,800.0 8,575.0 12,803.0 7,605.9 129.3 129.0 0.05 -799.5 4,706.6 970.2 882.8 87.41 11.099		
13,900.0 8,575.0 12,903.0 7,607.6 131.7 131.4 0.05 -799.3 4,806.6 968.5 879.6 88.95 10.888		

Company: Matador Production Company

Project: Ranger/Arrowhead

Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fed	d Com #116H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 usft
Survey Prog				Cami Maia	. Auda				Diet				Offset Well Error:	0.0 usft
Refer Measured	ence Vertical	Offse Measured	t Vertical	Semi Major Reference	Offset	Highside	Offset Wellbor	e Centre	Dista Between	ance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	warming	
14,000.0	8,575.0	13,003.0	7,609.3	134.1	133.8	0.05	-799.2	4,906.6	966.9	876.4	90.49	10.684		
14,100.0	8,575.0	13,097.0	7,610.9	136.4	136.0	0.05	-799.1	5,006.5	965.2		91.99	10.492		
14,200.0	8,575.0	13,203.1	7,612.6	138.8	138.6	0.05	-799.0	5,106.5	963.5		93.58	10.296		
14,300.0	8,575.0	13,303.1	7,614.3	141.2	141.0	0.05	-798.8	5,206.5	961.8	866.7	95.12	10.111		
14,400.0	8,575.0	13,403.1	7,616.0	143.6	143.4	0.04	-798.7	5,306.4	960.1	863.4	96.67	9.932		
14,500.0	8,575.0	13,503.1	7,617.7	146.0	145.8	0.04	-798.6	5,406.4	958.4	860.2	98.21	9.759		
14,600.0 14,700.0	8,575.0 8,575.0	13,596.9 13,703.1	7,619.4	148.4	148.0 150.6	0.04 0.04	-798.5 -798.3	5,506.4 5,606.4	956.7 955.1	857.0 853.8	99.71	9.595 9.428		
14,700.0	8,575.0	13,803.1	7,621.0 7,622.7	150.8 153.2	153.0	0.04	-796.3 -798.2	5,706.3	953.4	850.5	101.31 102.85	9.428		
14,900.0	8,575.0	13,896.8	7,624.4	155.2	155.3	0.04	-798.1	5,806.3	951.7	847.3	104.35	9.120		
15,000.0	8,575.0	14,003.2	7,626.1	158.0	157.8	0.04	-798.0	5,906.3	950.0	844.1	105.95	8.967		
15,100.0	8,575.0	14,103.2	7,627.8	160.4	160.2	0.04	-797.8	6,006.2	948.3	840.8	107.50	8.822		
15,200.0	8,575.0	14,196.8	7,629.5	162.8	162.5	0.04	-797.7	6,106.2	946.6	837.6	109.00	8.685		
15,300.0	8,575.0	14,303.2	7,631.2	165.2	165.1	0.04	-797.6	6,206.2	945.0	834.4	110.60	8.544		
15,400.0	8,575.0	14,396.8	7,632.8	167.6	167.3	0.04	-797.5	6,306.2	943.3		112.10	8.415		
15,500.0	8,575.0	14,496.8	7,634.5	170.0	169.8	0.04	-797.3	6,406.1	941.6		113.65	8.285		
15,600.0	8,575.0	14,603.2	7,636.2	172.5	172.3	0.04	-797.2	6,506.1	939.9	824.7	115.25	8.155		
15,700.0	8,575.0	14,696.7	7,637.9	174.9	174.6	0.04	-797.1	6,606.1	938.2	821.5	116.75	8.036		
15,800.0	8,575.0	14,803.3	7,639.6	177.3	177.2	0.04	-797.0	6,706.1	936.5	818.2	118.36	7.913		
15,900.0	8,575.0	14,903.3	7,641.3	179.7	179.6	0.04	-796.8	6,806.0	934.9	814.9	119.91	7.796		
16,000.0	8,575.0	14,996.7	7,642.9	182.1	181.9	0.04	-796.7	6,906.0	933.2	811.8	121.41	7.686		
16,100.0	8,575.0	15,103.3	7,644.6	184.5	184.4	0.03	-796.6	7,006.0	931.5	808.5	123.02	7.572		
16,200.0	8,575.0	15,196.7	7,646.3	187.0	186.7	0.03	-796.5	7,105.9	929.8	805.3	124.52	7.467		
16,300.0	8,575.0	15,303.3	7,648.0	189.4	189.3	0.03	-796.3	7,205.9	928.1	802.0	126.13	7.359		
16,400.0	8,575.0	15,403.4	7,649.7	191.8	191.7	0.03	-796.2	7,305.9	926.4	798.8	127.68	7.256		
16,500.0	8,575.0	15,496.6	7,651.4	194.2	194.0	0.03	-796.1	7,405.9	924.8	795.6	129.19	7.158		
16,600.0	8,575.0	15,596.6	7,653.0	196.6	196.4	0.03	-796.0	7,505.8	923.1	792.3	130.74	7.060		
16,700.0	8,575.0	15,703.4	7,654.7	199.1	199.0	0.03	-795.8	7,605.8	921.4	789.0	132.35	6.962		
16,800.0	8,575.0	15,796.6	7,656.4	201.5	201.3	0.03	-795.7	7,705.8	919.7	785.8	133.85	6.871		
16,900.0 17,000.0	8,575.0 8,575.0	15,903.4 15,996.6	7,658.1 7,659.8	203.9 206.3	203.9 206.1	0.03 0.03	-795.6 -795.4	7,805.7 7,905.7	918.0 916.3	782.6 779.4	135.47 136.97	6.777 6.690		
17,100.0	8,575.0	16,103.5	7,661.5	208.8	208.7	0.03	-795.3	8,005.7	914.7	776.1	138.58	6.600		
17,200.0	8,575.0	16,203.5	7,663.1	211.2	211.2	0.03	-795.2	8,105.7	913.0	772.8	140.14	6.515		
17,300.0	8,575.0	16,296.5	7,664.8	213.6	213.4	0.03	-795.1	8,205.6	911.3		141.64	6.434		
17,400.0	8,575.0	16,403.5	7,666.5	216.0	216.0	0.03	-794.9	8,305.6	909.6	766.3	143.25	6.350		
17,500.0	8,575.0	16,503.5	7,668.2	218.5	218.5	0.03	-794.8	8,405.6	907.9	763.1	144.81	6.270		
17,600.0	8,575.0	16,603.5	7,669.9	220.9	220.9	0.03	-794.7	8,505.5	906.2	759.9	146.37	6.191		
17,700.0	8,575.0	16,703.5	7,671.6	223.3	223.3	0.03	-794.6	8,605.5	904.5	756.6	147.93	6.115		
17,800.0	8,575.0	16,803.6	7,673.3	225.8	225.8	0.02	-794.4	8,705.5	902.9	753.4	149.49	6.040		
17,900.0	8,575.0	16,896.4	7,674.9	228.2	228.0	0.02	-794.3	8,805.5	901.2		150.99	5.968		
18,000.0	8,575.0	17,003.6	7,676.6	230.6	230.6	0.02	-794.2	8,905.4	899.5	746.9	152.61	5.894		
18,100.0	8,575.0	17,103.6	7,678.3	233.0	233.1	0.02	-794.1	9,005.4	897.8	743.6	154.17	5.824		
18,200.0	8,575.0	17,196.4	7,680.0	235.5	235.3	0.02	-793.9	9,105.4	896.1	740.5	155.67	5.757		
18,300.0	8,575.0	17,303.6	7,681.7	237.9	237.9	0.02	-793.8	9,205.3	894.4	737.2	157.29	5.687		
18,400.0	8,575.0	17,403.6	7,683.4	240.3	240.4	0.02	-793.7	9,305.3	892.8	733.9	158.85	5.620		
18,500.0	8,575.0	17,496.3	7,685.0	242.8	242.6	0.02	-793.6	9,405.3	891.1	730.7	160.35	5.557		
18,600.0	8,575.0	17,603.7	7,686.7	245.2	245.3	0.02	-793.4	9,505.3	889.4	727.4	161.97	5.491		
18,700.0	8,575.0	17,703.7	7,688.4	247.6	247.7	0.02	-793.3	9,605.2	887.7	724.2	163.53	5.428		
18,800.0	8,575.0	17,803.7	7,690.1	250.1	250.1	0.02	-793.2	9,705.2	886.0		165.09	5.367		
18,900.0 19,000.0	8,575.0 8,575.0	17,903.7 17,996.3	7,691.8 7,693.5	252.5 255.0	252.6 254.8	0.02 0.02	-793.1 -792.9	9,805.2 9,905.1	884.3 882.7	717.7 714.5	166.65 168.15	5.307 5.249		
19,100.0		18,103.7	7,695.1	257.4	257.5	0.02	-792.8		881.0			5.189		
19,100.0	8,575.0	10,103.7	7,095.1	257.4	257.5	0.02	-/92.8	10,005.1	881.0	/11.2	169.77	5.189		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

Offset De	sign	Simon C	Camamile	Fed Com -	Simon C	amamile Fe	d Com #116H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 us
Survey Prog	ram: 0-M\	WD											Offset Well Error:	0.0 us
Refer	ence	Offse	t	Semi Major	Axis				Dista	ince				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,200.0	8.575.0	18,203.8	7,696.8	259.8	259.9	0.02	-792.7	10.105.1	879.3	708.0	171.33	5.132		
19,300.0	8.575.0	18,296.2	7,698.5	262.3	262.1	0.01	-792.6	10,205.1	877.6	704.8	172.84	5.078		
19,400.0	8,575.0	18,403.8	7,700.2	264.7	264.8	0.01	-792.4	10,305.0	875.9	701.5	174.46	5.021		
19,500.0	8,575.0	18,503.8	7,701.9	267.1	267.2	0.01	-792.3	10,405.0	874.2	698.2	176.02	4.967		
19,600.0	8,575.0	18,596.2	7,703.6	269.6	269.5	0.01	-792.2	10,505.0	872.6	695.0	177.52	4.915		
19,700.0	8,575.0	18,703.8	7,705.2	272.0	272.1	0.01	-792.1	10,604.9	870.9	691.7	179.14	4.861		
19,800.0	8,575.0	18,796.2	7,706.9	274.5	274.4	0.01	-791.9	10,704.9	869.2	688.5	180.65	4.812		
19,900.0	8,575.0	18,896.1	7,708.6	276.9	276.8	0.01	-791.8	10,804.9	867.5	685.3	182.21	4.761		
20,000.0	8,575.0	19,003.9	7,710.3	279.3	279.4	0.01	-791.7	10,904.9	865.8	682.0	183.83	4.710		
20,100.0	8,575.0	19,103.9	7,712.0	281.8	281.9	0.01	-791.6	11,004.8	864.1	678.7	185.39	4.661		
20,200.0	8,575.0	19,196.1	7,713.7	284.2	284.1	0.01	-791.4	11,104.8	862.5	675.6	186.90	4.615		
20,300.0	8,575.0	19,303.9	7,715.4	286.6	286.8	0.01	-791.3	11,204.8	860.8	672.2	188.52	4.566		
20,400.0	8,575.0	19,403.9	7,717.0	289.1	289.2	0.01	-791.2	11,304.7	859.1	669.0	190.08	4.520		
20,500.0	8,575.0	19,496.1	7,718.7	291.5	291.4	0.01	-791.1	11,404.7	857.4	665.8	191.59	4.475		
20,600.0	8,575.0	19,604.0	7,720.4	294.0	294.1	0.01	-790.9	11,504.7	855.7	662.5	193.21	4.429		
20,700.0	8,575.0	19,704.0	7,722.1	296.4	296.5	0.01	-790.8	11,604.7	854.0	659.3	194.77	4.385		
20,800.0	8,575.0	19,796.0	7,723.8	298.9	298.8	0.00	-790.7	11,704.6	852.3	656.1	196.27	4.343		
20,900.0	8,575.0	19,896.0	7,725.5	301.3	301.2	0.00	-790.6	11,804.6	850.7	652.8	197.84	4.300		
21,000.0	8,575.0	20,004.0	7,727.1	303.7	303.9	0.00	-790.4	11,904.6	849.0	649.5	199.46	4.256		
21,100.0	8,575.0	20,096.0	7,728.8	306.2	306.1	0.00	-790.3	12,004.5	847.3	646.3	200.96	4.216		
21,200.0	8,575.0	20,196.0	7,730.5	308.6	308.5	0.00	-790.2	12,104.5	845.6	643.1	202.53	4.175		
21,213.6	8,575.0	20,196.6	7,730.5	309.0	308.6	0.00	-790.2	12,105.2	845.5	642.7	202.79	4.169		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Well Simon Camamile Fed Com #126H

Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #125H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Prog													Offset Well Error:	0.0 usft
Refer		Offse		Semi Major		Himbaida	Offset Wellbor		Dista		Minimo	Camanatian		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	1.0	-1.0	0.0	0.0	-0.20	29.9	-0.1	29.9					
100.0	100.0	101.0	99.0	0.1	0.1	-0.20	29.9	-0.1	29.9	29.6	0.26	114.930		
200.0	200.0	201.0	199.0	0.5	0.5	-0.20	29.9	-0.1	29.9	28.9	0.98	30.578		
300.0	300.0	301.0	299.0	0.8	0.8	-0.20	29.9	-0.1	29.9	28.2	1.69	17.635		
400.0	400.0	401.0	399.0	1.2	1.2	-0.20	29.9	-0.1	29.9	27.5	2.41	12.390		
500.0	500.0	501.0	499.0	1.6	1.6	-0.20	29.9	-0.1	29.9	26.7	3.13	9.550		
600.0	600.0	601.0	599.0	1.9	1.9	-0.20	29.9	-0.1	29.9	26.0	3.84	7.769		
700.0	700.0	701.0	699.0	2.3	2.3	-0.20	29.9	-0.1	29.9	25.3	4.56	6.548		
800.0	800.0	801.0	799.0	2.6	2.6	-0.20	29.9	-0.1	29.9	24.6	5.28	5.659		
900.0	900.0	901.0	899.0	3.0	3.0	-0.20	29.9	-0.1	29.9	23.9	6.00	4.982	20.50	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	-0.20	29.9	-0.1	29.9	23.2	6.71	4.450	JC, ES	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	141.56	29.9	-0.1	31.5		7.41	4.255		
1,200.0	1,199.7	1,201.3	1,198.7	4.0	4.1	147.81	29.9	-0.1	36.9		8.11	4.551		
1,300.0	1,299.1	1,301.9	1,298.1	4.4	4.4	154.87	29.9	-0.1	46.5		8.81	5.276		
1,372.0	1,370.4	1,369.4	1,369.4	4.6	4.7	159.33	29.9	-0.1	56.2		9.30	6.042		
1,400.0	1,398.0	1,403.0	1,397.0	4.7	4.8	160.85	29.9	-0.1	60.5	50.9	9.52	6.351		
1,500.0	1,496.7	1,495.7	1,495.7	5.1	5.1	164.85	29.9	-0.1	75.9	65.7	10.19	7.449		
1,600.0	1,595.4	1,594.0	1,594.0	5.5	5.5	166.51	30.7	-1.4	91.8	80.9	10.89	8.433		
1,700.0	1,694.1	1,692.3	1,692.1	5.9	5.8	165.88	33.5	-5.4	108.1	96.5	11.58	9.335		
1,800.0	1,792.7	1,790.2	1,789.7	6.3	6.2	163.87	38.1	-12.2	124.9	112.7	12.28	10.172		
1,900.0	1,891.4	1,887.5	1,886.4	6.7	6.5	161.02	44.6	-21.7	142.6	129.6	12.99	10.973		
2,000.0	1,990.1	1,984.1	1,981.8	7.1	6.9	157.66	52.9	-33.8	161.3	147.6	13.71	11.769		
2,100.0	2,088.8	2,081.4	2,077.6	7.5	7.3	154.33	62.3	-47.7	181.2	166.7	14.44	12.547		
2,200.0	2,187.5	2,178.9	2,173.6	7.9	7.6	151.64	71.9	-61.7	201.6	186.4	15.19	13.271		
2,300.0	2,286.2	2,276.4	2,269.7	8.3	8.0	149.44	81.4	-75.7	222.3	206.3	15.94	13.941		
2,400.0	2,384.9	2,373.9	2,365.7	8.8	8.4	147.62	91.0	-89.7	243.3	226.5	16.71	14.560		
2,500.0	2,483.5	2,471.4	2,461.7	9.2	8.8	146.08	100.5	-103.7	264.4	247.0	17.47	15.132		
2,600.0	2,582.2	2,568.9	2,557.7	9.6	9.2	144.78	110.0	-117.7	285.8	267.5	18.25	15.660		
2,700.0	2,680.9	2,666.4	2,653.8	10.1	9.6	143.65	119.6	-131.7	307.2	288.2	19.03	16.147		
2,800.0	2,779.6	2,763.9	2,749.8	10.5	10.0	142.68	129.1	-145.7	328.8	309.0	19.81	16.598		
2,900.0	2,878.3	2,861.4	2,845.8	10.9	10.4	141.82	138.6	-159.7	350.4	329.8	20.59	17.016		
3,000.0	2,977.0	2,958.9	2,941.8	11.3	10.8	141.06	148.2	-173.7	372.1	350.7	21.38	17.404		
3,100.0	3,075.7	3,056.4	3,037.9	11.8	11.2	140.39	157.7	-187.6	393.9	371.7	22.17	17.765		
3,200.0	3,174.3	3,153.9	3,133.9	12.2	11.7	139.78	167.3	-201.6	415.7	392.7	22.96	18.102		
3,300.0	3,273.0	3,251.5	3,229.9	12.6	12.1	139.24	176.8	-215.6	437.5	413.7	23.76	18.416		
3,400.0	3,371.7	3,349.0	3,325.9	13.1	12.5	138.75	186.3	-229.6	459.4	434.8	24.55	18.710		
3,500.0	3,470.4	3,446.5	3,422.0	13.5	12.9	138.30	195.9	-243.6	481.3	455.9	25.35	18.985		
3,600.0	3,569.1	3,544.0	3,518.0	14.0	13.3	137.89	205.4	-257.6	503.2	477.1	26.15	19.244		
3,700.0	3,667.8	3,641.5	3,614.0	14.4	13.8	137.52	214.9	-271.6	525.2		26.95	19.487		
3,800.0	3,766.5	3,739.0	3,710.0	14.8	14.2	137.17	224.5	-285.6	547.1	519.4	27.75	19.716		
3,900.0	3,865.1	3,836.5	3,806.0	15.3	14.6	136.85	234.0	-299.6	569.1	540.6	28.55	19.932		
4,000.0	3,963.8	3,934.0	3,902.1	15.7	15.0	136.56	243.5	-313.6	591.1	561.8	29.36	20.136		
4,100.0	4,062.5	4,031.5	3,998.1	16.1	15.5	136.29	253.1	-327.6	613.2	583.0	30.16	20.329		
4,200.0	4,161.2	4,129.0	4,094.1	16.6	15.9	136.03	262.6	-341.5	635.2	604.2	30.97	20.511		
4,300.0	4,259.9	4,226.5	4,190.1	17.0	16.3	135.79	272.2	-355.5	657.2		31.77	20.685		
4,400.0	4,358.6	4,324.0	4,286.2	17.5	16.8	135.57	281.7	-369.5	679.3	646.7	32.58	20.849		
4,500.0	4,457.3	4,421.5	4,382.2	17.9	17.2	135.37	291.2	-383.5	701.3		33.39	21.006		
4,600.0	4,555.9	4,519.0	4,478.2	18.3	17.6	135.17	300.8	-397.5	723.4		34.20	21.155		
4,700.0	4,654.6	4,616.5	4,574.2	18.8	18.1	134.99	310.3	-411.5	745.5		35.01	21.297		
4,800.0	4,753.3	4,714.0	4,670.3	19.2	18.5	134.81	319.8	-425.5	767.6		35.81	21.432		
4,900.0	4,852.0	4,811.5	4,766.3	19.7	18.9	134.65	329.4	-439.5	789.7	753.0	36.62	21.561		
5,000.0	4,950.7	4,909.0	4,862.3	20.1	19.3	134.50	338.9	-453.5	811.8	774.3	37.43	21.685		

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft

KB @ 3377.5usft

#### Anticollision Report

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #125H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Prog													Offset Well Error:	0.0 usft
Refer Measured	ence Vertical	Offse Measured	t Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	o Contro	Dista Between	ance Between	Minimum	Separation		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
5,100.0	5,049.4	5,006.6	4,958.3	20.6	19.8	134.35	348.5	-467.5	833.9	795.6	38.25	21.803		
5,200.0	5,148.1	5,104.1	5,054.4	21.0	20.2	134.21	358.0	-481.4	856.0	816.9	39.06	21.916		
5,300.0	5,246.7	5,201.6	5,150.4	21.4	20.6	134.08	367.5	-495.4	878.1	838.2	39.87	22.025		
5,400.0	5,345.4	5,299.1	5,246.4	21.9	21.1	133.95	377.1	-509.4	900.2	859.5	40.68	22.129		
5,500.0	5,444.1	5,403.4	5,342.4	22.3	21.5	133.83	386.6	-523.4	922.3	880.8	41.52	22.213		
5,600.0	5,542.8	5,505.9	5,438.5	22.8	22.0	133.72	396.1	-537.4	944.4	902.1	42.35	22.298		
5,700.0	5,641.5	5,608.4	5,534.5	23.2	22.5	133.61	405.7	-551.4	966.6	923.4	43.19	22.380		
5,800.0	5,740.2	5,689.1	5,630.5	23.7	22.8	133.51	415.2	-565.4	988.7	944.8	43.93	22.506		
5,900.0 6,000.0	5,838.9 5,937.5	5,786.6 5,884.1	5,726.5 5,822.6	24.1 24.5	23.3 23.7	133.41 133.31	424.7 434.3	-579.4 -593.4	1,010.8 1,033.0	966.1 987.4	44.74 45.56	22.591 22.674		
6,100.0	6,036.2	5,981.6	5,918.6	25.0	24.1	133.22	443.8	-607.4	1,055.1	1,008.7	46.37	22.753		
6,200.0	6,134.9	6,079.1	6,014.6	25.4	24.6	133.14	453.4	-621.3	1,077.2	1,030.1	47.19	22.830		
6,300.0	6,233.6	6,176.6	6,110.6	25.9	25.0	133.05	462.9	-635.3	1,099.4	1,051.4	48.00	22.903		
6,400.0	6,332.3	6,274.1	6,206.7	26.3	25.4	132.97	402.9	-649.3	1,121.5	1,051.4	48.82	22.903		
6,500.0	6,431.0	6,371.6	6,302.7	26.8	25.9	132.90	482.0	-663.3	1,143.7	1,094.0	49.63	23.044		
6,600.0	6,529.6	6,469.1	6,398.7	27.2	26.3	132.82	491.5	-677.3	1,165.8	1,115.4	50.45	23.110		
6,700.0	6,628.3	6,600.9	6,528.8	27.6	26.9	132.81	503.1	-694.3	1,187.0	1,135.4	51.54	23.032		
6,800.0	6,727.0	6,748.7	6,675.9	28.1	27.5	133.13	511.2	-706.2	1,204.3	1,151.7	52.63	22.881		
6,900.0	6,825.7	6,897.4	6,824.5	28.5	28.0	133.78	513.9	-710.2	1,217.6	1,164.0	53.60	22.717		
7,000.0	6,924.4	7,003.7	6,923.4	29.0	28.3	134.32	513.9	-710.2	1,228.9	1,174.5	54.34	22.616		
7,100.0	7,023.1	7,105.0	7,022.1	29.4	28.6	134.85	513.9	-710.2	1,240.3	1,185.2	55.06	22.526		
7,200.0	7,121.8	7,206.3	7,120.8	29.9	28.9	135.38	513.9	-710.2	1,251.8	1,196.0	55.78	22.441		
7,300.0	7,220.4	7,307.7	7,219.4	30.3	29.2	135.89	513.9	-710.2	1,263.4	1,206.9	56.50	22.360		
7,400.0	7,319.1	7,409.0	7,318.1	30.7	29.5	136.39	513.9	-710.2	1,275.2	1,217.9	57.22	22.284		
7,466.5	7,384.7	7,456.6	7,383.7	31.0	29.7	136.72	513.9	-710.2	1,283.0	1,225.4	57.64	22.259		
7,500.0	7,417.8	7,489.7	7,416.8	31.2	29.8	136.92	513.9	-710.2	1,286.9	1,229.0	57.88	22.235		
7,600.0	7,516.9	7,588.8	7,515.9	31.6	30.1	137.44	513.9	-710.2	1,297.2	1,238.6	58.58	22.144		
7,700.0	7,616.2	7,688.1	7,615.2	32.0	30.4	137.87	513.9	-710.2	1,305.6	1,246.4	59.27	22.028		
7,800.0	7,715.8	7,787.7	7,714.8	32.4	30.7	138.19	513.9	-710.2	1,312.2	1,252.2	59.96	21.886		
7,900.0 8,000.0	7,815.6 7,915.5	7,887.5 7,987.4	7,814.6 7,914.5	32.8 33.1	31.0 31.4	138.41 138.54	513.9 513.9	-710.2 -710.2	1,316.8 1,319.5	1,256.2 1,258.2	60.63 61.29	21.719 21.527		
8,086.5	8,002.0	8,073.9	8,001.0	33.3	31.6	-0.61	513.9	-710.2	1,320.2	1,258.4	61.85	21.345		
8,100.0	8,015.5	8,087.7	8,014.8	33.4	31.7	-90.41	513.9	-710.2	1,320.2	1,258.3	61.93	21.343		
8,150.0	8,065.4	8,138.8	8,065.8	33.5	31.8	-90.41	513.9	-706.7	1,320.2	1,258.0	62.21	21.222		
8,200.0	8,114.8	8,189.9	8,116.3	33.6	31.9	-90.41	514.0	-698.7	1,320.2	1,257.8	62.45	21.141		
8,250.0	8,163.3	8,241.0	8,165.8	33.7	32.0	-90.40	514.0	-686.3	1,320.2	1,257.5	62.65	21.073		
8,300.0	8,210.6	8,292.1	8,214.0	33.8	32.1	-90.40	514.0	-669.5	1,320.1	1,257.3	62.82	21.016		
8,350.0	8,256.3	8,343.1	8,260.5	33.8	32.2	-90.38	514.0	-648.6	1,320.1	1,257.1	62.96	20.968		
8,400.0	8,300.1	8,394.1	8,305.0	33.9	32.2	-90.37	514.0	-623.6	1,320.0	1,257.0	63.07	20.929		
8,450.0	8,341.6	8,445.1	8,347.0	33.9	32.3	-90.35	514.1	-594.7	1,320.0	1,256.8	63.18	20.894		
8,500.0	8,380.6	8,496.0	8,386.2	33.9	32.3	-90.33	514.1	-562.3	1,319.9	1,256.6	63.27	20.861		
8,550.0	8,416.6	8,546.9	8,422.4	33.9	32.4	-90.31	514.2	-526.6	1,319.8	1,256.4	63.37	20.826		
8,600.0	8,449.5	8,597.6	8,455.2	33.9	32.4	-90.29	514.2	-487.9	1,319.7	1,256.2	63.49	20.786		
8,650.0	8,479.0	8,648.3	8,484.4	33.9	32.4	-90.26	514.3	-446.4	1,319.6	1,256.0	63.64	20.736		
8,700.0	8,504.8	8,699.0	8,509.8	33.9	32.5	-90.23	514.3	-402.7	1,319.5	1,255.7	63.82	20.675		
8,750.0	8,526.9	8,749.5	8,531.2	33.8	32.5	-90.20	514.4	-356.9	1,319.4	1,255.4	64.06	20.597		
8,800.0	8,544.9	8,800.0	8,548.5	33.8	32.6	-90.17	514.4	-309.5	1,319.3	1,255.0	64.35	20.503		
8,850.0	8,558.8	8,850.3	8,561.5	33.8	32.8	-90.13	514.5	-260.9	1,319.2	1,254.5	64.70	20.389		
8,900.0	8,568.4	8,900.6	8,570.1	33.7	32.9	-90.10	514.6	-211.4	1,319.1	1,254.0	65.11	20.258		
8,950.0	8,573.8	8,950.8	8,574.5	33.7	33.1	-90.06	514.6	-161.4	1,319.0	1,253.4	65.59	20.111		
8,986.5	8,575.0	8,987.3	8,575.0	33.7	33.3	-90.05	514.7	-124.9	1,318.9	1,252.9	65.97	19.993		
8,992.9	8,575.0	8,993.8	8,575.1	33.8	33.3	-90.05	514.7	-118.4	1,318.9	1,252.8	66.04	19.972		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

TVD Reference:
MD Reference:

Local Co-ordinate Reference: Well Simon Camamile Fed Com #126H
TVD Reference: KB @ 3377.5usft

KB @ 3377.5usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Offset Des	sign	Simon (	Camamile	Fed Com -	Simon C	amamile Fe	d Com #125H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Progr	ram: 0-M	WD											Offset Well Error:	0.0 usft
Refere Measured	ence Vertical	Offse Measured	et Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	e Centre	Dista Between	ance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	vvarning	
8,993.2	8,575.0	8,994.0	8,575.1	33.8	33.3	-90.05	(usit) 514.7	-118.2	1,318.9	1,252.8	66.04	19.971		
9,000.0	8,575.0	9,000.8	8,575.1	33.8	33.4	-90.05	514.7	-111.3	1,318.9	1,252.8	66.12	19.948		
9,100.0	8,575.0	9,100.8	8,575.5	33.9	34.0	-90.07	514.8	-11.3	1,318.9	1,251.5	67.43	19.561		
9,200.0	8,575.0	9,200.8	8,575.7	34.4	34.8	-90.08	514.9	88.6	1,318.9	1,249.8	69.06	19.098		
9,300.0	8,575.0	9,300.8	8,575.8	35.3	35.7	-90.08	515.0	188.6	1,318.9	1,247.9	71.00	18.577		
9,400.0	8,575.0	9,400.8	8,575.8	36.3	36.9	-90.08	515.2	288.6	1,318.9	1,245.7	73.21	18.016		
9,500.0	8,575.0	9,500.8	8,575.8	37.6	38.1	-90.08	515.3	388.6	1,318.9	1,243.2	75.68	17.428		
9,600.0	8,575.0	9,600.8	8,575.8	38.9	39.5	-90.08	515.4	488.6	1,318.9	1,240.5	78.38	16.828		
9,700.0	8,575.0	9,700.8	8,575.8	40.4	41.0	-90.08	515.5	588.6	1,318.9	1,237.6	81.28	16.226		
9,800.0	8,575.0	9,800.8	8,575.8	41.9	42.5	-90.08	515.7	688.6 788.6	1,318.9	1,234.6	84.38	15.631		
9,900.0	8,575.0	9,900.8	8,575.8	43.6	44.2	-90.08	515.8	700.0	1,318.9	1,231.3	87.64	15.050		
10,000.0	8,575.0	10,000.8	8,575.8	45.3	45.9	-90.08	515.9	888.6	1,319.0	1,227.9	91.04	14.487		
10,100.0	8,575.0	10,100.8	8,575.8	47.0	47.7	-90.08	516.0	988.6	1,319.0	1,224.4	94.58	13.945		
10,200.0	8,575.0	10,200.8	8,575.8	48.9	49.5	-90.08	516.2	1,088.6	1,319.0	1,220.7	98.24	13.426		
10,300.0 10,400.0	8,575.0 8,575.0	10,300.8 10,400.8	8,575.8 8,575.8	50.8 52.7	51.4 53.3	-90.08 -90.08	516.3 516.4	1,188.6 1,288.6	1,319.0 1,319.0	1,217.0 1,213.1	102.01 105.86	12.930 12.459		
10,400.0	0,070.0	10,400.0	0,373.0	52.1	00.0	-30.00	510.4	1,200.0	1,518.0	1,213.1	105.66	12.408		
10,500.0	8,575.0	10,500.8	8,575.8	54.7	55.3	-90.08	516.5	1,388.6	1,319.0	1,209.2	109.81	12.012		
10,600.0	8,575.0	10,600.8	8,575.8	56.7	57.3	-90.08	516.7	1,488.6	1,319.0	1,205.2	113.82	11.588		
10,700.0	8,575.0	10,700.8	8,575.7	58.7	59.4	-90.08	516.8	1,588.6	1,319.0	1,201.1	117.91	11.187		
10,800.0 10,900.0	8,575.0 8,575.0	10,800.8 10,900.8	8,575.7 8,575.7	60.8 62.9	61.4 63.5	-90.08 -90.08	516.9 517.0	1,688.6 1,788.6	1,319.0 1,319.0	1,197.0 1,192.8	122.06 126.26	10.807 10.447		
10,900.0	6,373.0	10,900.6	6,373.7	02.9	03.3	-90.06	317.0	1,700.0	1,319.0	1,192.0	120.20	10.447		
11,000.0	8,575.0	11,000.8	8,575.7	65.0	65.7	-90.08	517.2	1,888.6	1,319.1	1,188.5	130.51	10.107		
11,100.0	8,575.0	11,100.8	8,575.7	67.1	67.8	-90.08	517.3	1,988.6	1,319.1	1,184.3	134.80	9.785		
11,200.0	8,575.0	11,200.8	8,575.7	69.3	70.0	-90.08	517.4	2,088.6	1,319.1	1,179.9	139.14	9.480		
11,300.0 11,400.0	8,575.0 8,575.0	11,300.8 11,400.8	8,575.7 8,575.7	71.5 73.7	72.2 74.4	-90.08 -90.08	517.5 517.7	2,188.6 2,288.6	1,319.1 1,319.1	1,175.6 1,171.2	143.51 147.92	9.191 8.918		
11,400.0	0,070.0	11,400.0	0,070.7	70.7	74.4	-50.00	011.1	2,200.0	1,010.1	1,171.2	147.02	0.510		
11,500.0	8,575.0	11,500.8	8,575.7	75.9	76.6	-90.07	517.8	2,388.6	1,319.1	1,166.7	152.36	8.658		
11,600.0	8,575.0	11,600.8	8,575.7	78.2	78.8	-90.07	517.9	2,488.6	1,319.1	1,162.3	156.82	8.411		
11,700.0	8,575.0	11,700.8	8,575.7	80.4	81.1	-90.07	518.0	2,588.6	1,319.1	1,157.8	161.32	8.177		
11,800.0 11,900.0	8,575.0 8,575.0	11,800.8 11,900.8	8,575.7 8,575.7	82.7 84.9	83.3 85.6	-90.07 -90.07	518.1 518.3	2,688.6 2,788.6	1,319.1 1,319.1	1,153.3 1,148.8	165.83 170.37	7.955 7.743		
11,000.0	0,070.0	11,000.0	0,070.7	04.0	00.0	-50.07	010.0	2,700.0	1,010.1	1,140.0	170.07	7.740		
12,000.0	8,575.0	12,000.8	8,575.7	87.2	87.9	-90.07	518.4	2,888.6	1,319.1	1,144.2	174.93	7.541		
12,100.0	8,575.0	12,100.8	8,575.6	89.5	90.2	-90.07	518.5	2,988.6	1,319.2		179.51	7.349		
12,200.0	8,575.0	12,200.8	8,575.6	91.8	92.5	-90.07	518.6	3,088.6	1,319.2	1,135.1	184.10	7.165		
12,300.0 12,400.0	8,575.0 8,575.0	12,300.8 12,400.8	8,575.6 8,575.6	94.1 96.4	94.8 97.1	-90.07 -90.07	518.8 518.9	3,188.6 3,288.6	1,319.2 1,319.2	1,130.5 1,125.8	188.71 193.34	6.990 6.823		
12,400.0	0,070.0	12,400.0	0,070.0	30.4	31.1	-50.07	310.3	5,200.0	1,010.2	1,120.0	133.34	0.023		
12,500.0	8,575.0	12,500.8	8,575.6	98.7	99.4	-90.07	519.0	3,388.6	1,319.2		197.97	6.663		
12,600.0	8,575.0	12,600.8	8,575.6	101.0	101.7	-90.07	519.1	3,488.6	1,319.2	1,116.6	202.63	6.511		
12,700.0 12,800.0	8,575.0	12,700.8	8,575.6	103.4	104.1	-90.07	519.3 510.4	3,588.6	1,319.2	1,111.9	207.29	6.364		
12,800.0 12,900.0	8,575.0 8,575.0	12,800.8 12,900.8	8,575.6 8,575.6	105.7 108.0	106.4 108.8	-90.07 -90.07	519.4 519.5	3,688.6 3,788.6	1,319.2 1,319.2	1,107.3 1,102.6	211.96 216.65	6.224 6.089		
12,300.0	0,070.0	12,000.0	0,070.0	100.0	100.0	-50.07	515.5	5,700.0	1,010.2	1,102.0	210.00	0.003		
13,000.0	8,575.0	13,000.8	8,575.6	110.4	111.1	-90.07	519.6	3,888.6	1,319.2		221.34	5.960		
13,100.0	8,575.0	13,100.8	8,575.6	112.7	113.5	-90.07	519.8	3,988.6	1,319.2		226.05	5.836		
13,200.0	8,575.0	13,200.8	8,575.6	115.1	115.8	-90.07	519.9	4,088.6	1,319.3		230.76	5.717		
13,300.0 13,400.0	8,575.0 8,575.0	13,300.8 13,400.8	8,575.6 8,575.6	117.5 119.8	118.2 120.5	-90.07 -90.07	520.0 520.1	4,188.6 4,288.6	1,319.3 1,319.3		235.48 240.21	5.602 5.492		
10,400.0	0,070.0	10,400.0	0,070.0	110.0	120.5	-50.07	J20.1	٠,۷٥٥.٥	1,010.0	1,073.1	240.21	5.452		
13,500.0	8,575.0	13,500.8	8,575.5	122.2	122.9	-90.07	520.3	4,388.6	1,319.3	1,074.3	244.95	5.386		
13,600.0	8,575.0	13,600.8	8,575.5	124.6	125.3	-90.07	520.4	4,488.6	1,319.3	1,069.6	249.69	5.284		
13,700.0	8,575.0	13,700.8	8,575.5	126.9	127.6	-90.07	520.5	4,588.6	1,319.3		254.44	5.185		
13,800.0	8,575.0 8,575.0	13,800.8	8,575.5 8 575.5	129.3	130.0	-90.07 -90.07	520.6 520.8	4,688.6	1,319.3		259.20	5.090		
13,900.0	8,575.0	13,900.8	8,575.5	131.7	132.4	-90.07	520.8	4,788.6	1,319.3	1,055.4	263.96	4.998		
14,000.0	8,575.0	14,000.8	8,575.5	134.1	134.8	-90.07	520.9	4,888.6	1,319.3	1,050.6	268.72	4.910		

Company: Matador Production Company

Project: Ranger/Arrowhead

Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

Well Simon Camamile Fed Com #126H

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Offset Des	ign	Simon C	Camamile	Fed Com -	Simon C	amamile Fed	d Com #125H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usf
Survey Progra Refere		WD Offse	.+	Semi Major	Ayis				Dista	ance			Offset Well Error:	0.0 usf
	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellboro		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	1 actor		
14,100.0	8,575.0	14,100.8	8,575.5	136.4	137.2	-90.07	521.0	4,988.6	1,319.3	1,045.8	273.49	4.824		
14,200.0	8,575.0	14,200.8	8,575.5	138.8	139.6	-90.07	521.1	5,088.6	1,319.3	1,041.1	278.27	4.741		
14,300.0	8,575.0	14,300.8	8,575.5	141.2	142.0	-90.07	521.3	5,188.6	1,319.4	1,036.3	283.05	4.661		
14,400.0	8,575.0	14,400.8	8,575.5	143.6	144.3	-90.07	521.4	5,288.6	1,319.4	1,031.5	287.84	4.584		
14,500.0	8,575.0	14,500.8	8,575.5	146.0	146.7	-90.07	521.5	5,388.6	1,319.4	1,026.7	292.63	4.509		
14,600.0	8,575.0	14,600.8	8,575.5	148.4	149.1	-90.06	521.6	5,488.6	1,319.4	1,022.0	297.42	4.436		
14,700.0	8,575.0	14,700.8	8,575.5	150.8	151.5	-90.06	521.8	5,588.6	1,319.4	1,017.2	302.22	4.366		
14,800.0	8,575.0	14,800.8	8,575.5	153.2	153.9	-90.06	521.9	5,688.6	1,319.4	1,012.4	307.02	4.297		
14,900.0	8,575.0	14,900.8	8,575.4	155.6	156.3	-90.06	522.0	5,788.6	1,319.4	1,007.6	311.82	4.231		
15,000.0	8,575.0	15,000.8	8,575.4	158.0	158.7	-90.06	522.1	5,888.6	1,319.4	1,002.8	316.63	4.167		
15,100.0	8,575.0	15,100.8	8,575.4	160.4	161.1	-90.06	522.2	5,988.6	1,319.4	998.0	321.44	4.105		
15,200.0	8,575.0	15,200.8	8,575.4	162.8	163.6	-90.06	522.4	6,088.6	1,319.4	993.2	326.26	4.044		
15,300.0	8,575.0	15,300.8	8,575.4	165.2	166.0	-90.06	522.5	6,188.6	1,319.4	988.4	331.07	3.985		
15,400.0	8,575.0	15,400.8	8,575.4	167.6	168.4	-90.06	522.6	6,288.6	1,319.5	983.6	335.89	3.928		
15,500.0	8,575.0	15,500.8	8,575.4	170.0	170.8	-90.06	522.7	6,388.6	1,319.5	978.8	340.71	3.873		
15,600.0	8,575.0	15,600.8	8,575.4	172.5	173.2	-90.06	522.9	6,488.6	1,319.5	973.9	345.54	3.819		
15,700.0	8,575.0	15,700.8	8,575.4	174.9	175.6	-90.06	523.0	6,588.6	1,319.5	969.1	350.37	3.766		
15,800.0	8,575.0	15,800.8	8,575.4	177.3	178.0	-90.06	523.1	6,688.6	1,319.5	964.3	355.20	3.715		
15,900.0	8,575.0	15,900.8	8,575.4	179.7	180.4	-90.06	523.2	6,788.6	1,319.5	959.5	360.03	3.665		
16,000.0	8,575.0	16,000.8	8,575.4	182.1	182.9	-90.06	523.4	6,888.6	1,319.5	954.7	364.86	3.616		
16,100.0	8,575.0	16,100.8	8,575.4	184.5	185.3	-90.06	523.5	6,988.6	1,319.5	949.8	369.70	3.569		
16,200.0	8,575.0	16,200.8	8,575.4	187.0	187.7	-90.06	523.6	7,088.6	1,319.5	945.0	374.54	3.523		
16,300.0	8,575.0	16,300.8	8,575.3	189.4	190.1	-90.06	523.7	7,188.6	1,319.5	940.2	379.38	3.478		
16,400.0	8,575.0	16,400.8	8,575.3	191.8	192.5	-90.06	523.9	7,288.6	1,319.6	935.3	384.22	3.434		
16,500.0	8,575.0	16,500.8	8,575.3	194.2	194.9	-90.06	524.0	7,388.6	1,319.6	930.5	389.06	3.392		
16,600.0	8,575.0	16,600.8	8,575.3	196.6	197.4	-90.06	524.1	7,488.6	1,319.6	925.7	393.91	3.350		
16,700.0	8,575.0	16,700.8	8,575.3	199.1	199.8	-90.06	524.2	7,588.6	1,319.6	920.8	398.75	3.309		
16,800.0	8,575.0	16,800.8	8,575.3	201.5	202.2	-90.06	524.4	7,688.6	1,319.6	916.0	403.60	3.270		
16,900.0	8,575.0	16,900.8	8,575.3	203.9	204.6	-90.06	524.5	7,788.6	1,319.6	911.1	408.45	3.231		
17,000.0	8,575.0	17,000.8	8,575.3	206.3	207.1	-90.06	524.6	7,888.6	1,319.6	906.3	413.30	3.193		
17,100.0	8,575.0	17,100.8	8,575.3	208.8	209.5	-90.06	524.7	7,988.6	1,319.6	901.5	418.15	3.156		
17,200.0	8,575.0	17,200.8	8,575.3	211.2	211.9	-90.06	524.9	8,088.6	1,319.6	896.6	423.01	3.120		
17,300.0	8,575.0	17,300.8	8,575.3	213.6	214.3	-90.06	525.0	8,188.6	1,319.6	891.8	427.86	3.084		
17,400.0	8,575.0	17,400.8	8,575.3	216.0	216.8	-90.06	525.1	8,288.6	1,319.6	886.9	432.72	3.050		
17,500.0	8,575.0	17,500.8	8,575.3	218.5	219.2	-90.06	525.2	8,388.6	1,319.7	882.1	437.58	3.016		
17,600.0	8,575.0	17,600.8	8,575.3	220.9	221.6	-90.06	525.4	8,488.6	1,319.7	877.2	442.44	2.983		
17,700.0	8,575.0	17,700.8	8,575.2	223.3	224.1	-90.05	525.5	8,588.6	1,319.7	872.4	447.30	2.950		
17,800.0	8,575.0	17,800.8	8,575.2	225.8	226.5	-90.05	525.6	8,688.6	1,319.7	867.5	452.16	2.919		
17,900.0	8,575.0	17,900.8	8,575.2	228.2	228.9	-90.05	525.7	8,788.6	1,319.7	862.7	457.02	2.888		
18,000.0	8,575.0	18,000.8	8,575.2	230.6	231.4	-90.05	525.9	8,888.6	1,319.7	857.8	461.88	2.857		
18,100.0	8,575.0	18,100.8	8,575.2	233.0	233.8	-90.05	526.0	8,988.6	1,319.7	853.0	466.75	2.827		
18,200.0	8,575.0	18,200.8	8,575.2	235.5	236.2	-90.05	526.1	9,088.6	1,319.7	848.1	471.61	2.798		
18,300.0	8,575.0	18,300.8	8,575.2	237.9	238.7	-90.05	526.2	9,188.6	1,319.7	843.2	476.48	2.770		
18,400.0	8,575.0	18,400.8	8,575.2	240.3	241.1	-90.05	526.3	9,288.6	1,319.7	838.4	481.35	2.742		
18,500.0	8,575.0	18,500.8	8,575.2	242.8	243.5	-90.05	526.5	9,388.6	1,319.7	833.5	486.22	2.714		
18,600.0	8,575.0	18,600.8	8,575.2	245.2	246.0	-90.05	526.6	9,488.6	1,319.8	828.7	491.09	2.687		
18,700.0	8,575.0	18,700.8	8,575.2	247.6	248.4	-90.05	526.7	9,588.6	1,319.8	823.8	495.96	2.661		
18,800.0	8,575.0	18,800.8	8,575.2	250.1	250.8	-90.05	526.8	9,688.6	1,319.8	818.9	500.83	2.635		
18,900.0	8,575.0	18,900.8	8,575.2	252.5	253.3	-90.05	527.0	9,788.6	1,319.8	814.1	505.70	2.610		
19,000.0	8,575.0	19,000.8	8,575.2	255.0	255.7	-90.05	527.1	9,888.6	1,319.8	809.2	510.57	2.585		
19,100.0	8,575.0	19,100.8	8,575.1	257.4	258.1	-90.05	527.2	9,988.6	1,319.8	804.4	515.44	2.561		
19,200.0	8,575.0	19,200.8	8,575.1	259.8	260.6	-90.05	527.3	10,088.6	1,319.8	799.5	520.32	2.537		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft
MD Reference: KB @ 3377.5usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Well Simon Camamile Fed Com #126H

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Offset TVD Reference: Offset Datum

Cliste IVD Relationer.

Offset Des	sign	Simon C	Camamile	Fed Com -	Simon C	amamile Fe	d Com #125H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 usft
Survey Progr	ram: 0-M	WD											Offset Well Error:	0.0 usft
Refere	ence	Offse	et	Semi Major	Axis				Dista	nce				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,300.0	8,575.0	19,300.8	8,575.1	262.3	263.0	-90.05	527.5	10,188.6	1,319.8	794.6	525.19	2.513		
19,400.0	8,575.0	19,400.8	8,575.1	264.7	265.4	-90.05	527.6	10,288.6	1,319.8	789.8	530.07	2.490		
19,500.0	8,575.0	19,500.8	8,575.1	267.1	267.9	-90.05	527.7	10,388.6	1,319.8	784.9	534.94	2.467		
19,600.0	8.575.0	19,600.8	8,575.1	269.6	270.3	-90.05	527.8	10,488.6	1,319.8	780.0	539.82	2.445		
19,700.0	8,575.0	19,700.8	8,575.1	272.0	272.8	-90.05	528.0	10,588.6	1,319.9	775.2	544.70	2.423		
19,800.0	8,575.0	19,800.8	8,575.1	274.5	275.2	-90.05	528.1	10,688.6	1,319.9	770.3	549.57	2.402		
19,900.0	8,575.0	19,900.8	8,575.1	276.9	277.6	-90.05	528.2	10,788.6	1,319.9	765.4	554.45	2.381		
20,000.0	8,575.0	20,000.8	8,575.1	279.3	280.1	-90.05	528.3	10,888.6	1,319.9	760.6	559.33	2.360		
20,100.0	8,575.0	20,100.8	8,575.1	281.8	282.5	-90.05	528.5	10,988.6	1,319.9	755.7	564.21	2.339		
20,200.0	8,575.0	20,200.8	8,575.1	284.2	285.0	-90.05	528.6	11,088.6	1,319.9	750.8	569.09	2.319		
20,300.0	8,575.0	20,300.8	8,575.1	286.6	287.4	-90.05	528.7	11,188.6	1,319.9	745.9	573.97	2.300		
20,400.0	8,575.0	20,400.8	8,575.1	289.1	289.8	-90.05	528.8	11,288.6	1,319.9	741.1	578.85	2.280		
20,500.0	8,575.0	20,500.8	8,575.1	291.5	292.3	-90.05	529.0	11,388.6	1,319.9	736.2	583.73	2.261		
20,600.0	8,575.0	20,600.8	8,575.0	294.0	294.7	-90.05	529.1	11,488.6	1,319.9	731.3	588.62	2.242		
20,700.0	8,575.0	20,700.8	8,575.0	296.4	297.2	-90.05	529.2	11,588.6	1,319.9	726.4	593.50	2.224		
20,800.0	8,575.0	20,800.8	8,575.0	298.9	299.6	-90.04	529.3	11,688.6	1,320.0	721.6	598.38	2.206		
20,900.0	8,575.0	20,900.8	8,575.0	301.3	302.0	-90.04	529.5	11,788.6	1,320.0	716.7	603.26	2.188		
21,000.0	8,575.0	21,000.8	8,575.0	303.7	304.5	-90.04	529.6	11,888.6	1,320.0	711.8	608.15	2.170		
21,100.0	8,575.0	21,100.8	8,575.0	306.2	306.9	-90.04	529.7	11,988.6	1,320.0	707.0	613.03	2.153		
21,200.0	8,575.0	21,200.8	8,575.0	308.6	309.4	-90.04	529.8	12,088.6	1,320.0	702.1	617.92	2.136		
21,200.1	8,575.0	21,200.9	8,575.0	308.6	309.4	-90.04	529.8	12,088.7	1,320.0	702.1	617.92	2.136		
21,213.6	8,575.0	21,212.2	8,575.0	309.0	309.6	-90.04	529.8	12,100.0	1,320.0	701.5	618.52	2.134 S	F	

Company: Matador Production Company

Project: Ranger/Arrowhead Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

Well Simon Camamile Fed Com #126H TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

	Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #134H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Name														Offset Well Error:	0.0 usft
Perf					-		Higheida	Offeet Wellber	o Contro			Minimum	Sonaration	Wassels a	
100	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	-	warning	
2000   2000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000	0.0	0.0	0.0	0.0	0.0	0.0	-15.93			2,224.8					
Mathematical Color	100.0	100.0	64.0	64.0	0.1	0.1	-15.93	2,139.1	-610.4	2,224.5	2,224.3	0.21	N/A		
March   Marc	200.0	200.0	164.0	164.0	0.5	0.4	-15.93	2,139.1	-610.4	2,224.5	2,223.7	0.84	2,635.069		
5000   5000   5640   6640   16	300.0	300.0	264.0	264.0	0.8	0.7	-15.93	2,139.1	-610.4	2,224.5	2,223.0	1.56	1,424.934		
00.00   00.00   064.0   064.0   064.0   1.9   1.8   -15.90   2.139.1   -610.4   2.24.5   2.22.8   3.71   098.284     70.00   70.00   70.00   70.00   2.6   2.5   -15.90   2.139.1   -610.4   2.24.5   2.22.1   4.39   5.15     70.00   70.00   70.00   70.00   70.00   3.0   2.9   -15.90   2.139.1   -610.4   2.24.5   2.22.1   4.39   5.15     70.00   70.00   964.0   864.0   864.0   3.0   2.9   -15.90   2.139.1   -610.4   2.22.4   2.21.8   5.15   412.295     70.00   70.00   964.0   864.0   864.0   3.0   2.9   -15.90   2.139.1   -610.4   2.22.4   2.21.8   5.80     70.00   70.00   70.00   964.0   864.0   3.0   2.9   -15.90   2.139.1   -610.4   2.22.4   2.21.8   5.80     70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00     70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00   70.00			364.0									2.28			
Total		500.0						2,139.1							
BOOL   BOOL   PRIOL															
Mathematics															
1,000															
1,000														00 50	
1,000														CC, ES	
1,000															
1,370   1,370   1,370   1,2410   1,2409   4,6   4,2   123,21   2,143,8   412,8   2,248   2,248   3,01   249,843   24,000   1,398   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,2898   1,289															
1,000															
1,500.0															
1,800.0   1,806.1   1,400.0   1,300.7   5.5   4.8   123.73   2,151.9   616.1   2,281.3   2,271.1   10.23   23.002	1,400.0	1,398.0	1,260.8	1,260.7	4.7	4.3	123.28	2,144.6	-612.8	2,251.9	2,242.8	9.01	249.843		
1,700	1,500.0	1,496.7	1,331.5	1,331.3	5.1	4.5	123.51	2,147.9	-614.3	2,266.0	2,256.3	9.62	235.474		
1,800.0   1,792.7   1,542.1   1,541.3   6.3   5.3   124.16   2,162.5   420.9   2,315.8   2,304.3   11.47   2018.90   2,900.0   1,990.1   1,891.1   1,671.6   6.7   5.6   124.36   2,168.9   6.27.37   2,334.8   2,322.8   12.09   193.074   2,000.0   1,990.1   1,891.1   1,679.5   7,1   5.8   124.56   2,1761.1   4,229   2,355.1   2,342.4   12.71   185.277   2,100.0   2,088.8   1,750.2   1,748.0   7.5   6.1   124.75   2,183.9   430.4   2,376.6   2,363.3   13.33   178.312   1,200.0   2,282.8   1,293.4   1,919.6   8.3   6.7   125.45   2,193.5   6.84.6   2,399.3   2,365.3   13.98   171.686   2,200.0   2,282.9   2,349.2   2,020.2   2,015.5   8.8   7.1   125.45   2,218.1   4.64.6   2,445.3   2,429.9   15.46   159.180   4.65.1   2,200.0   2,282.2   2,213.7   2,207.0   2,209.8   2,242.7   4.65.1   2,445.3   2,429.9   15.46   159.180   4.65.1   2,200.0   2,485.3   2,242.7   4.65.1   2,445.3   2,429.9   15.46   159.180   4.65.1   2,260.0   2,262.2   2,213.7   2,207.1   9.6   7.9   125.93   2,242.7   6.66.6   2,445.3   2,429.9   15.46   159.180   4.69.88   2,700.0   2,889.2   2,310.5   2,302.9   10.1   8.3   126.16   2,255.0   462.0   2,514.7   2,470.0   17.70   142.081   4.69.88   2,700.0   2,870.3   2,388.8   10.5   8.6   126.39   2,267.3   4.675.1   2,549.15   2,474.6   169.16   14.69.88   2,700.0   2,870.3   2,504.0   2,494.6   10.9   9.0   126.62   2,779.6   4.673.0   2,561.1   2,541.9   19.20   133.392   3,000.0   3,773.0   2,800.8   2,877.9   12.8   10.7   12.7   12.2   12.2   12.2   12.2   12.2   12.2   12.2   12.2   12.2   12.2   12.2   12.2   12.2   12.2   12.2   12.2   12.2   12.2   12.2   12.3   13.6   4.6   2,368.1   4.6   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1   2,469.1	1,600.0	1,595.4	1,400.0	1,399.7	5.5	4.8	123.73	2,151.9	-616.1	2,281.3	2,271.1	10.23	223.002		
1,900.0 1,891.4 1,811.8 1,810.6 6.7 5.6 124.36 2,168.9 4623.7 2,334.8 2,322.8 12.09 193.074  2,000.0 1,990.1 1,881.1 1,879.5 7.1 5.8 124.56 2,176.1 4,629.9 2,355.1 2,342.4 12.71 185.277  2,100.0 2,088.8 1,750.2 1,748.0 7.5 6.1 124.75 2,183.9 430.4 2,376.6 2,383.3 13.33 178.312  2,000.0 2,187.5 1,826.7 1,823.8 7.9 6.4 124.95 2,193.5 434.8 2,399.3 2,385.3 13.99 171.656  2,300.0 2,286.2 1,923.4 1,919.6 8.3 6.7 125.20 2,205.8 460.1 2,422.3 2,407.6 14.72 164.593  2,400.0 2,384.9 2,202.0 2,015.5 8.8 7.1 125.45 2,218.1 44.5 2,248.3 2,429.9 15.46 185.810  2,500.0 2,483.5 2,117.0 2,111.3 9.2 7.5 125.69 2,230.4 4651.1 2,468.4 2,452.2 16.20 152.335  2,800.0 2,582.2 2,213.7 2,207.1 9.6 7.9 125.93 2,242.7 4.666.8 2,491.5 2,474.6 16.95 146.988  2,700.0 2,680.9 2,310.5 2,302.9 10.1 8.3 126.16 2,255.0 462.0 2,514.7 2,497.0 17.70 17.0 142.081  2,800.0 2,779.6 2,407.3 2,398.8 10.5 8.6 126.39 2,267.3 467.5 2,537.9 2,519.4 18.45 137.564  2,900.0 2,878.3 2,504.0 2,494.6 10.9 9.0 126.82 2,279.8 467.5 2,537.9 2,519.4 18.45 137.564  2,900.0 3,075.7 2,702.4 2,868.3 11.8 9.8 127.06 2,304.2 484.0 2,607.7 2,587.0 20.7 2,587.0 20.7 2,588.0 3,300.3 3,371.7 2,897.9 2,577.7 13.1 11.0 127.68 2,341.1 -700.4 2,677.8 2,684.4 2,544.9 19.95 129.529  3,500.0 3,075.7 2,702.4 2,868.3 11.8 9.8 127.06 2,304.2 484.0 2,607.7 2,587.0 20.7 2,588.0 20.7 2,588.0 3,300.3 3,717.2 2,897.9 2,577.7 13.1 11.0 127.68 2,341.1 -700.4 2,677.8 2,684.9 2.297 116.580  3,500.0 3,075.7 2,702.4 2,868.3 11.8 9.8 127.06 2,304.2 484.0 4.29.9 4.27.8 2,249.9 4.27.8 2,249.9 4.29.9 11.3 8,44  3,000.0 3,075.7 2,702.4 2,868.3 11.8 14.8 12.9 128.8 4 2,291.9 476.5 2,584.4 2,584.1 2,22.9 119.18  3,400.0 3,371.7 2,867.9 2,577.7 13.1 11.0 127.68 2,334.1 -700.4 2,677.8 2,684.9 2.297 116.580  3,500.0 3,667.8 3,470.4 3,045.8 14.4 12.2 128.28 2,378.0 -716.9 2,777.2 2,775.1 2,275.9 11.580  3,500.0 3,667.8 3,470.4 3,045.8 14.4 11.2 12.2 128.2 8 2,378.0 -716.9 2,777.2 2,775.1 2,277.1 2,987.9 2,799.1 2,584.9 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12	1,700.0	1,694.1	1,472.2	1,471.6	5.9	5.0	123.95	2,156.9	-618.3	2,297.9	2,287.1	10.85	211.693		
2000	1,800.0	1,792.7	1,542.1	1,541.3	6.3	5.3	124.16	2,162.5	-620.9	2,315.8	2,304.3	11.47	201.830		
21000 2,088 8 1,750 2 1,748 0 7,5 6 1 124,75 2,183 9 -830.4 2,376,6 2,383.3 13.33 178,312 2,200.0 2,187.5 1,226.7 1,223.8 7,9 6.4 124.95 2,183.5 -834.6 2,393.3 2,385.3 13.83 171,856 2,000 2,286.2 1,1823.4 1,919.6 8.3 6.7 125.20 2,205.6 -404.1 2,422.3 2,407.6 14,72 164,893 2,400.0 2,384.9 2,000.2 2,915.5 8.8 7.1 125.45 2,218.1 -445.6 2,445.3 2,429.9 15.46 158.180 2,500.0 2,483.5 2,117.0 2,111.3 9.2 7.5 125.69 2,230.4 -465.6 2,445.3 2,429.9 15.46 158.180 2,500.0 2,483.5 2,117.0 2,111.3 9.2 7.5 125.69 2,230.4 -465.6 2,445.3 2,429.9 15.46 158.180 2,500.0 2,580.2 2,213.7 2,207.1 9.6 7.9 125.93 2,242.7 456.6 2,461.5 2,474.6 16.95 146.588 2,500.0 2,580.2 2,213.7 2,207.1 9.6 7.9 125.93 2,242.7 456.6 2,461.5 2,474.6 16.95 146.588 2,500.0 2,479.6 2,407.3 2,302.9 10.1 8.3 126.16 2,255.0 -462.0 2,514.7 2,407.0 17.70 142,081 2,500.0 2,779.6 2,407.3 2,398.8 10.5 8.8 128.39 2,267.3 467.5 2,537.9 2,519.4 18.45 137.584 2,500.0 2,873.3 2,500.0 2,494.6 10.9 9.0 126.62 2,278.6 467.0 2,561.1 2,541.9 19.20 133.392 3,500.0 3,757.7 2,702.4 2,686.3 11.8 9.8 127.06 2,304.2 468.4 0,2607.7 2,587.0 20.72 125.834 3,500.0 3,075.7 2,702.4 2,686.3 11.8 9.8 127.06 2,304.2 468.4 0,2607.7 2,587.0 20.72 125.834 3,500.0 3,273.0 2,500.9 2,877.9 12.6 10.7 127.48 2,338.8 464.9 2,654.4 2,664.4 19.95 129.529 3,500.0 3,273.0 2,500.9 2,877.9 12.6 10.7 127.48 2,338.8 464.9 2,654.4 2,664.4 19.95 122.366 3,500.0 3,679.1 3,181.4 3,165.4 14.0 11.8 127.89 2,353.4 -705.9 2,701.3 2,677.8 2,654.9 22.97 116.580 3,500.0 3,667.8 3,774.2 2,867.9 2,773.7 13.1 11.0 127.68 2,341.1 -700.4 2,677.8 2,654.9 22.97 116.580 3,500.0 3,667.8 3,774.2 2,867.9 2,773.7 13.1 11.0 127.68 2,341.1 -700.4 2,677.8 2,654.9 22.97 116.580 3,500.0 3,667.8 3,774.2 2,867.9 3,774.1 14.1 127.89 2,353.4 -705.9 2,701.3 2,677.8 2,654.9 2,909.9 9,00.9 2,000.0 3,667.8 3,774.2 2,867.9 3,774.1 14.1 127.89 2,353.4 -705.9 2,701.3 2,677.8 2,654.9 2,909.9 9,00.9 2,000.0 3,667.8 3,774.2 3,667.8 14.4 12.2 128.28 2,378.0 -716.9 2,783.3 2,773.0 2,94.9 9,00.9 9,00.9 2,00.0 3,667.8 3,784.2 3,868.8 3,868.9 13.3 14.	1,900.0	1,891.4	1,611.8	1,610.6	6.7	5.6	124.36	2,168.9	-623.7	2,334.8	2,322.8	12.09	193.074		
22000         2,187.5         1,826.7         1,823.8         7,9         6.4         124.95         2,193.5         -804.6         2,399.3         2,385.3         13.98         171.656           2,300.0         2,286.2         1,923.4         1,919.6         8.8         7.1         125.45         2,218.1         -845.6         2,445.3         2,429.9         15.46         158.180           2,500.0         2,883.5         2,117.0         2,111.3         9.2         7.5         125.69         2,230.4         -861.1         2,468.4         2,452.2         16.20         152.335           2,600.0         2,582.2         2,213.7         2,207.1         9.6         7.9         125.93         2,242.7         -866.6         2,491.5         2,474.6         16.95         146.988           2,700.0         2,880.9         2,310.5         2,302.9         10.1         8.3         126.16         2,255.0         -867.5         2,537.9         2,519.4         18.45         137.564           2,800.0         2,779.6         2,407.3         2,398.8         10.5         8.6         126.39         2,267.3         -667.5         2,537.9         2,519.4         18.45         137.564           2,800.0         2,779.	2,000.0	1,990.1	1,681.1	1,679.5	7.1	5.8	124.56	2,176.1	-626.9	2,355.1	2,342.4	12.71	185.277		
2300.0         2,286.2         1,923.4         1,919.6         8.3         6.7         125.20         2,058.8         -840.1         2,422.3         2,407.6         14.72         164.583           2,400.0         2,384.9         2,020.2         2,015.5         8.8         7.1         125.45         2,218.1         -645.6         2,445.3         2,429.9         15.46         158.180           2,500.0         2,483.5         2,117.0         2,111.3         9.2         7.5         125.69         2,230.4         -661.1         2,468.4         2,452.2         16.20         152.335           2,600.0         2,582.2         2,213.7         2,200.1         1.6         7.9         125.93         2,242.7         -666.6         2,491.5         2,474.6         16.95         142.081           2,700.0         2,879.6         2,407.3         2,398.8         10.5         8.6         16.99         2,627.3         -667.0         2,519.4         14.84         14.14.0         14.2081           2,900.0         2,878.3         2,504.0         2,494.6         10.9         9.0         126.62         2,279.6         -673.0         2,581.1         2,541.9         19.20         133.392           3,000.0         2,977.	2,100.0	2,088.8	1,750.2	1,748.0	7.5	6.1	124.75	2,183.9	-630.4	2,376.6	2,363.3	13.33	178.312		
2,400.0	2,200.0	2,187.5	1,826.7	1,823.8	7.9	6.4	124.95	2,193.5	-634.6	2,399.3	2,385.3	13.98	171.656		
2,500.0	2,300.0	2,286.2	1,923.4	1,919.6	8.3	6.7	125.20	2,205.8	-640.1	2,422.3	2,407.6	14.72	164.593		
2,600.0 2,582.2 2,213.7 2,207.1 9.6 7.9 125.93 2,242.7 -656.6 2,491.5 2,474.6 16.95 146.988 2,700.0 2,680.9 2,310.5 2,302.9 10.1 8.3 126.16 2,255.0 -602.0 2,514.7 2,497.0 17.70 142.081 2,800.0 2,779.6 2,407.3 2,398.8 10.5 8.6 126.39 2,267.3 -667.5 2,537.9 2,519.4 18.45 137.564 2,900.0 2,878.3 2,504.0 2,494.6 10.9 9.0 126.62 2,279.6 -673.0 2,561.1 2,541.9 19.20 133.392 13.000.0 2,977.0 2,600.8 2,590.4 11.3 9.4 126.84 2,291.9 -678.5 2,584.4 2,564.4 19.95 129.529 3,100.0 3,075.7 2,702.4 2,686.3 11.8 9.8 127.06 2,304.2 -684.0 2,607.7 2,587.0 20.72 125.834 3,200.0 3,174.3 2,805.6 2,782.1 12.2 10.2 127.27 2,316.5 -689.5 2,531.0 2,609.5 2,150 122.366 3,300.0 3,273.0 2,909.9 2,877.9 12.6 10.7 127.48 2,328.8 -694.9 2,654.4 2,654.4 2,22.8 119.138 3,400.0 3,371.7 2,987.9 2,973.7 13.1 11.0 127.68 2,341.1 -700.4 2,677.8 2,654.9 22.97 116.580 3,500.0 3,470.4 3,084.7 3,069.6 13.5 11.4 127.89 2,365.4 -705.9 2,701.3 2,677.6 23.73 113.654 3,600.0 3,669.1 3,181.4 3,165.4 14.0 11.8 128.09 2,365.7 -711.4 2,724.8 2,703.0 2,448 111.294 3,700.0 3,667.8 3,278.2 3,281.2 14.4 12.2 128.28 2,378.0 -716.9 2,748.3 2,723.0 2,524 108.888 3,800.0 3,669.1 3,181.4 3,165.4 14.0 11.8 128.09 2,365.7 -711.4 2,724.8 2,703.0 2,448 111.294 3,700.0 3,667.8 3,278.2 3,281.2 14.4 12.2 128.28 2,378.0 -716.9 2,748.3 2,723.0 2,524 108.888 3,800.0 3,665.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 2,645 104.766 3,900.0 3,665.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 2,645 104.766 3,900.0 4,662.5 4,045.8 4,026.5 16.1 15.0 130.06 2,419.1 -735.2 2,808.3 2,778.4 2,984 94.120 4,200.0 4,161.2 4,144.5 4,125.2 16.6 15.3 130.31 2,419.1 -735.2 2,808.3 2,778.4 2,984 94.120 4,200.0 4,161.2 4,144.5 4,125.2 16.6 15.3 130.31 2,419.1 -735.2 2,808.3 2,778.4 2,984 94.120 4,200.0 4,457.3 4,442.3 17.9 16.3 131.05 2,419.1 -735.2 2,808.3 2,778.4 2,984 94.120 4,200.0 4,457.3 4,442.3 17.9 16.3 131.05 2,419.1 -735.2 2,808.3 2,778.4 2,984 94.120 4,200.0 4,457.3 4,463.8 4,363.6 4,341.8 4,322.6 17.5 16.0 130.80 2,419.1 -735.2 2,808.3 2,778.3 3,	2,400.0	2,384.9	2,020.2	2,015.5	8.8	7.1	125.45	2,218.1	-645.6	2,445.3	2,429.9	15.46	158.180		
2,700.0 2,680.9 2,310.5 2,302.9 10.1 8.3 126.16 2,255.0 -662.0 2,514.7 2,497.0 17.70 142.081 2,800.0 2,779.6 2,407.3 2,398.8 10.5 8.6 126.39 2,267.3 -667.5 2,537.9 2,519.4 18.45 137.564 2,900.0 2,878.3 2,504.0 2,494.6 10.9 9.0 126.62 2,279.6 -673.0 2,561.1 2,541.9 19.20 133.392 3,000.0 2,977.0 2,600.8 2,590.4 11.3 9.4 126.84 2,291.9 -678.5 2,584.4 2,564.4 19.95 129.529 3,100.0 3,075.7 2,702.4 2,686.3 11.8 9.8 127.06 2,304.2 -684.0 2,607.7 2,587.0 20.72 125.834 3,200.0 3,174.3 2,805.6 2,782.1 12.2 10.2 127.27 2,316.5 -689.5 2,631.0 2,609.5 21.50 122.366 3,300.0 3,273.0 2,908.9 2,877.9 12.6 10.7 127.48 2,328.8 -694.9 2,654.4 2,632.1 22.28 119.138 3,400.0 3,371.7 2,987.9 2,973.7 13.1 11.0 127.68 2,334.1 -700.4 2,677.8 2,654.9 22.97 116.580 3,500.0 3,470.4 3,084.7 3,069.6 13.5 11.4 127.89 2,365.7 -711.4 2,724.8 2,703.3 24.48 111.294 3,700.0 3,667.8 3,278.2 3,261.2 14.4 12.2 128.28 2,378.0 -716.9 2,748.3 2,723.0 25.24 108.88 3,800.0 3,569.1 3,181.4 3,165.4 14.0 11.8 128.09 2,365.7 -711.4 2,724.8 2,703.3 24.48 111.294 3,700.0 3,667.8 3,278.2 3,261.2 14.4 12.2 128.28 2,378.0 -716.9 2,748.3 2,723.0 25.24 108.88 3,800.0 3,766.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 26.45 10.4 10.6 888 3,800.0 3,766.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 26.45 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4	2,500.0	2,483.5	2,117.0	2,111.3	9.2	7.5	125.69	2,230.4	-651.1	2,468.4	2,452.2	16.20	152.335		
2,800.0         2,779.6         2,407.3         2,398.8         10.5         8.6         126.39         2,267.3         -667.5         2,537.9         2,519.4         18.45         137.564           2,900.0         2,878.3         2,504.0         2,494.6         10.9         9.0         126.62         2,279.6         -678.5         2,581.1         2,541.9         19.20         133.392           3,000.0         2,977.0         2,600.8         2,594.4         11.3         9.4         126.84         2,291.9         -678.5         2,584.4         2,564.4         19.95         129.529           3,000.0         3,075.7         2,702.4         2,688.3         11.8         9.8         127.06         2,304.6         -684.0         2,607.7         2,587.0         20.72         125.844           3,200.0         3,174.3         2,805.6         2,782.1         12.2         10.2         127.27         2,316.5         -689.5         2,631.0         2,609.5         21.50         122.366           3,300.0         3,371.7         2,987.9         2,973.7         13.1         11.0         127.68         2,341.1         -700.4         2,677.8         2,654.9         22.27         116.580           3,500.0 <t< td=""><td>2,600.0</td><td>2,582.2</td><td>2,213.7</td><td>2,207.1</td><td>9.6</td><td>7.9</td><td>125.93</td><td>2,242.7</td><td>-656.6</td><td>2,491.5</td><td>2,474.6</td><td>16.95</td><td>146.988</td><td></td><td></td></t<>	2,600.0	2,582.2	2,213.7	2,207.1	9.6	7.9	125.93	2,242.7	-656.6	2,491.5	2,474.6	16.95	146.988		
2,900.0 2,878.3 2,504.0 2,494.6 10.9 9.0 126.62 2,279.6 -673.0 2,561.1 2,541.9 19.20 133.392  3,000.0 2,977.0 2,600.8 2,590.4 11.3 9.4 126.84 2,291.9 -678.5 2,584.4 2,564.4 19.95 129.529  3,100.0 3,075.7 2,702.4 2,686.3 11.8 9.8 127.06 2,304.2 684.0 2,607.7 2,587.0 20.72 125.834  3,200.0 3,174.3 2,805.6 2,782.1 12.2 10.2 127.27 2,316.5 689.5 2,831.0 2,609.5 21.50 122.366  3,300.0 3,273.0 2,909.9 2,877.9 12.6 10.7 127.48 2,328.8 694.9 2,654.4 2,632.1 22.2 119.138  3,400.0 3,371.7 2,987.9 2,973.7 13.1 11.0 127.68 2,341.1 -700.4 2,677.8 2,654.9 22.97 116.580  3,500.0 3,470.4 3,084.7 3,069.6 13.5 11.4 127.89 2,353.4 -705.9 2,701.3 2,677.6 23.73 113.854  3,600.0 3,569.1 3,181.4 3,165.4 14.0 11.8 128.09 2,365.7 -711.4 2,724.8 2,700.3 24.48 111.294  3,700.0 3,667.8 3,278.2 3,261.2 14.4 12.2 128.28 2,378.0 -716.9 2,783.3 2,723.0 25.24 108.888  3,800.0 3,766.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 26.45 104.766  3,900.0 3,868.1 3,801.8 3,782.5 15.3 14.2 129.44 2,418.6 -735.0 2,787.2 2,759.1 28.17 98.946  4,000.0 3,963.8 3,947.1 3,927.8 15.7 14.6 129.81 2,419.1 -735.2 2,893.8 2,782.2 30.59 9 96.190  4,100.0 4,062.5 4,045.8 4,026.5 16.1 15.0 130.66 2,419.1 -735.2 2,893.8 2,782. 30.59 9 26.153  4,800.0 4,259.9 4,243.1 4,223.9 17.0 15.6 130.56 2,419.1 -735.2 2,893. 2,780.0 31.34 90.282  4,400.0 4,457.3 4,440.5 4,421.3 17.9 16.3 131.05 2,419.1 -735.2 2,893. 2,807.9 32.09 88.501  4,500.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.59 2,419.1 -735.2 2,893. 2,807.9 32.09 88.501  4,500.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.59 2,419.1 -735.2 2,893. 2,857.9 35.84 80.739	2,700.0	2,680.9	2,310.5	2,302.9	10.1	8.3	126.16	2,255.0	-662.0	2,514.7	2,497.0	17.70	142.081		
3,000.0 2,977.0 2,600.8 2,590.4 11.3 9.4 126.84 2,291.9 -678.5 2,584.4 2,564.4 19.95 129.529 3,100.0 3,076.7 2,702.4 2,686.3 11.8 9.8 127.06 2,304.2 -684.0 2,607.7 2,587.0 20.72 125.834 3,200.0 3,174.3 2,805.6 2,782.1 12.2 10.2 127.27 2,316.5 -689.5 2,631.0 2,609.5 21.50 122.366 3,300.0 3,273.0 2,908.9 2,877.9 12.6 10.7 127.48 2,328.8 -694.9 2,654.4 2,632.1 22.28 119.138 3,400.0 3,371.7 2,987.9 2,973.7 13.1 11.0 127.68 2,341.1 -700.4 2,677.8 2,654.9 22.97 116.580 3,500.0 3,470.4 3,084.7 3,069.6 13.5 11.4 127.89 2,353.4 -705.9 2,701.3 2,677.6 23.73 113.854 3,600.0 3,569.1 3,181.4 3,165.4 14.0 11.8 128.09 2,365.7 -711.4 2,724.8 2,700.3 24.48 111.294 3,700.0 3,667.8 3,278.2 3,261.2 14.4 12.2 128.28 2,378.0 -716.9 2,748.3 2,723.0 25.24 108.888 3,800.0 3,766.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 26.45 104.766 3,900.0 3,865.1 3,801.8 3,782.5 15.3 14.2 129.44 2,418.6 -735.0 2,787.2 2,759.1 28.17 98.946 4,000.0 4,062.5 4,045.8 4,026.5 16.1 15.0 130.06 2,419.1 -735.2 2,803.3 2,788.2 30.59 92.153 4,300.0 4,652.0 4,045.8 4,026.5 16.1 15.0 130.06 2,419.1 -735.2 2,803.9 2,807.9 32.09 88.501 4,500.0 4,652.5 4,045.8 4,026.5 16.1 15.0 130.66 2,419.1 -735.2 2,803.9 2,807.9 32.09 88.501 4,500.0 4,652.5 4,045.8 4,026.5 16.1 15.0 130.66 2,419.1 -735.2 2,803.9 2,807.9 32.09 88.501 4,500.0 4,652.5 4,045.8 4,026.5 16.1 15.0 130.66 2,419.1 -735.2 2,803.9 2,807.9 32.09 88.501 4,500.0 4,653.9 4,341.8 4,322.6 17.5 16.0 130.56 2,419.1 -735.2 2,809.9 2,807.9 32.09 88.501 4,500.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,803.8 2,857.9 35.84 80.739	2,800.0	2,779.6	2,407.3	2,398.8	10.5	8.6	126.39	2,267.3	-667.5	2,537.9	2,519.4	18.45	137.564		
3,100.0 3,075.7 2,702.4 2,686.3 11.8 9.8 127.06 2,304.2 -684.0 2,607.7 2,587.0 20.72 125.834 3,200.0 3,174.3 2,805.6 2,782.1 12.2 10.2 127.27 2,316.5 -689.5 2,631.0 2,609.5 21.50 122.366 3,300.0 3,273.0 2,908.9 2,877.9 12.6 10.7 127.48 2,328.8 -694.9 2,654.4 2,632.1 22.28 119.138 3,400.0 3,371.7 2,987.9 2,973.7 13.1 11.0 127.68 2,341.1 -700.4 2,677.8 2,654.9 22.97 116.580  3,500.0 3,470.4 3,084.7 3,069.6 13.5 11.4 127.89 2,353.4 -705.9 2,701.3 2,677.6 23.73 113.854 3,600.0 3,569.1 3,181.4 3,165.4 14.0 11.8 128.09 2,365.7 -711.4 2,724.8 2,700.3 24.48 111.294 3,700.0 3,667.8 3,278.2 3,261.2 14.4 12.2 128.28 2,378.0 -716.9 2,748.3 2,723.0 25.24 108.888 3,800.0 3,766.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 26.45 104.766 3,900.0 3,865.1 3,801.8 3,782.5 15.3 14.2 129.44 2,418.6 -735.0 2,787.2 2,759.1 28.17 98.946 4,000.0 3,963.8 3,947.1 3,927.8 15.7 14.6 129.81 2,419.1 -735.2 2,797.8 2,768.7 29.09 96.190 4,000.0 4,062.5 4,045.8 4,026.5 16.1 15.0 130.06 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,161.2 4,144.5 4,125.2 16.6 15.3 130.31 2,419.1 -735.2 2,808.3 2,788.2 30.59 92.153 4,300.0 4,259.9 4,243.1 4,223.9 17.0 15.6 130.56 2,419.1 -735.2 2,809.3 2,788.0 31.34 90.282 4,400.0 4,555.9 4,539.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,809.3 2,788.0 31.34 90.282 4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,809.8 2,807.9 32.09 88.501 4,500.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,861.3 2,827.7 33.59 85.182 4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,809.8 2,877.7 35.50 85.182 4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,809.8 2,847.8 35.09 82.155 4,500.0 4,753.3 4,736.6 4,717.3 19.2 17.3 131.77 2,419.1 -735.2 2,809.8 2,847.8 35.09 82.155 4,500.0 4,855.0 4,835.3 4,816.0 19.7 17.7 132.01 2,419.1 -735.2 2,893.8 2,857.9 35.84 80.739	2,900.0	2,878.3	2,504.0	2,494.6	10.9	9.0	126.62	2,279.6	-673.0	2,561.1	2,541.9	19.20	133.392		
3,200.0 3,174.3 2,805.6 2,782.1 12.2 10.2 127.27 2,316.5 -689.5 2,631.0 2,609.5 21.50 122.366 3,300.0 3,273.0 2,908.9 2,877.9 12.6 10.7 127.48 2,328.8 -694.9 2,654.4 2,632.1 22.28 119.138 3,400.0 3,371.7 2,987.9 2,973.7 13.1 11.0 127.68 2,341.1 -700.4 2,677.8 2,654.9 22.97 116.580 13.500.0 3,470.4 3,084.7 3,069.6 13.5 11.4 127.89 2,353.4 -705.9 2,701.3 2,677.6 23.73 113.854 3,600.0 3,569.1 3,181.4 3,165.4 14.0 11.8 128.09 2,365.7 -711.4 2,724.8 2,700.3 24.48 111.294 3,700.0 3,667.8 3,278.2 3,281.2 14.4 12.2 128.28 2,378.0 -716.9 2,748.3 2,723.0 25.24 108.888 3,800.0 3,766.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 26.45 104.766 3,900.0 3,865.1 3,801.8 3,782.5 15.3 14.2 129.44 2,418.6 -735.0 2,787.2 2,759.1 28.17 98.946 1,000.0 3,963.8 3,947.1 3,927.8 15.7 14.6 129.81 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,100.0 4,062.5 4,045.8 4,026.5 16.1 15.0 130.06 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,161.2 4,144.5 4,125.2 16.6 15.3 130.31 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,259.9 4,243.1 4,223.9 17.0 15.6 130.56 2,419.1 -735.2 2,808.3 2,778.0 31.34 90.282 4,400.0 4,358.6 4,341.8 4,322.6 17.5 16.0 130.80 2,419.1 -735.2 2,808.3 2,778.0 31.34 90.282 4,400.0 4,555.9 4,599.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,808.3 2,877.8 32.84 86.803 4,600.0 4,555.9 4,639.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,808.3 2,877.8 32.84 86.803 4,600.0 4,555.9 4,639.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,808.3 2,877.8 34.34 83.635 4,600.0 4,555.9 4,639.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,808.3 2,877.3 35.9 85.182 4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,808.9 2,807.9 35.94 85.182 4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,808.9 2,807.9 35.94 85.182 4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,808.9 2,807.9 35.84 80.739	3,000.0	2,977.0	2,600.8	2,590.4	11.3	9.4	126.84	2,291.9	-678.5	2,584.4	2,564.4	19.95	129.529		
3,300.0 3,273.0 2,908.9 2,877.9 12.6 10.7 127.48 2,328.8 -694.9 2,654.4 2,632.1 22.28 119.138 3,400.0 3,371.7 2,987.9 2,973.7 13.1 11.0 127.68 2,341.1 -700.4 2,677.8 2,654.9 22.97 116.580  3,500.0 3,470.4 3,084.7 3,069.6 13.5 11.4 127.89 2,353.4 -705.9 2,701.3 2,677.6 23.73 113.854 3,600.0 3,569.1 3,181.4 3,165.4 14.0 11.8 128.09 2,365.7 -711.4 2,724.8 2,700.3 24.48 111.294 3,700.0 3,667.8 3,278.2 3,261.2 14.4 12.2 128.28 2,378.0 -716.9 2,748.3 2,723.0 25.24 108.888 3,800.0 3,766.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 2,64.5 104.766 3,900.0 3,665.1 3,801.8 3,782.5 15.3 14.2 129.44 2,418.6 -735.0 2,787.2 2,759.1 28.17 98.946  4,000.0 3,963.8 3,947.1 3,927.8 15.7 14.6 129.81 2,419.1 -735.2 2,797.8 2,768.7 29.09 96.190 4,100.0 4,062.5 4,045.8 4,026.5 16.1 15.0 130.06 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,161.2 4,144.5 4,125.2 16.6 15.3 130.31 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,161.2 4,144.5 4,125.2 16.6 15.3 130.31 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,259.9 4,243.1 4,223.9 17.0 15.6 130.56 2,419.1 -735.2 2,829.3 2,798.0 31.34 90.282 4,400.0 4,358.6 4,341.8 4,322.6 17.5 16.0 130.80 2,419.1 -735.2 2,839.9 2,807.9 32.09 88.501  4,500.0 4,457.3 4,440.5 4,421.3 17.9 16.3 131.05 2,419.1 -735.2 2,839.9 2,807.9 32.09 88.501  4,500.0 4,555.9 4,539.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,861.3 2,827.7 33.59 85.182 4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,861.3 2,827.7 33.59 85.182 4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,862.9 2,861.8 32.87.8 34.34 83.635 4,800.0 4,753.3 4,736.6 4,717.3 19.2 17.3 131.77 2,419.1 -735.2 2,889.9 2,847.8 35.09 82.155 4,900.0 4,852.0 4,835.3 4,816.0 19.7 17.7 132.01 2,419.1 -735.2 2,889.8 2,857.9 35.84 80.739	3,100.0	3,075.7	2,702.4	2,686.3	11.8	9.8	127.06	2,304.2	-684.0	2,607.7	2,587.0	20.72	125.834		
3,400.0 3,371.7 2,987.9 2,973.7 13.1 11.0 127.68 2,341.1 -700.4 2,677.8 2,654.9 22.97 116.580  3,500.0 3,470.4 3,084.7 3,069.6 13.5 11.4 127.89 2,353.4 -705.9 2,701.3 2,677.6 23.73 113.854 3,600.0 3,569.1 3,181.4 3,165.4 14.0 11.8 128.09 2,365.7 -711.4 2,724.8 2,700.3 24.48 111.294 3,700.0 3,667.8 3,278.2 3,261.2 14.4 12.2 128.28 2,378.0 -716.9 2,748.3 2,723.0 25.24 108.888 3,800.0 3,766.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 26.45 104.766 3,900.0 3,865.1 3,801.8 3,782.5 15.3 14.2 129.44 2,418.6 -735.0 2,787.2 2,759.1 28.17 98.946  4,000.0 3,963.8 3,947.1 3,927.8 15.7 14.6 129.81 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,100.0 4,062.5 4,045.8 4,026.5 16.1 15.0 130.06 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,161.2 4,144.5 4,125.2 16.6 15.3 130.31 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,259.9 4,243.1 4,223.9 17.0 15.6 130.56 2,419.1 -735.2 2,809.3 2,790.0 31.34 90.262 4,400.0 4,358.6 4,341.8 4,322.6 17.5 16.0 130.80 2,419.1 -735.2 2,809.3 2,790.0 31.34 90.262 4,400.0 4,555.9 4,539.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,801.3 2,827.7 33.59 85.182 4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,801.3 2,827.7 33.59 85.182 4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,802.9 2,847.8 35.09 85.162 4,700.0 4,853.3 4,736.6 4,717.3 19.2 17.3 131.77 2,419.1 -735.2 2,802.9 2,847.8 35.09 85.165 4,900.0 4,753.3 4,736.6 4,717.3 19.2 17.3 131.77 2,419.1 -735.2 2,802.9 2,847.8 35.09 85.165 4,900.0 4,852.0 4,835.3 4,816.0 19.7 17.7 132.01 2,419.1 -735.2 2,803.8 2,857.9 35.84 80.739	3,200.0	3,174.3	2,805.6	2,782.1	12.2	10.2	127.27	2,316.5	-689.5	2,631.0	2,609.5	21.50	122.366		
3,500.0 3,470.4 3,084.7 3,069.6 13.5 11.4 127.89 2,353.4 -705.9 2,701.3 2,677.6 23.73 113.854 3,600.0 3,569.1 3,181.4 3,165.4 14.0 11.8 128.09 2,365.7 -711.4 2,724.8 2,700.3 24.48 111.294 3,700.0 3,667.8 3,278.2 3,261.2 14.4 12.2 128.28 2,378.0 -716.9 2,748.3 2,723.0 25.24 108.888 3,800.0 3,766.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 26.45 104.766 3,900.0 3,865.1 3,801.8 3,782.5 15.3 14.2 129.44 2,418.6 -735.0 2,787.2 2,759.1 28.17 98.946 4,000.0 3,963.8 3,947.1 3,927.8 15.7 14.6 129.81 2,419.1 -735.2 2,797.8 2,768.7 29.09 96.190 4,100.0 4,062.5 4,045.8 4,026.5 16.1 15.0 130.06 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,161.2 4,144.5 4,125.2 16.6 15.3 130.31 2,419.1 -735.2 2,808.3 2,788.2 30.59 92.153 4,300.0 4,259.9 4,243.1 4,223.9 17.0 15.6 130.56 2,419.1 -735.2 2,808.3 2,788.0 31.34 90.282 4,400.0 4,358.6 4,341.8 4,322.6 17.5 16.0 130.80 2,419.1 -735.2 2,839.9 2,807.9 32.09 88.501 4,500.0 4,457.3 4,440.5 4,421.3 17.9 16.3 131.05 2,419.1 -735.2 2,850.6 2,817.8 32.84 86.803 4,600.0 4,555.9 4,539.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,861.3 2,827.7 33.59 85.182 4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,882.9 2,877.1 2,837.8 34.34 83.635 4,800.0 4,753.3 4,736.6 4,717.3 19.2 17.3 131.77 2,419.1 -735.2 2,889.9 2,877.9 35.84 80.739	3,300.0	3,273.0	2,908.9	2,877.9	12.6	10.7	127.48	2,328.8	-694.9	2,654.4	2,632.1	22.28	119.138		
3,600.0 3,569.1 3,181.4 3,165.4 14.0 11.8 128.09 2,365.7 -711.4 2,724.8 2,700.3 24.48 111.294 3,700.0 3,667.8 3,278.2 3,261.2 14.4 12.2 128.28 2,378.0 -716.9 2,748.3 2,723.0 25.24 108.888 3,800.0 3,766.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 26.45 104.766 3,900.0 3,865.1 3,801.8 3,782.5 15.3 14.2 129.44 2,418.6 -735.0 2,787.2 2,759.1 28.17 98.946  4,000.0 3,963.8 3,947.1 3,927.8 15.7 14.6 129.81 2,419.1 -735.2 2,797.8 2,768.7 29.09 96.190 4,100.0 4,062.5 4,045.8 4,026.5 16.1 15.0 130.06 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,161.2 4,144.5 4,125.2 16.6 15.3 130.31 2,419.1 -735.2 2,818.8 2,788.2 30.59 92.153 4,300.0 4,259.9 4,243.1 4,223.9 17.0 15.6 130.56 2,419.1 -735.2 2,829.3 2,798.0 31.34 90.282 4,400.0 4,358.6 4,341.8 4,322.6 17.5 16.0 130.80 2,419.1 -735.2 2,839.9 2,807.9 32.09 88.501  4,500.0 4,457.3 4,440.5 4,421.3 17.9 16.3 131.05 2,419.1 -735.2 2,850.6 2,817.8 32.84 86.803 4,600.0 4,555.9 4,539.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,850.6 2,817.8 32.84 86.803 4,600.0 4,555.9 4,539.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,850.6 2,817.8 32.84 86.803 4,800.0 4,753.3 4,736.6 4,717.3 19.2 17.3 131.77 2,419.1 -735.2 2,882.9 2,847.8 35.09 82.155 4,900.0 4,852.0 4,835.3 4,816.0 19.7 17.7 132.01 2,419.1 -735.2 2,882.9 2,847.8 35.09 82.155 4,900.0 4,855.0 4,835.3 4,816.0 19.7 17.7 132.01 2,419.1 -735.2 2,882.9 2,847.8 35.09 82.155	3,400.0	3,371.7	2,987.9	2,973.7	13.1	11.0	127.68	2,341.1	-700.4	2,677.8	2,654.9	22.97	116.580		
3,600.0 3,569.1 3,181.4 3,165.4 14.0 11.8 128.09 2,365.7 -711.4 2,724.8 2,700.3 24.48 111.294 3,700.0 3,667.8 3,278.2 3,261.2 14.4 12.2 128.28 2,378.0 -716.9 2,748.3 2,723.0 25.24 108.888 3,800.0 3,766.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 26.45 104.766 3,900.0 3,865.1 3,801.8 3,782.5 15.3 14.2 129.44 2,418.6 -735.0 2,787.2 2,759.1 28.17 98.946  4,000.0 3,963.8 3,947.1 3,927.8 15.7 14.6 129.81 2,419.1 -735.2 2,797.8 2,768.7 29.09 96.190 4,100.0 4,062.5 4,045.8 4,026.5 16.1 15.0 130.06 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,161.2 4,144.5 4,125.2 16.6 15.3 130.31 2,419.1 -735.2 2,818.8 2,788.2 30.59 92.153 4,300.0 4,259.9 4,243.1 4,223.9 17.0 15.6 130.56 2,419.1 -735.2 2,829.3 2,798.0 31.34 90.282 4,400.0 4,358.6 4,341.8 4,322.6 17.5 16.0 130.80 2,419.1 -735.2 2,839.9 2,807.9 32.09 88.501  4,500.0 4,457.3 4,440.5 4,421.3 17.9 16.3 131.05 2,419.1 -735.2 2,850.6 2,817.8 32.84 86.803 4,600.0 4,555.9 4,539.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,850.6 2,817.8 32.84 86.803 4,600.0 4,555.9 4,539.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,850.6 2,817.8 32.84 86.803 4,800.0 4,753.3 4,736.6 4,717.3 19.2 17.3 131.07 2,419.1 -735.2 2,882.9 2,847.8 35.09 82.155 4,900.0 4,852.0 4,835.3 4,816.0 19.7 17.7 132.01 2,419.1 -735.2 2,882.9 2,847.8 35.09 82.155 4,900.0 4,852.0 4,835.3 4,816.0 19.7 17.7 132.01 2,419.1 -735.2 2,882.9 2,847.8 35.09 82.155	3,500.0	3,470.4	3,084.7	3,069.6	13.5	11.4	127.89	2,353.4	-705.9	2,701.3	2,677.6	23.73	113.854		
3,700.0 3,667.8 3,278.2 3,261.2 14.4 12.2 128.28 2,378.0 -716.9 2,748.3 2,723.0 25.24 108.888 3,800.0 3,766.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 26.45 104.766 3,900.0 3,865.1 3,801.8 3,782.5 15.3 14.2 129.44 2,418.6 -735.0 2,787.2 2,759.1 28.17 98.946 4,000.0 3,963.8 3,947.1 3,927.8 15.7 14.6 129.81 2,419.1 -735.2 2,797.8 2,768.7 29.09 96.190 4,100.0 4,062.5 4,045.8 4,026.5 16.1 15.0 130.06 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,161.2 4,144.5 4,125.2 16.6 15.3 130.31 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,259.9 4,243.1 4,223.9 17.0 15.6 130.56 2,419.1 -735.2 2,829.3 2,798.0 31.34 90.282 4,400.0 4,358.6 4,341.8 4,322.6 17.5 16.0 130.80 2,419.1 -735.2 2,839.9 2,807.9 32.09 88.501 4,500.0 4,555.9 4,539.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,850.6 2,817.8 32.84 86.803 4,600.0 4,555.9 4,539.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,827.7 33.59 85.182 4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,829.9 2,847.8 35.09 82.155 4,900.0 4,852.0 4,835.3 4,816.0 19.7 17.7 132.01 2,419.1 -735.2 2,882.9 2,847.8 35.09 82.155 4,900.0 4,852.0 4,835.3 4,816.0 19.7 17.7 132.01 2,419.1 -735.2 2,883.8 2,857.9 35.84 80.739															
3,800.0 3,766.5 3,470.4 3,451.8 14.8 12.9 128.67 2,400.2 -726.8 2,771.1 2,744.7 26.45 104.766 3,900.0 3,865.1 3,801.8 3,782.5 15.3 14.2 129.44 2,418.6 -735.0 2,787.2 2,759.1 28.17 98.946 4,000.0 3,963.8 3,947.1 3,927.8 15.7 14.6 129.81 2,419.1 -735.2 2,787.8 2,768.7 29.09 96.190 4,100.0 4,062.5 4,045.8 4,026.5 16.1 15.0 130.06 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120 4,200.0 4,161.2 4,144.5 4,125.2 16.6 15.3 130.31 2,419.1 -735.2 2,818.8 2,788.2 30.59 92.153 4,300.0 4,259.9 4,243.1 4,223.9 17.0 15.6 130.56 2,419.1 -735.2 2,829.3 2,798.0 31.34 90.282 4,400.0 4,358.6 4,341.8 4,322.6 17.5 16.0 130.80 2,419.1 -735.2 2,839.9 2,807.9 32.09 88.501 4,500.0 4,457.3 4,440.5 4,421.3 17.9 16.3 131.05 2,419.1 -735.2 2,850.6 2,817.8 32.84 86.803 4,600.0 4,555.9 4,539.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,861.3 2,827.7 33.59 85.182 4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,882.9 2,847.8 35.09 82.155 4,900.0 4,855.0 4,835.3 4,816.0 19.7 17.7 132.01 2,419.1 -735.2 2,883.8 2,857.9 35.84 80.739															
3,900.0 3,865.1 3,801.8 3,782.5 15.3 14.2 129.44 2,418.6 -735.0 2,787.2 2,759.1 28.17 98.946  4,000.0 3,963.8 3,947.1 3,927.8 15.7 14.6 129.81 2,419.1 -735.2 2,797.8 2,768.7 29.09 96.190  4,100.0 4,062.5 4,045.8 4,026.5 16.1 15.0 130.06 2,419.1 -735.2 2,808.3 2,778.4 29.84 94.120  4,200.0 4,161.2 4,144.5 4,125.2 16.6 15.3 130.31 2,419.1 -735.2 2,818.8 2,788.2 30.59 92.153  4,300.0 4,259.9 4,243.1 4,223.9 17.0 15.6 130.56 2,419.1 -735.2 2,829.3 2,798.0 31.34 90.282  4,400.0 4,358.6 4,341.8 4,322.6 17.5 16.0 130.80 2,419.1 -735.2 2,839.9 2,807.9 32.09 88.501  4,500.0 4,457.3 4,440.5 4,421.3 17.9 16.3 131.05 2,419.1 -735.2 2,850.6 2,817.8 32.84 86.803  4,600.0 4,555.9 4,539.2 4,519.9 18.3 16.7 131.29 2,419.1 -735.2 2,861.3 2,827.7 33.59 85.182  4,700.0 4,654.6 4,637.9 4,618.6 18.8 17.0 131.53 2,419.1 -735.2 2,872.1 2,837.8 34.34 83.635  4,800.0 4,753.3 4,736.6 4,717.3 19.2 17.3 131.77 2,419.1 -735.2 2,882.9 2,847.8 35.09 82.155  4,900.0 4,852.0 4,835.3 4,816.0 19.7 17.7 132.01 2,419.1 -735.2 2,893.8 2,857.9 35.84 80.739															
4,100.0       4,062.5       4,045.8       4,026.5       16.1       15.0       130.06       2,419.1       -735.2       2,808.3       2,778.4       29.84       94.120         4,200.0       4,161.2       4,144.5       4,125.2       16.6       15.3       130.31       2,419.1       -735.2       2,818.8       2,788.2       30.59       92.153         4,300.0       4,259.9       4,243.1       4,223.9       17.0       15.6       130.56       2,419.1       -735.2       2,829.3       2,798.0       31.34       90.282         4,400.0       4,358.6       4,341.8       4,322.6       17.5       16.0       130.80       2,419.1       -735.2       2,839.9       2,807.9       32.09       88.501         4,500.0       4,457.3       4,440.5       4,421.3       17.9       16.3       131.05       2,419.1       -735.2       2,850.6       2,817.8       32.84       86.803         4,600.0       4,555.9       4,539.2       4,519.9       18.3       16.7       131.29       2,419.1       -735.2       2,861.3       2,827.7       33.59       85.182         4,700.0       4,654.6       4,637.9       4,618.6       18.8       17.0       131.53       2,419.1															
4,200.0       4,161.2       4,144.5       4,125.2       16.6       15.3       130.31       2,419.1       -735.2       2,818.8       2,788.2       30.59       92.153         4,300.0       4,259.9       4,243.1       4,223.9       17.0       15.6       130.56       2,419.1       -735.2       2,829.3       2,798.0       31.34       90.282         4,400.0       4,358.6       4,341.8       4,322.6       17.5       16.0       130.80       2,419.1       -735.2       2,839.9       2,807.9       32.09       88.501         4,500.0       4,457.3       4,440.5       4,421.3       17.9       16.3       131.05       2,419.1       -735.2       2,850.6       2,817.8       32.84       86.803         4,600.0       4,555.9       4,539.2       4,519.9       18.3       16.7       131.29       2,419.1       -735.2       2,861.3       2,827.7       33.59       85.182         4,700.0       4,654.6       4,637.9       4,618.6       18.8       17.0       131.53       2,419.1       -735.2       2,872.1       2,837.8       34.34       83.635         4,800.0       4,753.3       4,736.6       4,717.3       19.2       17.3       131.77       2,419.1	4,000.0	3,963.8	3,947.1	3,927.8	15.7	14.6	129.81	2,419.1	-735.2	2,797.8	2,768.7	29.09	96.190		
4,300.0       4,259.9       4,243.1       4,223.9       17.0       15.6       130.56       2,419.1       -735.2       2,829.3       2,798.0       31.34       90.282         4,400.0       4,358.6       4,341.8       4,322.6       17.5       16.0       130.80       2,419.1       -735.2       2,839.9       2,807.9       32.09       88.501         4,500.0       4,457.3       4,440.5       4,421.3       17.9       16.3       131.05       2,419.1       -735.2       2,850.6       2,817.8       32.84       86.803         4,600.0       4,555.9       4,539.2       4,519.9       18.3       16.7       131.29       2,419.1       -735.2       2,861.3       2,827.7       33.59       85.182         4,700.0       4,654.6       4,637.9       4,618.6       18.8       17.0       131.53       2,419.1       -735.2       2,872.1       2,837.8       34.34       83.635         4,800.0       4,753.3       4,736.6       4,717.3       19.2       17.3       131.77       2,419.1       -735.2       2,882.9       2,847.8       35.09       82.155         4,900.0       4,852.0       4,835.3       4,816.0       19.7       17.7       132.01       2,419.1	4,100.0	4,062.5	4,045.8	4,026.5	16.1	15.0	130.06	2,419.1	-735.2	2,808.3	2,778.4	29.84	94.120		
4,400.0       4,358.6       4,341.8       4,322.6       17.5       16.0       130.80       2,419.1       -735.2       2,839.9       2,807.9       32.09       88.501         4,500.0       4,457.3       4,440.5       4,421.3       17.9       16.3       131.05       2,419.1       -735.2       2,850.6       2,817.8       32.84       86.803         4,600.0       4,555.9       4,539.2       4,519.9       18.3       16.7       131.29       2,419.1       -735.2       2,861.3       2,827.7       33.59       85.182         4,700.0       4,654.6       4,637.9       4,618.6       18.8       17.0       131.53       2,419.1       -735.2       2,872.1       2,837.8       34.34       83.635         4,800.0       4,753.3       4,736.6       4,717.3       19.2       17.3       131.77       2,419.1       -735.2       2,882.9       2,847.8       35.09       82.155         4,900.0       4,852.0       4,835.3       4,816.0       19.7       17.7       132.01       2,419.1       -735.2       2,893.8       2,857.9       35.84       80.739	4,200.0	4,161.2	4,144.5	4,125.2	16.6	15.3	130.31	2,419.1	-735.2	2,818.8	2,788.2	30.59	92.153		
4,500.0       4,457.3       4,440.5       4,421.3       17.9       16.3       131.05       2,419.1       -735.2       2,850.6       2,817.8       32.84       86.803         4,600.0       4,555.9       4,539.2       4,519.9       18.3       16.7       131.29       2,419.1       -735.2       2,861.3       2,827.7       33.59       85.182         4,700.0       4,654.6       4,637.9       4,618.6       18.8       17.0       131.53       2,419.1       -735.2       2,872.1       2,837.8       34.34       83.635         4,800.0       4,753.3       4,736.6       4,717.3       19.2       17.3       131.77       2,419.1       -735.2       2,882.9       2,847.8       35.09       82.155         4,900.0       4,852.0       4,835.3       4,816.0       19.7       17.7       132.01       2,419.1       -735.2       2,893.8       2,857.9       35.84       80.739		4,259.9			17.0	15.6	130.56		-735.2	2,829.3		31.34	90.282		
4,600.0       4,555.9       4,539.2       4,519.9       18.3       16.7       131.29       2,419.1       -735.2       2,861.3       2,827.7       33.59       85.182         4,700.0       4,654.6       4,637.9       4,618.6       18.8       17.0       131.53       2,419.1       -735.2       2,872.1       2,837.8       34.34       83.635         4,800.0       4,753.3       4,736.6       4,717.3       19.2       17.3       131.77       2,419.1       -735.2       2,882.9       2,847.8       35.09       82.155         4,900.0       4,852.0       4,835.3       4,816.0       19.7       17.7       132.01       2,419.1       -735.2       2,893.8       2,857.9       35.84       80.739		4,358.6	4,341.8			16.0				2,839.9					
4,600.0       4,555.9       4,539.2       4,519.9       18.3       16.7       131.29       2,419.1       -735.2       2,861.3       2,827.7       33.59       85.182         4,700.0       4,654.6       4,637.9       4,618.6       18.8       17.0       131.53       2,419.1       -735.2       2,872.1       2,837.8       34.34       83.635         4,800.0       4,753.3       4,736.6       4,717.3       19.2       17.3       131.77       2,419.1       -735.2       2,882.9       2,847.8       35.09       82.155         4,900.0       4,852.0       4,835.3       4,816.0       19.7       17.7       132.01       2,419.1       -735.2       2,893.8       2,857.9       35.84       80.739	4,500.0	4,457.3	4,440.5	4,421.3	17.9	16.3	131.05	2,419.1	-735.2	2,850.6	2,817.8	32.84	86.803		
4,700.0       4,654.6       4,637.9       4,618.6       18.8       17.0       131.53       2,419.1       -735.2       2,872.1       2,837.8       34.34       83.635         4,800.0       4,753.3       4,736.6       4,717.3       19.2       17.3       131.77       2,419.1       -735.2       2,882.9       2,847.8       35.09       82.155         4,900.0       4,852.0       4,835.3       4,816.0       19.7       17.7       132.01       2,419.1       -735.2       2,893.8       2,857.9       35.84       80.739															
4,800.0     4,753.3     4,736.6     4,717.3     19.2     17.3     131.77     2,419.1     -735.2     2,882.9     2,847.8     35.09     82.155       4,900.0     4,852.0     4,835.3     4,816.0     19.7     17.7     132.01     2,419.1     -735.2     2,893.8     2,857.9     35.84     80.739															
4,900.0 4,852.0 4,835.3 4,816.0 19.7 17.7 132.01 2,419.1 -735.2 2,893.8 2,857.9 35.84 80.739															
5.000.0 4.950.7 4.933.9 4.914.7 20.1 18.0 132.24 2.419.1 -735.2 2.904.7 2.868.1 36.59 79.383															
The property of the property o	5,000.0	4,950.7	4,933.9	4,914.7	20.1	18.0	132.24	2,419.1	-735.2	2,904.7	2,868.1	36.59	79.383		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

KB @ 3377.5usft Grid

KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Servey   Part	Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #134H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
New														Offset Well Error:	0.0 usft
					-		Higheido	Offeet Wellhou	o Contro			Minimum	Sonaration	18/	
Second   S	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		Warning	
Section   School   School   School   Section	5,100.0	5,049.4	5,032.6	5,013.4	20.6	18.3	132.47	2,419.1	-735.2	2,915.7	2,878.3	37.34	78.083		
Section   School   School   School   School   Section	5,200.0	5,148.1	5,131.3	5,112.1	21.0	18.7	132.71	2,419.1	-735.2	2,926.7	2,888.6	38.09	76.836		
5,5000   5,444	5,300.0	5,246.7	5,230.0	5,210.7	21.4	19.0	132.94	2,419.1	-735.2	2,937.7	2,898.9	38.84	75.639		
Section   Sect	5,400.0	5,345.4	5,328.7	5,309.4	21.9	19.4	133.16	2,419.1	-735.2	2,948.9	2,909.3	39.59	74.489		
5,7000   5,641,5   5,624,7   5,605,5   23,2   20,4   133,84   2,419,1   735,2   2,882,5   2,940,6   41,83   71,296   5,600,5   5,700,2   5,700,2   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5   5,700,5	5,500.0	5,444.1	5,427.4	5,408.1	22.3	19.7	133.39	2,419.1	-735.2	2,960.0	2,919.7	40.34	73.383		
SAMON   SAMO															
5,000   6,389   5,822   6,802   241   211   194.8   2,410   736.2   3,006.1   2,807.8   44.37   68.40   6,000   6,035.7   5,820.8   5,901.5   2,65   214   134.8   2,410   736.2   3,007.9   2,861.1   44.22   67.54   6,000   6,134.9   6,118.2   6,000.2   25.0   21.8   134.72   2,410   736.2   3,007.9   2,863.1   44.22   67.54   6,000   6,134.0   6,118.2   6,000.8   25.4   22.1   134.93   2,410   736.2   3,008.9   3,004   40.31   66.87   6,000   6,333.6   6,216.9   6,107.6   20.0   22.5   135.14   2,410   736.2   3,008.9   3,004   40.31   66.87   6,000   6,333.6   6,316.9   6,000.2   23.8   23.3   23.5   7,2410   736.2   3,008.4   3,004   47.66   65.07   6,000   6,523.3   6,315.6   6,803.2   27.0   2.38   135.36   2,410   736.2   3,008.7   3,008.2   47.81   64.30   6,000   6,623.3   6,616.9   6,803.2   27.0   2.38   135.86   2,410   736.2   3,008.7   3,008.2   47.81   64.30   6,000   6,627.0   6,703.3   6,816.6   6,803.2   27.0   2.38   135.88   2,410   736.2   3,008.7   3,009.0   5,004   62.20   6,000   6,627.0   6,703.3   6,816.0   6,803.2   27.0   2.38   13.58   2,410   736.2   3,008.7   3,009.0   5,004   62.20   6,000   6,027.0   6,703.3   6,816.0   6,807.2   24.5   135.77   24.10   736.2   3,008.7   3,009.0   5,004   62.20   7,000   7,024.4   7,035.7   7,008.8   29.0   24.6   136.9   2,410   736.2   3,108.0   3,008.0   5,004   62.20   7,000   7,024.1   7,008.2   6,907.2   23.5   24.5   136.9   2,410   736.2   3,108.0   3,008.0   5,004   62.20   7,000   7,024.1   7,008.3   6,907.2   23.5   23.5   23.5   23.5   23.5   23.5   23.5   23.5   7,000   7,024.1   7,008.7   7,008.8   29.9   25.6   137.00   2,410   736.2   3,108.3   3,103.3   3,002   9,533   7,000   7,018.7   7,009   7,088.8   29.9   25.6   137.00   2,410   736.2   3,108.3   3,108.3   3,091.3   3,008.9   7,000   7,018.8   7,009   7,008.8   29.9   25.6   137.00   2,410   736.2   3,108.3   3,108.3   3,108.3   3,008.9   7,000   7,008.8   7,009   7,008.8   29.9   25.6   137.00   2,410   736.2   3,108.3   3,108.3   3,008.9   7,000   7,008.8   7,009   7,008															
6,000   6,087   5,080   8,000   2,000   2,000   2,000   2,000   2,000   2,411   1,460   2,4111   7,750   3,016   2,007   4,467   7,554   6,000   6,141   6,118   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,141   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,0															
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6,400   6,322   6,315.5   6,296.3   28.3   22.8   155.56   2,419.1   7-75.2   3,024.4   3,015.4   70.8   69.074															
6,500, 0, 6,431, 0, 6,414, 2, 6,386, 0, 28, 8, 231, 135,57 2, 24191, 735, 2, 3,074, 0, 3,072, 2, 4781, 64,302, 6,600, 0, 6,228, 0, 6,116, 0, 6,592, 3, 276, 23, 8, 135,77 2, 24191, 735, 2, 3,087, 3, 3,048, 0, 49,30, 62,830, 6,800, 0, 6,228, 3, 6,6116, 0, 6,592, 3, 276, 23, 8, 135,98 2, 2419, 1, 735, 2, 3,109, 3, 3,048, 0, 49,30, 62,830, 6,800, 0, 6,227, 0, 6,103, 0, 6,981, 0, 28, 5, 24, 138, 19, 2, 24, 19, 1, 735, 2, 3,109, 0, 3,099, 0, 50,04, 62,129, 1, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00, 0, 100,00,00, 0, 100,00,00, 0, 100,00,00, 0, 100,00,00, 0, 100,00,00, 0, 100,00,00, 0, 100,00,00, 0, 100,00,00,00, 0, 100,00,00,00,00,00															
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6,900.0         6,826.7         6,800.0         6,780.7         28.5         24.5         138.39         2,419.1         -735.2         3,120.8         3,070.0         50.79         6,145.0           7,000.0         7,023.1         7,006.3         6,887.1         29.4         25.2         138.80         2,419.1         -735.2         3,144.4         3,092.2         52.27         60.153           7,000.0         7,121.8         7,105.0         7,085.8         29.9         25.6         137.00         2,419.1         -735.2         3,146.3         3,502.5         59.533           7,200.0         7,224.4         7,237.7         7,184.4         30.3         22.9         137.19         2,419.1         -735.2         3,186.3         3,103.3         53.0         59.833           7,400.0         7,319.1         7,302.4         7,283.1         31.0         26.3         137.39         2,419.1         -735.2         3,186.2         3,156.5         54.50         58.347           7,400.0         7,314.7         7,448.4         31.0         26.3         137.99         2,419.1         -735.2         3,186.1         3,133.8         55.5         57.799           7,800.0         7,516.9         7,500.1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>															
70000         6,924.4         6,907.7         6,888.4         20.0         24.9         138.59         2,419.1         -735.2         3,132.6         3,081.1         51.53         60.792           7,100.0         7,023.1         7,006.3         6,987.1         29.4         25.2         138.80         2,419.1         -735.2         3,148.4         3,092.2         52.27         60.153           7,200.0         7,220.4         7,203.7         7,164.4         30.3         25.9         137.19         2,419.1         -735.2         3,168.2         3,114.4         53.76         58.33           7,300.0         7,220.4         7,203.7         7,164.4         30.3         25.9         137.19         2,419.1         -735.2         3,168.2         3,114.4         53.76         58.33           7,500.0         7,311.1         7,302.4         7,280.3         3,103.3         50.0         57.968         58.37           7,500.0         7,417.8         7,303.1         26.6         137.62         2,419.1         -735.2         3,103.3         50.0         57.968           7,500.0         7,516.9         7,500.5         7,500.3         3,16         27.0         137.90         2,419.1         -735.2         3,210															
7,1000         7,023.1         7,066.3         6,987.1         29.4         25.2         138.80         2,419.1         -735.2         3,144.4         3,092.2         52.7         60.163           7,2000         7,121.8         7,105.0         7,085.8         29.9         25.6         137.00         2,419.1         -735.2         3,150.3         3,103.3         53.72         86.932           7,400         7,220.4         7,283.1         30.7         7,83.1         30.7         28.3         137.39         2,419.1         -735.2         3,180.2         3,114.5         55.0         57.988           7,400.7         7,417.8         7,401.1         7,381.8         31.2         26.6         137.62         2,419.1         -735.2         3,180.2         3,155.6         55.0         57.988           7,500.0         7,417.8         7,401.1         7,381.8         31.2         26.6         137.62         2,419.1         -735.2         3,180.2         3,144.8         55.0         57.988           7,500.0         7,501.2         7,600.3         7,500.2         7,500.2         7,500.2         7,500.2         3,144.8         3,142.2         5,777.9           7,600.0         7,516.8         7,000.3         7															
7,200 0         7,121.8         7,106.0         7,085.8         29.9         25.6         137.00         2,419.1         -735.2         3,166.3         3,103.3         53.02         69,533           7,300.0         7,220.4         7,203.7         7,184.4         30.3         25.9         137.19         2,419.1         -735.2         3,186.2         3,114.4         53.76         68,932           7,400.0         7,348.7         7,388.0         7,348.7         310.0         26.5         137.52         2,419.1         -735.2         3,188.1         3,133.1         55.00         67,068           7,500.0         7,417.8         7,401.1         7,381.8         31.2         26.6         137.62         2,419.1         -735.2         3,188.1         3,133.1         55.00         67,068           7,600.0         7,516.9         7,500.1         7,480.9         31.6         27.0         31.81.2         2,419.1         -735.2         3,202.4         3,146.5         55.98         57.206           7,600.0         7,716.9         7,600.5         7,800.2         32.0         27.3         138.12         2,419.1         -735.2         3,217.5         3,160.1         57.43         66.021           7,800.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															
7,300.0         7,220.4         7,220.7         7,184.4         30.3         2.9         137.19         2,419.1         -735.2         3,168.2         3,116.5         54.90         59.932           7,400.5         7,339.1         7,320.4         7,283.1         30.7         26.3         137.39         2,419.1         -735.2         3,188.1         3,133.1         55.00         57.968           7,500.0         7,417.8         7,401.1         7,381.8         31.2         26.6         137.52         2,419.1         -735.2         3,188.1         3,133.1         55.00         57.968           7,500.0         7,518.9         7,500.1         7,480.9         31.6         27.0         137.90         2,419.1         -735.2         3,210.9         3,164.2         56.7         566.21           7,700.0         7,518.6         7,500.1         7,680.9         32.8         24.9         138.12         2,419.1         -735.2         3,217.5         3,164.2         56.71         566.21           7,800.0         7,715.8         7,700.9         7,679.8         32.4         27.7         138.29         2,419.1         -735.2         3,217.5         3,164.0         561.3         56.21           7,800.0         7,8							136.80	2,419.1		3,144.4					
7.400.0         7.319.1         7.302.4         7.283.1         30.7         26.3         137.39         2.419.1         -7.35.2         3.180.2         3.186.5         56.450         58.347           7.466.5         7.384.7         7.386.8         7.346.7         31.0         26.5         137.52         2.419.1         -7.35.2         3.188.1         3.13.1         55.0         67.988           7.500.0         7.471.8         7.401.1         7.381.8         31.2         2.66         137.62         2.419.1         -7.35.2         3.192.0         3.136.8         55.25         57.779           7.600.0         7.516.9         7.500.1         7.480.9         31.6         27.0         137.90         2.419.1         -7.35.2         3.202.4         3.146.5         55.98         57.206           7.700.0         7.616.2         7.500.0         7.715.8         7.700.9         7.690.3         32.4         2.191.1         -7.35.2         3.202.4         3.146.5         55.98         57.206           7.900.0         7.815.6         7.801.1         7.779.8         32.4         28.0         138.41         2.419.1         -7.35.2         3.221.5         3.160.0         58.13         54.29           8,000.0															
7.486.5         7.384.7         7.388.0         7.348.7         31.0         26.5         137.52         2.419.1         -735.2         3.188.1         3.133.1         55.00         57.988           7.500.0         7.471.8         7.401.1         7.381.8         31.2         26.6         137.62         2.419.1         -735.2         3.192.0         3.136.8         55.25         57.779           7.600.0         7.516.9         7.500.1         7.480.9         31.6         27.0         137.90         2.419.1         -735.2         3.219.9         3.164.2         56.71         56.621           7.600.0         7.518.6         7.600.1         7.480.9         31.8         2.2         2.7         138.29         2.419.1         -735.2         3.211.9         3.164.0         58.13         55.46           8,000.0         7.915.5         7.901.2         7.879.5         33.1         28.4         138.48         2.419.1         -735.2         3.224.8         3.160.0         58.83         54.817           8,000.0         7.915.5         7.901.2         7.895.3         3.9         2.67         -90.50         2.419.1         -735.2         3.225.5         3.166.0         59.40         54.299           8,100.0															
7,500.0 7,417.8 7,401.1 7,381.8 31.2 26.6 137.62 2,419.1 -735.2 3,192.0 3,136.8 55.25 57.779  7,600.0 7,516.9 7,500.1 7,480.9 31.6 27.0 137.90 2,419.1 -735.2 3,202.4 3,146.5 55.98 57.206  7,700.0 7,516.2 7,600.5 7,580.2 32.0 27.3 138.12 2,419.1 -735.2 3,202.4 3,146.5 55.98 57.206  7,700.0 7,516.8 7,709.9 7,679.8 32.4 27.7 138.29 2,419.1 -735.2 3,217.5 3,160.1 57.49 56.027  7,900.0 7,815.6 7,801.1 7,779.6 32.8 28.0 138.41 2,419.1 -735.2 3,222.1 3,160.0 58.13 55.426  8,000.0 7,915.5 7,901.2 7,879.5 33.1 28.4 138.48 2,419.1 -735.2 3,222.1 3,164.0 58.13 55.426  8,000.0 8,015.5 8,001.2 7,979.5 33.4 28.7 -0.69 2,419.1 -735.2 3,225.5 3,166.0 58.83 54.817  8,100.0 8,015.5 8,001.2 7,979.5 33.4 28.7 -0.59 2,419.1 -735.2 3,225.5 3,166.0 59.50 54.219  8,150.0 8,065.4 8,048.7 8,029.4 33.5 28.9 -90.55 2,419.1 -735.2 3,225.5 3,166.0 59.50 54.210  8,150.0 8,065.4 8,048.7 8,029.4 33.5 28.9 -90.55 2,419.1 -735.2 3,225.6 3,165.8 59.81 53.933  8,200.0 8,114.8 8,101.9 8,078.8 33.6 29.1 -90.68 2,419.1 -735.2 3,225.5 3,166.0 59.50 53.418  8,300.0 8,210.6 8,206.1 8,174.6 33.8 29.6 -91.39 2,419.1 -735.2 3,225.6 3,165.4 60.39 53.418  8,300.0 8,210.6 8,206.1 8,174.6 33.8 29.6 -91.39 2,419.1 -735.2 3,225.6 3,165.4 60.39 53.418  8,300.0 8,210.6 8,206.1 8,174.6 33.8 29.6 -91.99 2,419.1 -735.2 3,225.6 3,165.4 60.70 53.152  8,350.0 8,366.6 8,363.8 8,344.6 33.9 30.0 -92.27 2,419.1 -735.2 3,228.1 3,165.5 60.9 50.9 52.992  8,400.0 8,341.6 8,324.9 8,305.6 33.9 29.9 -91.99 2,419.1 -735.2 3,228.1 3,165.5 60.9 50.9 52.992  8,400.0 8,449.5 8,432.8 8,413.5 33.9 30.1 -92.51 2,419.1 -735.2 3,228.1 3,169.6 61.94 52.278  8,600.0 8,449.5 8,432.8 8,413.5 33.9 30.1 -92.51 2,419.1 -735.2 3,228.1 3,167.7 61.35 52.274  8,600.0 8,449.5 8,432.8 8,443.0 33.9 30.1 -92.51 2,419.1 -735.2 3,228.1 3,169.6 61.94 52.218  8,600.0 8,449.5 8,432.8 8,443.0 33.9 30.4 -92.77 2,419.1 -735.2 3,228.1 3,175.7 62.13 52.10  8,700.0 8,544.9 8,528.1 8,508.9 33.8 30.6 -92.37 2,419.1 -735.2 3,228.9 3,189.6 62.7 51.941  8,600.0 8,544.9 8,582.1 8,509.0 33.7 30.7 -90.00 2,419.1 -735.2 3,22															
7,6000         7,516.9         7,500.1         7,480.9         31.6         27.0         137.90         2,419.1         -735.2         3,202.4         3,146.5         56.98         57.206           7,700.0         7,616.2         7,600.5         7,580.2         32.0         27.3         138.12         2,419.1         -735.2         3,210.9         3,154.2         56.71         56.021           7,800.0         7,715.8         7,700.9         7,678.8         32.4         27.7         138.29         2,419.1         -735.2         3,217.5         3,160.1         57.43         56.027           7,900.0         7,815.5         7,901.2         7,879.5         33.1         28.4         138.48         2,419.1         -735.2         3,221.1         3,166.0         58.13         54.417           8,066.5         8,002.0         7,985.3         7,966.0         33.3         28.7         -0.69         2,419.1         -735.2         3,225.5         3,166.1         59.40         54.219           8,150.0         8,065.4         8,048.7         8,029.4         33.5         28.9         -90.55         2,419.1         -735.2         3,225.5         3,166.1         59.4         54.210           8,150.0         8,1															
7,700.0         7,616.2         7,800.5         7,800.2         32.0         27.3         188.12         2,419.1         -735.2         3,210.9         3,154.2         56.71         56.621           7,800.0         7,715.8         7,700.9         7,679.8         32.4         2.7.7         138.29         2,419.1         -735.2         3,217.5         3,160.1         57.43         56.027           7,900.0         7,815.6         7,801.1         7,779.6         32.8         28.0         188.41         2,419.1         -735.2         3,224.8         3,166.0         58.13         55.426           8,000.0         7,915.5         7,901.2         7,879.5         33.1         28.4         138.48         2,419.1         -735.2         3,225.5         3,166.0         58.83         54.817           8,000.0         7,915.5         30.01.2         7,979.5         33.4         28.7         -90.50         2,419.1         -735.2         3,225.5         3,166.0         59.50         54.210           8,100.0         8,114.8         8,101.9         8,078.8         33.6         29.1         -90.87         2,419.1         -735.2         3,225.5         3,165.5         60.12         53.654           8,200.0 <td< td=""><td>7,500.0</td><td>7,417.8</td><td>7,401.1</td><td>7,381.8</td><td>31.2</td><td>26.6</td><td>137.62</td><td>2,419.1</td><td>-735.2</td><td>3,192.0</td><td>3,136.8</td><td>55.25</td><td>57.779</td><td></td><td></td></td<>	7,500.0	7,417.8	7,401.1	7,381.8	31.2	26.6	137.62	2,419.1	-735.2	3,192.0	3,136.8	55.25	57.779		
7,800.0         7,715.8         7,700.9         7,678.8         32.4         2.7         138.29         2,419.1         -735.2         3,217.5         3,160.0         57.43         56.027           7,900.0         7,815.6         7,801.1         7,779.6         32.8         28.0         138.41         2,419.1         -735.2         3,224.8         3,166.0         58.83         54.817           8,000.0         7,915.5         7,901.2         7,879.5         33.1         28.4         138.48         2,419.1         -735.2         3,224.8         3,166.0         58.83         54.817           8,000.0         8,015.5         8,001.2         7,979.5         33.4         28.7         -0.69         2,419.1         -735.2         3,225.5         3,166.0         59.0         54.299           8,100.0         8,015.5         8,001.2         7,979.5         33.4         28.7         -0.69         2,419.1         -735.2         3,225.5         3,166.0         59.0         54.210           8,150.0         8,065.4         8,048.7         8,029.4         33.5         28.9         -90.55         2,419.1         -735.2         3,225.6         3,166.0         59.0         54.210           8,250.0         8,163.															
7,900 0         7,815.6         7,801.1         7,779.6         32.8         28.0         138.41         2,419.1         -735.2         3,222.1         3,164.0         58.13         55.426           8,000.0         7,915.5         7,901.2         7,879.5         33.1         28.4         138.48         2,419.1         -735.2         3,222.1         3,166.0         58.83         54.817           8,006.5         8,002.0         7,986.3         7,996.5         33.4         28.7         -90.50         2,419.1         -735.2         3,225.5         3,166.0         59.50         54.210           8,150.0         8,065.4         8,048.7         8,029.4         33.5         28.9         -90.55         2,419.1         -735.2         3,225.5         3,166.0         59.50         54.210           8,150.0         8,065.4         8,048.7         8,029.4         33.5         28.9         -90.55         2,419.1         -735.2         3,225.5         3,165.5         60.12         53.654           8,250.0         8,148.8         8,104.6         8,127.3         33.7         29.2         -90.87         2,419.1         -735.2         3,225.8         3,165.4         60.70         53.152           8,300.0							138.12	2,419.1			3,154.2	56.71			
8,000.0         7,915.5         7,901.2         7,879.5         33.1         28.4         138.48         2,419.1         -735.2         3,224.8         3,166.0         58.83         54.817           8,086.5         8,002.0         7,985.3         7,966.0         33.3         28.7         -0.69         2,419.1         -735.2         3,225.5         3,166.1         59.40         54.299           8,100.0         8,015.5         8,001.2         7,997.5         33.4         28.7         -90.50         2,419.1         -735.2         3,225.5         3,166.0         59.50         54.210           8,150.0         8,065.4         8,048.7         8,029.4         33.5         28.9         -90.55         2,419.1         -735.2         3,225.6         3,165.5         60.12         53.833           8,250.0         8,163.3         8,146.6         8,127.3         33.7         29.2         -90.87         2,419.1         -735.2         3,225.6         3,165.4         60.39         53.418           8,300.0         8,216.6         8,206.1         8,174.6         33.8         29.5         -91.11         2,419.1         -735.2         3,226.6         3,165.4         60.70         53.152           8,350.0         8															
8,086.5         8,002.0         7,985.3         7,966.0         33.3         28.7         -0.69         2,419.1         -735.2         3,225.5         3,166.1         59.40         54.299           8,100.0         8,015.5         8,001.2         7,979.5         33.4         28.7         -90.50         2,419.1         -735.2         3,225.5         3,166.0         59.50         54.210           8,150.0         8,065.4         8,048.7         8,029.4         33.5         28.9         -90.55         2,419.1         -735.2         3,225.6         3,165.8         59.81         53.933           8,200.0         8,144.8         8,101.9         8,078.8         33.6         29.1         -90.68         2,419.1         -735.2         3,225.8         3,165.4         60.39         53.418           8,300.0         8,210.6         8,206.1         8,174.6         33.8         29.5         -91.11         2,419.1         -735.2         3,226.6         3,165.4         60.70         53.152           8,350.0         8,263.3         8,234.8         8,264.1         33.9         29.7         -91.69         2,419.1         -735.2         3,226.6         3,165.4         60.70         52.93           8,400.0         8,															
8,100.0 8,015.5 8,001.2 7,979.5 33.4 28.7 -90.50 2,419.1 -735.2 3,225.5 3,166.0 59.50 54.210 8,150.0 8,065.4 8,048.7 8,029.4 33.5 28.9 -90.55 2,419.1 -735.2 3,225.6 3,165.8 59.81 59.93 8,200.0 8,114.8 8,101.9 8,078.8 33.6 29.1 -90.68 2,419.1 -735.2 3,225.7 3,165.5 60.12 53.654 8,250.0 8,163.3 8,146.6 8,127.3 33.7 29.2 -90.87 2,419.1 -735.2 3,225.8 3,165.4 60.39 53.418 8,300.0 8,210.6 8,206.1 8,174.6 33.8 29.5 -91.11 2,419.1 -735.2 3,225.8 3,165.4 60.39 53.418 8,300.0 8,265.3 8,239.6 8,220.3 33.8 29.6 -91.39 2,419.1 -735.2 3,226.6 3,165.7 60.90 52.962 8,400.0 8,300.1 8,283.4 8,264.1 33.9 29.7 -91.69 2,419.1 -735.2 3,226.6 3,165.7 60.90 52.962 8,400.0 8,301.1 8,283.4 8,264.1 33.9 29.7 -91.69 2,419.1 -735.2 3,228.4 3,167.1 61.35 52.625 8,500.0 8,380.6 8,363.8 8,344.6 33.9 30.0 -92.27 2,419.1 -735.2 3,228.4 3,167.1 61.35 52.625 8,500.0 8,416.6 8,400.1 8,380.6 33.9 30.1 -92.51 2,419.1 -735.2 3,229.9 3,168.4 61.55 52.474 8,550.0 8,416.6 8,400.1 8,380.6 33.9 30.4 -92.79 2,419.1 -735.2 3,231.9 3,170.2 61.75 52.338 8,600.0 8,449.5 8,432.8 8,413.5 33.9 30.4 -92.79 2,419.1 -735.2 3,234.6 3,172.6 61.94 52.218 8,650.0 8,479.0 8,462.2 8,443.0 33.9 30.4 -92.79 2,419.1 -735.2 3,234.6 3,172.6 61.94 52.218 8,650.0 8,560.8 8,580.8 8,584.8 8,483.8 33.9 30.4 -92.77 2,419.1 -735.2 3,234.6 3,175.7 62.13 52.110 8,700.0 8,564.8 8,488.1 8,468.8 33.9 30.4 -92.77 2,419.1 -735.2 3,234.6 3,175.5 62.33 52.012 8,750.0 8,566.9 8,510.1 8,490.9 33.8 30.6 -92.37 2,419.1 -735.2 3,226.3 3,188.6 62.74 51.841 8,850.0 8,564.9 8,551.7 8,532.4 33.7 30.7 -91.37 2,419.1 -735.2 3,226.2 3,200.0 63.18 51.700 8,950.0 8,568.4 8,551.7 8,532.4 33.7 30.7 -91.37 2,419.1 -735.2 3,226.9 3,119.0 63.40 51.643 8,980.5 8,575.0 8,558.2 8,539.0 33.7 30.7 -90.00 2,419.1 -735.2 3,220.9 3,217.3 63.57 51.608															
8,150.0         8,065.4         8,048.7         8,029.4         33.5         28.9         -90.55         2,419.1         -735.2         3,225.6         3,165.8         59.81         53.933           8,200.0         8,114.8         8,101.9         8,078.8         33.6         29.1         -90.68         2,419.1         -735.2         3,225.8         3,165.5         60.12         53.664           8,250.0         8,103.3         8,146.6         8,127.3         33.7         29.2         -90.87         2,419.1         -735.2         3,225.8         3,165.4         60.79         53.418           8,300.0         8,210.6         8,206.1         8,174.6         33.8         29.5         -91.11         2,419.1         -735.2         3,226.6         3,165.7         60.90         52.982           8,350.0         8,256.3         8,239.6         8,220.3         33.8         29.6         -91.39         2,419.1         -735.2         3,226.6         3,165.7         60.90         52.982           8,450.0         8,341.6         8,324.9         8,056.6         33.9         29.7         -91.69         2,419.1         -735.2         3,228.4         3,167.1         61.35         52.625           8,500.0															
8,200.0         8,114.8         8,101.9         8,078.8         33.6         29.1         -90.68         2,419.1         -735.2         3,225.7         3,165.5         60.12         53.654           8,250.0         8,163.3         8,146.6         8,127.3         33.7         29.2         -90.87         2,419.1         -735.2         3,225.8         3,165.4         60.39         53.418           8,300.0         8,210.6         8,206.1         8,174.6         33.8         29.5         -91.11         2,419.1         -735.2         3,226.6         3,165.4         60.70         53.152           8,350.0         8,266.3         8,239.6         8,220.3         33.8         29.6         -91.39         2,419.1         -735.2         3,226.6         3,165.7         60.90         52.982           8,450.0         8,301.6         8,324.9         8,305.6         33.9         29.7         -91.69         2,419.1         -735.2         3,228.4         3,167.1         61.35         52.625           8,500.0         8,341.6         8,324.9         8,390.6         33.9         30.0         -92.27         2,419.1         -735.2         3,231.9         3,170.2         61.75         52.338           8,600.0															
8,250.0       8,163.3       8,146.6       8,127.3       33.7       29.2       -90.87       2,419.1       -735.2       3,225.8       3,165.4       60.39       53.418         8,300.0       8,210.6       8,206.1       8,174.6       33.8       29.5       -91.11       2,419.1       -735.2       3,226.6       3,165.7       60.90       52.982         8,400.0       8,300.1       8,283.4       8,264.1       33.9       29.7       -91.69       2,419.1       -735.2       3,226.6       3,165.7       60.90       52.982         8,450.0       8,341.6       8,324.9       8,305.6       33.9       29.9       -91.99       2,419.1       -735.2       3,228.4       3,167.1       61.35       52.625         8,500.0       8,380.6       8,363.8       8,344.6       33.9       30.0       -92.27       2,419.1       -735.2       3,229.9       3,168.4       61.55       52.474         8,550.0       8,416.6       8,400.1       8,380.6       33.9       30.1       -92.51       2,419.1       -735.2       3,231.9       3,170.2       61.75       52.338         8,650.0       8,449.5       8,432.8       8,413.5       33.9       30.4       -92.77       2,419.1															
8,350.0       8,256.3       8,239.6       8,220.3       33.8       29.6       -91.39       2,419.1       -735.2       3,226.6       3,165.7       60.90       52.982         8,400.0       8,300.1       8,283.4       8,264.1       33.9       29.7       -91.69       2,419.1       -735.2       3,227.3       3,166.2       61.13       52.794         8,450.0       8,341.6       8,324.9       8,305.6       33.9       29.9       -91.99       2,419.1       -735.2       3,228.4       3,167.1       61.35       52.625         8,500.0       8,380.6       8,363.8       8,344.6       33.9       30.0       -92.27       2,419.1       -735.2       3,229.9       3,168.4       61.55       52.474         8,550.0       8,416.6       8,400.1       8,380.6       33.9       30.1       -92.51       2,419.1       -735.2       3,231.9       3,170.2       61.75       52.338         8,600.0       8,449.5       8,432.8       8,413.5       33.9       30.4       -92.79       2,419.1       -735.2       3,237.8       3,175.7       62.13       52.110         8,700.0       8,504.8       8,488.1       8,468.8       33.9       30.4       -92.77       2,419.1															
8,350.0       8,256.3       8,239.6       8,220.3       33.8       29.6       -91.39       2,419.1       -735.2       3,226.6       3,165.7       60.90       52.982         8,400.0       8,300.1       8,283.4       8,264.1       33.9       29.7       -91.69       2,419.1       -735.2       3,227.3       3,166.2       61.13       52.794         8,450.0       8,341.6       8,324.9       8,305.6       33.9       29.9       -91.99       2,419.1       -735.2       3,228.4       3,167.1       61.35       52.625         8,500.0       8,380.6       8,363.8       8,344.6       33.9       30.0       -92.27       2,419.1       -735.2       3,229.9       3,168.4       61.55       52.474         8,550.0       8,416.6       8,400.1       8,380.6       33.9       30.1       -92.51       2,419.1       -735.2       3,231.9       3,170.2       61.75       52.338         8,600.0       8,449.5       8,432.8       8,413.5       33.9       30.4       -92.79       2,419.1       -735.2       3,237.8       3,175.7       62.13       52.110         8,700.0       8,504.8       8,488.1       8,468.8       33.9       30.4       -92.77       2,419.1	8,300.0	8,210.6	8,206.1	8,174.6	33.8	29.5	-91.11	2,419.1	-735.2	3,226.1	3,165.4	60.70	53.152		
8,400.0       8,300.1       8,283.4       8,264.1       33.9       29.7       -91.69       2,419.1       -735.2       3,227.3       3,166.2       61.13       52.794         8,450.0       8,341.6       8,324.9       8,305.6       33.9       29.9       -91.99       2,419.1       -735.2       3,228.4       3,167.1       61.35       52.625         8,500.0       8,380.6       8,363.8       8,344.6       33.9       30.0       -92.27       2,419.1       -735.2       3,229.9       3,168.4       61.55       52.474         8,550.0       8,416.6       8,400.1       8,380.6       33.9       30.1       -92.51       2,419.1       -735.2       3,231.9       3,170.2       61.75       52.338         8,600.0       8,449.5       8,432.8       8,413.5       33.9       30.3       -92.69       2,419.1       -735.2       3,231.9       3,170.2       61.75       52.338         8,650.0       8,479.0       8,462.2       8,443.0       33.9       30.4       -92.79       2,419.1       -735.2       3,237.8       3,175.7       62.13       52.110         8,750.0       8,504.8       8,488.1       8,468.8       33.9       30.4       -92.77       2,419.1															
8,500.0       8,380.6       8,363.8       8,344.6       33.9       30.0       -92.27       2,419.1       -735.2       3,229.9       3,168.4       61.55       52.474         8,550.0       8,416.6       8,400.1       8,380.6       33.9       30.1       -92.51       2,419.1       -735.2       3,231.9       3,170.2       61.75       52.338         8,600.0       8,449.5       8,432.8       8,413.5       33.9       30.3       -92.69       2,419.1       -735.2       3,234.6       3,172.6       61.94       52.218         8,650.0       8,479.0       8,462.2       8,443.0       33.9       30.4       -92.79       2,419.1       -735.2       3,237.8       3,175.7       62.13       52.110         8,700.0       8,504.8       8,488.1       8,468.8       33.9       30.4       -92.77       2,419.1       -735.2       3,241.9       3,179.5       62.33       52.012         8,750.0       8,526.9       8,510.1       8,490.9       33.8       30.5       -92.64       2,419.1       -735.2       3,252.3       3,189.6       62.74       51.841         8,850.0       8,544.9       8,528.1       8,508.9       33.8       30.6       -92.37       2,419.1															
8,550.0 8,416.6 8,400.1 8,380.6 33.9 30.1 -92.51 2,419.1 -735.2 3,231.9 3,170.2 61.75 52.338 8,600.0 8,449.5 8,432.8 8,413.5 33.9 30.3 -92.69 2,419.1 -735.2 3,234.6 3,172.6 61.94 52.218 8,650.0 8,479.0 8,462.2 8,443.0 33.9 30.4 -92.79 2,419.1 -735.2 3,237.8 3,175.7 62.13 52.110 8,700.0 8,504.8 8,488.1 8,468.8 33.9 30.4 -92.77 2,419.1 -735.2 3,241.9 3,179.5 62.33 52.012 8,750.0 8,526.9 8,510.1 8,490.9 33.8 30.5 -92.64 2,419.1 -735.2 3,246.7 3,184.1 62.53 51.923 8,800.0 8,544.9 8,528.1 8,508.9 33.8 30.6 -92.37 2,419.1 -735.2 3,252.3 3,189.6 62.74 51.841 8,850.0 8,558.8 8,542.0 8,522.8 33.8 30.6 -91.95 2,419.1 -735.2 3,258.8 3,195.9 62.95 51.767 8,900.0 8,568.4 8,551.7 8,532.4 33.7 30.7 -90.64 2,419.1 -735.2 3,266.2 3,203.0 63.18 51.700 8,950.0 8,573.8 8,557.1 8,537.8 33.7 30.7 -90.64 2,419.1 -735.2 3,274.4 3,211.0 63.40 51.643 8,986.5 8,575.0 8,558.2 8,539.0 33.7 30.7 -90.00 2,419.1 -735.2 3,280.9 3,217.3 63.57 51.608	8,450.0	8,341.6	8,324.9	8,305.6	33.9	29.9	-91.99	2,419.1	-735.2	3,228.4	3,167.1	61.35	52.625		
8,600.0       8,449.5       8,432.8       8,413.5       33.9       30.3       -92.69       2,419.1       -735.2       3,234.6       3,172.6       61.94       52.218         8,650.0       8,479.0       8,462.2       8,443.0       33.9       30.4       -92.79       2,419.1       -735.2       3,237.8       3,175.7       62.13       52.110         8,700.0       8,504.8       8,488.1       8,468.8       33.9       30.4       -92.77       2,419.1       -735.2       3,241.9       3,179.5       62.33       52.012         8,750.0       8,526.9       8,510.1       8,490.9       33.8       30.5       -92.64       2,419.1       -735.2       3,246.7       3,184.1       62.53       51.923         8,800.0       8,544.9       8,528.1       8,508.9       33.8       30.6       -92.37       2,419.1       -735.2       3,252.3       3,189.6       62.74       51.841         8,850.0       8,558.8       8,542.0       8,522.8       33.8       30.6       -91.95       2,419.1       -735.2       3,258.8       3,195.9       62.95       51.767         8,900.0       8,568.4       8,551.7       8,532.4       33.7       30.7       -91.37       2,419.1	8,500.0	8,380.6	8,363.8	8,344.6	33.9	30.0	-92.27	2,419.1	-735.2	3,229.9	3,168.4	61.55	52.474		
8,600.0       8,449.5       8,432.8       8,413.5       33.9       30.3       -92.69       2,419.1       -735.2       3,234.6       3,172.6       61.94       52.218         8,650.0       8,479.0       8,462.2       8,443.0       33.9       30.4       -92.79       2,419.1       -735.2       3,237.8       3,175.7       62.13       52.110         8,700.0       8,504.8       8,488.1       8,468.8       33.9       30.4       -92.77       2,419.1       -735.2       3,241.9       3,179.5       62.33       52.012         8,750.0       8,526.9       8,510.1       8,490.9       33.8       30.5       -92.64       2,419.1       -735.2       3,246.7       3,184.1       62.53       51.923         8,800.0       8,544.9       8,528.1       8,508.9       33.8       30.6       -92.37       2,419.1       -735.2       3,252.3       3,189.6       62.74       51.841         8,850.0       8,558.8       8,542.0       8,522.8       33.8       30.6       -91.95       2,419.1       -735.2       3,258.8       3,195.9       62.95       51.767         8,900.0       8,568.4       8,551.7       8,532.4       33.7       30.7       -91.37       2,419.1	8,550.0	8,416.6	8,400.1	8,380.6	33.9	30.1	-92.51	2,419.1	-735.2	3,231.9	3,170.2	61.75	52.338		
8,700.0       8,504.8       8,488.1       8,468.8       33.9       30.4       -92.77       2,419.1       -735.2       3,241.9       3,179.5       62.33       52.012         8,750.0       8,526.9       8,510.1       8,490.9       33.8       30.5       -92.64       2,419.1       -735.2       3,246.7       3,184.1       62.53       51.923         8,800.0       8,544.9       8,528.1       8,508.9       33.8       30.6       -92.37       2,419.1       -735.2       3,252.3       3,189.6       62.74       51.841         8,850.0       8,558.8       8,542.0       8,522.8       33.8       30.6       -91.95       2,419.1       -735.2       3,258.8       3,195.9       62.95       51.767         8,900.0       8,568.4       8,551.7       8,532.4       33.7       30.7       -91.37       2,419.1       -735.2       3,266.2       3,203.0       63.18       51.700         8,950.0       8,573.8       8,557.1       8,537.8       33.7       30.7       -90.64       2,419.1       -735.2       3,280.9       3,217.3       63.40       51.608         8,986.5       8,575.0       8,558.2       8,539.0       33.7       30.7       -90.00       2,419.1	8,600.0	8,449.5	8,432.8	8,413.5	33.9		-92.69		-735.2	3,234.6		61.94	52.218		
8,750.0       8,526.9       8,510.1       8,490.9       33.8       30.5       -92.64       2,419.1       -735.2       3,246.7       3,184.1       62.53       51.923         8,800.0       8,544.9       8,528.1       8,508.9       33.8       30.6       -92.37       2,419.1       -735.2       3,252.3       3,189.6       62.74       51.841         8,850.0       8,558.8       8,542.0       8,522.8       33.8       30.6       -91.95       2,419.1       -735.2       3,258.8       3,195.9       62.95       51.767         8,900.0       8,568.4       8,551.7       8,532.4       33.7       30.7       -91.37       2,419.1       -735.2       3,266.2       3,203.0       63.18       51.700         8,950.0       8,573.8       8,557.1       8,537.8       33.7       30.7       -90.64       2,419.1       -735.2       3,280.9       3,217.3       63.40       51.643         8,986.5       8,575.0       8,558.2       8,539.0       33.7       30.7       -90.00       2,419.1       -735.2       3,280.9       3,217.3       63.57       51.608	8,650.0	8,479.0	8,462.2	8,443.0	33.9	30.4	-92.79		-735.2	3,237.8		62.13	52.110		
8,800.0       8,544.9       8,528.1       8,508.9       33.8       30.6       -92.37       2,419.1       -735.2       3,252.3       3,189.6       62.74       51.841         8,850.0       8,558.8       8,542.0       8,522.8       33.8       30.6       -91.95       2,419.1       -735.2       3,258.8       3,195.9       62.95       51.767         8,900.0       8,568.4       8,551.7       8,532.4       33.7       30.7       -91.37       2,419.1       -735.2       3,266.2       3,203.0       63.18       51.700         8,950.0       8,573.8       8,557.1       8,537.8       33.7       30.7       -90.64       2,419.1       -735.2       3,274.4       3,211.0       63.40       51.643         8,986.5       8,575.0       8,558.2       8,539.0       33.7       30.7       -90.00       2,419.1       -735.2       3,280.9       3,217.3       63.57       51.608	8,700.0	8,504.8	8,488.1	8,468.8	33.9	30.4	-92.77	2,419.1	-735.2	3,241.9	3,179.5	62.33	52.012		
8,850.0       8,558.8       8,542.0       8,522.8       33.8       30.6       -91.95       2,419.1       -735.2       3,258.8       3,195.9       62.95       51.767         8,900.0       8,568.4       8,551.7       8,532.4       33.7       30.7       -91.37       2,419.1       -735.2       3,266.2       3,203.0       63.18       51.700         8,950.0       8,573.8       8,557.1       8,537.8       33.7       30.7       -90.64       2,419.1       -735.2       3,274.4       3,211.0       63.40       51.643         8,986.5       8,575.0       8,558.2       8,539.0       33.7       30.7       -90.00       2,419.1       -735.2       3,280.9       3,217.3       63.57       51.608	8,750.0	8,526.9	8,510.1	8,490.9	33.8	30.5	-92.64	2,419.1	-735.2	3,246.7	3,184.1	62.53	51.923		
8,850.0       8,558.8       8,542.0       8,522.8       33.8       30.6       -91.95       2,419.1       -735.2       3,258.8       3,195.9       62.95       51.767         8,900.0       8,568.4       8,551.7       8,532.4       33.7       30.7       -91.37       2,419.1       -735.2       3,266.2       3,203.0       63.18       51.700         8,950.0       8,573.8       8,557.1       8,537.8       33.7       30.7       -90.64       2,419.1       -735.2       3,274.4       3,211.0       63.40       51.643         8,986.5       8,575.0       8,558.2       8,539.0       33.7       30.7       -90.00       2,419.1       -735.2       3,280.9       3,217.3       63.57       51.608	8,800.0	8,544.9	8,528.1	8,508.9	33.8	30.6	-92.37	2,419.1	-735.2	3,252.3	3,189.6	62.74	51.841		
8,900.0     8,568.4     8,551.7     8,532.4     33.7     30.7     -91.37     2,419.1     -735.2     3,266.2     3,203.0     63.18     51.700       8,950.0     8,573.8     8,557.1     8,537.8     33.7     30.7     -90.64     2,419.1     -735.2     3,274.4     3,211.0     63.40     51.643       8,986.5     8,575.0     8,558.2     8,539.0     33.7     30.7     -90.00     2,419.1     -735.2     3,280.9     3,217.3     63.57     51.608															
8,950.0     8,573.8     8,557.1     8,537.8     33.7     30.7     -90.64     2,419.1     -735.2     3,274.4     3,211.0     63.40     51.643       8,986.5     8,575.0     8,558.2     8,539.0     33.7     30.7     -90.00     2,419.1     -735.2     3,280.9     3,217.3     63.57     51.608															
												63.40			
8,993.2 8,575.0 8,558.2 8,539.0 33.8 30.7 -90.00 2,419.1 -735.2 3,282.1 3,218.5 63.60 51.603		8,575.0	8,558.2	8,539.0	33.7	30.7	-90.00		-735.2	3,280.9	3,217.3	63.57	51.608		
	8,993.2	8,575.0	8,558.2	8,539.0	33.8	30.7	-90.00	2,419.1	-735.2	3,282.1	3,218.5	63.60	51.603		

Company: Matador Production Company

Project: Ranger/Arrowhead

Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

Well Simon Camamile Fed Com #126H

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Name	Offset Well Error: Warning	0.0 us
	Warning	
9,100 8,575 0 8,558 2 8,539 0 33.9 30.7 -90.00 2,419.1 -735.2 3,303.8 3,236 64.18 51.478 9,200 8,575 0 8,558 2 8,539 0 36.3 30.7 -90.00 2,419.1 -735.2 3,335.2 3,287.6 65.0 51.116 9,400 8,575 0 8,558 2 8,539 0 36.3 30.7 -90.00 2,419.1 -735.2 3,332.3 3,315.6 68.45 50.899 9,500 8,575 0 8,558 2 8,539 0 37.6 90.00 2,419.1 -735.2 3,332.0 3,315.6 68.45 50.899 9,500 8,575 0 8,558 2 8,539 0 37.6 90.00 2,419.1 -735.2 3,332.0 3,315.6 68.45 50.899 9,500 8,575 0 8,558 2 8,539 0 37.6 90.00 2,419.1 -735.2 3,443.7 3,384.0 79.74 43.188 9,500 8,575 0 8,558 2 8,539 0 37.6 90.00 2,419.1 -735.2 3,443.7 3,384.2 67.36 50.879 9,500 8,575 0 10,605.6 9,525.2 38.9 43.5 1-106.64 2,495.9 475.2 3,443.7 3,384.0 79.74 43.188 9,500 8,575 0 10,605.6 9,526.3 40.4 45.0 1-106.66 2,406.0 575.2 3,444.4 3,361.4 82.63 41.882 9,500 8,575.0 10,605.6 9,526.3 40.4 45.0 1-106.66 2,406.0 575.2 3,444.4 3,365.7 85.6 8 40.202 9,900.0 8,575.0 10,605.5 9,528.5 43.6 48.4 106.70 2,496.3 775.2 3,444.7 3,355.8 88.87 36.761 10,000 8,575.0 10,505.5 9,529.7 45.3 50.1 1-106.71 2,496.4 875.2 3,445.0 3,322.8 92.20 37.366 10,100.5 9,530.8 47.0 52.0 1-106.71 2,496.4 875.2 3,445.0 3,345.5 99.19 34.739 10,300 8,575.0 11,005.5 9,531.9 48.9 53.8 1-106.75 2,496.6 10,752.2 3,445.7 3,3445.9 95.64 36.024 10,200 8,575.0 11,205.5 9,531.9 48.9 53.8 1-106.75 2,496.6 10,752.2 3,445.7 3,3445.9 95.64 50.24 10,200 8,575.0 11,205.5 9,534.2 52.7 5.77 1-106.87 2,496.8 11,175.1 3,446.0 3,343.2 102.83 33513 10,400.0 8,575.0 11,605.5 9,534.2 52.7 5.77 1-106.87 2,496.8 11,175.1 3,446.3 3,343.2 102.83 33513 10,400.0 8,575.0 11,605.5 9,534.2 52.7 5.77 1-106.87 2,496.8 11,175.1 3,446.3 3,343.2 102.83 33.2345 10,500.0 8,575.0 11,605.5 9,534.2 52.7 5.77 1-106.80 2,497.0 1,375.1 3,446.3 3,348.5 99.19 34.739 10,500.0 8,575.0 11,605.5 9,534.2 52.7 5.77 1-106.80 2,497.0 1,375.1 3,446.8 3,341.3 3,346.5 99.19 34.739 10,500.0 8,575.0 11,605.5 9,534.6 60.8 60.9 16.6 9.9 16.6 9.6 16.8 9.6 16.8 9.6 16.8 9.6 16.8 9.6 16.8 9.6 16.9 16.9 16.9 16.9 16.9 16.9 16.9	Ĭ	
9,200.0 8,575.0 8,568.2 8,539.0 34.4 30.7 -90.00 2,419.1 -7.35.2 3,327.1 3,262.2 64.84 51.313 9,300.0 8,575.0 8,568.2 8,539.0 35.3 30.7 -90.00 2,419.1 -7.35.2 3,362.0 3,353.6 66.50 51.116 9,400.0 8,575.0 8,568.2 8,539.0 36.3 30.7 -90.00 2,419.1 -7.35.2 3,362.0 3,315.6 66.45 50.899 9,500.0 8,575.0 10,505.6 9,525.2 38.9 43.5 -106.64 2,495.9 475.2 3,443.6 3,346.2 67.36 50.675 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.0 1,000.		
9,300.0         8,575.0         8,558.2         8,539.0         35.3         30.7         -90.00         2,419.1         -735.2         3,335.2         2,287.6         66.60         51.116           9,400.0         8,575.0         8,558.2         8,539.0         36.3         30.7         -90.00         2,419.1         -735.2         3,413.6         3,346.2         67.36         50.675           9,600.0         8,675.0         10,505.6         9,525.2         38.9         43.5         -106.64         2,496.9         475.2         3,443.7         3,364.0         79.74         43.186           9,700.0         8,575.0         10,505.6         9,526.3         40.4         45.0         -106.66         2,496.0         575.2         3,444.0         3,381.4         82.63         40.4         45.0         -106.66         2,496.0         575.2         3,444.0         3,381.4         82.63         46.8         40.202         3,445.0         3,345.2         8.88.8         38.761         10,000.5         9,528.5         43.6         48.4         +106.70         2,496.3         775.2         3,444.7         3,358.8         88.87         38.761         10,000.0         8,575.0         11,005.5         9,530.8         470.0         2,496.3<		
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9,500.0         8,575.0         8,568.2         8,539.0         37.6         30.7         -90.00         2,419.1         -735.2         3,413.6         3,346.2         67.36         50.675           9,600.0         8,575.0         10,505.6         9,525.2         38.9         43.5         -106.66         2,495.0         575.2         3,444.0         3,361.4         82.63         41.88           9,000.0         8,575.0         10,705.5         9,527.4         41.9         46.7         -106.68         2,496.2         675.2         3,444.0         3,361.4         82.63         41.88           9,000.0         8,575.0         10,805.5         9,528.5         43.6         48.4         -106.70         2,496.3         775.2         3,444.7         3,355.8         88.87         38.761           10,000.0         8,575.0         11,005.5         9,529.7         45.3         50.1         -106.71         2,496.4         875.2         3,445.3         3,349.7         95.64         36.024           10,000.0         8,575.0         11,005.5         9,531.9         48.9         53.8         -106.75         2,496.6         1,075.2         3,445.3         3,349.7         95.64         36.024           10,000.0		
9,600 0         8,575.0         10,505.6         9,525.2         38.9         43.5         -106.64         2,495.9         475.2         3,443.7         3,364.0         79.74         43.186           9,700.0         8,575.0         10,805.6         9,526.3         40.4         45.0         -106.66         2,496.0         575.2         3,444.0         3,361.4         82.63         41.682           9,800.0         8,575.0         10,805.5         9,528.5         43.6         48.4         -106.70         2,496.2         675.2         3,444.7         3,355.8         88.87         38.761           10,000.0         8,575.0         10,905.5         9,529.7         45.3         50.1         -106.71         2,496.4         875.2         3,445.0         3,352.8         82.20         37.366           10,000.0         8,575.0         11,005.5         9,530.8         47.0         52.0         -106.73         2,496.5         975.2         3,445.3         3,349.7         95.84         36.024           10,200.0         8,575.0         11,105.5         9,531.9         48.9         53.8         -106.73         2,496.6         1,075.2         3,445.5         3,349.7         95.84         36.024           10,200.0		
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9,800.0         8,575.0         10,705.5         9,527.4         41.9         46.7         -106.68         2,496.2         675.2         3,444.4         3,358.7         85.68         40,202           9,900.0         8,575.0         10,905.5         9,528.7         45.3         50.1         -106.71         2,496.3         775.2         3,444.7         3,355.8         82.20         37,366           10,100.0         8,575.0         11,005.5         9,530.8         47.0         52.0         -106.73         2,496.5         975.2         3,445.3         3,349.7         95.64         36.024           10,200.0         8,575.0         11,105.5         9,530.8         47.0         52.0         -106.75         2,496.6         1,075.2         3,445.3         3,349.7         95.64         36.024           10,200.0         8,575.0         11,105.5         9,531.9         48.9         53.8         -106.77         2,496.6         1,075.2         3,445.3         3,349.7         95.64         36.024           10,200.0         8,575.0         11,105.5         9,534.2         52.7         57.7         -106.78         2,499.8         1,175.1         3,446.0         3,339.8         106.55         3,2345           10,000.0		
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10,000,0         8,575,0         10,905,5         9,529,7         45,3         50,1         -106,71         2,496,4         875,2         3,445,0         3,352,8         92,20         37,366           10,100,0         8,575,0         11,005,5         9,530,8         47,0         52,0         -106,75         2,496,5         975,2         3,445,7         3,346,5         99,19         34,739           10,200,0         8,575,0         11,105,5         9,531,9         48,9         53,8         -106,77         2,496,8         1,175,1         3,446,7         3,346,5         99,19         34,739           10,400,0         8,575,0         11,305,5         9,534,2         52,7         57,7         -106,78         2,496,8         1,175,1         3,446,0         3,432,2         102,83         33,313           10,500,0         8,575,0         11,405,5         9,535,3         54,7         59,7         -106,80         2,497,0         1,375,1         3,446,7         3,338,8         106,55         23,345           10,600,0         8,575,0         11,505,5         9,536,4         56,7         61,7         -106,82         2,497,1         1,475,1         3,447,3         3,329,2         118,16         29,17           10,		
10,100.0 8,575.0 11,005.5 9,530.8 47.0 52.0 -106.73 2,496.5 975.2 3,445.3 3,349.7 95.64 36.024 10,200.0 8,575.0 11,105.5 9,531.9 48.9 53.8 -106.75 2,496.6 1,075.2 3,445.7 3,346.5 99.19 34.739 10,300.0 8,575.0 11,205.5 9,533.0 50.8 55.7 -106.77 2,496.8 1,175.1 3,446.0 3,343.2 10,283 33.513 10,400.0 8,575.0 11,305.5 9,534.2 52.7 57.7 -106.78 2,496.8 1,175.1 3,446.3 3,332.8 106.55 32,345 10,500.0 8,575.0 11,405.5 9,535.3 54.7 59.7 -106.78 2,496.8 1,175.1 3,446.3 3,332.8 106.55 32,345 10,500.0 8,575.0 11,405.5 9,536.4 56.7 61.7 -106.82 2,497.0 1,375.1 3,446.3 3,332.8 114.22 30.179 10,700.0 8,575.0 11,605.5 9,537.5 58.7 63.8 -106.84 2,497.3 1,575.1 3,447.0 3,332.8 114.22 30.179 10,700.0 8,575.0 11,805.5 9,538.6 60.8 65.9 -106.86 2,497.4 1,675.1 3,447.3 3,329.2 118.15 29.178 10,900.0 8,575.0 11,905.5 9,538.8 62.9 68.0 -106.87 2,495.5 1,775.1 3,448.3 3,318.1 120.4 26.476 11,000.0 8,575.0 11,905.5 9,540.9 65.0 70.1 -106.89 2,497.6 1,875.1 3,448.3 3,318.1 120.4 26.476 11,000.0 8,575.0 12,005.5 9,540.9 65.0 70.1 -106.89 2,497.6 1,875.1 3,448.3 3,318.1 130.24 26.476 11,000.0 8,575.0 12,005.5 9,542.0 67.1 72.3 -106.91 2,497.7 1,975.0 3,448.6 3,314.3 134.36 25.667 11,000.0 8,575.0 12,005.5 9,542.0 67.1 72.3 -106.91 2,497.7 1,975.0 3,448.6 3,314.3 134.36 25.667 11,000.0 8,575.0 12,005.5 9,542.0 67.1 72.3 -106.91 2,497.7 1,975.0 3,448.6 3,314.3 134.36 25.667 11,000.0 8,575.0 12,005.5 9,542.2 71.5 76.6 -106.94 2,498.0 2,175.0 3,449.3 3,310.5 138.52 24.899 11,300.0 8,575.0 12,005.4 9,549.5 75.9 81.1 -106.98 2,498.2 2,375.0 3,450.0 3,209.9 159.75 21.601 11,000.0 8,575.0 12,005.4 9,540.5 75.9 81.1 -106.98 2,498.2 2,375.0 3,450.0 3,209.9 159.75 21.601 11,000.0 8,575.0 12,005.4 9,540.5 75.9 81.1 -106.98 2,498.2 2,375.0 3,450.0 3,209.9 159.75 21.601 11,000.0 8,575.0 12,005.4 9,540.5 75.9 81.1 -106.98 2,498.5 2,575.0 3,450.0 3,209.9 159.75 21.601 11,000.0 8,575.0 12,005.4 9,540.5 75.9 81.1 -106.98 2,498.5 2,575.0 3,450.0 3,209.9 159.75 21.601 11,000.0 8,575.0 12,005.4 9,540.5 75.9 88.9 9.0 1 -107.00 2,498.5 2,575.0 3,450.0 3,209.9 15		
10,200.0         8,575.0         11,105.5         9,531.9         48.9         53.8         -106.75         2,496.6         1,075.2         3,445.7         3,346.5         99.19         34.739           10,300.0         8,575.0         11,205.5         9,533.0         50.8         55.7         -106.77         2,496.8         1,175.1         3,446.0         3,343.2         102.83         33.513           10,400.0         8,575.0         11,305.5         9,534.2         52.7         57.7         -106.80         2,497.0         1,375.1         3,446.3         3,339.8         106.55         32.345           10,500.0         8,575.0         11,405.5         9,536.4         56.7         61.7         -106.82         2,497.1         1,475.1         3,446.7         3,332.8         114.22         30.179           10,600.0         8,575.0         11,505.5         9,538.6         60.8         65.9         -106.84         2,497.1         1,475.1         3,447.0         3,332.8         114.22         30.179           10,600.0         8,575.0         11,605.5         9,538.6         60.8         65.9         -106.84         2,497.3         1,575.1         3,447.3         3,322.5         122.13         28.229		
10,300.0         8,575.0         11,205.5         9,533.0         50.8         55.7         -106.77         2,496.8         1,175.1         3,446.0         3,343.2         102.83         33.513           10,400.0         8,575.0         11,305.5         9,534.2         52.7         57.7         -106.80         2,496.9         1,275.1         3,446.3         3,339.8         106.55         32.345           10,500.0         8,575.0         11,405.5         9,536.4         56.7         61.7         -106.82         2,497.1         1,475.1         3,446.7         3,332.8         114.22         30.179           10,600.0         8,575.0         11,605.5         9,536.4         56.7         61.7         -106.82         2,497.1         1,475.1         3,447.0         3,332.8         114.22         30.179           10,600.0         8,575.0         11,605.5         9,538.6         60.8         65.9         -106.86         2,497.4         1,675.1         3,447.6         3,325.5         122.13         28.229           10,800.0         8,575.0         11,805.5         9,538.8         62.9         68.0         -106.87         2,497.5         1,775.1         3,448.0         3,321.8         126.16         27.329		
10,400,0         8,575,0         11,305,5         9,534,2         52,7         57,7         -106,78         2,496,9         1,275,1         3,446,3         3,339,8         106,55         32,345           10,500,0         8,575,0         11,405,5         9,536,3         54,7         59,7         -106,80         2,497,0         1,375,1         3,446,7         3,336,3         110,35         31,233           10,600,0         8,575,0         11,505,5         9,536,4         56,7         61,7         -106,82         2,497,1         1,475,1         3,447,3         3,329,2         118,15         29,178           10,800,0         8,575,0         11,605,5         9,538,6         60,8         65,9         -106,86         2,497,4         1,675,1         3,447,3         3,329,2         118,15         29,178           10,900,0         8,575,0         11,805,5         9,538,6         60,8         65,9         -106,86         2,497,4         1,675,1         3,447,6         3,324,8         126,16         27,329           11,000,0         8,575,0         11,905,5         9,540,9         65,0         70,1         -106,89         2,497,6         1,875,1         3,448,3         3,318,1         130,24         26,476		
10,500.0         8,575.0         11,405.5         9,535.3         54.7         59.7         -106.80         2,497.0         1,375.1         3,446.7         3,336.3         110.35         31.233           10,600.0         8,575.0         11,505.5         9,536.4         56.7         61.7         -106.82         2,497.1         1,475.1         3,447.0         3,332.8         114.22         30.179           10,600.0         8,575.0         11,605.5         9,537.5         58.7         63.8         -106.84         2,497.4         1,675.1         3,447.6         3,325.5         122.13         28.229           10,800.0         8,575.0         11,805.5         9,538.6         60.8         65.9         -106.86         2,497.4         1,675.1         3,447.6         3,325.5         122.13         28.229           10,900.0         8,575.0         11,805.5         9,538.8         62.9         68.0         -106.87         2,497.5         1,775.1         3,448.0         3,321.8         126.16         27.329           11,000.0         8,575.0         12,005.5         9,540.0         67.1         72.3         -106.91         2,497.7         1,975.0         3,448.3         3,314.3         134.36         25.667		
10,600.0 8,575.0 11,505.5 9,536.4 56.7 61.7 -106.82 2,497.1 1,475.1 3,447.0 3,332.8 114.22 30,179 10,700.0 8,575.0 11,605.5 9,537.5 58.7 63.8 -106.84 2,497.3 1,575.1 3,447.0 3,332.8 114.22 30,179 10,800.0 8,575.0 11,705.5 9,538.6 60.8 65.9 -106.86 2,497.4 1,675.1 3,447.6 3,325.5 122.13 28,229 10,900.0 8,575.0 11,805.5 9,539.8 62.9 68.0 -106.87 2,497.5 1,775.1 3,448.0 3,321.8 126.16 27,329 11,000.0 8,575.0 11,905.5 9,540.9 65.0 70.1 -106.89 2,497.6 1,875.1 3,448.3 3,318.1 130.24 26,476 11,000.0 8,575.0 12,005.5 9,542.0 67.1 72.3 -106.91 2,497.7 1,975.0 3,448.6 3,314.3 134.36 25,667 11,200.0 8,575.0 12,105.5 9,544.2 71.5 76.6 -106.94 2,498.0 2,175.0 3,449.0 3,310.5 138.52 24,899 11,300.0 8,575.0 12,205.5 9,544.2 71.5 76.6 -106.94 2,498.0 2,175.0 3,449.3 3,306.6 142.71 24,171 11,500.0 8,575.0 12,205.5 9,544.2 71.5 76.6 -106.94 2,498.0 2,175.0 3,449.3 3,306.6 142.71 24,171 11,500.0 8,575.0 12,205.5 9,544.2 71.5 76.6 -106.94 2,498.0 2,175.0 3,449.3 3,306.6 142.71 24,171 11,500.0 8,575.0 12,205.5 9,544.2 71.5 76.6 -106.94 2,498.0 2,175.0 3,449.3 3,306.6 142.71 24,171 11,500.0 8,575.0 12,205.4 9,546.5 75.9 81.1 -106.98 2,498.2 2,375.0 3,450.0 3,298.8 151.17 22.821 11,500.0 8,575.0 12,205.4 9,546.5 75.9 81.1 -106.98 2,498.2 2,375.0 3,450.0 3,298.8 151.17 22.821 11,500.0 8,575.0 12,205.4 9,546.5 75.9 81.1 -106.98 2,498.2 2,375.0 3,450.0 3,298.8 151.17 22.821 11,500.0 8,575.0 12,205.4 9,546.5 75.9 81.1 -106.98 2,498.2 2,375.0 3,450.0 3,298.8 151.17 22.821 11,500.0 8,575.0 12,205.4 9,546.5 75.9 81.1 -107.00 2,498.5 2,575.0 3,450.0 3,290.9 159.75 21.601 11,800.0 8,575.0 12,605.4 9,548.7 80.4 85.5 -107.02 2,498.5 2,575.0 3,450.0 3,290.9 159.75 21.601 11,800.0 8,575.0 12,605.4 9,548.7 80.4 85.5 -107.02 2,498.7 2,774.9 3,451.3 3,282.9 168.41 20,494 12,000.0 8,575.0 12,805.4 9,552.1 87.2 92.3 -107.07 2,498.8 2,874.9 3,451.0 3,282.9 168.41 20,494 12,000.0 8,575.0 12,805.4 9,552.1 87.2 92.3 -107.07 2,498.8 2,874.9 3,452.0 3,274.8 177.14 19,488 12,200.0 8,575.0 13,005.4 9,555.2 89.5 94.6 -107.09 2,499.1 3,074.9 3,452.3 3,270.8 18		
10,700.0         8,575.0         11,605.5         9,537.5         58.7         63.8         -106.84         2,497.3         1,575.1         3,447.3         3,329.2         118.15         29.178           10,800.0         8,575.0         11,705.5         9,538.6         60.8         65.9         -106.86         2,497.4         1,675.1         3,447.6         3,325.5         122.13         28.229           10,900.0         8,575.0         11,805.5         9,539.8         62.9         68.0         -106.87         2,497.6         1,775.1         3,448.0         3,321.8         126.16         27.329           11,000.0         8,575.0         11,905.5         9,540.9         65.0         70.1         -106.89         2,497.6         1,875.1         3,448.0         3,318.1         130.24         26.476           11,100.0         8,575.0         12,005.5         9,542.0         67.1         72.3         -106.91         2,497.7         1,975.0         3,448.6         3,314.3         134.36         25.667           11,200.0         8,575.0         12,005.5         9,544.2         71.5         76.6         -106.94         2,498.0         2,175.0         3,449.0         3,310.5         138.52         24.899		
10,800.0         8,575.0         11,705.5         9,538.6         60.8         65.9         -106.86         2,497.4         1,675.1         3,447.6         3,325.5         122.13         28.229           10,900.0         8,575.0         11,805.5         9,539.8         62.9         68.0         -106.87         2,497.5         1,775.1         3,448.0         3,321.8         126.16         27.329           11,000.0         8,575.0         11,905.5         9,540.9         65.0         70.1         -106.89         2,497.6         1,875.1         3,448.3         3,318.1         130.24         26.476           11,100.0         8,575.0         12,005.5         9,542.0         67.1         72.3         -106.91         2,497.7         1,975.0         3,448.6         3,314.3         134.36         25.667           11,200.0         8,575.0         12,105.5         9,543.1         69.3         74.5         -106.93         2,497.9         2,075.0         3,449.0         3,310.5         138.52         24.899           11,300.0         8,575.0         12,205.5         9,544.2         71.5         76.6         -106.94         2,498.0         2,175.0         3,449.3         3,306.6         142.71         24.171         11,400.0		
10,900.0         8,575.0         11,805.5         9,539.8         62.9         68.0         -106.87         2,497.5         1,775.1         3,448.0         3,321.8         126.16         27.329           11,000.0         8,575.0         11,905.5         9,540.9         65.0         70.1         -106.89         2,497.6         1,875.1         3,448.3         3,318.1         130.24         26.476           11,100.0         8,575.0         12,005.5         9,542.0         67.1         72.3         -106.91         2,497.7         1,975.0         3,448.6         3,314.3         134.36         25.667           11,200.0         8,575.0         12,105.5         9,543.1         69.3         74.5         -106.93         2,497.9         2,075.0         3,449.0         3,310.5         138.52         24.899           11,300.0         8,575.0         12,205.5         9,544.2         71.5         76.6         -106.94         2,498.0         2,175.0         3,449.0         3,306.6         142.71         24.171           11,400.0         8,575.0         12,305.4         9,545.4         73.7         78.8         -106.96         2,498.1         2,275.0         3,449.6         3,302.7         146.93         23.479		
11,000.0       8,575.0       11,905.5       9,540.9       65.0       70.1       -106.89       2,497.6       1,875.1       3,448.3       3,318.1       130.24       26,476         11,100.0       8,575.0       12,005.5       9,542.0       67.1       72.3       -106.91       2,497.7       1,975.0       3,448.6       3,314.3       134.36       25,667         11,200.0       8,575.0       12,205.5       9,543.1       69.3       74.5       -106.93       2,497.9       2,075.0       3,449.0       3,310.5       138.52       24.899         11,300.0       8,575.0       12,205.5       9,544.2       71.5       76.6       -106.94       2,498.0       2,175.0       3,449.0       3,310.5       138.52       24.899         11,400.0       8,575.0       12,305.4       9,545.4       73.7       78.8       -106.96       2,498.1       2,275.0       3,449.6       3,302.7       146.93       23.479         11,500.0       8,575.0       12,405.4       9,547.6       75.9       81.1       -106.98       2,498.2       2,375.0       3,450.0       3,298.8       151.17       22.821         11,600.0       8,575.0       12,605.4       9,547.6       78.2       83.3       -107.00 </td <td></td> <td></td>		
11,200.0       8,575.0       12,105.5       9,543.1       69.3       74.5       -106.93       2,497.9       2,075.0       3,449.0       3,310.5       138.52       24.899         11,300.0       8,575.0       12,205.5       9,544.2       71.5       76.6       -106.94       2,498.0       2,175.0       3,449.3       3,306.6       142.71       24.171         11,400.0       8,575.0       12,305.4       9,545.4       73.7       78.8       -106.96       2,498.1       2,275.0       3,449.6       3,302.7       146.93       23.479         11,500.0       8,575.0       12,405.4       9,546.5       75.9       81.1       -106.98       2,498.2       2,375.0       3,450.0       3,298.8       151.17       22.821         11,600.0       8,575.0       12,505.4       9,547.6       78.2       83.3       -107.00       2,498.3       2,475.0       3,450.3       3,294.9       155.45       22.196         11,700.0       8,575.0       12,605.4       9,548.7       80.4       85.5       -107.02       2,498.5       2,575.0       3,450.6       3,290.9       159.75       21.601         11,800.0       8,575.0       12,705.4       9,549.9       82.7       87.8       -107.03 </td <td></td> <td></td>		
11,200.0       8,575.0       12,105.5       9,543.1       69.3       74.5       -106.93       2,497.9       2,075.0       3,449.0       3,310.5       138.52       24.899         11,300.0       8,575.0       12,205.5       9,544.2       71.5       76.6       -106.94       2,498.0       2,175.0       3,449.3       3,306.6       142.71       24.171         11,400.0       8,575.0       12,305.4       9,545.4       73.7       78.8       -106.96       2,498.1       2,275.0       3,449.6       3,302.7       146.93       23.479         11,500.0       8,575.0       12,405.4       9,546.5       75.9       81.1       -106.98       2,498.2       2,375.0       3,450.0       3,298.8       151.17       22.821         11,600.0       8,575.0       12,505.4       9,547.6       78.2       83.3       -107.00       2,498.3       2,475.0       3,450.3       3,294.9       155.45       22.196         11,700.0       8,575.0       12,605.4       9,548.7       80.4       85.5       -107.02       2,498.5       2,575.0       3,450.6       3,290.9       159.75       21.601         11,800.0       8,575.0       12,705.4       9,549.9       82.7       87.8       -107.03 </td <td></td> <td></td>		
11,300.0         8,575.0         12,205.5         9,544.2         71.5         76.6         -106.94         2,498.0         2,175.0         3,449.3         3,306.6         142.71         24.171           11,400.0         8,575.0         12,305.4         9,545.4         73.7         78.8         -106.96         2,498.1         2,275.0         3,449.6         3,302.7         146.93         23.479           11,500.0         8,575.0         12,405.4         9,546.5         75.9         81.1         -106.98         2,498.2         2,375.0         3,450.0         3,298.8         151.17         22.821           11,600.0         8,575.0         12,505.4         9,547.6         78.2         83.3         -107.00         2,498.3         2,475.0         3,450.3         3,294.9         155.45         22.196           11,700.0         8,575.0         12,605.4         9,548.7         80.4         85.5         -107.02         2,498.5         2,575.0         3,450.3         3,290.9         159.75         21.601           11,800.0         8,575.0         12,705.4         9,549.9         82.7         87.8         -107.03         2,498.6         2,675.0         3,451.0         3,286.9         164.07         21.034		
11,400.0       8,575.0       12,305.4       9,545.4       73.7       78.8       -106.96       2,498.1       2,275.0       3,449.6       3,302.7       146.93       23,479         11,500.0       8,575.0       12,405.4       9,546.5       75.9       81.1       -106.98       2,498.2       2,375.0       3,450.0       3,298.8       151.17       22.821         11,600.0       8,575.0       12,505.4       9,547.6       78.2       83.3       -107.00       2,498.3       2,475.0       3,450.3       3,294.9       155.45       22.196         11,700.0       8,575.0       12,605.4       9,548.7       80.4       85.5       -107.02       2,498.5       2,575.0       3,450.6       3,290.9       159.75       21.601         11,800.0       8,575.0       12,705.4       9,549.9       82.7       87.8       -107.03       2,498.6       2,675.0       3,451.0       3,286.9       164.07       21.034         11,900.0       8,575.0       12,805.4       9,551.0       84.9       90.1       -107.05       2,498.7       2,774.9       3,451.3       3,282.9       168.41       20.494         12,000.0       8,575.0       13,005.4       9,553.2       89.5       94.6       -107.09 </td <td></td> <td></td>		
11,500.0       8,575.0       12,405.4       9,546.5       75.9       81.1       -106.98       2,498.2       2,375.0       3,450.0       3,298.8       151.17       22.821         11,600.0       8,575.0       12,505.4       9,547.6       78.2       83.3       -107.00       2,498.3       2,475.0       3,450.3       3,294.9       155.45       22.196         11,700.0       8,575.0       12,605.4       9,548.7       80.4       85.5       -107.02       2,498.5       2,575.0       3,450.6       3,290.9       159.75       21.601         11,800.0       8,575.0       12,705.4       9,549.9       82.7       87.8       -107.03       2,498.6       2,675.0       3,451.0       3,280.9       164.07       21.034         11,900.0       8,575.0       12,805.4       9,551.0       84.9       90.1       -107.05       2,498.7       2,774.9       3,451.3       3,282.9       168.41       20.494         12,000.0       8,575.0       12,905.4       9,552.1       87.2       92.3       -107.07       2,498.8       2,874.9       3,451.6       3,278.9       172.76       19.979         12,100.0       8,575.0       13,105.4       9,553.2       89.5       94.6       -107.09 </td <td></td> <td></td>		
11,600.0       8,575.0       12,505.4       9,547.6       78.2       83.3       -107.00       2,498.3       2,475.0       3,450.3       3,294.9       155.45       22.196         11,700.0       8,575.0       12,605.4       9,548.7       80.4       85.5       -107.02       2,498.5       2,575.0       3,450.6       3,290.9       159.75       21.601         11,800.0       8,575.0       12,705.4       9,549.9       82.7       87.8       -107.03       2,498.6       2,675.0       3,451.0       3,286.9       164.07       21.034         11,900.0       8,575.0       12,805.4       9,551.0       84.9       90.1       -107.05       2,498.7       2,774.9       3,451.3       3,282.9       168.41       20.494         12,000.0       8,575.0       12,905.4       9,552.1       87.2       92.3       -107.07       2,498.8       2,874.9       3,451.6       3,278.9       172.76       19.979         12,100.0       8,575.0       13,105.4       9,553.2       89.5       94.6       -107.09       2,498.9       2,974.9       3,452.0       3,274.8       177.14       19.488         12,200.0       8,575.0       13,105.4       9,554.3       91.8       96.9       -107.10 </td <td></td> <td></td>		
11,700.0       8,575.0       12,605.4       9,548.7       80.4       85.5       -107.02       2,498.5       2,575.0       3,450.6       3,290.9       159.75       21.601         11,800.0       8,575.0       12,705.4       9,549.9       82.7       87.8       -107.03       2,498.6       2,675.0       3,451.0       3,286.9       164.07       21.034         11,900.0       8,575.0       12,805.4       9,551.0       84.9       90.1       -107.05       2,498.7       2,774.9       3,451.3       3,282.9       168.41       20.494         12,000.0       8,575.0       12,905.4       9,552.1       87.2       92.3       -107.07       2,498.8       2,874.9       3,451.6       3,278.9       172.76       19.979         12,100.0       8,575.0       13,005.4       9,553.2       89.5       94.6       -107.09       2,498.9       2,974.9       3,452.0       3,274.8       177.14       19.488         12,200.0       8,575.0       13,105.4       9,554.3       91.8       96.9       -107.10       2,499.1       3,074.9       3,452.0       3,270.8       181.53       19.018         12,300.0       8,575.0       13,205.4       9,555.5       94.1       99.2       -107.12 </td <td></td> <td></td>		
11,800.0       8,575.0       12,705.4       9,549.9       82.7       87.8       -107.03       2,498.6       2,675.0       3,451.0       3,286.9       164.07       21.034         11,900.0       8,575.0       12,805.4       9,551.0       84.9       90.1       -107.05       2,498.7       2,774.9       3,451.3       3,282.9       168.41       20.494         12,000.0       8,575.0       12,905.4       9,552.1       87.2       92.3       -107.07       2,498.8       2,874.9       3,451.6       3,278.9       172.76       19.979         12,100.0       8,575.0       13,005.4       9,553.2       89.5       94.6       -107.09       2,498.9       2,974.9       3,452.0       3,274.8       177.14       19.488         12,200.0       8,575.0       13,105.4       9,554.3       91.8       96.9       -107.10       2,499.1       3,074.9       3,452.3       3,270.8       181.53       19.018         12,300.0       8,575.0       13,205.4       9,555.5       94.1       99.2       -107.12       2,499.2       3,174.9       3,452.6       3,266.7       185.93       18.569         12,400.0       8,575.0       13,305.4       9,556.6       96.4       101.5       -107.14<		
11,900.0       8,575.0       12,805.4       9,551.0       84.9       90.1       -107.05       2,498.7       2,774.9       3,451.3       3,282.9       168.41       20.494         12,000.0       8,575.0       12,905.4       9,552.1       87.2       92.3       -107.07       2,498.8       2,874.9       3,451.6       3,278.9       172.76       19.979         12,100.0       8,575.0       13,005.4       9,553.2       89.5       94.6       -107.09       2,498.9       2,974.9       3,452.0       3,274.8       177.14       19.488         12,200.0       8,575.0       13,105.4       9,554.3       91.8       96.9       -107.10       2,499.1       3,074.9       3,452.3       3,270.8       181.53       19.018         12,300.0       8,575.0       13,205.4       9,555.5       94.1       99.2       -107.12       2,499.2       3,174.9       3,452.6       3,266.7       185.93       18.569         12,400.0       8,575.0       13,305.4       9,556.6       96.4       101.5       -107.14       2,499.3       3,274.9       3,453.0       3,262.6       190.35       18.140		
12,000.0     8,575.0     12,905.4     9,552.1     87.2     92.3     -107.07     2,498.8     2,874.9     3,451.6     3,278.9     172.76     19.979       12,100.0     8,575.0     13,005.4     9,553.2     89.5     94.6     -107.09     2,498.9     2,974.9     3,452.0     3,274.8     177.14     19.488       12,200.0     8,575.0     13,105.4     9,554.3     91.8     96.9     -107.10     2,499.1     3,074.9     3,452.3     3,270.8     181.53     19.018       12,300.0     8,575.0     13,205.4     9,555.5     94.1     99.2     -107.12     2,499.2     3,174.9     3,452.6     3,266.7     185.93     18.569       12,400.0     8,575.0     13,305.4     9,556.6     96.4     101.5     -107.14     2,499.3     3,274.9     3,453.0     3,262.6     190.35     18.140		
12,200.0     8,575.0     13,105.4     9,554.3     91.8     96.9     -107.10     2,499.1     3,074.9     3,452.3     3,270.8     181.53     19.018       12,300.0     8,575.0     13,205.4     9,555.5     94.1     99.2     -107.12     2,499.2     3,174.9     3,452.6     3,266.7     185.93     18.569       12,400.0     8,575.0     13,305.4     9,556.6     96.4     101.5     -107.14     2,499.3     3,274.9     3,453.0     3,262.6     190.35     18.140		
12,200.0     8,575.0     13,105.4     9,554.3     91.8     96.9     -107.10     2,499.1     3,074.9     3,452.3     3,270.8     181.53     19.018       12,300.0     8,575.0     13,205.4     9,555.5     94.1     99.2     -107.12     2,499.2     3,174.9     3,452.6     3,266.7     185.93     18.69       12,400.0     8,575.0     13,305.4     9,556.6     96.4     101.5     -107.14     2,499.3     3,274.9     3,453.0     3,262.6     190.35     18.140		
12,300.0     8,575.0     13,205.4     9,555.5     94.1     99.2     -107.12     2,499.2     3,174.9     3,452.6     3,266.7     185.93     18.569       12,400.0     8,575.0     13,305.4     9,556.6     96.4     101.5     -107.14     2,499.3     3,274.9     3,453.0     3,262.6     190.35     18.140		
12,400.0 8,575.0 13,305.4 9,556.6 96.4 101.5 -107.14 2,499.3 3,274.9 3,453.0 3,262.6 190.35 18.140		
12,600.0 8,575.0 13,505.4 9,558.8 101.0 106.2 -107.18 2,499.5 3,474.9 3,453.7 3,254.4 199.22 17.336		
12,700.0 8,575.0 13,605.4 9,559.9 103.4 108.5 -107.19 2,499.7 3,574.8 3,454.0 3,250.3 203.67 16.958		
12,800.0 8,575.0 13,705.4 9,561.1 105.7 110.8 -107.21 2,499.8 3,674.8 3,454.3 3,246.2 208.14 16.597		
12,900.0 8,575.0 13,805.4 9,562.2 108.0 113.2 -107.23 2,499.9 3,774.8 3,454.7 3,242.1 212.61 16.249		
13,000.0 8,575.0 13,905.3 9,563.3 110.4 115.5 -107.25 2,500.0 3,874.8 3,455.0 3,237.9 217.09 15.915		
13,100.0 8,575.0 14,005.3 9,564.4 112.7 117.9 -107.26 2,500.2 3,974.8 3,455.3 3,233.8 221.58 15.594		
13,200.0 8,575.0 14,105.3 9,565.6 115.1 120.2 -107.28 2,500.3 4,074.8 3,455.7 3,229.6 226.07 15,286		
13,300.0 8,575.0 14,205.3 9,566.7 117.5 122.6 -107.30 2,500.4 4,174.8 3,456.0 3,225.4 230.57 14,989		
13,400.0 8,575.0 14,305.3 9,567.8 119.8 124.9 -107.32 2,500.5 4,274.8 3,456.4 3,221.3 235.08 14.703		
13,500.0 8,575.0 14,405.3 9,568.9 122.2 127.3 -107.34 2,500.6 4,374.7 3,456.7 3,217.1 239.60 14.427		
13,600.0 8,575.0 14,505.3 9,570.0 124.6 129.7 -107.35 2,500.8 4,474.7 3,457.0 3,212.9 244.12 14.161		
13,700.0 8,575.0 14,605.3 9,571.2 126.9 132.0 -107.37 2,500.9 4,574.7 3,457.4 3,208.7 248.65 13.905		
13,800.0 8,575.0 14,705.3 9,572.3 129.3 134.4 -107.39 2,501.0 4,674.7 3,457.7 3,204.5 253.18 13.657		
13,900.0 8,575.0 14,805.3 9,573.4 131.7 136.8 -107.41 2,501.1 4,774.7 3,458.1 3,200.3 257.72 13.418		
14,000.0 8,575.0 14,905.3 9,574.5 134.1 139.2 -107.42 2,501.2 4,874.7 3,458.4 3,196.1 262.26 13.187		
14,100.0 8,575.0 15,005.3 9,575.7 136.4 141.6 -107.44 2,501.4 4,974.7 3,458.7 3,191.9 266.80 12.964		

Database:

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

Well Simon Camamile Fed Com #126H

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma EDM 5000.14 Single User Db

Offset Des	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #134H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Progr				Core: Ma'	Avia				Dist				Offset Well Error:	0.0 usft
Refere Measured	ence Vertical	Offse Measured	t Vertical	Semi Major Reference	Offset	Highside	Offset Wellbor	e Centre	Dista Between	ance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	warning	
14,200.0	8,575.0	15,105.3	9,576.8	138.8	143.9	-107.46	2,501.5	5,074.7	3,459.1	3,187.7	271.35	12.748		
14,300.0	8,575.0	15,205.3	9,577.9	141.2	146.3	-107.48	2,501.6	5,174.6	3,459.4	3,183.5	275.91	12.538		
14,400.0	8,575.0	15,305.3	9,579.0	143.6	148.7	-107.49	2,501.7	5,274.6	3,459.8	3,179.3	280.46	12.336		
14,500.0	8,575.0	15,405.3	9,580.1	146.0	151.1	-107.51	2,501.8	5,374.6	3,460.1	3,175.1	285.02	12.140		
14,600.0	8,575.0	15,505.2	9,581.3	148.4	153.5	-107.53	2,502.0	5,474.6	3,460.5	3,170.9	289.59	11.950		
14,700.0	8,575.0	15,605.2	9,582.4	150.8	155.9	-107.55	2,502.1	5,574.6	3,460.8	3,166.6	294.15	11.765		
14,800.0	8,575.0	15,705.2	9,583.5	153.2	158.3	-107.57	2,502.2	5,674.6	3,461.1	3,162.4	298.72	11.587		
14,900.0	8,575.0	15,805.2	9,584.6	155.6	160.7	-107.58	2,502.3	5,774.6	3,461.5	3,158.2	303.29	11.413		
15,000.0 15,100.0	8,575.0 8,575.0	15,905.2 16,005.2	9,585.7 9,586.9	158.0 160.4	163.1 165.5	-107.60 -107.62	2,502.4	5,874.6 5,974.5	3,461.8	3,154.0 3,149.7	307.86 312.44	11.245 11.081		
15,100.0	8,575.0	16,005.2	9,588.0	162.8	167.9	-107.62	2,502.6	6,074.5	3,462.2 3,462.5		317.02	10.922		
							2,502.7			3,145.5				
15,300.0	8,575.0	16,205.2	9,589.1	165.2	170.3	-107.65	2,502.8	6,174.5	3,462.9	3,141.3	321.60	10.768		
15,400.0	8,575.0	16,305.2	9,590.2	167.6	172.7	-107.67	2,502.9	6,274.5	3,463.2	3,137.0	326.18	10.618		
15,500.0 15,600.0	8,575.0 8,575.0	16,405.2 16,505.2	9,591.4 9,592.5	170.0 172.5	175.1 177.5	-107.69 -107.71	2,503.0	6,374.5 6,474.5	3,463.6 3,463.9	3,132.8	330.76 335.35	10.471 10.329		
15,600.0 15,700.0	8,575.0 8,575.0	16,505.2 16,605.2	9,592.5	172.5 174.9	177.5 179.9	-107.71 -107.72	2,503.2 2,503.3	6,474.5	3,463.9	3,128.6 3,124.3	335.35	10.329		
15,800.0	8,575.0	16,705.2	9,594.7	177.3	182.3	-107.74	2,503.4	6,674.5	3,464.6	3,120.1	344.52	10.056		
15,900.0	8,575.0	16,805.2	9,595.8	179.7	184.8	-107.76	2,503.5	6,774.4	3,464.9	3,115.8	349.11	9.925		
16,000.0	8,575.0 8,575.0	16,905.2 17,005.2	9,597.0 9,598.1	182.1 184.5	187.2 189.6	-107.78	2,503.7	6,874.4 6,974.4	3,465.3	3,111.6	353.70 358.29	9.797		
16,100.0 16,200.0	8,575.0	17,005.2	9,596.1	187.0	192.0	-107.79 -107.81	2,503.8 2,503.9	7,074.4	3,465.6 3,466.0	3,107.3 3,103.1	362.89	9.673 9.551		
40,000,0	0.575.0	47.005.4	0.000.0	400.4	404.4	407.00	0.504.0	7 474 4	0.400.0	0.000.0	207.40	0.400		
16,300.0 16,400.0	8,575.0 8,575.0	17,205.1	9,600.3 9,601.4	189.4 191.8	194.4 196.8	-107.83 -107.85	2,504.0	7,174.4 7,274.4	3,466.3	3,098.9	367.48 372.08	9.433 9.317		
16,500.0	8,575.0	17,305.1 17,405.1	9,602.6	194.2	199.3	-107.86	2,504.1 2,504.3	7,274.4	3,466.7 3,467.0	3,094.6 3,090.4	376.67	9.317		
16,600.0	8,575.0	17,505.1	9,603.7	194.2	201.7	-107.88	2,504.4	7,474.4	3,467.4	3,086.1	381.27	9.094		
16,700.0	8,575.0	17,605.1	9,604.8	199.1	204.1	-107.90	2,504.5	7,574.3	3,467.7	3,081.9	385.87	8.987		
16,800.0	8,575.0	17,705.1	9,605.9	201.5	206.5	-107.92	2,504.6	7,674.3	3,468.1	3,077.6	390.46	8.882		
16,900.0	8,575.0	17,805.1	9,607.1	203.9	208.9	-107.94	2,504.7	7,774.3	3,468.4	3,073.4	395.06	8.779		
17,000.0	8,575.0	17,905.1	9,608.2	206.3	211.4	-107.95	2,504.9	7,874.3	3,468.8	3,069.1	399.66	8.679		
17,100.0	8,575.0	18,005.1	9,609.3	208.8	213.8	-107.97	2,505.0	7,974.3	3,469.1	3,064.9	404.26	8.581		
17,200.0	8,575.0	18,105.1	9,610.4	211.2	216.2	-107.99	2,505.1	8,074.3	3,469.5	3,060.6	408.86	8.486		
17,300.0	8,575.0	18,205.1	9,611.5	213.6	218.6	-108.01	2,505.2	8,174.3	3,469.8	3,056.4	413.46	8.392		
17,400.0	8,575.0	18,305.1	9,612.7	216.0	221.1	-108.02	2,505.3	8,274.3	3,470.2	3,052.1	418.07	8.301		
17,500.0	8,575.0	18,405.1	9,613.8	218.5	223.5	-108.04	2,505.5	8,374.2	3,470.5	3,047.9	422.67	8.211		
17,600.0	8,575.0	18,505.1	9,614.9	220.9	225.9	-108.06	2,505.6	8,474.2	3,470.9	3,043.6	427.27	8.123		
17,700.0	8,575.0	18,605.1	9,616.0	223.3	228.3	-108.08	2,505.7	8,574.2	3,471.2	3,039.4	431.87	8.038		
17,800.0	8,575.0	18,705.0	9,617.1	225.8	230.8	-108.09	2,505.8	8,674.2	3,471.6	3,035.1	436.47	7.954		
17,900.0	8,575.0	18,805.0	9,618.3	228.2	233.2	-108.11	2,505.9	8,774.2	3,472.0	3,030.9	441.08	7.872		
18,000.0	8,575.0	18,905.0	9,619.4	230.6	235.6	-108.13	2,506.1	8,874.2	3,472.3	3,026.6	445.68	7.791		
18,100.0	8,575.0	19,005.0	9,620.5	233.0	238.1	-108.15	2,506.2	8,974.2	3,472.7	3,022.4	450.28	7.712		
18,200.0	8,575.0	19,105.0	9,621.6	235.5	240.5	-108.16	2,506.3	9,074.1	3,473.0	3,018.1	454.89	7.635		
18,300.0	8,575.0	19,205.0	9,622.8	237.9	242.9	-108.18	2,506.4	9,174.1	3,473.4	3,013.9	459.49	7.559		
18,400.0	8,575.0	19,305.0	9,623.9	240.3	245.4	-108.20	2,506.5	9,274.1	3,473.7	3,009.6	464.09	7.485		
18,500.0	8,575.0	19,405.0	9,625.0	242.8	247.8	-108.22	2,506.7	9,374.1	3,474.1	3,005.4	468.70	7.412		
18,600.0	8,575.0	19,505.0	9,626.1	245.2	250.2	-108.23	2,506.8	9,474.1	3,474.4	3,001.1	473.30	7.341		
18,700.0	8,575.0	19,605.0	9,627.2	247.6	252.7	-108.25	2,506.9	9,574.1	3,474.8	2,996.9	477.90	7.271		
18,800.0	8,575.0	19,705.0	9,628.4	250.1	255.1	-108.27	2,507.0	9,674.1	3,475.2	2,992.6	482.51	7.202		
18,900.0	8,575.0	19,805.0	9,629.5	252.5	257.5	-108.29	2,507.2	9,774.1	3,475.5	2,988.4	487.11	7.135		
19,000.0	8,575.0	19,905.0	9,630.6	255.0	260.0	-108.30	2,507.3	9,874.0	3,475.9	2,984.2	491.71	7.069		
19,100.0	8,575.0	20,005.0	9,631.7	257.4	262.4	-108.32	2,507.4	9,974.0	3,476.2	2,979.9	496.32	7.004		
19,200.0	8,575.0	20,105.0	9,632.8	259.8	264.8	-108.34	2,507.5	10,074.0	3,476.6	2,975.7	500.92	6.940		
19,300.0	8,575.0	20,205.0	9,634.0	262.3	267.3	-108.36	2,507.6	10,174.0	3,476.9	2,971.4	505.52	6.878		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

offset De urvey Prog	•		Camamile	Fed Com -	Simon C	amamile Fe	d Com #134H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error: Offset Well Error:	0.0 us
Refer	ence	Offse	et	Semi Major	Axis				Dista	nce				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,400.0	8,575.0	20,304.9	9,635.1	264.7	269.7	-108.37	2,507.8	10,274.0	3,477.3	2,967.2	510.12	6.817		
19,500.0	8,575.0	20,404.9	9,636.2	267.1	272.1	-108.39	2,507.9	10,374.0	3,477.7	2,962.9	514.73	6.756		
19,600.0	8,575.0	20,504.9	9,637.3	269.6	274.6	-108.41	2,508.0	10,474.0	3,478.0	2,958.7	519.33	6.697		
19,700.0	8,575.0	20,604.9	9,638.5	272.0	277.0	-108.43	2,508.1	10,574.0	3,478.4	2,954.5	523.93	6.639		
19,800.0	8,575.0	20,704.9	9,639.6	274.5	279.4	-108.44	2,508.2	10,673.9	3,478.7	2,950.2	528.53	6.582		
19,900.0	8,575.0	20,804.9	9,640.7	276.9	281.9	-108.46	2,508.4	10,773.9	3,479.1	2,946.0	533.13	6.526		
20,000.0	8,575.0	20,904.9	9,641.8	279.3	284.3	-108.48	2,508.5	10,873.9	3,479.5	2,941.7	537.73	6.471		
20,100.0	8,575.0	21,004.9	9,642.9	281.8	286.8	-108.50	2,508.6	10,973.9	3,479.8	2,937.5	542.33	6.416		
20,200.0	8,575.0	21,104.9	9,644.1	284.2	289.2	-108.51	2,508.7	11,073.9	3,480.2	2,933.2	546.93	6.363		
20,300.0	8,575.0	21,204.9	9,645.2	286.6	291.6	-108.53	2,508.8	11,173.9	3,480.5	2,929.0	551.53	6.311		
20,400.0	8,575.0	21,304.9	9,646.3	289.1	294.1	-108.55	2,509.0	11,273.9	3,480.9	2,924.8	556.13	6.259		
20,500.0	8,575.0	21,404.9	9,647.4	291.5	296.5	-108.57	2,509.1	11,373.9	3,481.3	2,920.5	560.73	6.208		
20,600.0	8,575.0	21,504.9	9,648.5	294.0	299.0	-108.58	2,509.2	11,473.8	3,481.6	2,916.3	565.33	6.159		
20,700.0	8,575.0	21,604.9	9,649.7	296.4	301.4	-108.60	2,509.3	11,573.8	3,482.0	2,912.1	569.93	6.110		
20,800.0	8,575.0	21,704.9	9,650.8	298.9	303.8	-108.62	2,509.4	11,673.8	3,482.4	2,907.8	574.53	6.061		
20,900.0	8,575.0	21,804.8	9,651.9	301.3	306.3	-108.64	2,509.6	11,773.8	3,482.7	2,903.6	579.13	6.014		
21,000.0	8,575.0	21,904.8	9,653.0	303.7	308.7	-108.65	2,509.7	11,873.8	3,483.1	2,899.4	583.72	5.967		
21,100.0	8,575.0	22,004.8	9,654.2	306.2	311.2	-108.67	2,509.8	11,973.8	3,483.4	2,895.1	588.32	5.921		
21,200.0	8,575.0	22,104.8	9,655.3	308.6	313.6	-108.69	2,509.9	12,073.8	3,483.8	2,890.9	592.92	5.876		
21,213.6	8,575.0	22,118.4	9,655.4	309.0	313.9	-108.69	2,509.9	12,087.3	3,483.9	2,890.3	593.54	5.870 SF	:	

Company: Matador Production Company

Project: Ranger/Arrowhead Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

Well Simon Camamile Fed Com #126H TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #135H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Prog													Offset Well Error:	0.0 usft
Refer		Offset		Semi Major		I II alaa tala	06438-111	0	Dist			0		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	+E/-W	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
								(usft)		(uoit)	(uo.t)			
0.0 100.0	0.0 100.0	0.0 64.0	0.0 64.0	0.0 0.1	0.0 0.1	-15.18 -15.18	2,139.5 2,139.5	-580.5 -580.5	2,217.2 2,216.9	2,216.7	0.21	N/A		
200.0	200.0	164.0	164.0	0.1	0.1	-15.18	2,139.5	-580.5	2,216.9	2,216.0	0.21	2,626.021		
300.0	300.0	264.0	264.0	0.8	0.7	-15.18	2,139.5	-580.5	2,216.9	2,215.3	1.56	1,420.041		
400.0	400.0	364.0	364.0	1.2	1.1	-15.18	2,139.5	-580.5	2,216.9	2,214.6	2.28	973.136		
500.0	500.0	464.0	464.0	1.6	1.4	-15.18	2,139.5	-580.5	2,216.9	2,213.9	3.00	740.189		
600.0	600.0	564.0	564.0	1.9	1.8	15 10	2 420 5	-580.5	2.246.0	2,213.2	3.71	597.227		
700.0	700.0	664.0	664.0	2.3	2.1	-15.18 -15.18	2,139.5 2,139.5	-580.5	2,216.9 2,216.9	2,213.2	4.43	597.227		
800.0	800.0	764.0	764.0	2.6	2.5	-15.18	2,139.5	-580.5	2,216.9	2,211.7	5.15	430.810		
900.0	900.0	864.0	864.0	3.0	2.9	-15.18	2,139.5	-580.5	2,216.9	2,211.0	5.86	378.128		
1,000.0	1,000.0	964.0	964.0	3.4	3.2	-15.18	2,139.5	-580.5	2,216.9	2,210.3	6.58	336.926		
1,100.0	1,100.0	1,064.0	1,064.0	3.7	3.6	124.03	2,139.5	-580.5	2,218.1	2,210.8	7.28	304.628		
1,200.0	1,199.7	1,163.7	1,163.7	4.0	3.9	124.09	2,139.5	-580.5	2,221.8	2,213.8	7.97	278.663		
1,300.0	1,299.1	1,263.1	1,263.1	4.4	4.3	124.20	2,139.5	-580.5	2,227.9	2,219.2	8.67	256.904		
1,372.0	1,370.4	1,334.4	1,334.4	4.6	4.6	124.29	2,139.5	-580.5	2,233.9	2,224.7	9.18	243.295		
1,400.0	1,398.0	1,362.0	1,362.0	4.7	4.7	124.39	2,139.5	-580.5	2,236.5	2,227.1	9.38	238.390		
1,500.0	1,496.7	1,460.7	1,460.7	5.1	5.0	124.73	2,139.5	-580.5	2,245.7	2,235.6	10.10	222.391		
1,600.0	1,595.4	1,593.5	1,593.5	5.5	5.5	125.17	2,138.8	-580.6	2,254.6	2,243.7	10.93	206.309		
1,700.0	1,694.1	1,749.8	1,749.7	5.9	6.0	125.65	2,134.2	-581.3	2,261.2	2,249.4	11.81	191.406		
1,800.0	1,792.7	1,906.8	1,906.5	6.3	6.5	126.09	2,125.2	-582.5	2,265.4	2,252.7	12.71	178.263		
1,900.0	1,891.4	2,064.4	2,063.5	6.7	7.0	126.49	2,112.0	-584.4	2,267.1	2,253.5	13.61	166.576		
2,000.0	1,990.1	2,222.4	2,220.5	7.1	7.6	126.85	2,094.5	-586.9	2,266.3	2,251.8	14.52	156.133		
2,100.0	2,088.8	2,380.4	2,377.0	7.5	8.2	127.17	2,072.7	-590.0	2,262.9	2,247.5	15.42	146.742		
2,200.0	2,187.5	2,524.2	2,518.8	7.9	8.7	127.43	2,049.2	-593.4	2,257.1	2,240.8	16.29	138.572		
2,300.0	2,286.2	2,623.7	2,616.8	8.3	9.1	127.61	2,032.1	-595.8	2,250.5	2,233.5	17.04	132.083		
2,400.0	2,384.9	2,723.3	2,714.8	8.8	9.5	127.78	2,015.0	-598.2	2,244.0	2,226.2	17.79	126.114		
2,500.0	2,483.5	2,822.8	2,812.9	9.2	9.9	127.96	1,997.9	-600.7	2,237.5	2,219.0	18.55	120.608		
2,600.0	2,582.2	2,922.4	2,910.9	9.6	10.3	127.90	1,980.8	-603.1	2,231.0	2,219.0	19.31	115.517		
2,700.0	2,680.9	3,021.9	3,008.9	10.1	10.3	128.32	1,963.6	-605.6	2,224.6	2,211.7	20.08	110.799		
2,800.0	2,779.6	3,121.5	3,107.0	10.1	11.1	128.50	1,946.5	-608.0	2,224.0	2,204.3	20.84	106.417		
2,900.0	2,878.3	3,221.0	3,205.0	10.9	11.5	128.68	1,929.4	-610.5	2,211.7	2,190.1	21.61	102.337		
3,000.0	2,977.0	3,320.6	3,303.0	11.3	11.9	128.86	1,912.3	-612.9	2,205.3	2,182.9	22.38	98.531		
3,100.0	3,075.7	3,420.1	3,401.1	11.8	12.3	129.04	1,895.2	-615.3	2,199.0	2,175.8	23.15	94.973		
3,200.0	3,174.3	3,519.7	3,499.1	12.2	12.8	129.23	1,878.1	-617.8	2,192.6	2,168.7	23.93	91.641		
3,300.0	3,273.0	3,619.2	3,597.1	12.6	13.2	129.41	1,861.0	-620.2	2,186.3	2,161.6	24.70	88.515		
3,400.0	3,371.7	3,718.8	3,695.2	13.1	13.6	129.60	1,843.9	-622.7	2,180.0	2,154.5	25.47	85.576		
3,500.0	3,470.4	3,818.3	3,793.2	13.5	14.0	129.79	1,826.7	-625.1	2,173.7	2,147.4	26.25	82.810		
3,600.0	3,569.1	3,917.9	3,891.2	14.0	14.5	129.98	1,809.6	-627.5	2,167.4	2,140.4	27.02	80.202		
3,700.0	3,667.8	4,017.4	3,989.3	14.4	14.9	130.17	1,792.5	-630.0	2,161.2	2,133.4	27.80	77.738		
3,800.0	3,766.5	4,117.0	4,087.3	14.8	15.3	130.36	1,775.4	-632.4	2,155.0	2,126.4	28.58	75.409		
3,900.0	3,865.1	4,216.5	4,185.4	15.3	15.8	130.55	1,758.3	-634.9	2,148.8	2,119.5	29.35	73.202		
4,000.0	3,963.8	4,316.0	4,283.4	15.7	16.2	130.74	1,741.2	-637.3	2,142.7	2,112.5	30.13	71.110		
4,100.0	4,062.5	4,415.6	4,283.4	16.1	16.6	130.74	1,724.1	-639.7	2,142.7	2,112.5	30.13	69.124		
4,200.0	4,161.2	4,515.1	4,479.5	16.6	17.1	131.13	1,706.9	-642.2	2,130.4	2,098.7	31.69	67.236		
4,300.0	4,259.9	4,614.7	4,577.5	17.0	17.5	131.33	1,689.8	-644.6	2,124.3		32.46	65.439		
4,400.0	4,358.6	4,714.2	4,675.5	17.5	17.9	131.52	1,672.7	-647.1	2,118.3	2,085.0	33.24	63.727		
4 500 5	4 457 -	4.640.0	4 770 6		40 :	404.70	4.055.5	240 -	0 110 =	0.070 -	04.65	00.00:		
4,500.0	4,457.3	4,813.8	4,773.6	17.9	18.4	131.72	1,655.6	-649.5	2,112.2		34.02	62.094		
4,600.0	4,555.9	4,913.3	4,871.6	18.3	18.8	131.92	1,638.5	-651.9	2,106.2		34.79	60.535		
4,700.0	4,654.6	5,012.9	4,969.6	18.8 19.2	19.3	132.12	1,621.4	-654.4	2,100.2		35.57	59.045 57.620		
4,800.0 4,900.0	4,753.3 4,852.0	5,112.4 5,212.0	5,067.7 5,165.7	19.2	19.7 20.2	132.32 132.53	1,604.3 1,587.2	-656.8 -659.3	2,094.3 2,088.3	2,057.9 2,051.2	36.35 37.12	56.256		
	.,002.0		5,.00.7			.32.00								
5,000.0	4,950.7	5,311.5	5,263.7	20.1	20.6	132.73	1,570.0	-661.7	2,082.4	2,044.5	37.90	54.949		
			20 Min											

Company: Matador Production Company

Project: Ranger/Arrowhead

Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

Well Simon Camamile Fed Com #126H

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Offset Des	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #135H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Progr													Offset Well Error:	0.0 usft
Refere Measured	ence Vertical	Offse Measured	t Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	o Contro	Dista Between	ance Between	Minimum	Separation		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
5,100.0	5,049.4	5,411.1	5,361.8	20.6	21.0	132.94	1,552.9	-664.1	2,076.5	2,037.9	38.67	53.696		
5,200.0	5,148.1	5,510.6	5,459.8	21.0	21.5	133.14	1,535.8	-666.6	2,070.7	2,031.2	39.45	52.492		
5,300.0	5,246.7	5,610.2	5,557.9	21.4	21.9	133.35	1,518.7	-669.0	2,064.9	2,024.6	40.22	51.337		
5,400.0	5,345.4	5,709.7	5,655.9	21.9	22.4	133.56	1,501.6	-671.5	2,059.1	2,018.1	41.00	50.226		
5,500.0	5,444.1	5,809.3	5,753.9	22.3	22.8	133.77	1,484.5	-673.9	2,053.3	2,011.5	41.77	49.158		
5,600.0	5,542.8	5,908.8	5,852.0	22.8	23.3	133.98	1,467.4	-676.3	2,047.6	2,005.0	42.54	48.130		
5,700.0	5,641.5	6,008.4	5,950.0	23.2	23.7	134.19	1,450.2	-678.8	2,041.8	1,998.5	43.32	47.139		
5,800.0	5,740.2	6,107.9	6,048.0	23.7	24.2	134.41	1,433.1	-681.2	2,036.2	1,992.1	44.09	46.185		
5,900.0	5,838.9 5,937.5	6,207.5	6,146.1	24.1	24.6 25.0	134.62 134.84	1,416.0 1,398.9	-683.7 -686.1	2,030.5 2,024.9	1,985.6 1,979.2	44.86 45.63	45.264 44.376		
6,000.0 6,100.0	6,036.2	6,307.0 6,406.6	6,244.1 6,342.1	24.5 25.0	25.0	135.05	1,381.8	-688.6	2,024.9	1,979.2	46.40	43.519		
6,200.0	6,134.9	6,506.1	6,440.2	25.4	25.9	135.27	1,364.7	-691.0	2,013.7	1,966.5	47.17	42.690		
6,300.0 6,400.0	6,233.6 6,332.3	6,605.7 6,705.2	6,538.2 6,636.2	25.9 26.3	26.4 26.8	135.49 135.71	1,347.6 1,330.5	-693.4 -695.9	2,008.2 2,002.6	1,960.2 1,953.9	47.94 48.71	41.890 41.115		
6,500.0	6,431.0	6,804.7	6,734.3	26.8	27.3	135.71	1,313.3	-698.3	1,997.2	1,947.7	49.48	40.366		
6,600.0	6,529.6	6,904.3	6,832.3	27.2	27.7	136.16	1,296.2	-700.8	1,991.7	1,941.5	50.24	39.641		
6,700.0	6,628.3	7,003.8	6,930.3	27.6	28.2	136.38	1,279.1	-703.2	1,986.3	1,935.3	51.01	38.939		
6,800.0	6,727.0	7,003.6	7,028.4	28.1	28.6	136.61	1,262.0	-705.2	1,980.9	1,933.3	51.78	38.258		
6,900.0	6,825.7	7,103.4	7,126.4	28.5	29.1	136.83	1,244.9	-708.1	1,975.5	1,923.0	52.54	37.599		
7,000.0	6,924.4	7,295.4	7,217.5	29.0	29.5	137.05	1,229.0	-710.3	1,970.2	1,917.0	53.29	36.971		
7,100.0	7,023.1	7,361.5	7,282.7	29.4	29.8	137.20	1,218.5	-711.8	1,966.2	1,912.2	53.97	36.429		
7,200.0	7,121.8	7,427.6	7,348.2	29.9	30.1	137.37	1,209.0	-713.2	1,963.8	1,909.2	54.64	35.943		
7,300.0	7,220.4	7,500.0	7,419.9	30.3	30.4	137.55	1,199.9	-714.5	1,963.2	1,907.9	55.30	35.499		
7,301.4	7,221.8	7,500.0	7,419.9	30.3	30.4	137.55	1,199.9	-714.5	1,963.2	1,907.9	55.31	35.495 C	С	
7,400.0	7,319.1	7,559.9	7,479.5	30.7	30.6	137.71	1,193.5	-715.4	1,964.3	1,908.4	55.91	35.134		
7,466.5	7,384.7	7,600.0	7,519.4	31.0	30.8	137.82	1,189.6	-716.0	1,966.0	1,909.7	56.30	34.920		
7,500.0	7,417.8	7,625.9	7,545.2	31.2	30.9	137.90	1,187.4	-716.3	1,967.0	1,910.5	56.52	34.805		
7,600.0	7,516.9	7,700.0	7,619.1	31.6	31.1	138.10	1,181.9	-717.1	1,970.0	1,912.9	57.13	34.480		
7,700.0	7,616.2	7,758.0	7,677.0	32.0	31.3	138.24	1,178.6	-717.5	1,972.7	1,915.1	57.65	34.219		
7,800.0	7,715.8	7,824.1	7,743.1	32.4	31.6	138.37	1,176.0	-717.9	1,975.3	1,917.1	58.18	33.953		
7,900.0	7,815.6	7,900.0	7,818.9	32.8	31.8	138.47	1,174.3	-718.1	1,977.6	1,918.9	58.73	33.671		
8,000.0	7,915.5	7,960.6	7,879.5	33.1	32.0	138.53	1,174.0	-718.2	1,979.6	1,920.4	59.17	33.458		
8,086.5	8,002.0	8,047.1	7,966.0	33.3	32.2	-0.64	1,174.0	-718.2	1,980.3	1,920.6	59.72	33.161		
8,100.0	8,015.5	8,060.6	7,979.5	33.4	32.3	-90.44	1,174.0	-718.2	1,980.3	1,920.5	59.80	33.115		
8,150.0	8,065.4	8,110.5	8,029.4	33.5	32.4	-90.53	1,174.0	-718.2	1,980.3	1,920.2	60.10	32.948		
8,200.0	8,114.8	8,159.9	8,078.8	33.6	32.6	-90.75	1,174.0	-718.2	1,980.4	1,920.0	60.40	32.790		
8,250.0	8,163.3	8,208.4	8,127.3	33.7	32.7	-91.06	1,174.0	-718.2	1,980.6	1,919.9	60.68	32.640		
8,300.0	8,210.6	8,255.7	8,174.6	33.8	32.8	-91.47	1,174.0	-718.2	1,981.0	1,920.0	60.95	32.500		
8,350.0	8,256.3	8,301.4	8,220.3	33.8	33.0	-91.93	1,174.0	-718.2	1,981.7	1,920.4	61.22	32.372		
8,400.0 8,450.0	8,300.1 8,341.6	8,345.2 8,386.7	8,264.1 8,305.6	33.9 33.9	33.1 33.2	-92.44 -92.95	1,174.0 1,174.0	-718.2 -718.2	1,982.7 1,984.3	1,921.2 1,922.6	61.47 61.71	32.256 32.153		
8,500.0	8,380.6	8,425.6	8,344.6	33.9	33.3	-93.43	1,174.0	-718.2	1,986.5	1,924.6	61.95	32.065		
8,550.0	8,416.6	8,461.7	8,380.6	33.9	33.4	-93.84	1,174.0	-718.2	1,989.6	1,927.4	62.19	31.991		
8,600.0	8,449.5	8,505.4	8,413.5	33.9	33.6	-94.15	1,174.0	-718.2	1,993.6	1,931.1	62.47	31.915		
8,650.0	8,479.0	8,524.1	8,443.0	33.9	33.6	-94.33	1,174.0	-718.2	1,998.6	1,936.0	62.67	31.890		
8,700.0	8,504.8	8,549.9	8,468.8	33.9	33.7	-94.34	1,174.0	-718.2	2,004.9	1,942.0	62.92	31.863		
8,750.0	8,526.9	8,571.9	8,490.9	33.8	33.8	-94.15	1,174.0	-718.2	2,012.4	1,949.2	63.18	31.853		
8,800.0	8,544.9	8,590.0	8,508.9	33.8	33.8	-93.74	1,174.0	-718.2	2,021.2	1,957.8	63.44	31.859		
8,850.0	8,558.8	8,603.9	8,522.8	33.8	33.9	-93.09	1,174.0	-718.2	2,031.4	1,967.7	63.71	31.882		
8,900.0	8,568.4	8,613.5	8,532.4	33.7	33.9	-92.18	1,174.0	-718.2	2,042.9	1,978.9	63.99	31.924		
8,950.0	8,573.8	8,618.9	8,537.8	33.7	33.9	-91.01	1,174.0	-718.2	2,055.6	1,991.4	64.27	31.985		
8,986.5	8,575.0	8,620.0	8,539.0	33.7	33.9	-90.00	1,174.0	-718.2	2,065.7	2,001.2	64.47	32.042		

Company: Matador Production Company

Project: Ranger/Arrowhead Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

Well Simon Camamile Fed Com #126H TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

							4 00111 // 10011	- Wellbore	#1 - BLM I	riaii#i			Offset Site Error:	0.0 usft
Survey Program													Offset Well Error:	0.0 usft
Referen Measured \	nce Vertical	Offset Measured	Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	o Contro	Dista Between	ance Between	Minimum	Separation	)A/	
Depth	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
8,993.2	8,575.0	8,620.0	8,539.0	33.8	33.9	-90.00	1,174.0	-718.2	2,067.6	2,003.1	64.51	32.054		
9,000.0	8,575.0	8,620.0	8,539.0	33.8	33.9	-90.00	1,174.0	-718.2	2,069.6	2,005.1	64.54	32.066		
9,100.0	8,575.0	8,620.0	8,539.0	33.9	33.9	-90.00	1,174.0	-718.2	2,101.1	2,035.9	65.15	32.251		
9,200.0	8,575.0	8,620.0	8,539.0	34.4	33.9	-90.00	1,174.0	-718.2	2,136.8	2,071.0	65.83	32.460		
9,300.0	8,575.0	8,620.0	8,539.0	35.3	33.9	-90.00	1,174.0	-718.2	2,176.5	2,109.9	66.57	32.696		
9,400.0	8,575.0	10,365.6	9,539.5	36.3	41.0	-116.82	1,175.2	277.2	2,217.5		72.39	30.634		
9,500.0	8,575.0	10,465.6	9,540.5	37.6	42.3	-116.85	1,175.3	377.2	2,218.0	2,143.3	74.73	29.680		
9,600.0	8,575.0	10,565.5	9,541.6	38.9	43.7	-116.87	1,175.4	477.2	2,218.5		77.26	28.715		
9,700.0	8,575.0	10,665.5	9,542.7	40.4	45.2	-116.89	1,175.6	577.2	2,219.0		79.95	27.755		
9,800.0	8,575.0	10,765.5	9,543.7	41.9	46.8	-116.92	1,175.7	677.2	2,219.5		82.79	26.808		
9,900.0	8,575.0	10,865.5	9,544.8	43.6	48.5	-116.94	1,175.8	777.2	2,219.9	2,134.2	85.76	25.884		
10,000.0	8,575.0	10,965.5	9,545.9	45.3	50.2	-116.97	1,175.9	877.1	2,220.4	2,131.6	88.86	24.988		
10,100.0	8,575.0	11,065.5	9,546.9	47.0	52.0	-116.99	1,176.0	977.1	2,220.9		92.06	24.125		
10,200.0	8,575.0	11,165.5	9,548.0	48.9	53.8	-117.02	1,176.2	1,077.1	2,221.4	2,126.1	95.36	23.295		
10,300.0	8,575.0	11,265.5	9,549.1	50.8	55.7	-117.04	1,176.3	1,177.1	2,221.9		98.74	22.502		
10,400.0	8,575.0	11,365.5	9,550.1	52.7	57.7	-117.06	1,176.4	1,277.1	2,222.4	2,120.2	102.21	21.744		
10,500.0	8,575.0	11,465.5	9,551.2	54.7	59.6	-117.09	1,176.5	1,377.1	2,222.9	2,117.1	105.74	21.022		
10,600.0	8,575.0	11,565.5	9,552.3	56.7	61.7	-117.11	1,176.7	1,477.1	2,223.4	2,114.0	109.33	20.336		
10,700.0	8,575.0	11,665.5	9,553.3	58.7	63.7	-117.14	1,176.8	1,577.1	2,223.9	2,110.9	112.99	19.683		
10,800.0	8,575.0	11,765.5	9,554.4	60.8	65.8	-117.16	1,176.9	1,677.1	2,224.4	2,107.7	116.69	19.062		
10,900.0	8,575.0	11,865.5	9,555.5	62.9	67.9	-117.19	1,177.0	1,777.0	2,224.9	2,104.4	120.44	18.473		
11,000.0	8,575.0	11,965.5	9,556.5	65.0	70.0	-117.21	1,177.1	1,877.0	2,225.3	2,101.1	124.23	17.913		
11,100.0	8,575.0	12,065.5	9,557.6	67.1	72.1	-117.23	1,177.3	1,977.0	2,225.8	2,097.8	128.06	17.381		
11,200.0	8,575.0	12,165.5	9,558.6	69.3	74.3	-117.26	1,177.4	2,077.0	2,226.3	2,094.4	131.92	16.876		
11,300.0	8,575.0	12,265.5	9,559.7	71.5	76.5	-117.28	1,177.5	2,177.0	2,226.8	2,091.0	135.82	16.396		
11,400.0	8,575.0	12,365.4	9,560.8	73.7	78.7	-117.31	1,177.6	2,277.0	2,227.3	2,087.6	139.74	15.939		
11,500.0	8,575.0	12,465.4	9,561.8	75.9	80.9	-117.33	1,177.7	2,377.0	2,227.8	2,084.1	143.69	15.504		
11,600.0	8,575.0	12,565.4	9,562.9	78.2	83.1	-117.36	1,177.9	2,477.0	2,228.3	2,080.6	147.66	15.091		
11,700.0	8,575.0	12,665.4	9,564.0	80.4	85.3	-117.38	1,178.0	2,576.9	2,228.8	2,077.2	151.66	14.696		
11,800.0	8,575.0	12,765.4	9,565.0	82.7	87.6	-117.40	1,178.1	2,676.9	2,229.3	2,073.6	155.67	14.321		
11,900.0	8,575.0	12,865.4	9,566.1	84.9	89.8	-117.43	1,178.2	2,776.9	2,229.8	2,070.1	159.70	13.962		
12,000.0	8,575.0	12,965.4	9,567.2	87.2	92.1	-117.45	1,178.4	2,876.9	2,230.3	2,066.5	163.75	13.620		
12,100.0	8,575.0	13,065.4	9,568.2	89.5	94.4	-117.48	1,178.5	2,976.9	2,230.8	2,063.0	167.82	13.293		
12,200.0	8,575.0	13,165.4	9,569.3	91.8	96.7	-117.50	1,178.6	3,076.9	2,231.3	2,059.4	171.90	12.980		
12,300.0	8,575.0	13,265.4	9,570.4	94.1	99.0	-117.53	1,178.7	3,176.9	2,231.8	2,055.8	175.99	12.681		
12,400.0	8,575.0	13,365.4	9,571.4	96.4	101.3	-117.55	1,178.8	3,276.9	2,232.3	2,052.2	180.10	12.395		
12,500.0	8,575.0	13,465.4	9,572.5	98.7	103.6	-117.57	1,179.0	3,376.9	2,232.8	2,048.6	184.21	12.121		
12,600.0	8,575.0	13,565.4	9,573.6	101.0	105.9	-117.60	1,179.1	3,476.8	2,233.3		188.34	11.858		
12,700.0	8,575.0	13,665.4	9,574.6	103.4	108.2	-117.62	1,179.2	3,576.8	2,233.8	2,041.3	192.47	11.606		
12,800.0	8,575.0	13,765.4	9,575.7	105.7	110.5	-117.65	1,179.3	3,676.8	2,234.3		196.62	11.364		
12,900.0	8,575.0	13,865.4	9,576.7	108.0	112.9	-117.67	1,179.5	3,776.8	2,234.8		200.77	11.131		
13,000.0	8,575.0	13,965.4	9,577.8	110.4	115.2	-117.69	1,179.6	3,876.8	2,235.3		204.93	10.908		
13,100.0	8,575.0	14,065.3	9,578.9	112.7	117.6	-117.72	1,179.7	3,976.8	2,235.8		209.10	10.693		
13,200.0	8,575.0	14,165.3	9,579.9	115.1	119.9	-117.74	1,179.8	4,076.8	2,236.3		213.27	10.486		
13,300.0	8,575.0	14,265.3	9,581.0	117.5	122.3	-117.77	1,179.9	4,176.8	2,236.8		217.45	10.287		
13,400.0	8,575.0	14,365.3	9,582.1	119.8	124.6	-117.79	1,180.1	4,276.8	2,237.3	2,015.7	221.63	10.095		
13,500.0	8,575.0	14,465.3	9,583.1	122.2	127.0	-117.81	1,180.2	4,376.7	2,237.8	2,012.0	225.82	9.910		
13,600.0	8,575.0	14,565.3	9,584.2	124.6	129.3	-117.84	1,180.3	4,476.7	2,238.3	2,008.3	230.02	9.731		
13,700.0	8,575.0	14,665.3	9,585.3	126.9	131.7	-117.86	1,180.4	4,576.7	2,238.8	2,004.6	234.22	9.559		
13,800.0	8,575.0	14,765.3	9,586.3	129.3	134.1	-117.89	1,180.6	4,676.7	2,239.3	2,000.9	238.42	9.392		
13,900.0	8,575.0	14,865.3	9,587.4	131.7	136.5	-117.91	1,180.7	4,776.7	2,239.8	1,997.2	242.63	9.232		
14,000.0	8,575.0	14,965.3	9,588.5	134.1	138.8	-117.93	1,180.8	4,876.7	2,240.3	1,993.5	246.84	9.076		

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com

Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

Well Simon Camamile Fed Com #126H TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Offset De		Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #135H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Prog				Somi Moior	Avia				Diete				Offset Well Error:	0.0 usft
Refer Measured	ence Vertical	Offse Measured	τ Vertical	Semi Major Reference	Offset	Highside	Offset Wellbor	e Centre	Dista Between	ance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	warning	
14,100.0	8,575.0	15,065.3	9,589.5	136.4	141.2	-117.96	1,180.9	4,976.7	2,240.8	1,989.8	251.05	8.926		
14,200.0	8,575.0	15,165.3	9,590.6	138.8	143.6	-117.98	1,181.0	5,076.7	2,241.3	1,986.1	255.27	8.780		
14,300.0	8,575.0	15,265.3	9,591.6	141.2	146.0	-118.01	1,181.2	5,176.7	2,241.8	1,982.3	259.49	8.639		
14,400.0	8,575.0	15,365.3	9,592.7	143.6	148.4	-118.03	1,181.3	5,276.6	2,242.3	1,978.6	263.71	8.503		
14,500.0	8,575.0	15,465.3	9,593.8	146.0	150.7	-118.05	1,181.4	5,376.6	2,242.8	1,974.9	267.93	8.371		
14,600.0	8,575.0	15,565.3	9,594.8	148.4	153.1	-118.08	1,181.5	5,476.6	2,243.4	1,971.2	272.16	8.243		
14,700.0	8,575.0	15,665.3	9,595.9	150.8	155.5	-118.10	1,181.7	5,576.6	2,243.9	1,967.5	276.39	8.119		
14,800.0 14,900.0	8,575.0	15,765.3 15,865.2	9,597.0 9,598.0	153.2	157.9 160.3	-118.13	1,181.8	5,676.6 5,776.6	2,244.4 2,244.9	1,963.8 1,960.0	280.62 284.85	7.998 7.881		
15,000.0	8,575.0 8,575.0	15,965.2	9,596.0	155.6 158.0	162.7	-118.15 -118.17	1,181.9 1,182.0	5,876.6	2,244.9	1,956.3	289.08	7.767		
15,100.0	8,575.0	16,065.2	9,600.2	160.4	165.1	-118.20	1,182.1	5,976.6	2,245.9	1,952.6	293.32	7.657		
15,200.0	9 575 0	16,165.2	0.601.2	162.0	167.5	110 22		6,076.5	2 246 4	1 0/19 0	207.55	7.550		
15,200.0	8,575.0	16,165.2	9,601.2 9,602.3	162.8	167.5	-118.22	1,182.3	6,176.5	2,246.4	1,948.9	297.55	7.550		
15,300.0	8,575.0 8,575.0	16,365.2	9,602.3	165.2 167.6	169.9 172.3	-118.24 -118.27	1,182.4 1,182.5	6,276.5	2,246.9 2,247.4	1,945.1 1,941.4	301.79 306.03	7.445 7.344		
15,400.0	8,575.0	16,465.2	9,604.4	170.0	174.7	-118.29	1,182.6	6,376.5	2,247.4	1,941.4	310.27	7.344		
15,600.0	8,575.0	16,565.2	9,605.5	172.5	177.1	-118.32	1,182.8	6,476.5	2,248.4	1,933.9	314.50	7.149		
15,700.0	8,575.0	16,665.2	9,606.6	174.9	179.6	-118.34	1,182.9	6,576.5	2,249.0	1,930.2	318.74	7.056		
15,800.0	8,575.0	16,765.2	9,607.6	177.3	182.0	-118.36	1,183.0	6,676.5	2,249.5	1,926.5	322.98	6.965		
15,900.0	8,575.0	16,865.2	9,608.7	179.7	184.4	-118.39	1,183.1	6,776.5	2,250.0	1,922.8	327.23	6.876		
16,000.0	8,575.0	16,965.2	9,609.7	182.1	186.8	-118.41	1,183.2	6,876.5	2,250.5	1,919.0	331.47	6.790		
16,100.0	8,575.0	17,065.2	9,610.8	184.5	189.2	-118.44	1,183.4	6,976.4	2,251.0	1,915.3	335.71	6.705		
16,200.0	8,575.0	17,165.2	9,611.9	187.0	191.6	-118.46	1,183.5	7,076.4	2,251.5	1,911.6	339.95	6.623		
16,300.0	8,575.0	17,265.2	9,612.9	189.4	194.0	-118.48	1,183.6	7,176.4	2,252.0	1,907.8	344.19	6.543		
16,400.0	8,575.0	17,365.2	9,614.0	191.8	196.4	-118.51	1,183.7	7,276.4	2,252.5	1,904.1	348.43	6.465		
16,500.0	8,575.0	17,465.2	9,615.1	194.2	198.9	-118.53	1,183.9	7,376.4	2,253.1	1,900.4	352.68	6.388		
16,600.0	8,575.0	17,565.2	9,616.1	196.6	201.3	-118.55	1,184.0	7,476.4	2,253.6	1,896.7	356.92	6.314		
16,700.0	8,575.0	17,665.1	9,617.2	199.1	203.7	-118.58	1,184.1	7,576.4	2,254.1	1,892.9	361.16	6.241		
16,800.0	8,575.0	17,765.1	9,618.3	201.5	206.1	-118.60	1,184.2	7,676.4	2,254.6	1,889.2	365.40	6.170		
16,900.0	8,575.0	17,865.1	9,619.3	203.9	208.5	-118.62	1,184.3	7,776.4	2,255.1	1,885.5	369.64	6.101		
17,000.0	8,575.0	17,965.1	9,620.4	206.3	211.0	-118.65	1,184.5	7,876.3	2,255.6	1,881.8	373.88	6.033		
17,100.0	8,575.0	18,065.1	9,621.5	208.8	213.4	-118.67	1,184.6	7,976.3	2,256.2	1,878.0	378.12	5.967		
17,200.0	8,575.0	18,165.1	9,622.5	211.2	215.8	-118.70	1,184.7	8,076.3	2,256.7	1,874.3	382.36	5.902		
17,300.0	8,575.0	18,265.1	9,623.6	213.6	218.2	-118.72	1,184.8	8,176.3	2,257.2	1,870.6	386.60	5.839		
17,400.0	8,575.0	18,365.1	9,624.7	216.0	220.7	-118.74	1,185.0	8,276.3	2,257.7	1,866.9	390.84	5.777		
17,500.0	8,575.0	18,465.1	9,625.7	218.5	223.1	-118.77	1,185.1	8,376.3	2,258.2	1,863.1	395.08	5.716		
17,600.0	8,575.0	18,565.1	9,626.8	220.9	225.5	-118.79	1,185.2	8,476.3	2,258.7	1,859.4	399.32	5.657		
17,700.0	8,575.0	18,665.1	9,627.8	223.3	227.9	-118.81	1,185.3	8,576.3	2,259.3	1,855.7	403.56	5.598		
17,800.0	8,575.0	18,765.1	9,628.9	225.8	230.4	-118.84	1,185.4	8,676.3	2,259.8	1,852.0	407.79	5.542		
17,900.0	8,575.0	18,865.1	9,630.0	228.2	232.8	-118.86	1,185.6	8,776.2	2,260.3	1,848.3	412.03	5.486		
18,000.0	8,575.0	18,965.1	9,631.0	230.6	235.2	-118.88	1,185.7	8,876.2	2,260.8	1,844.6	416.26	5.431		
18,100.0	8,575.0	19,065.1	9,632.1	233.0	237.6	-118.91	1,185.8	8,976.2	2,261.3	1,840.8	420.50	5.378		
18,200.0	8,575.0	19,165.1	9,633.2	235.5	240.1	-118.93	1,185.9	9,076.2	2,261.9	1,837.1	424.73	5.325		
18,300.0	8,575.0	19,265.1	9,634.2	237.9	242.5	-118.95	1,186.1	9,176.2	2,262.4	1,833.4	428.97	5.274		
18,400.0	8,575.0	19,365.0	9,635.3	240.3	244.9	-118.98	1,186.2	9,276.2	2,262.9	1,829.7	433.20	5.224		
18,500.0	8,575.0	19,465.0	9,636.4	242.8	247.4	-119.00	1,186.3	9,376.2	2,263.4	1,826.0	437.43	5.174		
18,600.0	8,575.0	19,565.0	9,637.4	245.2	249.8	-119.02	1,186.4	9,476.2	2,264.0	1,822.3	441.66	5.126		
18,700.0	8,575.0	19,665.0	9,638.5	247.6	252.2	-119.05	1,186.5	9,576.2	2,264.5	1,818.6	445.89	5.079		
18,800.0	8,575.0	19,765.0	9,639.6	250.1	254.7	-119.07	1,186.7	9,676.1	2,265.0	1,814.9	450.12	5.032		
18,900.0	8,575.0	19,865.0	9,640.6	252.5	257.1	-119.10	1,186.8	9,776.1	2,265.5	1,811.2	454.35	4.986		
19,000.0 19,100.0	8,575.0 8,575.0	19,965.0 20,065.0	9,641.7 9,642.7	255.0 257.4	259.5 262.0	-119.12 -119.14	1,186.9 1,187.0	9,876.1 9,976.1	2,266.0 2,266.6	1,807.5 1,803.8	458.57 462.80	4.942 4.898		
19,200.0	8,575.0	20,165.0	9,643.8	259.8	264.4	-119.17	1,187.2	10,076.1	2,267.1	1,800.1	467.02	4.854		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Well Simon Camamile Fed Com #126H

Offset De	•		Camamile	Fed Com -	Simon C	amamile Fe	d Com #135H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 us
Survey Prog Refer		WD <b>Offse</b>	et	Semi Major	Axis				Dista	ınce			Offset Well Error:	0.0 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,300.0	8,575.0	20,265.0	9,644.9	262.3	266.8	-119.19	1,187.3	10,176.1	2,267.6	1,796.4	471.25	4.812		
19,400.0	8,575.0	20,365.0	9,645.9	264.7	269.3	-119.21	1,187.4	10,276.1	2,268.1	1,792.7	475.47	4.770		
19,500.0	8,575.0	20,465.0	9,647.0	267.1	271.7	-119.24	1,187.5	10,376.1	2,268.7	1,789.0	479.69	4.729		
19,600.0	8,575.0	20,565.0	9,648.1	269.6	274.1	-119.26	1,187.6	10,476.0	2,269.2	1,785.3	483.91	4.689		
19,700.0	8,575.0	20,665.0	9,649.1	272.0	276.6	-119.28	1,187.8	10,576.0	2,269.7	1,781.6	488.13	4.650		
19,800.0	8,575.0	20,765.0	9,650.2	274.5	279.0	-119.31	1,187.9	10,676.0	2,270.3	1,777.9	492.35	4.611		
19,900.0	8,575.0	20,865.0	9,651.3	276.9	281.5	-119.33	1,188.0	10,776.0	2,270.8	1,774.2	496.57	4.573		
20,000.0	8,575.0	20,965.0	9,652.3	279.3	283.9	-119.35	1,188.1	10,876.0	2,271.3	1,770.5	500.78	4.536		
20,100.0	8,575.0	21,065.0	9,653.4	281.8	286.3	-119.38	1,188.3	10,976.0	2,271.8	1,766.8	505.00	4.499		
20,200.0	8,575.0	21,164.9	9,654.5	284.2	288.8	-119.40	1,188.4	11,076.0	2,272.4	1,763.2	509.21	4.463		
20,300.0	8,575.0	21,264.9	9,655.5	286.6	291.2	-119.42	1,188.5	11,176.0	2,272.9	1,759.5	513.42	4.427		
20,400.0	8,575.0	21,364.9	9,656.6	289.1	293.6	-119.45	1,188.6	11,276.0	2,273.4	1,755.8	517.63	4.392		
20,500.0	8,575.0	21,464.9	9,657.7	291.5	296.1	-119.47	1,188.7	11,375.9	2,274.0	1,752.1	521.84	4.358		
20,600.0	8,575.0	21,564.9	9,658.7	294.0	298.5	-119.49	1,188.9	11,475.9	2,274.5	1,748.4	526.05	4.324		
20,700.0	8,575.0	21,664.9	9,659.8	296.4	301.0	-119.52	1,189.0	11,575.9	2,275.0	1,744.8	530.26	4.290		
20,800.0	8,575.0	21,764.9	9,660.8	298.9	303.4	-119.54	1,189.1	11,675.9	2,275.5	1,741.1	534.46	4.258		
20,900.0	8,575.0	21,864.9	9,661.9	301.3	305.8	-119.56	1,189.2	11,775.9	2,276.1	1,737.4	538.67	4.225		
21,000.0	8,575.0	21,964.9	9,663.0	303.7	308.3	-119.58	1,189.4	11,875.9	2,276.6	1,733.7	542.87	4.194		
21,100.0	8,575.0	22,064.9	9,664.0	306.2	310.7	-119.61	1,189.5	11,975.9	2,277.1	1,730.1	547.07	4.162		
21,200.0	8,575.0	22,166.8	9,664.5	308.6	313.2	-119.61	1,189.9	12,077.8	2,277.6	1,726.2	551.41	4.131		
21,213.6	8,575.0	22,180.4	9,664.5	309.0	313.5	-119.61	1,190.0	12,091.4	2,277.7	1,725.7	552.00	4.126 ES	, SF	

Matador Production Company Company:

Project: Ranger/Arrowhead Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

KB @ 3377.5usft Grid North Reference:

**Survey Calculation Method:** Minimum Curvature

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft

Output errors are at 2.00 sigma EDM 5000.14 Single User Db Database:

Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	ed Com #136H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 usft
Survey Prog													Offset Well Error:	0.0 usft
Refer Measured	ence Vertical	Offse Measured	t Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	o Contro	Dista	ance Between	Minimum	Separation		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
0.0	0.0	1.0	-1.0	0.0	0.0	69.31	30.2	79.9	85.4					
100.0	100.0	101.0	99.0	0.1	0.1	69.31	30.2	79.9	85.4	85.1	0.26	328.635		
200.0	200.0	201.0	199.0	0.5	0.5	69.31	30.2	79.9	85.4	84.4	0.98	87.435		
300.0	300.0	301.0	299.0	0.8	0.8	69.31	30.2	79.9	85.4	83.7	1.69	50.426		
400.0 500.0	400.0 500.0	401.0	399.0 499.0	1.2 1.6	1.2 1.6	69.31 69.31	30.2 30.2	79.9 79.9	85.4 85.4	83.0 82.3	2.41 3.13	35.429 27.308		
		501.0												
600.0 700.0	600.0 700.0	601.0 701.0	599.0 699.0	1.9 2.3	1.9 2.3	69.31 69.31	30.2 30.2	79.9 79.9	85.4	81.6 80.8	3.84 4.56	22.215		
800.0	800.0	801.0	799.0	2.5	2.5	69.31	30.2	79.9	85.4 85.4	80.1	5.28	18.724 16.181		
900.0	900.0	901.0	899.0	3.0	3.0	69.31	30.2	79.9	85.4	79.4	6.00	14.246		
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	69.31	30.2	79.9	85.4	78.7	6.71	12.724 (	CC, ES	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	-152.17	30.2	79.9	87.3	79.9	7.41	11.780		
1,200.0	1,199.7	1,201.3	1,198.7	4.0	4.1	-153.98	30.2	79.9	93.2	85.1	8.11	11.493		
1,300.0	1,299.1	1,301.9	1,298.1	4.4	4.4	-156.53	30.2	79.9	103.1	94.3	8.81	11.704		
1,372.0	1,370.4	1,369.4	1,369.4	4.6	4.7	-158.57	30.2	79.9	112.8	103.5	9.30	12.134		
1,400.0	1,398.0	1,403.0	1,397.0	4.7	4.8	-159.38	30.2	79.9	117.0	107.5	9.51	12.301		
1,500.0	1,496.7	1,495.7	1,495.7	5.1	5.1	-161.84	30.2	79.9	132.3	122.1	10.19	12.986		
1,600.0	1,595.4	1,596.7	1,596.7	5.5	5.5	-163.94	30.0	79.1	147.0	136.1	10.89	13.504		
1,700.0	1,694.1	1,698.2	1,698.2	5.9	5.8	-165.91	29.4	76.6	160.3	148.7	11.58	13.840		
1,800.0	1,792.7	1,800.1	1,799.9	6.3	6.2	-167.82	28.5	72.2	172.1	159.8	12.28	14.014		
1,900.0	1,891.4	1,902.2	1,901.9	6.7	6.5	-169.74	27.1	66.1	182.4	169.4	12.98	14.055		
2,000.0	1,990.1	2,004.6	2,004.0	7.1	6.9	-171.70	25.3	58.2	191.4	177.7	13.69	13.986		
2,100.0	2,088.8	2,107.1	2,106.0	7.5	7.3	-173.75	23.1	48.5	199.0	184.6	14.39	13.827		
2,200.0	2,187.5	2,209.8	2,208.0	7.9	7.6	-175.91	20.5	37.1	205.4	190.2	15.11	13.594		
2,300.0	2,286.2	2,312.0	2,309.3	8.3	8.0	-178.21	17.6	23.9	210.5	194.7	15.83	13.300		
2,400.0	2,384.9	2,411.6	2,407.9	8.8	8.4	179.56	14.5	10.4	215.4	198.8	16.55	13.011		
2,500.0	2,483.5	2,511.1	2,506.5	9.2	8.8	177.42	11.5	-3.2	220.6	203.3	17.29	12.759		
2,600.0	2,582.2	2,610.6	2,605.0	9.6	9.1	175.39	8.4	-16.7	226.1	208.0	18.03	12.540		
2,700.0	2,680.9	2,710.2	2,703.6	10.1	9.5	173.46	5.4	-30.2	231.8	213.0	18.77	12.348		
2,800.0	2,779.6	2,809.7	2,802.2	10.5	9.9	171.62	2.4	-43.7	237.8	218.3	19.53	12.180		
2,900.0	2,878.3	2,909.2	2,900.7	10.9	10.3	169.87	-0.7	-57.2	244.1	223.8	20.28	12.033		
3,000.0	2,977.0	3,008.8	2,999.3	11.3	10.7	168.21	-3.7	-70.7	250.5	229.5	21.05	11.903		
3,100.0	3,075.7	3,108.3	3,097.8	11.8	11.1	166.63	-6.8	-84.2	257.2	235.4	21.82	11.788		
3,200.0	3,174.3	3,207.8	3,196.4	12.2	11.5	165.14	-9.8	-97.8	264.0	241.5	22.59	11.686		
3,300.0	3,273.0	3,307.4	3,295.0	12.6	11.9	163.72	-12.9	-111.3	271.1	247.7	23.38	11.596		
3,400.0	3,371.7	3,406.9	3,393.5	13.1	12.3	162.37	-15.9	-124.8	278.2	254.1	24.16	11.517		
3,500.0	3,470.4	3,506.4	3,492.1	13.5	12.7	161.09	-18.9	-138.3	285.6	260.6	24.95	11.446		
3,600.0	3,569.1	3,606.0	3,590.7	14.0	13.1	159.88	-22.0	-151.8	293.0	267.3	25.74	11.383		
3,700.0	3,667.8	3,705.5	3,689.2	14.4	13.5	158.72	-25.0	-165.3	300.6	274.1	26.54	11.326		
3,800.0	3,766.5	3,805.0	3,787.8	14.8	13.9	157.62	-28.1	-178.8	308.3	281.0	27.34	11.276		
3,900.0	3,865.1	3,904.6	3,886.4	15.3	14.3	156.58	-31.1	-192.4	316.1	288.0		11.231		
4,000.0	3,963.8	4,004.1	3,984.9	15.7	14.7	155.59	-34.2	-205.9	324.0	295.1	28.95	11.191		
4,100.0	4,062.5	4,103.6	4,083.5	16.1	15.1	154.64	-37.2	-219.4	332.0	302.2	29.76	11.156		
4,200.0	4,161.2	4,203.2	4,182.1	16.6	15.5	153.74	-40.2	-232.9	340.1	309.5	30.57	11.123		
4,300.0	4,259.9	4,302.7	4,280.6	17.0	15.9	152.88	-43.3	-246.4	348.3	316.9	31.39	11.095		
4,400.0	4,358.6	4,402.2	4,379.2	17.5	16.3	152.06	-46.3	-259.9	356.5	324.3	32.21	11.069		
4,500.0	4,457.3	4,501.8	4,477.8	17.9	16.8	151.28	-49.4	-273.4	364.8	331.8	33.02	11.046		
4,600.0	4,555.9	4,601.3	4,576.3	18.3	17.2	150.53	-52.4	-287.0	373.2	339.3	33.85	11.026		
4,700.0	4,654.6	4,700.8	4,674.9	18.8	17.6	149.82	-55.5	-300.5	381.6	346.9	34.67	11.007		
4,800.0 4,900.0	4,753.3 4,852.0	4,800.4 4,900.1	4,773.4 4,872.0	19.2 19.7	18.0 18.4	149.13 148.48	-58.5 -61.5	-314.0 -327.5	390.1 398.6	354.6 362.3	35.49 36.32	10.991 10.976		
5,000.0	4,950.7	5,000.6	4,970.6	20.1	18.8	147.85	-64.6	-341.0	407.2	370.1	37.15	10.962		

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Well Simon Camamile Fed Com #126H

Output errors are at 2.00 sigma EDM 5000.14 Single User Db Database:

Part	Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #136H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
														Offset Well Error:	0.0 usft
					-		Higheide	Offcot Wallbor	o Contro			Minimum	Congration		
1	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		Warning	
5,000   5,0467   6,3020   5,269.3   21.4   20.1   146.12   7.77   391.6   433.3   393.6   36.5   10.228	5,100.0	5,049.4	5,101.0	5,069.1	20.6	19.2	147.25	-67.6	-354.5	415.9	377.9	37.98	10.949		
5.500   5.544   5.500   5.644   5.500   5.644   223   200   14.500   7.768   3.981   47.70   401.5   40.64   10.919	5,200.0	5,148.1	5,201.5	5,167.7	21.0	19.7	146.67	-70.7	-368.0	424.5	385.7	38.81	10.938		
5,500   5,444   5,500   5,463   223   220   14,508   -79.8   -408.6   40.0   40.0   40.0   40.0   10.00															
5,000   5,6416															
5,700.0 5,641.5 5,703.8 5,860.5 23.2 21.8 144.11 465.9 435.6 466.5 425.5 42.90 10.807 5,000.0 5,746.2 5,004.3 5,709.1 23.7 22.2 143.06 446.1 477.4 435.6 435.6 10.807 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0 5,000.0															
5,800.0   5,746.2   5,804.3   5,750.1   23.7   22.2   143.66   -88.9   -446.1   477.4   43.56   43.85   43.85   10.872															
5,000   5,388   5,865   5,665   2,657   24.1   22.6   143.22   42.0   44.6   46.5   44.8   46.5   10.887															
6,000   6,987   6,000   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,006   2,00															
6,000   6,080   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,000   6,00															
6,200.0 6,194.9 6,206.2 6,153.3 26.4 23.9 141.99 -101.1 -503.2 513.3 466.1 47.19 10.876 6,300.0 6,325.6 6,306.6 6,251.9 259 259 243 141.61 -104.1 -516.7 522.3 474.3 463.3 10.873 6,500.0 6,431.0 6,071.6 6,449.0 26.8 27.2 25.5 140.895 -110.2 454.7 540.5 480.7 40.72 10.889 6,500.0 6,431.0 6,071.6 6,449.0 26.8 27.2 25.5 140.895 -110.2 454.7 540.5 480.5 50.56 10.888 6,500.0 6,600.0 6,600.0 6,600.0 6,600.0 6,678 27.2 25.5 140.895 -110.2 454.7 540.5 480.5 480.5 50.56 10.888 6,500.0 6,600.0 6,600.0 6,600.0 6,449.0 27.2 25.5 140.895 -110.2 454.7 540.5 480.5 480.5 50.56 10.888 6,500.0 6,700.0 6,600.0 6,600.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0 6,400.0															
6.2000 6.233 6 6.306.8 6.2519 25.9 24.3 141.81 -104.1 5.167 52.2 32.2 474.3 48.03 10.873   6.0000 6.431.0 6.305.5 6.304.0 28.8 25.1 140.88 -110.2 5.451.7 540.4 490.7 49.72 10.889   6.0000 6.528.3 6.706.5 6.440.0 28.8 25.1 140.89 -110.2 5.451.7 540.4 490.7 49.72 10.889   6.0000 6.628.3 6.706.5 6.546.2 27.8 26.0 140.52 -111.3 5.557.2 549.5 49.88 10.008   6.0000 6.727.0 6.009.0 6.744.7 28.1 28.4 138.89 -110.4 5.643.3 567.7 515.5 62.25 10.089   6.0000 6.727.0 6.009.0 6.744.7 28.1 28.4 138.89 -110.4 5.643.3 567.7 515.5 62.25 10.089   7.0000 6.000.7 7.000.7 7.000.3 7.000.3 7.000.3 7.000.0 6.000.3 7.000.0 6.000.3 7.000.0 6.000.3 7.000.0 6.000.3 7.000.0 6.000.3 7.000.0 6.000.0 6.000.3 7.000.0 6.000.3 7.000.0 7.000.0 7.000.3 7.000.3 7.000.0 7.000.3 7.000.3 7.000.0 7.000.0 7.000.3 7.000.3 7.000.0 7.000.0 7.000.3 7.000.3 7.000.0 7.000.0 7.000.3 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.000.0 7.0000.0															
6.400															
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6,000.0         6,028.0         6,070.0         6,028.3         6,070.5         6,070.0         6,028.3         6,070.5         6,086.2         27.6         26.0         140.22         -116.3         -570.8         558.6         507.2         5,089.6         10.866           6,000.0         6,027.0         6,089.0         6,744.7         28.1         28.4         138.89         -119.4         -84.3         567.7         515.5         52.25         10.866           6,000.0         6,026.4         70.98.0         6,941.9         29.0         27.2         138.28         -122.4         -897.8         576.9         523.8         53.09         10.865           7,000.0         7,023.1         7,089.8         7,040.4         22.4         27.6         138.28         -122.4         -891.3         566.2         552.1         53.0         10.882           7,000.0         7,218.0         7,189.0         29.9         28.0         138.71         -131.6         -683.3         004.4         540.5         55.4         10.882           7,400.0         7,319.1         7,380.0         30.3         28.4         138.16         -137.6         685.3         602.2         550.5         57.2         10.884															
6,800.0         6,828.0         6,944.7         28.1         28.4         139.89         -119.4         -584.3         567.7         515.5         52.25         10.886           6,800.0         6,824.7         6,900.4         6,841.9         29.0         27.2         139.28         -122.4         -611.3         586.0         53.21         63.34         10.885           7,000.0         7,023.1         7,089.6         7,040.4         29.4         27.6         138.99         -122.4         -618.3         586.0         53.21         63.34         10.885           7,000.0         7,220.4         7,270.0         7,272.0         7,270.6         30.3         28.4         138.41         -131.5         -683.3         69.4         58.5         54.70         10.882           7,200.0         7,220.4         7,280.7         7,337.6         30.3         28.4         138.43         -134.6         -681.8         65.5         54.2         10.882           7,400.0         7,311.7         7,492.0         310.2         29.1         138.03         -139.5         -973.7         629.0         571.2         57.76         10.883           7,500.0         7,411.8         7,432.0         31.2         29.2															
6,800.0         6,828.7         6,909.4         6,843.3         2.8.6         28.8         139.88         -122.4         -507.8         576.9         523.8         53.09         10.865           7,000.0         7,223.1         7,988.6         7,040.4         29.0         22.2         138.28         -128.5         -824.8         595.2         540.5         54.70         10.882           7,200.0         7,121.8         7,180.2         7,130.0         29.9         22.0         138.71         -131.5         -808.3         604.4         548.8         555.2         56.38         10.883           7,200.0         7,221.6         7,380.7         7,288.6         138.49         138.49         -134.6         -651.8         613.6         557.2         56.38         10.883           7,400.0         7,316.1         7,382.6         7,386.1         30.7         28.8         138.13         -135.6         -673.7         629.0         571.2         56.38         10.883           7,400.0         7,316.1         7,387.6         30.3         21.4         138.03         -146.6         -673.7         629.0         571.1         57.74         10.80           7,500.0         7,417.8         7,489.9         31	6,700.0	6,628.3	6,708.5	6,646.2	27.6	26.0	140.22	-116.3	-570.8	558.6	507.2	51.41	10.866		
7,000         6,924.4         7,009.9         6,941.9         29.0         27.2         193.928         -125.4         -811.3         588.0         52.1         53.94         10.882           7,100.0         7,023.1         7,089.8         7,040.4         29.4         27.6         138.99         -128.5         540.5         540.5         54.70         10.882           7,200.0         7,220.4         7,287.7         7,237.6         30.3         28.4         138.43         -131.6         -615.8         615.6         557.2         563.8         10.883           7,400.0         7,311.1         7,382.2         7,389.1         30.7         28.8         18.16         -137.6         -665.3         622.8         555.4         10.882           7,400.0         7,311.1         7,382.2         7,382.0         31.2         29.2         138.03         -139.5         -673.7         629.0         571.2         57.76         10.890           7,500.0         7,417.8         7,843.9         31.6         29.6         138.03         -14.26         -677.6         632.1         57.4         15.80.3         10.893           7,500.0         7,516.2         7,581.3         7,824.0         32.0         30.0 <td>6,800.0</td> <td>6,727.0</td> <td>6,809.0</td> <td>6,744.7</td> <td>28.1</td> <td>26.4</td> <td>139.89</td> <td>-119.4</td> <td>-584.3</td> <td>567.7</td> <td>515.5</td> <td>52.25</td> <td>10.866</td> <td></td> <td></td>	6,800.0	6,727.0	6,809.0	6,744.7	28.1	26.4	139.89	-119.4	-584.3	567.7	515.5	52.25	10.866		
7,100.0         7,023.1         7,088.6         7,040.4         29.4         27.6         138.99         -128.5         -824.8         596.2         54.05         54.70         10.882           7,000.0         7,121.8         7,189.0         29.9         28.0         138.71         -131.5         -838.3         604.4         54.88         55.4         10.882           7,400.0         7,237.6         30.3         28.4         138.43         -134.6         -651.8         613.6         557.2         10.883           7,400.0         7,319.1         7,382.2         7,336.1         30.7         28.8         138.16         -137.6         -653.3         622.8         556.6         57.22         10.884           7,480.5         7,384.7         7,482.8         7,482.9         31.2         29.2         138.02         -140.4         -677.6         632.1         574.1         58.0         10.884           7,500.0         7,516.9         7,581.3         7,527.8         31.6         28.6         138.03         -142.6         -887.4         640.4         581.6         58.79         10.893           7,700.0         7,616.2         7,677.7         7,624.0         30.0         138.00         -144.1 <td>6,900.0</td> <td>6,825.7</td> <td>6,909.4</td> <td>6,843.3</td> <td>28.5</td> <td>26.8</td> <td>139.58</td> <td>-122.4</td> <td>-597.8</td> <td>576.9</td> <td>523.8</td> <td>53.09</td> <td>10.865</td> <td></td> <td></td>	6,900.0	6,825.7	6,909.4	6,843.3	28.5	26.8	139.58	-122.4	-597.8	576.9	523.8	53.09	10.865		
7,200 7,1218 7,189 2 7,139 0 29 28 0 138.71 -131.5 -638.3 604.4 548.8 55.54 10.882 7,300 7,220.4 7,288.7 7,237.6 30.3 28.4 138.43 -134.6 -651.8 613.6 57.2 563.8 10.883 7,400.0 7,319.1 7,388.2 7,338.1 30.7 28.8 138.16 -137.6 -655.8 622.8 565.6 57.22 10.884 7,486.5 7,384.7 7,452.6 7,399.9 31.0 29.1 138.03 -138.5 -673.7 629.0 571.2 57.76 10.889 7,500.0 7,417.8 7,464.9 7,432.0 31.2 29.2 138.02 -140.4 -677.6 632.1 574.1 580.3 10.894 7,500.0 7,417.8 7,464.9 7,432.0 31.2 29.2 138.02 -140.4 -677.6 632.1 574.1 580.3 10.894 7,500.0 7,516.9 7,581.3 7,527.8 31.6 29.6 138.03 -144.5 -687.4 640.4 581.6 58.79 10.893 7,700.0 7,516.9 7,577.7 7,624.0 32.0 30.0 138.08 -144.3 -694.9 647.3 567.8 562.6 60.23 10.874 7,800.0 7,715.8 7,774.3 7,720.3 32.4 30.3 138.19 -145.4 -700.0 652.8 562.6 60.23 10.839 7,900.0 7,915.5 7,988.5 7,914.5 33.1 30.9 138.52 -146.1 -703.2 659.4 597.9 61.52 10.718 8,000.0 7,915.5 7,988.5 7,914.5 33.1 30.9 138.52 -146.1 -703.2 659.4 597.9 61.52 10.718 8,000.0 8,155.8 0,885.5 8,014.5 33.4 31.3 -90.42 -146.1 -703.2 660.1 598.0 62.14 10.622 8,150.0 8,065.4 8,168.8 8,168.8 33.8 33.6 31.4 -90.71 -146.1 -703.2 660.1 598.0 62.14 10.622 8,150.0 8,163.3 8,263.6 8,163.3 31.3 -90.42 -146.1 -703.2 660.1 598.0 62.14 10.622 8,150.0 8,163.3 8,263.6 8,163.3 33.7 31.7 -90.32 -146.1 -703.2 660.2 597.7 62.46 10.569 8,250.0 8,163.3 8,263.6 8,263.5 33.8 31.9 -93.55 -146.1 -703.2 660.7 597.6 62.79 10.516 8,250.0 8,163.3 8,263.6 8,263.5 33.8 31.9 -93.55 -146.1 -703.2 660.2 597.7 62.46 10.569 8,250.0 8,163.3 8,263.6 8,263.6 8,263.6 8,263.5 33.8 32.9 -94.98 -146.1 -703.2 660.7 597.6 63.13 10.465 8,250.0 8,146.8 8,465.8 8,465.8 8,363.8 33.9 32.2 -96.52 -146.1 -703.2 660.7 597.6 63.13 10.465 8,250.0 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0 8,253.8 8,250.0	7,000.0	6,924.4	7,009.9	6,941.9	29.0	27.2	139.28	-125.4	-611.3	586.0	532.1	53.94	10.865		
7,300.0         7,220.4         7,287.6         30.3         28.4         138.43         -134.6         -651.8         613.6         557.2         563.8         10.883           7,400.0         7,339.1         7,382.2         7,386.1         30.7         28.8         138.16         -137.6         -665.3         565.6         57.2         10.880           7,500.0         7,417.8         7,482.6         7,399.9         31.0         29.1         138.03         -139.5         -673.7         629.0         571.2         57.76         10.890           7,500.0         7,518.9         7,581.3         7,527.8         31.6         29.6         138.03         -142.6         -687.4         -640.4         581.6         58.79         10.893           7,500.0         7,518.9         7,581.3         7,527.8         31.6         29.6         138.03         -144.6         -687.4         -640.4         581.6         58.79         10.893           7,700.0         7,518.5         7,777.3         7,224.0         32.0         30.3         138.19         -146.4         -700.0         652.8         596.6         60.23         10.839           7,900.0         7,515.6         7,770.0         7,162.8         7,	7,100.0	7,023.1	7,089.6	7,040.4	29.4	27.6	138.99	-128.5	-624.8	595.2	540.5	54.70	10.882		
7.400.0         7.319.1         7.386.2         7.336.1         30.7         28.8         138.16         -137.6         -665.3         622.8         565.6         57.22         10.884           7.606.0         7.347.7         7.484.9         7.499.9         31.0         29.1         138.03         -139.5         -673.7         629.0         571.2         57.76         10.890           7.600.0         7.516.9         7.581.3         7.527.8         31.6         29.6         138.03         -142.6         -687.4         640.4         581.6         58.79         10.893           7.700.0         7.516.9         7.581.3         7.527.8         31.6         29.6         138.03         -144.6         -687.4         640.4         581.6         58.79         10.893           7.700.0         7.516.2         7.677.7         7.624.0         32.0         30.0         138.03         -144.6         -700.7         565.8         592.6         60.23         10.839           7.900.0         7.816.6         7.678.8         7.816.8         32.8         30.6         138.33         -1446.0         -702.7         666.8         569.9         60.89         10.718           8.065.0         8.021.6         8.05	7,200.0	7,121.8	7,189.2	7,139.0	29.9	28.0	138.71	-131.5	-638.3	604.4	548.8	55.54	10.882		
7.486.5         7.384.7         7.482.6         7.389.9         31.0         29.1         138.03         -139.5         -873.7         629.0         671.2         57.76         10.890           7.500.0         7.417.8         7.482.0         7.32.0         31.2         29.2         138.03         -140.4         -877.6         632.1         574.1         58.03         10.894           7.600.0         7.516.9         7.581.3         7.527.8         31.6         29.6         138.03         -142.6         -887.4         640.4         581.6         58.79         10.893           7.700.0         7.616.2         7.677.7         7.624.0         32.0         30.0         138.09         -144.3         -894.9         647.3         587.8         59.33         10.874           7.800.0         7.715.8         7.787.8         3.816.8         32.8         30.6         138.33         144.0         -700.0         652.8         592.6         60.23         10.839           7.900.0         7.915.5         7.968.5         7.914.5         33.1         30.9         138.52         -146.1         -703.2         660.1         599.9         61.52         10.718           8.086.5         8.002.0         8.055.0	7,300.0	7,220.4	7,288.7	7,237.6	30.3	28.4	138.43	-134.6	-651.8	613.6	557.2	56.38	10.883		
7,500.0 7,417.8 7,484.9 7,432.0 31.2 29.2 138.02 -140.4 -677.6 632.1 674.1 58.03 10.894  7,600.0 7,516.9 7,581.3 7,527.8 31.6 29.6 138.03 -142.6 -687.4 640.4 581.6 58.79 10.893  7,700.0 7,516.2 7,677.7 7,624.0 32.0 30.0 138.06 -144.3 -694.9 647.3 587.8 59.53 10.874  7,800.0 7,715.8 7,774.3 7,720.3 32.4 30.3 138.19 -145.4 70.0 652.8 592.6 60.3 10.839  7,900.0 7,815.6 7,870.8 7,816.8 32.8 30.6 138.33 -146.0 -702.7 656.8 595.9 60.89 10.788  8,000.0 7,915.5 7,968.5 7,914.5 33.1 30.9 138.52 -146.1 -703.2 659.4 597.9 61.52 10.718  8,006.5 8,002.0 8,055.0 8,001.0 33.3 31.2 -0.61 -146.1 -703.2 660.1 598.1 62.06 10.837  8,100.0 8,015.5 8,068.5 8,014.5 33.4 31.3 -90.42 -146.1 -703.2 660.1 598.0 62.14 10.622  8,150.0 8,065.4 8,118.4 8,064.4 33.5 31.4 -90.71 -146.1 -703.2 660.2 697.7 62.46 10.569  8,250.0 8,163.3 8,216.3 8,162.3 33.7 31.7 -92.32 -146.1 -703.2 660.7 597.6 63.13 10.465  8,300.0 8,210.6 8,263.6 8,209.6 33.8 31.9 -93.55 -146.1 -703.2 660.7 597.6 63.13 10.465  8,300.0 8,210.6 8,263.6 8,209.6 33.8 31.9 -93.55 -146.1 -703.2 660.7 597.6 63.13 10.465  8,300.0 8,210.6 8,263.6 8,209.6 33.8 31.9 -93.55 -146.1 -703.2 660.7 597.6 63.13 10.465  8,300.0 8,210.6 8,263.6 8,209.6 33.8 31.9 -93.55 -146.1 -703.2 660.7 597.6 63.13 10.465  8,300.0 8,210.6 8,263.6 8,209.6 33.8 32.0 -94.98 -146.1 -703.2 660.7 597.6 63.13 10.465  8,300.0 8,210.6 8,263.6 8,209.6 33.8 32.0 -94.98 -146.1 -703.2 660.6 60.18 641.7 10.378  8,450.0 8,341.6 8,405.4 8,340.6 33.9 32.3 -98.07 -146.1 -703.2 660.6 60.18 641.7 10.378  8,450.0 8,449.5 8,502.5 8,445.5 33.9 32.4 -99.53 -146.1 -703.2 660.6 60.18 641.7 10.376  8,550.0 8,449.5 8,502.5 8,445.5 33.9 32.4 -99.53 -146.1 -703.2 70.5 643.8 663.1 10.433  8,550.0 8,449.5 8,502.5 8,448.5 33.9 32.7 -102.32 -146.1 -703.2 70.5 643.9 65.6 11.0636  8,560.0 8,449.5 8,502.5 8,448.5 33.9 32.7 -102.32 -146.1 -703.2 70.5 643.9 65.6 11.0636  8,560.0 8,449.5 8,502.5 8,448.5 33.9 32.9 -100.82 -146.1 -703.2 70.5 64.5 41.0 30.5 66.1 10.506  8,560.0 8,573.8 8,628.8 8,574.8 33.9 33.0 -90.00 -146.1 -703.2 70.5 64.5 41.0 66.2 61															
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7,700.0         7,616.2         7,677.7         7,624.0         32.0         30.0         138.08         -144.3         -694.9         647.3         587.8         595.3         10.874           7,800.0         7,715.8         7,774.3         7,720.3         32.4         30.3         138.19         -145.4         -700.0         652.8         595.2         60.23         10.839           7,900.0         7,815.6         7,870.8         7,816.8         32.8         30.6         138.33         -146.1         -703.2         659.4         597.9         61.52         10.718           8,000.0         7,915.5         7,968.5         7,914.5         33.1         30.9         138.52         -146.1         -703.2         669.4         597.9         61.52         10.718           8,000.0         8,015.5         8,001.0         33.3         31.2         -0.61         -146.1         -703.2         660.1         598.1         62.06         10.637           8,100.0         8,015.8         8,113.8         33.6         31.4         -90.71         -146.1         -703.2         660.3         597.5         62.29         10.516           8,200.0         8,163.8         8,216.8         8,218.8         31.4 </td <td></td>															
7,800.0 7,715.8 7,774.3 7,720.3 32.4 30.3 138.19 -145.4 -700.0 65.28 592.6 60.23 10.839 7,900.0 7,815.6 7,870.8 7,816.8 32.8 32.8 30.6 138.33 -146.0 -702.7 658.8 595.9 60.89 10.788 8,000.0 7,915.5 7,968.5 7,914.5 33.1 30.9 138.52 -146.1 -703.2 669.4 597.9 61.52 10.718 8,006.5 8,002.0 8,055.0 8,001.0 33.3 31.2 -0.61 -146.1 -703.2 660.1 598.1 62.06 10.637 8,100.0 8,015.5 8,068.5 8,014.5 33.4 31.3 -90.42 -146.1 -703.2 660.1 598.0 62.14 10.622 8,150.0 8,065.4 8,118.4 8,064.4 33.5 31.4 -90.71 -146.1 -703.2 660.1 598.0 62.14 10.622 8,150.0 8,065.4 8,118.4 8,167.8 8,113.8 33.6 31.6 -91.35 -146.1 -703.2 660.1 598.0 62.14 10.569 8,200.0 8,114.8 8,167.8 8,113.8 33.6 31.6 -91.35 -146.1 -703.2 660.7 597.5 62.79 10.516 8,250.0 8,163.3 8,216.3 8,162.3 33.7 31.7 -92.32 -146.1 -703.2 660.7 597.6 63.13 10.465 8,300.0 8,210.6 8,283.6 8,203.6 33.8 31.9 -93.55 -146.1 -703.2 660.7 597.6 63.13 10.465 8,300.0 8,210.6 8,263.3 8,303.3 8,255.3 33.8 32.0 -94.98 -146.1 -703.2 660.6 60.1 8 64.17 10.378 8,450.0 8,341.6 8,405.4 8,340.6 33.9 32.2 -96.52 -146.1 -703.2 660.0 60.18 64.17 10.378 8,450.0 8,380.6 8,33.5 8,379.6 33.9 32.3 -98.07 -146.1 -703.2 660.0 60.18 64.17 10.378 8,550.0 8,466.6 8,466.8 8,415.6 33.9 32.5 -100.79 -146.1 -703.2 664.0 601.8 64.17 10.636 8,650.0 8,449.9 8,502.5 8,448.5 33.9 32.6 -100.79 -146.1 -703.2 664.0 601.8 64.17 10.636 8,750.0 8,548.8 8,557.8 8,503.8 33.9 32.7 -102.32 -146.1 -703.2 664.0 601.8 64.17 10.636 8,750.0 8,558.9 8,579.8 8,525.9 33.8 32.9 -100.82 -146.1 -703.2 770.2 772.8 66.0 60.4 65.87 11.0636 8,750.0 8,568.8 8,617.7 8,557.8 33.8 32.9 -100.82 -146.1 -703.2 770.2 772.8 66.1 66.0 11.298 8,850.0 8,558.8 8,617.7 8,557.8 33.8 32.9 -100.82 -146.1 -703.2 770.2 772.8 66.1 66.0 11.298 8,850.0 8,558.8 8,617.7 8,557.8 33.8 32.9 -100.82 -146.1 -703.2 770.2 772.8 66.1 66.0 11.298 8,850.0 8,558.8 8,617.8 8,557.8 33.8 32.9 -100.82 -146.1 -703.2 770.2 772.8 66.1 66.0 11.298 8,850.0 8,558.8 8,617.8 8,557.8 33.8 33.0 -98.99 -146.1 -703.2 770.2 772.8 66.1 10.994 8,850.0 8,558.8 8,617.8 8,557.8 33.8 33.0 -99.99 -146.1															
7,900 0         7,815.6         7,870.8         7,816.8         32.8         30.6         138.33         -146.0         -702.7         656.8         595.9         60.89         10.788           8,000.0         7,915.5         7,968.5         7,914.5         33.1         30.9         138.52         -146.1         -703.2         669.4         597.9         61.52         10.718           8,008.0         8,002.0         8,065.0         8,001.0         33.3         31.2         -0.61         -146.1         -703.2         660.1         598.1         62.06         10.637           8,100.0         8,065.4         8,118.4         8,064.4         33.5         31.4         -90.71         -146.1         -703.2         660.1         598.0         62.14         10.569           8,200.0         8,114.8         8,167.8         8,113.8         33.6         31.6         -91.35         -146.1         -703.2         660.7         597.6         62.79         10.516           8,200.0         8,216.6         8,268.3         8,209.6         33.8         31.9         -93.55         -146.1         -703.2         661.6         598.1         63.48         10.422           8,350.0         8,221.8         8,269.															
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8,150.0         8,065.4         8,118.4         8,064.4         33.5         31.4         -90.71         -146.1         -703.2         660.2         597.7         62.46         10.569           8,200.0         8,114.8         8,167.8         8,113.8         33.6         31.6         -91.35         -146.1         -703.2         660.3         597.5         62.79         10.516           8,250.0         8,163.3         8,216.3         8,162.3         33.7         31.7         -92.32         -146.1         -703.2         660.7         597.6         63.13         10.465           8,350.0         8,263.6         8,209.6         33.8         31.9         -93.55         -146.1         -703.2         661.6         598.1         63.48         10.422           8,350.0         8,256.3         33.9         32.2         -96.52         -146.1         -703.2         661.6         598.1         63.82         10.391           8,450.0         8,341.6         8,405.4         8,340.6         33.9         32.2         -96.52         -146.1         -703.2         660.0         601.8         64.17         10.378           8,550.0         8,341.6         8,405.4         8,340.6         33.9         32.5 <td></td>															
8,200.0       8,114.8       8,167.8       8,113.8       33.6       31.6       -91.35       -146.1       -703.2       660.3       597.5       62.79       10.516         8,250.0       8,163.3       8,216.3       8,162.3       33.7       31.7       -92.32       -146.1       -703.2       660.7       597.6       63.13       10.465         8,300.0       8,216.6       8,263.6       8,209.6       33.8       31.9       -93.55       -146.1       -703.2       661.6       598.1       63.48       10.422         8,350.0       8,265.3       8,309.3       8,255.3       33.8       32.0       -94.98       -146.1       -703.2       661.6       598.1       63.82       10.391         8,400.0       8,300.1       8,353.1       8,299.1       33.9       32.2       -96.52       -146.1       -703.2       666.0       601.8       64.17       10.378         8,450.6       8,451.6       33.9       32.3       -98.07       -146.1       -703.2       670.3       605.7       64.54       10.385         8,500.0       8,480.6       8,416.6       33.9       32.5       -100.79       -146.1       -703.2       676.4       611.6       64.83       10.433 <td></td>															
8,250.0       8,163.3       8,216.3       8,162.3       33.7       31.7       -92.32       -146.1       -703.2       660.7       597.6       63.13       10.465         8,300.0       8,216.6       8,263.6       8,209.6       33.8       31.9       -93.55       -146.1       -703.2       661.6       598.1       63.48       10.422         8,350.0       8,256.3       8,309.3       8,255.3       33.8       32.0       -94.98       -146.1       -703.2       663.2       599.4       63.82       10.391         8,400.0       8,301.1       8,353.1       8,299.1       33.9       32.2       -96.52       -146.1       -703.2       666.0       601.8       64.17       10.378         8,450.0       8,341.6       8,406.4       8,340.6       33.9       32.3       -99.57       -146.1       -703.2       670.3       605.7       64.54       10.385         8,500.0       8,469.6       8,416.6       33.9       32.5       -100.79       -146.1       -703.2       684.8       619.6       65.13       10.513         8,650.0       8,479.0       8,531.9       8,478.0       33.9       32.6       -101.75       -146.1       -703.2       695.7       630.3															
8,350.0       8,256.3       8,309.3       8,255.3       33.8       32.0       -94.98       -146.1       -703.2       663.2       599.4       63.82       10.391         8,400.0       8,300.1       8,353.1       8,299.1       33.9       32.2       -96.52       -146.1       -703.2       666.0       601.8       64.17       10.378         8,450.0       8,341.6       8,405.4       8,340.6       33.9       32.3       -98.07       -146.1       -703.2       670.3       605.7       64.54       10.385         8,500.0       8,380.6       8,433.5       8,379.6       33.9       32.4       -99.53       -146.1       -703.2       676.4       611.6       64.83       10.433         8,550.0       8,416.6       8,469.6       8,415.6       33.9       32.5       -100.79       -146.1       -703.2       684.8       619.6       65.13       10.513         8,600.0       8,449.5       8,502.5       8,488.5       33.9       32.6       -101.75       -146.1       -703.2       695.7       630.3       65.41       10.636         8,700.0       8,504.8       8,557.8       8,503.8       33.9       32.8       -102.41       -146.1       -703.2       70															
8,400.0 8,300.1 8,353.1 8,299.1 33.9 32.2 -96.52 -146.1 -703.2 666.0 601.8 64.17 10.378 8,450.0 8,341.6 8,405.4 8,340.6 33.9 32.3 -98.07 -146.1 -703.2 670.3 605.7 64.54 10.385 8,500.0 8,380.6 8,433.5 8,379.6 33.9 32.4 -99.53 -146.1 -703.2 676.4 611.6 64.83 10.433 8,550.0 8,416.6 8,469.6 8,415.6 33.9 32.5 -100.79 -146.1 -703.2 684.8 619.6 65.13 10.513 8,600.0 8,449.5 8,502.5 8,448.5 33.9 32.6 -101.75 -146.1 -703.2 695.7 630.3 65.41 10.636 8,650.0 8,479.0 8,531.9 8,478.0 33.9 32.7 -102.32 -146.1 -703.2 709.5 643.9 65.66 10.806 8,700.0 8,504.8 8,557.8 8,503.8 33.9 32.8 -102.41 -146.1 -703.2 726.3 660.4 65.87 11.026 8,750.0 8,526.9 8,579.8 8,525.9 33.8 32.9 -101.93 -146.1 -703.2 769.0 702.8 66.18 11.619 8,850.0 8,558.8 8,611.7 8,557.8 33.8 33.0 -98.99 -146.1 -703.2 794.7 728.4 66.26 11.994 8,900.0 8,568.4 8,621.4 8,567.4 33.7 33.0 -90.90 -146.1 -703.2 827.2 810.9 66.29 13.232	8,300.0	8,210.6	8,263.6	8,209.6	33.8	31.9	-93.55	-146.1	-703.2	661.6	598.1	63.48	10.422		
8,450.0 8,341.6 8,405.4 8,340.6 33.9 32.3 -98.07 -146.1 -703.2 670.3 605.7 64.54 10.385 8,500.0 8,380.6 8,433.5 8,379.6 33.9 32.4 -99.53 -146.1 -703.2 676.4 611.6 64.83 10.433 8,550.0 8,416.6 8,469.6 8,415.6 33.9 32.4 -100.79 -146.1 -703.2 684.8 619.6 65.13 10.513 8,600.0 8,449.5 8,502.5 8,448.5 33.9 32.6 -101.75 -146.1 -703.2 695.7 630.3 65.41 10.636 8,650.0 8,479.0 8,531.9 8,478.0 33.9 32.7 -102.32 -146.1 -703.2 709.5 643.9 65.66 10.806 8,700.0 8,504.8 8,557.8 8,503.8 33.9 32.8 -102.41 -146.1 -703.2 726.3 660.4 65.87 11.026 8,750.0 8,526.9 8,579.8 8,525.9 33.8 32.9 -101.93 -146.1 -703.2 746.1 680.1 66.04 11.298 8,850.0 8,558.8 8,611.7 8,557.8 33.8 33.0 -98.99 -146.1 -703.2 794.7 728.4 66.26 11.994 8,900.0 8,568.4 8,621.4 8,567.4 33.7 33.0 -96.39 -146.1 -703.2 823.0 756.7 66.30 12.413 8,950.0 8,573.8 8,626.8 8,572.8 33.7 33.0 -90.00 -146.1 -703.2 877.2 810.9 66.29 13.232		8,256.3	8,309.3	8,255.3	33.8	32.0	-94.98	-146.1	-703.2	663.2	599.4	63.82	10.391		
8,500.0 8,380.6 8,433.5 8,379.6 33.9 32.4 -99.53 -146.1 -703.2 676.4 611.6 64.83 10.433  8,550.0 8,416.6 8,469.6 8,415.6 33.9 32.5 -100.79 -146.1 -703.2 684.8 619.6 65.13 10.513  8,600.0 8,449.5 8,502.5 8,448.5 33.9 32.6 -101.75 -146.1 -703.2 695.7 630.3 65.41 10.636  8,650.0 8,479.0 8,531.9 8,478.0 33.9 32.7 -102.32 -146.1 -703.2 709.5 643.9 65.66 10.806  8,700.0 8,504.8 8,557.8 8,503.8 33.9 32.8 -102.41 -146.1 -703.2 726.3 660.4 65.87 11.026  8,750.0 8,569.9 8,579.8 8,526.9 33.8 32.9 -101.93 -146.1 -703.2 746.1 680.1 66.04 11.298  8,800.0 8,544.9 8,602.2 8,543.9 33.8 32.9 -101.93 -146.1 -703.2 769.0 702.8 66.18 11.619  8,850.0 8,558.8 8,611.7 8,557.8 33.8 33.0 -98.99 -146.1 -703.2 794.7 728.4 66.26 11.994  8,900.0 8,568.4 8,621.4 8,567.4 33.7 33.0 -96.39 -146.1 -703.2 823.0 756.7 66.30 12.413  8,950.0 8,573.8 8,626.8 8,572.8 33.7 33.0 -90.00 -146.1 -703.2 853.6 787.3 66.31 12.873  8,986.5 8,575.0 8,627.9 8,574.0 33.7 33.0 -90.00 -146.1 -703.2 877.2 810.9 66.29 13.232	8,400.0	8,300.1	8,353.1	8,299.1	33.9	32.2	-96.52	-146.1	-703.2	666.0	601.8	64.17	10.378		
8,550.0 8,416.6 8,469.6 8,415.6 33.9 32.5 -100.79 -146.1 -703.2 684.8 619.6 65.13 10.513 8,600.0 8,449.5 8,502.5 8,448.5 33.9 32.6 -101.75 -146.1 -703.2 695.7 630.3 65.41 10.636 8,650.0 8,479.0 8,531.9 8,478.0 33.9 32.7 -102.32 -146.1 -703.2 709.5 643.9 65.66 10.806 8,700.0 8,504.8 8,557.8 8,503.8 33.9 32.8 -102.41 -146.1 -703.2 726.3 660.4 65.87 11.026 8,750.0 8,526.9 8,579.8 8,525.9 33.8 32.9 -101.93 -146.1 -703.2 746.1 680.1 66.04 11.298 8,800.0 8,544.9 8,602.2 8,543.9 33.8 32.9 -101.93 -146.1 -703.2 769.0 702.8 66.18 11.619 8,850.0 8,558.8 8,611.7 8,557.8 33.8 33.0 -98.99 -146.1 -703.2 794.7 728.4 66.26 11.994 8,900.0 8,568.4 8,621.4 8,567.4 33.7 33.0 -96.39 -146.1 -703.2 823.0 756.7 66.30 12.413 8,950.0 8,573.8 8,626.8 8,572.8 33.7 33.0 -90.90 -146.1 -703.2 823.0 756.7 66.31 12.873 8,986.5 8,575.0 8,627.9 8,574.0 33.7 33.0 -90.00 -146.1 -703.2 877.2 810.9 66.29 13.232	8,450.0	8,341.6	8,405.4	8,340.6	33.9	32.3	-98.07	-146.1	-703.2	670.3	605.7	64.54	10.385		
8,600.0       8,449.5       8,502.5       8,448.5       33.9       32.6       -101.75       -146.1       -703.2       695.7       630.3       65.41       10.636         8,650.0       8,479.0       8,531.9       8,478.0       33.9       32.7       -102.32       -146.1       -703.2       709.5       643.9       65.66       10.806         8,700.0       8,504.8       8,557.8       8,503.8       33.9       32.8       -102.41       -146.1       -703.2       726.3       660.4       65.87       11.026         8,750.0       8,526.9       8,579.8       8,525.9       33.8       32.9       -101.93       -146.1       -703.2       746.1       680.1       66.04       11.298         8,800.0       8,544.9       8,602.2       8,543.9       33.8       32.9       -100.82       -146.1       -703.2       769.0       702.8       66.18       11.619         8,850.0       8,558.8       8,611.7       8,557.8       33.8       33.0       -98.99       -146.1       -703.2       794.7       728.4       66.26       11.994         8,900.0       8,568.4       8,621.4       8,567.4       33.7       33.0       -96.39       -146.1       -703.2	8,500.0	8,380.6	8,433.5	8,379.6	33.9	32.4	-99.53	-146.1	-703.2	676.4	611.6	64.83	10.433		
8,650.0       8,479.0       8,531.9       8,478.0       33.9       32.7       -102.32       -146.1       -703.2       709.5       643.9       65.66       10.806         8,700.0       8,504.8       8,557.8       8,503.8       33.9       32.8       -102.41       -146.1       -703.2       726.3       660.4       65.87       11.026         8,750.0       8,526.9       8,579.8       8,525.9       33.8       32.9       -101.93       -146.1       -703.2       746.1       680.1       66.04       11.298         8,800.0       8,544.9       8,602.2       8,543.9       33.8       32.9       -100.82       -146.1       -703.2       769.0       702.8       66.18       11.619         8,850.0       8,558.8       8,611.7       8,557.8       33.8       33.0       -98.99       -146.1       -703.2       794.7       728.4       66.26       11.994         8,900.0       8,568.4       8,621.4       8,567.4       33.7       33.0       -96.39       -146.1       -703.2       823.0       756.7       66.30       12.413         8,950.0       8,573.8       8,626.8       8,572.8       33.7       33.0       -92.98       -146.1       -703.2       8		8,416.6			33.9	32.5	-100.79	-146.1				65.13			
8,700.0 8,504.8 8,557.8 8,503.8 33.9 32.8 -102.41 -146.1 -703.2 726.3 660.4 65.87 11.026 8,750.0 8,526.9 8,579.8 8,525.9 33.8 32.9 -101.93 -146.1 -703.2 746.1 680.1 66.04 11.298 8,800.0 8,544.9 8,602.2 8,543.9 33.8 32.9 -100.82 -146.1 -703.2 769.0 702.8 66.18 11.619 8,850.0 8,558.8 8,611.7 8,557.8 33.8 33.0 -98.99 -146.1 -703.2 794.7 728.4 66.26 11.994 8,900.0 8,568.4 8,621.4 8,567.4 33.7 33.0 -96.39 -146.1 -703.2 823.0 756.7 66.30 12.413 8,950.0 8,573.8 8,626.8 8,572.8 33.7 33.0 -92.98 -146.1 -703.2 853.6 787.3 66.31 12.873 8,966.5 8,575.0 8,627.9 8,574.0 33.7 33.0 -90.00 -146.1 -703.2 877.2 810.9 66.29 13.232															
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8,800.0       8,544.9       8,602.2       8,543.9       33.8       32.9       -10.82       -146.1       -703.2       769.0       702.8       66.18       11.619         8,850.0       8,558.8       8,611.7       8,557.8       33.8       33.0       -98.99       -146.1       -703.2       794.7       728.4       66.26       11.994         8,900.0       8,568.4       8,621.4       8,567.4       33.7       33.0       -96.39       -146.1       -703.2       823.0       756.7       66.30       12.413         8,950.0       8,573.8       8,626.8       8,572.8       33.7       33.0       -92.98       -146.1       -703.2       853.6       787.3       66.31       12.873         8,986.5       8,575.0       8,627.9       8,574.0       33.7       33.0       -90.00       -146.1       -703.2       877.2       810.9       66.29       13.232															
8,850.0       8,558.8       8,611.7       8,557.8       33.8       33.0       -98.99       -146.1       -703.2       794.7       728.4       66.26       11.994         8,900.0       8,568.4       8,621.4       8,567.4       33.7       33.0       -96.39       -146.1       -703.2       823.0       756.7       66.30       12.413         8,950.0       8,573.8       8,626.8       8,572.8       33.7       33.0       -92.98       -146.1       -703.2       853.6       787.3       66.31       12.873         8,986.5       8,575.0       8,627.9       8,574.0       33.7       33.0       -90.00       -146.1       -703.2       877.2       810.9       66.29       13.232															
8,900.0     8,568.4     8,621.4     8,567.4     33.7     33.0     -96.39     -146.1     -703.2     823.0     756.7     66.30     12.413       8,950.0     8,573.8     8,626.8     8,572.8     33.7     33.0     -92.98     -146.1     -703.2     853.6     787.3     66.31     12.873       8,986.5     8,575.0     8,627.9     8,574.0     33.7     33.0     -90.00     -146.1     -703.2     877.2     810.9     66.29     13.232															
8,950.0     8,573.8     8,626.8     8,572.8     33.7     33.0     -92.98     -146.1     -703.2     853.6     787.3     66.31     12.873       8,986.5     8,575.0     8,627.9     8,574.0     33.7     33.0     -90.00     -146.1     -703.2     877.2     810.9     66.29     13.232															
8,986.5 8,575.0 8,627.9 8,574.0 33.7 33.0 -90.00 -146.1 -703.2 877.2 810.9 66.29 13.232															
	8,993.2	8,575.0	8,627.9	8,574.0	33.8	33.0	-90.00	-146.1	-703.2	881.6	815.3	66.28	13.300		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Well Simon Camamile Fed Com #126H

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

	ffset Des	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #136H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 usft
No.														Offset Well Error:	0.0 usft
					-		Higheide	Officet Wellber	o Contro			Minimum	Congration		
1.00	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		warning	
1,000   0,775	9,000.0	8,575.0	8,627.9	8,574.0	33.8	33.0	-90.00	-146.1	-703.2	886.2	819.9	66.28	13.370		
9,000   8,750   8,677															
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9,000 8,075 0 10,082 0 9,093 8 38 9 41 7 - 147 13 - 144 7 4818 1,214 0 1,1614 52 61 23 073 9,000 8,575 0 10,082 0 9,094 140 445 147 177 - 1444 8618 1,214 0 1,160 3 54 34 22 2361 9,000 8,575 0 10,082 0 9,095 8 43 6 46  46  147 19 14 14 3 7818 1,215 1,156 1 1,157 8 180 19 0,0331 1,000 8,575 0 10,082 0 9,096 43 45 147 147 144 14 8618 1,125 1,156 1,157 8 180 19 0,0331 1,000 8,575 0 10,082 0 9,096 43 45 147 147 144 14 18 18 1,155 1,156 1 1,157 8 180 19 0,0331 1,000 8,575 0 1,182 0 9,098 1 49 9 10 147 24 144 1 9818 1,151 115 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1,156 1 1															
Section   1,575.0   1,082.0   5,094.3   40.4   43.0   147.15   144.4   681.8   1,216.2   1,190.3   54.34   22.351															
9.00.0 8.575.0 10.822.0 9.696.1 44.9 44.5 147.17 1.144.4 681.8 1.215.2 1.156.1 5.517.2 26.557 1.00.00 8.575.0 10.822.0 9.696.8 45.3 47.8 147.19 1.142.1 1.142.8 81.8 1.215.8 1.156.4 60.09 20.244 1.00.00 8.575.0 11.822.0 9.696.8 45.3 47.8 147.21 1.142.3 1.144.1 981.8 1.215.1 1.156.4 60.09 20.244 1.00.00 8.575.0 11.822.0 9.696.8 45.3 47.8 147.22 1.147.23 1.144.1 981.8 1.215.1 1.155.0 62.17 1.9578 1.00.00 8.575.0 11.822.0 9.696.8 16.9 16.0 1.147.24 1.142.0 1.681.8 1.215.1 1.155.0 62.17 1.9578 1.00.00 8.575.0 11.822.0 9.698.8 16.8 51.0 1.147.24 1.142.0 1.681.8 1.215.1 1.155.0 62.1 1.182.0 1.00.00 8.575.0 1.182.0 9.698.8 16.8 51.0 1.147.2 1.142.8 1.161.8 1.215.1 1.155.0 62.1 1.182.0 1.00.00 8.575.0 1.182.0 9.698.8 16.8 52.0 1.147.2 1.142.8 1.161.8 1.215.1 1.155.0 62.1 1.182.0 1.00.00 8.575.0 1.182.0 9.600.8 52.7 14.7 2.0 1.142.0 1.160.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0															
9,000   8,8750   10,8820   9,998   448   440   147,19   144,3   781,8   1,215   1,167,8   6,009   20,344															
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10,000   8,5750   11,082   0,686   14,08   10   147   14   14   14   14   16   18   12,17   1,155   14   13,08   14   14   14   14   14   14   14   1															
10,000   8,075   11,182   9,088   48,0   51   14724   -144   -144   -1428   11,181   11,181   11,181   11,181   18,181   13,181   10,000   8,075   11,182   9,080   52,7   54,6   -147,8   -143,8   11,181   12,184   12,184   14,185   12,184   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,185   14,															
10,000   8,375.0   11,282.0   9,998.8   50.8   52.8   -147.28   -143.3   1,181.8   1,218.1   1,119.3   68.77   17,726   10,000   8,375.0   11,482.0   9,900.3   54.7   56.5   -147.30   -143.6   1,381.8   1,219.7   1,146.6   71.00   17,160   10,000   8,375.0   11,482.0   9,001.1   56.7   58.4   -147.32   -143.5   1,481.8   1,220.3   1,146.9   73.42   16,820   10,700.0   8,375.0   11,820.0   9,001.8   58.7   60.4   -147.34   -147.35   -1481.8   1,220.3   1,146.9   73.42   16,820   10,700.0   8,375.0   11,820.0   9,003.3   62.9   64.4   -147.36   -143.3   1,181.8   1,220.3   1,146.9   73.42   16,820   10,900.0   8,375.0   11,820.0   9,003.3   62.9   64.4   -147.36   -143.2   1,881.8   1,220.9   1,141.5   60.9   15,147   11,000.0   8,375.0   11,820.0   9,004.1   65.0   66.5   -147.39   -143.0   1,881.7   1,222.9   1,130.7   83.18   14,702   11,000.0   8,375.0   11,282.0   9,004.8   67.1   68.6   -147.41   -142.9   1,981.7   1,223.5   1,137.8   85.9   14.279   11,200.0   8,375.0   12,282.0   9,004.8   67.1   68.6   -147.41   -142.9   1,981.7   1,223.5   1,137.8   85.9   14.279   11,300.0   8,375.0   12,282.0   9,005.8   60.3   71.5   72.8   -147.45   -142.6   2,181.7   1,122.8   1,135.9   83.2   1,367.6   1,140.0   8,375.0   12,282.0   9,005.8   60.3   71.5   72.8   -147.45   -142.6   2,181.7   1,224.8   1,134.0   9,078   1,342.1   1,150.0   8,357.0   12,282.0   9,005.8   60.3   71.5   72.8   -147.45   -142.6   2,181.7   1,224.8   1,134.0   9,078   1,342.1   1,150.0   8,357.0   12,282.0   9,005.8   60.3   71.5   72.8   -147.45   -142.6   2,181.7   1,224.8   1,135.0   9,353.1   1,126.1   1,135.0   9,353.1   1,126.1   1,135.0   9,353.1   1,126.1   1,135.0   9,353.1   1,126.1   1,135.0   9,353.1   1,126.1   1,135.0   9,353.1   1,126.1   1,135.0   9,353.1   1,126.1   1,135.0   9,353.1   1,126.1   1,135.0   9,353.1   1,126.1   1,135.0   9,353.1   1,126.1   1,135.0   1,135.0   1,135.0   1,135.0   1,135.0   1,135.0   1,135.0   1,135.0   1,135.0   1,135.0   1,135.0   1,135.0   1,135.0   1,135.0   1,135.0   1,135.0   1,135.															
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11,90.0 8,575.0 12,882.0 9,610.8 84.9 86.0 -147,56 -141,9 2,781,7 1,228,6 1,122,1 106,47 11,539 12,000.0 8,575.0 12,982.0 9,611.6 87.2 88.2 -147,58 -141.8 2,881.7 1,229.2 1,120.1 109,13 11,263 12,000.0 8,575.0 13,082.0 9,612.3 89.5 90.5 -147,62 -141.6 2,981.7 1,229.9 1,118.1 111.81 11,000 12,200.0 8,575.0 13,182.0 9,613.1 91.8 92.7 -147,62 -141.5 3,081.7 1,231.1 1,114.0 117,18 10,506 12,400.0 8,575.0 13,282.0 9,613.8 94.1 95.0 -147,64 -141.4 3,181.7 1,231.1 1,114.0 117,18 10,506 12,400.0 8,575.0 13,82.0 9,614.6 96.4 97.3 -147,65 -141.3 3,281.7 1,231.8 1,111.9 119,88 10,275 12,500.0 8,575.0 13,82.0 9,615.3 98.7 99.6 -147,67 -141.1 3,281.7 1,231.1 1,114.0 117,18 10,506 12,400.0 8,575.0 13,582.0 9,616.1 101.0 101.9 -147,69 -141.0 3,481.7 1,233.0 1,107,8 125.29 9,841 12,700.0 8,575.0 13,682.0 9,616.1 101.0 101.9 -147,69 -141.0 3,481.7 1,233.0 1,107,8 125.29 9,841 12,200.0 8,575.0 13,82.0 9,616.1 101.0 101.9 -147,69 -141.0 3,481.7 1,233.0 1,107,8 125.29 9,841 12,900.0 8,575.0 13,82.0 9,616.8 103.4 104.2 -147,71 -140.9 3,581.6 1,233.7 1,105.7 128.01 9,637 12,800.0 8,575.0 13,82.0 9,616.8 103.4 104.2 -147,73 -140.8 3,681.6 1,234.3 1,103.6 130,74 9,441 12,900.0 8,575.0 13,82.0 9,618.3 108.0 108.8 -147,75 -140,7 3,781.6 1,235.0 1,101.5 133.47 9,253 13,000.0 8,575.0 13,82.0 9,618.3 108.0 108.8 -147,76 -140.5 3,881.6 1,235.0 1,101.5 133.47 9,253 13,000.0 8,575.0 14,881.9 9,620.6 115.1 115.8 147,78 -140.4 3,981.6 1,236.2 1,097.3 138.94 8,898 13,200.0 8,575.0 14,881.9 9,621.3 117.5 118.1 -147,80 -140.3 4,081.6 1,236.9 1,095.2 141.88 8,730 13,300.0 8,575.0 14,881.9 9,622.8 122.2 122.8 147,85 -139.9 4,381.6 1,238.2 1,091.0 147,17 8,413 13,500.0 8,575.0 14,881.9 9,622.8 122.2 122.8 147,87 -139.8 4,481.6 1,238.2 1,091.0 147,17 8,413 13,500.0 8,575.0 14,881.9 9,622.8 122.2 122.8 147,87 -139.8 4,481.6 1,238.2 1,091.0 147,17 8,413 13,500.0 8,575.0 14,881.9 9,622.8 122.2 122.8 147,87 -139.8 4,481.6 1,239.4 1,086.8 152.68 8,118 13,700.0 8,575.0 14,881.9 9,622.8 122.2 122.8 147,87 -139.8 4,481.6 1,240.1 1,084.6 155.43 7,978 13,300.0	11,700.0	8,575.0	12,682.0	9,609.3	80.4	81.5	-147.52	-142.1	2,581.7	1,227.3	1,126.1	101.18	12.130		
12,000.0 8,575.0 12,982.0 9,611.6 87.2 88.2 -147.58 -141.8 2,881.7 1,229.2 1,120.1 109.13 11.263  12,100.0 8,575.0 13,082.0 9,612.3 89.5 90.5 -147.60 -141.6 2,981.7 1,229.9 1,118.1 111.81 11.000  12,200.0 8,575.0 13,182.0 9,613.8 94.1 95.0 -147.62 -141.5 3,081.7 1,230.5 1,116.0 114.49 10,748  12,300.0 8,575.0 13,282.0 9,613.8 94.1 95.0 -147.64 -141.4 3,181.7 1,231.1 1,114.0 117.18 10.506  12,400.0 8,575.0 13,382.0 9,614.6 96.4 97.3 -147.65 -141.3 3,281.7 1,231.1 1,114.0 117.18 10.506  12,400.0 8,575.0 13,82.0 9,615.3 98.7 99.6 -147.67 -141.1 3,381.7 1,232.4 1,109.8 122.58 10.054  12,600.0 8,575.0 13,582.0 9,616.1 101.0 101.9 -147.69 -141.0 3,481.7 1,233.0 1,107.8 125.29 9.841  12,700.0 8,575.0 13,782.0 9,616.8 103.4 104.2 -147.71 -140.9 3,581.6 1,233.7 1,105.7 128.01 9,637  12,800.0 8,575.0 13,882.0 9,616.8 103.4 104.2 -147.73 -140.8 3,681.6 1,233.7 1,105.7 128.01 9,637  12,800.0 8,575.0 13,882.0 9,618.3 108.0 108.8 -147.75 -140.7 3,781.6 1,235.0 1,101.5 133.47 9,253  13,000.0 8,575.0 13,982.0 9,619.1 110.4 111.1 -147.76 -140.5 3,881.6 1,235.5 1,101.5 133.47 9,253  13,000.0 8,575.0 14,081.9 9,619.8 112.7 113.5 -147.78 -140.4 3,981.6 1,235.5 1,093.4 136.20 9,072  13,100.0 8,575.0 14,081.9 9,620.6 115.1 115.8 -147.80 -140.3 4,081.6 1,235.5 1,093.4 144.42 8,569  13,200.0 8,575.0 14,381.9 9,622.8 112.7 113.5 -147.88 -140.2 4,181.6 1,235.5 1,093.1 144.42 8,569  13,300.0 8,575.0 14,381.9 9,622.8 122.2 122.8 -147.85 -139.9 4,381.6 1,238.2 1,091.0 147.17 8,413  13,500.0 8,575.0 14,881.9 9,623.3 117.5 118.1 -147.85 -139.9 4,381.6 1,238.2 1,091.0 147.17 8,413  13,600.0 8,575.0 14,881.9 9,623.3 126.9 127.5 -147.89 -139.9 4,381.6 1,230.4 1,086.8 152.68 8,118  13,700.0 8,575.0 14,881.9 9,623.3 117.5 118.1 -147.89 -139.6 4,881.6 1,234.7 1,084.6 155.43 7,978  13,800.0 8,575.0 14,881.9 9,623.8 117.5 123.3 147.93 -139.4 4,781.6 1,241.3 1,084.6 160.95 7,713  14,000.0 8,575.0 14,881.9 9,625.8 131.7 132.3 147.93 -139.4 4,781.6 1,242.0 1,078.3 163.71 7,586	11,800.0	8,575.0	12,782.0	9,610.1	82.7	83.7	-147.54	-142.0	2,681.7	1,227.9	1,124.1	103.82	11.828		
12,100.0 8,575.0 13,082.0 9,612.3 89.5 90.5 -147.60 -141.6 2,981.7 1,229.9 1,118.1 111.81 11.000 12,200.0 8,575.0 13,182.0 9,613.1 91.8 92.7 -147.62 -141.5 3,081.7 1,230.5 1,116.0 114.49 10,748 12,300.0 8,575.0 13,282.0 9,613.8 94.1 95.0 -147.64 -141.4 3,181.7 1,231.1 1,114.0 117.18 10.506 12,400.0 8,575.0 13,282.0 9,614.6 96.4 97.3 -147.65 -141.3 3,281.7 1,231.8 1,111.9 119.88 10.275 12,500.0 8,575.0 13,482.0 9,615.3 98.7 99.6 -147.67 -141.1 3,381.7 1,232.4 1,109.8 122.58 10.054 12,600.0 8,575.0 13,582.0 9,616.1 101.0 101.9 -147.69 -141.0 3,481.7 1,233.0 1,107.8 125.29 9,841 12,700.0 8,575.0 13,682.0 9,616.8 103.4 104.2 -147.71 -140.9 3,581.6 1,233.7 1,105.7 128.01 9,637 12,800.0 8,575.0 13,782.0 9,616.8 105.7 106.5 -147.73 -140.8 3,681.6 1,233.7 1,105.7 128.01 9,637 12,800.0 8,575.0 13,882.0 9,618.3 108.0 108.8 -147.75 -140.7 3,781.6 1,235.0 1,101.5 133.47 9,253 13,000.0 8,575.0 13,982.0 9,619.8 112.7 113.5 -147.78 -140.7 3,781.6 1,235.0 1,101.5 133.47 9,253 13,000.0 8,575.0 14,181.9 9,619.8 112.7 113.5 -147.78 -140.4 3,981.6 1,235.6 1,099.4 136.20 9,072 13,100.0 8,575.0 14,281.9 9,621.3 117.5 118.1 -147.82 -140.3 4,081.6 1,235.2 1,099.3 138.94 8.898 13,200.0 8,575.0 14,281.9 9,621.3 117.5 118.1 -147.82 -140.2 4,181.6 1,237.5 1,093.1 144.42 8.569 13,400.0 8,575.0 14,281.9 9,622.8 122.2 122.8 -147.84 -140.0 4,281.6 1,238.2 1,091.0 147.17 8.413 13,500.0 8,575.0 14,881.9 9,622.8 122.2 122.8 -147.85 -139.9 4,381.6 1,238.8 1,088.9 149.92 8.263 13,600.0 8,575.0 14,881.9 9,623.6 124.6 125.2 -147.87 -139.8 4,481.6 1,239.4 1,080.8 149.92 8.263 13,600.0 8,575.0 14,881.9 9,623.6 124.6 125.2 -147.87 -139.8 4,481.6 1,240.1 1,004.6 155.43 7,978 13,800.0 8,575.0 14,881.9 9,625.8 131.7 132.3 -147.89 -139.7 4,581.6 1,240.1 1,004.6 155.43 7,978 13,800.0 8,575.0 14,881.9 9,623.6 124.6 125.2 -147.87 -139.6 4,681.6 1,240.1 1,004.6 155.43 7,978 13,800.0 8,575.0 14,881.9 9,623.6 124.6 125.2 -147.87 -139.6 4,681.6 1,240.1 1,004.6 155.43 7,978 13,800.0 8,575.0 14,881.9 9,626.6 134.1 134.6 -147.95 -139.9 4,881.6 1,241.0 1,004.6 105.5	11,900.0	8,575.0	12,882.0	9,610.8	84.9	86.0	-147.56	-141.9	2,781.7	1,228.6	1,122.1	106.47	11.539		
12,200.0 8,575.0 13,182.0 9,613.1 91.8 92.7 -147.62 -141.5 3,081.7 1,230.5 1,116.0 114.49 10.748 12,300.0 8,575.0 13,282.0 9,613.8 94.1 95.0 -147.64 -141.4 3,181.7 1,231.1 1,114.0 117.18 10.506 12,400.0 8,575.0 13,382.0 9,614.6 96.4 97.3 -147.65 -141.3 3,281.7 1,231.8 1,111.9 119.88 10.275 12,500.0 8,575.0 13,482.0 9,615.3 98.7 99.6 -147.67 -141.1 3,381.7 1,232.4 1,109.8 122.58 10.054  12,600.0 8,575.0 13,682.0 9,616.1 101.0 101.9 -147.69 -141.0 3,481.7 1,233.0 1,107.8 125.29 9.841 12,700.0 8,575.0 13,682.0 9,616.8 103.4 104.2 -147.71 -140.9 3,581.6 1,233.7 1,105.7 128.01 9,637 12,800.0 8,575.0 13,882.0 9,616.8 103.4 104.2 -147.73 -140.8 3,881.6 1,234.3 1,103.6 130.74 9,441 12,900.0 8,575.0 13,882.0 9,618.3 108.0 108.8 -147.75 -140.7 3,781.6 1,235.0 1,101.5 133.47 9,253 13,000.0 8,575.0 13,982.0 9,619.1 110.4 111.1 -147.76 -140.5 3,881.6 1,235.6 1,099.4 136.20 9.072 13,100.0 8,575.0 14,081.9 9,619.8 112.7 113.5 -147.78 -140.4 3,981.6 1,236.2 1,097.3 138.94 8.898 13,200.0 8,575.0 14,481.9 9,621.3 117.5 118.1 -147.82 -140.2 4,181.6 1,236.9 1,095.2 141.68 8.730 13,300.0 8,575.0 14,281.9 9,621.3 117.5 118.1 -147.82 -140.2 4,181.6 1,236.9 1,095.2 141.68 8.730 13,500.0 8,575.0 14,381.9 9,622.1 119.8 120.5 -147.84 -140.0 4,281.6 1,236.9 1,095.2 141.68 8.730 13,500.0 8,575.0 14,381.9 9,622.1 119.8 120.5 -147.85 -139.9 4,381.6 1,238.2 1,091.0 147.17 8.413 13,500.0 8,575.0 14,481.9 9,623.6 124.6 125.2 -147.87 -139.8 4,481.6 1,239.4 1,086.8 152.68 8.118 13,700.0 8,575.0 14,681.9 9,623.6 124.6 125.2 -147.87 -139.8 4,481.6 1,239.4 1,086.8 152.68 8.118 13,700.0 8,575.0 14,881.9 9,625.1 129.3 129.9 -147.91 -139.6 4,681.6 1,240.7 1,082.5 158.19 7.843 13,900.0 8,575.0 14,881.9 9,625.1 129.3 129.9 -147.91 -139.6 4,681.6 1,240.7 1,082.5 158.19 7.843 13,900.0 8,575.0 14,881.9 9,625.1 129.3 129.9 -147.91 -139.6 4,681.6 1,240.7 1,082.5 158.19 7.843 13,900.0 8,575.0 14,881.9 9,625.1 129.3 129.9 -147.91 -139.6 4,681.6 1,240.7 1,082.5 158.19 7.843 13,900.0 8,575.0 14,881.9 9,625.8 131.7 132.3 -147.95 -139.3 4,881.6 1,240.0 1,078.3 163.	12,000.0	8,575.0	12,982.0	9,611.6	87.2	88.2	-147.58	-141.8	2,881.7	1,229.2	1,120.1	109.13	11.263		
12,300.0 8,575.0 13,282.0 9,613.8 94.1 95.0 -147.64 -141.4 3,181.7 1,231.1 1,114.0 117.18 10.506 12,400.0 8,575.0 13,382.0 9,614.6 96.4 97.3 -147.65 -141.3 3,281.7 1,231.8 1,111.9 119.88 10.275 12,500.0 8,575.0 13,482.0 9,615.3 98.7 99.6 -147.67 -141.1 3,381.7 1,232.4 1,109.8 122.58 10.054  12,600.0 8,575.0 13,582.0 9,616.1 101.0 101.9 -147.69 -141.0 3,481.7 1,233.0 1,107.8 125.29 9,841 12,700.0 8,575.0 13,682.0 9,616.8 103.4 104.2 -147.71 -140.9 3,581.6 1,233.7 1,105.7 128.01 9,637 12,800.0 8,575.0 13,882.0 9,618.3 108.0 108.8 -147.75 -140.7 3,781.6 1,233.7 1,105.7 128.01 9,637 13,000.0 8,575.0 13,882.0 9,618.3 108.0 108.8 -147.75 -140.7 3,781.6 1,235.0 1,101.5 133.47 9,253 13,000.0 8,575.0 13,982.0 9,619.1 110.4 111.1 -147.76 -140.5 3,881.6 1,235.6 1,099.4 136.20 9,072  13,100.0 8,575.0 14,081.9 9,619.8 112.7 113.5 -147.78 -140.4 3,981.6 1,235.6 1,099.4 136.20 9,072  13,100.0 8,575.0 14,081.9 9,619.8 112.7 113.5 -147.80 -140.3 4,081.6 1,235.0 1,097.3 138.94 8.898 13,200.0 8,575.0 14,281.9 9,621.3 117.5 118.1 -147.82 -140.2 4,181.6 1,237.5 1,093.1 144.42 8.569 13,400.0 8,575.0 14,381.9 9,622.1 119.8 120.5 -147.84 -140.0 4,281.6 1,237.5 1,093.1 144.42 8.569 13,400.0 8,575.0 14,481.9 9,622.1 119.8 120.5 -147.84 -140.0 4,281.6 1,237.5 1,093.1 144.42 8.569 13,600.0 8,575.0 14,481.9 9,622.1 119.8 120.5 -147.84 -140.0 4,281.6 1,237.5 1,093.1 144.42 8.569 13,600.0 8,575.0 14,481.9 9,622.1 119.8 120.5 -147.89 -139.7 4,581.6 1,238.2 1,091.0 147.17 8.413 13,500.0 8,575.0 14,481.9 9,622.1 119.8 120.5 -147.89 -139.7 4,581.6 1,230.8 1,088.9 149.92 8.263 13,600.0 8,575.0 14,681.9 9,622.8 122.2 122.8 -147.87 -139.8 4,481.6 1,237.5 1,093.1 144.42 8.569 13,600.0 8,575.0 14,681.9 9,622.8 122.2 122.8 -147.87 -139.8 4,481.6 1,241.3 1,080.4 160.95 7.713 14,000.0 8,575.0 14,881.9 9,625.6 134.1 134.6 -147.95 -139.9 4,881.6 1,242.0 1,078.3 163.71 7,586	12,100.0	8,575.0	13,082.0	9,612.3	89.5	90.5	-147.60	-141.6	2,981.7	1,229.9	1,118.1	111.81	11.000		
12,400.0 8,575.0 13,382.0 9,614.6 96.4 97.3 -147.65 -141.3 3,281.7 1,231.8 1,111.9 119.88 10.275 12,500.0 8,575.0 13,482.0 9,615.3 98.7 99.6 -147.67 -141.1 3,381.7 1,232.4 1,109.8 122.58 10.054 12,600.0 8,575.0 13,582.0 9,616.1 101.0 101.9 -147.69 -141.0 3,481.7 1,233.0 1,107.8 125.29 9,841 12,700.0 8,575.0 13,682.0 9,616.8 103.4 104.2 -147.71 -140.9 3,581.6 1,233.7 1,105.7 128.01 9,637 12,800.0 8,575.0 13,882.0 9,617.6 105.7 106.5 -147.73 -140.8 3,681.6 1,233.7 1,105.7 128.01 9,637 12,900.0 8,575.0 13,882.0 9,619.1 110.4 111.1 -147.76 -140.5 3,881.6 1,235.0 1,101.5 133.47 9,253 13,000.0 8,575.0 13,982.0 9,619.1 110.4 111.1 -147.76 -140.5 3,881.6 1,235.6 1,099.4 136.20 9,072 13,100.0 8,575.0 14,081.9 9,620.6 115.1 115.8 -147.80 -140.4 3,981.6 1,235.0 1,091.3 13.94 8.898 13,200.0 8,575.0 14,281.9 9,621.3 117.5 118.1 -147.82 -140.2 4,181.6 1,237.5 1,091.1 144.42 8.569 13,400.0 8,575.0 14,381.9 9,622.1 119.8 120.5 -147.84 -140.0 4,281.6 1,238.2 1,091.0 147.17 84.13 13,500.0 8,575.0 14,381.9 9,622.1 119.8 120.5 -147.84 -140.0 4,281.6 1,238.2 1,091.0 147.17 84.13 13,500.0 8,575.0 14,481.9 9,622.1 119.8 120.5 -147.84 -140.0 4,281.6 1,238.2 1,091.0 147.17 84.13 13,500.0 8,575.0 14,481.9 9,622.6 122.2 122.8 -147.85 -139.9 4,381.6 1,239.4 1,086.8 152.68 8.118 13,700.0 8,575.0 14,481.9 9,622.6 122.2 122.8 -147.85 -139.9 4,381.6 1,230.4 1,086.8 152.68 8.118 13,700.0 8,575.0 14,481.9 9,625.8 132.7 122.8 -147.85 -139.9 4,881.6 1,240.7 1,086.8 152.68 8.118 13,700.0 8,575.0 14,481.9 9,625.8 132.7 127.5 -147.89 -139.6 4,681.6 1,240.7 1,082.5 158.19 7.843 13,900.0 8,575.0 14,881.9 9,625.8 131.7 132.3 -147.93 -139.4 4,781.6 1,241.3 1,080.4 160.95 7.713 14,000.0 8,575.0 14,881.9 9,625.8 131.7 132.3 -147.93 -139.4 4,781.6 1,241.3 1,080.4 160.95 7.713 14,000.0 8,575.0 14,881.9 9,626.6 134.1 134.6 -147.95 -139.9 4,781.6 1,241.3 1,080.4 160.95 7.713 14,000.0 8,575.0 14,881.9 9,625.8 131.7 132.3 -147.93 -139.4 4,781.6 1,241.3 1,080.4 160.95 7.713 14,000.0 8,575.0 14,881.9 9,626.6 134.1 134.6 -147.95 -139.3 4,881.6 1,242.0 1,078.3 163.	12,200.0	8,575.0	13,182.0	9,613.1	91.8	92.7	-147.62	-141.5	3,081.7	1,230.5	1,116.0	114.49	10.748		
12,500.0       8,575.0       13,482.0       9,615.3       98.7       99.6       -147.67       -141.1       3,381.7       1,232.4       1,109.8       122.58       10.054         12,600.0       8,575.0       13,582.0       9,616.1       101.0       101.9       -147.69       -141.0       3,481.7       1,233.0       1,107.8       125.29       9.841         12,700.0       8,575.0       13,682.0       9,616.8       103.4       104.2       -147.71       -140.9       3,581.6       1,233.7       1,105.7       128.01       9,637         12,800.0       8,575.0       13,782.0       9,617.6       105.7       106.5       -147.73       -140.8       3,681.6       1,234.3       1,103.6       130.74       9.441         12,900.0       8,575.0       13,882.0       9,618.3       108.0       108.8       -147.75       -140.7       3,781.6       1,235.0       1,101.5       133.47       9.253         13,000.0       8,575.0       14,081.9       9,619.8       112.7       113.5       -147.78       -140.5       3,881.6       1,236.2       1,097.3       138.94       8.898         13,200.0       8,575.0       14,181.9       9,620.6       115.1       115.8       -147.80<	12,300.0	8,575.0	13,282.0	9,613.8	94.1	95.0	-147.64	-141.4	3,181.7	1,231.1	1,114.0	117.18	10.506		
12,600.0       8,575.0       13,582.0       9,616.1       101.0       101.9       -147.69       -141.0       3,481.7       1,233.0       1,107.8       125.29       9,841         12,700.0       8,575.0       13,682.0       9,616.8       103.4       104.2       -147.71       -140.9       3,581.6       1,233.7       1,105.7       128.01       9.637         12,800.0       8,575.0       13,782.0       9,618.3       108.0       108.8       -147.75       -140.7       3,781.6       1,235.0       1,101.5       133.47       9.253         13,000.0       8,575.0       13,982.0       9,619.1       110.4       111.1       -147.76       -140.5       3,881.6       1,235.0       1,101.5       133.47       9.253         13,100.0       8,575.0       13,982.0       9,619.1       110.4       111.1       -147.76       -140.5       3,881.6       1,235.6       1,099.4       136.20       9.072         13,100.0       8,575.0       14,081.9       9,619.8       112.7       113.5       -147.78       -140.4       3,981.6       1,236.2       1,097.3       138.94       8.898         13,200.0       8,575.0       14,181.9       9,620.6       115.1       115.8       -147.80				9,614.6		97.3	-147.65	-141.3			1,111.9				
12,700.0       8,575.0       13,682.0       9,616.8       103.4       104.2       -147.71       -140.9       3,581.6       1,233.7       1,105.7       128.01       9,637         12,800.0       8,575.0       13,782.0       9,617.6       105.7       106.5       -147.73       -140.8       3,681.6       1,234.3       1,103.6       130.74       9,441         12,900.0       8,575.0       13,882.0       9,618.3       108.0       108.8       -147.75       -140.7       3,781.6       1,235.0       1,101.5       133.47       9,253         13,000.0       8,575.0       13,982.0       9,619.1       110.4       111.1       -147.76       -140.5       3,881.6       1,235.6       1,099.4       136.20       9.072         13,100.0       8,575.0       14,081.9       9,619.8       112.7       113.5       -147.78       -140.4       3,981.6       1,236.2       1,097.3       138.94       8.898         13,200.0       8,575.0       14,181.9       9,620.6       115.1       115.8       -147.80       -140.3       4,081.6       1,236.9       1,095.2       141.68       8.730         13,400.0       8,575.0       14,281.9       9,621.3       117.5       118.1       -147.82	12,500.0	8,575.0	13,482.0	9,615.3	98.7	99.6	-147.67	-141.1	3,381.7	1,232.4	1,109.8	122.58	10.054		
12,800.0       8,575.0       13,782.0       9,617.6       105.7       106.5       -147.73       -140.8       3,681.6       1,234.3       1,103.6       130.74       9.441         12,900.0       8,575.0       13,882.0       9,618.3       108.0       108.8       -147.75       -140.7       3,781.6       1,235.0       1,101.5       133.47       9.253         13,000.0       8,575.0       13,982.0       9,619.1       110.4       111.1       -147.76       -140.5       3,881.6       1,235.6       1,099.4       136.20       9.072         13,100.0       8,575.0       14,081.9       9,619.8       112.7       113.5       -147.78       -140.4       3,981.6       1,236.2       1,097.3       138.94       8.898         13,200.0       8,575.0       14,181.9       9,620.6       115.1       115.8       -147.80       -140.3       4,081.6       1,236.9       1,095.2       141.68       8.730         13,400.0       8,575.0       14,281.9       9,621.3       117.5       118.1       -147.82       -140.2       4,181.6       1,237.5       1,093.1       144.42       8.569         13,400.0       8,575.0       14,381.9       9,622.8       122.2       122.8       -147.84		8,575.0	13,582.0	9,616.1	101.0		-147.69	-141.0		1,233.0	1,107.8	125.29			
12,900.0       8,575.0       13,882.0       9,618.3       108.0       108.8       -147.75       -140.7       3,781.6       1,235.0       1,101.5       133.47       9,253         13,000.0       8,575.0       13,982.0       9,619.1       110.4       111.1       -147.76       -140.5       3,881.6       1,235.6       1,099.4       136.20       9,072         13,100.0       8,575.0       14,081.9       9,619.8       112.7       113.5       -147.78       -140.4       3,981.6       1,236.2       1,097.3       138.94       8.898         13,200.0       8,575.0       14,181.9       9,620.6       115.1       115.8       -147.80       -140.3       4,081.6       1,236.9       1,095.2       141.68       8.730         13,300.0       8,575.0       14,281.9       9,621.3       117.5       118.1       -147.82       -140.2       4,181.6       1,237.5       1,093.1       144.42       8.569         13,400.0       8,575.0       14,381.9       9,622.8       122.2       122.8       -147.84       -140.0       4,281.6       1,238.2       1,091.0       147.17       8.413         13,500.0       8,575.0       14,481.9       9,622.8       122.2       122.8       -147.85				9,616.8			-147.71			1,233.7					
13,000.0       8,575.0       13,982.0       9,619.1       110.4       111.1       -147.76       -140.5       3,881.6       1,235.6       1,099.4       136.20       9.072         13,100.0       8,575.0       14,081.9       9,619.8       112.7       113.5       -147.78       -140.4       3,981.6       1,236.2       1,097.3       138.94       8.898         13,200.0       8,575.0       14,181.9       9,620.6       115.1       115.8       -147.80       -140.3       4,081.6       1,236.9       1,097.3       138.94       8.898         13,300.0       8,575.0       14,281.9       9,620.6       115.1       115.8       -147.80       -140.2       4,181.6       1,236.9       1,095.2       141.68       8.730         13,400.0       8,575.0       14,381.9       9,622.1       119.8       120.5       -147.84       -140.0       4,281.6       1,238.2       1,091.0       147.17       8.413         13,600.0       8,575.0       14,481.9       9,622.8       122.2       122.8       -147.85       -139.9       4,381.6       1,239.4       1,086.8       152.68       8.118         13,700.0       8,575.0       14,581.9       9,623.6       124.6       125.2       -147.87															
13,100.0       8,575.0       14,081.9       9,619.8       112.7       113.5       -147.78       -140.4       3,981.6       1,236.2       1,097.3       138.94       8.898         13,200.0       8,575.0       14,181.9       9,620.6       115.1       115.8       -147.80       -140.3       4,081.6       1,236.9       1,095.2       141.68       8.730         13,300.0       8,575.0       14,281.9       9,621.3       117.5       118.1       -147.82       -140.2       4,181.6       1,237.5       1,093.1       144.42       8.569         13,400.0       8,575.0       14,381.9       9,622.1       119.8       120.5       -147.84       -140.0       4,281.6       1,238.2       1,091.0       147.17       8.413         13,500.0       8,575.0       14,481.9       9,622.8       122.2       122.8       -147.85       -139.9       4,381.6       1,238.8       1,088.9       149.92       8.263         13,600.0       8,575.0       14,581.9       9,623.6       124.6       125.2       -147.87       -139.8       4,481.6       1,239.4       1,086.8       152.68       8.118         13,700.0       8,575.0       14,681.9       9,624.3       126.9       127.5       -147.89															
13,200.0       8,575.0       14,181.9       9,620.6       115.1       115.8       -147.80       -140.3       4,081.6       1,236.9       1,095.2       141.68       8.730         13,300.0       8,575.0       14,281.9       9,621.3       117.5       118.1       -147.82       -140.2       4,181.6       1,237.5       1,093.1       144.42       8,569         13,400.0       8,575.0       14,381.9       9,622.8       122.2       122.8       -147.85       -139.9       4,381.6       1,238.2       1,091.0       147.17       8.413         13,500.0       8,575.0       14,481.9       9,622.8       122.2       122.8       -147.85       -139.9       4,381.6       1,238.8       1,088.9       149.92       8.263         13,600.0       8,575.0       14,581.9       9,623.6       124.6       125.2       -147.87       -139.8       4,481.6       1,239.4       1,086.8       152.68       8.118         13,700.0       8,575.0       14,681.9       9,624.3       126.9       127.5       -147.89       -139.7       4,581.6       1,240.1       1,084.6       155.43       7.978         13,800.0       8,575.0       14,781.9       9,625.1       129.3       129.9       -147.91															
13,300.0       8,575.0       14,281.9       9,621.3       117.5       118.1       -147.82       -140.2       4,181.6       1,237.5       1,093.1       144.42       8.569         13,400.0       8,575.0       14,381.9       9,622.1       119.8       120.5       -147.84       -140.0       4,281.6       1,238.2       1,091.0       147.17       8.413         13,500.0       8,575.0       14,481.9       9,622.8       122.2       122.8       -147.85       -139.9       4,381.6       1,238.8       1,088.9       149.92       8.263         13,600.0       8,575.0       14,581.9       9,623.6       124.6       125.2       -147.87       -139.8       4,481.6       1,239.4       1,086.8       152.68       8.118         13,700.0       8,575.0       14,681.9       9,624.3       126.9       127.5       -147.89       -139.7       4,581.6       1,240.1       1,084.6       155.43       7.978         13,800.0       8,575.0       14,781.9       9,625.1       129.3       129.9       -147.91       -139.6       4,681.6       1,240.7       1,082.5       158.19       7.843         13,900.0       8,575.0       14,881.9       9,625.8       131.7       132.3       -147.93															
13,400.0       8,575.0       14,381.9       9,622.1       119.8       120.5       -147.84       -140.0       4,281.6       1,238.2       1,091.0       147.17       8.413         13,500.0       8,575.0       14,481.9       9,622.8       122.2       122.8       -147.85       -139.9       4,381.6       1,238.8       1,088.9       149.92       8.263         13,600.0       8,575.0       14,581.9       9,623.6       124.6       125.2       -147.87       -139.8       4,481.6       1,239.4       1,086.8       152.68       8.118         13,700.0       8,575.0       14,681.9       9,624.3       126.9       127.5       -147.89       -139.7       4,581.6       1,240.1       1,084.6       155.43       7.978         13,800.0       8,575.0       14,781.9       9,625.1       129.3       129.9       -147.91       -139.6       4,681.6       1,240.7       1,082.5       158.19       7.843         13,900.0       8,575.0       14,881.9       9,625.8       131.7       132.3       -147.93       -139.4       4,781.6       1,241.3       1,080.4       160.95       7.713         14,000.0       8,575.0       14,981.9       9,626.6       134.1       134.6       -147.95															
13,500.0       8,575.0       14,481.9       9,622.8       122.2       122.8       -147.85       -139.9       4,381.6       1,238.8       1,088.9       149.92       8.263         13,600.0       8,575.0       14,581.9       9,623.6       124.6       125.2       -147.87       -139.8       4,481.6       1,239.4       1,086.8       152.68       8.118         13,700.0       8,575.0       14,681.9       9,624.3       126.9       127.5       -147.89       -139.7       4,581.6       1,240.1       1,084.6       155.43       7.978         13,800.0       8,575.0       14,781.9       9,625.1       129.3       129.9       -147.91       -139.6       4,681.6       1,240.7       1,082.5       158.19       7.843         13,900.0       8,575.0       14,881.9       9,625.8       131.7       132.3       -147.93       -139.4       4,781.6       1,241.3       1,080.4       160.95       7.713         14,000.0       8,575.0       14,981.9       9,626.6       134.1       134.6       -147.95       -139.3       4,881.6       1,242.0       1,078.3       163.71       7.586															
13,700.0     8,575.0     14,681.9     9,624.3     126.9     127.5     -147.89     -139.7     4,581.6     1,240.1     1,084.6     155.43     7.978       13,800.0     8,575.0     14,781.9     9,625.1     129.3     129.9     -147.91     -139.6     4,681.6     1,240.7     1,082.5     158.19     7.843       13,900.0     8,575.0     14,881.9     9,625.8     131.7     132.3     -147.93     -139.4     4,781.6     1,241.3     1,080.4     160.95     7.713       14,000.0     8,575.0     14,981.9     9,626.6     134.1     134.6     -147.95     -139.3     4,881.6     1,242.0     1,078.3     163.71     7.586															
13,700.0     8,575.0     14,681.9     9,624.3     126.9     127.5     -147.89     -139.7     4,581.6     1,240.1     1,084.6     155.43     7.978       13,800.0     8,575.0     14,781.9     9,625.1     129.3     129.9     -147.91     -139.6     4,681.6     1,240.7     1,082.5     158.19     7.843       13,900.0     8,575.0     14,881.9     9,625.8     131.7     132.3     -147.93     -139.4     4,781.6     1,241.3     1,080.4     160.95     7.713       14,000.0     8,575.0     14,981.9     9,626.6     134.1     134.6     -147.95     -139.3     4,881.6     1,242.0     1,078.3     163.71     7.586	13,600.0	8,575.0	14,581.9	9,623.6	124.6	125.2	-147.87	-139.8	4,481.6	1,239.4	1,086.8	152.68	8.118		
13,800.0     8,575.0     14,781.9     9,625.1     129.3     129.9     -147.91     -139.6     4,681.6     1,240.7     1,082.5     158.19     7.843       13,900.0     8,575.0     14,881.9     9,625.8     131.7     132.3     -147.93     -139.4     4,781.6     1,241.3     1,080.4     160.95     7.713       14,000.0     8,575.0     14,981.9     9,626.6     134.1     134.6     -147.95     -139.3     4,881.6     1,242.0     1,078.3     163.71     7.586															
13,900.0     8,575.0     14,881.9     9,625.8     131.7     132.3     -147.93     -139.4     4,781.6     1,241.3     1,080.4     160.95     7.713       14,000.0     8,575.0     14,981.9     9,626.6     134.1     134.6     -147.95     -139.3     4,881.6     1,242.0     1,078.3     163.71     7.586															
14,000.0 8,575.0 14,981.9 9,626.6 134.1 134.6 -147.95 -139.3 4,881.6 1,242.0 1,078.3 163.71 7.586															
44400 0 05750 450040 00070 4004 4070 44700 4000 40															
14,100.0 م.25.0 1.242.6 1,076.1 166.48 7.464 137.0 -147.96 -139.2 4,981.6 1,242.6 1,076.1 166.48 7.464	14,100.0	8,575.0	15,081.9	9,627.3	136.4	137.0	-147.96	-139.2	4,981.6	1,242.6	1,076.1	166.48	7.464		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Well Simon Camamile Fed Com #126H

Part	Error: 0.0 us	Offset Site Error:			Plan #1	#1 - BLM F	- Wellbore	ed Com #136H	amamile Fe	Simon C	Fed Com -	Camamile	Simon C	esign	Offset De
No.   Process	Error: 0.0 us	Offset Well Error:													
	farmin n	Monaina	Senaration	Minimum			e Centre	Offset Wellho	Higheide		_				
14,400   8,576   12,919   9,078   1412   1417   1480   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989   1,989	arning	warning		Separation	Ellipses	Centres	+E/-W	+N/-S	Toolface			Depth	Depth	Depth	Depth
14,400   8,750   16,381   9,628   1438   1438   1441   14802   1388   5,2816   1,246   1,668   174.78   713   14,400   8,750   15,581   9,681   1484   1489   14805   14805   13806   5,4815   1,246   1,665   160,31   1698   6,888   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487   1,487			7.346	169.24	1,074.0	1,243.3	5,081.6	-139.1	-147.98	139.4	138.8	9,628.1	15,181.9	8,575.0	14,200.0
14,000   8,770   15,481   9,800.3   14,00   146.0   146.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0   148.0			7.232	172.01	1,071.9	1,243.9	5,181.6	-138.9	-148.00	141.7	141.2	9,628.8	15,281.9	8,575.0	14,300.0
1,4000   8,775   15,819   9,631   1,484   1490   -1480   -1480   -1480   1,484   1,480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -1480   -14															
14,000   8,775   15,881   9,831   1508   1513   -148,07   -139,5   5,815   1,246   1,033   188,08   6,808															
14,000															
1,500.00   8,575.0   15,881.9   6,881.3   155.6   150.0   148.1   1.181.2   5,781.5   1,247.7   1,059.1   1,089.2   0,815.3   1,510.0   1,081.1   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3   1,081.3															
15,000   15,750   15,861   9,804   1580   1584   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13   148.13															
15,000   8,750   16,021   0,034   0,034   190.4   190.8   148.14   138.0   2,981.5   1,289.0   1,054.9   191.7   6,433     15,000   8,75.0   16,221   9,696.3   165.2   165.6   148.18   137.7   6,181.5   1,289.3   1,050.6   199.71   6,201     15,000   8,75.0   16,231   9,697.3   170.0   170.4   148.20   1,137.6   6,221.5   1,251.0   1,044.5   202.48   6,170     15,000   8,75.0   16,819   9,697.8   170.0   170.4   148.21   137.5   6,381.5   1,251.0   1,044.5   202.48   6,170     15,000   8,75.0   16,819   9,693.8   172.5   172.8   148.21   1,137.4   6,481.5   1,252.2   1,044.2   206.02   6,200     15,000   8,75.0   16,819   9,693.8   172.5   172.8   148.23   1,137.4   6,481.5   1,252.2   1,044.2   206.02   6,200     15,000   8,75.0   1,081.9   9,693.3   174.9   172.2   148.23   1,137.4   6,481.5   1,252.2   1,044.2   206.02   6,200     15,000   8,75.0   1,081.9   9,693.3   174.9   172.2   148.23   1,137.4   6,481.5   1,252.2   1,044.2   206.02   6,200     15,000   8,75.0   1,081.9   9,641.5   177.5   1,758.0   1,482.7   1,77.0   6,711.5   1,252.9   1,044.2   206.02   6,200     15,000   8,75.0   1,081.9   9,641.5   127.5   172.8   1,482.2   1,77.0   6,711.5   1,262.9   1,044.2   2,040.2     16,000   8,75.0   1,731.9   9,643.1   187.0   187.3   148.34   1,189.6   6,811.5   1,264.2   1,037.4   2,464   5,592     16,000   8,75.0   17,281.9   9,643.5   187.7   148.3   1,186.5   7,181.4   1,266.1   1,031.4   2,464   5,592     16,000   8,75.0   17,381.9   9,644.6   191.5   148.3   1,186.5   7,181.4   1,266.1   1,031.4   2,464   5,592     16,000   8,75.0   17,381.8   9,646.5   191.8   192.1   1,483.7   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483.9   1,483															
15.000   8.575.0   10.819.9   9.835.6   192.8   192.2   148.16   137.7   0.915.5   1.289.7   1.056.7   199.71   0.291.5   1.289.7   1.056.7   199.71   0.291.5   1.289.7   1.056.7   199.71   0.291.5   1.289.7   1.056.8   199.71   0.291.5   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289.7   1.289															
15,000															
15,000   15,750   10,4819   9,687.1   10.76   188.0   -148.20   -137.6   6,2815   1,2810   1,048.5   200.248   6,178															
15,000   0,8750   16,0819   0,837.8   170.0   170.4   -140.21   -137.5   6,381.5   1,251.6   1,046.3   205.25   0,088   15,000   0,8750   16,0819   0,893.6   174.9   175.2   174.8   -148.25   -137.2   0,681.5   1,252.9   1,042.1   210.79   0,544   15,000   0,5750   16,0819   0,804.0   177.7   177.6   -148.27   -137.1   0,681.5   1,252.5   1,040.0   213.56   5,870   15,000   0,5750   16,0819   0,840.6   179.7   180.0   -140.29   -137.0   -137.0   -137.5   1,252.9   1,042.1   210.79   0,544   15,000   0,5750   16,0819   0,841.6   182.1   182.5   -148.30   -136.9   0,881.5   1,254.8   1,035.7   219.10   0,727   1,000.0   0,575.0   17,0819   0,943.1   187.0   187.3   -148.34   -136.8   7,081.5   1,254.8   1,035.7   219.10   0,727   1,000.0   0,575.0   17,7819   0,943.1   187.0   187.3   -148.34   -136.8   7,081.5   1,254.8   1,035.7   227.41   0,527.5   0,568   1,000.0   0,575.0   17,7819   0,943.9   189.4   189.7   -148.36   -136.5   7,161.4   1,256.1   1,031.4   224.64   5,592   16,000.0   0,575.0   17,7819   0,944.3   189.4   189.7   -148.36   -136.5   7,7614   1,256.7   1,023.3   2,2741   5,568   16,000.0   0,575.0   17,7819   0,944.5   194.2   194.5   -148.39   -136.3   7,381.4   1,256.1   1,031.4   224.64   5,592   16,000.0   0,575.0   17,7818   0,946.5   194.2   194.5   -148.39   -136.3   7,381.4   1,256.0   1,025.1   232.94   5,401   1,000.0   0,575.0   17,7818   0,946.5   190.1   190.3   -148.41   -135.9   7,681.4   1,259.3   1,020.8   238.47   5,281   1,000.0   0,575.0   17,7818   0,946.5   190.1   190.3   -148.41   -135.9   7,681.4   1,259.3   1,020.8   238.47   5,281   1,000.0   0,575.0   17,881.8   0,946.8   0,949.8   0,948.2   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8   0,949.8															
15,000   0,075															
15,000   8,5750   16,8819   9,6401   177,3   177,6   148,27   -137,1   6,681.5   1,282.9   1,042.1   210.79   5,944     15,800.0   8,575.0   16,881.9   9,640.6   179,7   190.0   -148.29   -137,1   6,681.5   1,283.5   1,040.0   213.56   5,870     15,000.0   8,575.0   16,881.9   9,640.6   179,7   190.0   -148.29   -137,0   -157,0   -157,0   1,031.8   216.33   5,797     16,000.0   8,575.0   16,881.9   9,641.6   182.1   182.5   -148.30   -138.9   6,881.5   1,264.8   1,035.7   219.10   5,727     16,000.0   8,575.0   17,381.9   9,643.1   187.0   187.3   -148.34   -138.6   7,081.5   1,264.8   1,035.7   219.10   5,727     16,000.0   8,575.0   17,281.9   9,643.9   188.4   189.7   -148.36   -138.6   7,081.4   1,265.1   1,031.4   224.64   5,592     16,300.0   8,575.0   17,281.9   9,643.9   188.4   189.7   -148.36   -138.6   7,081.4   1,266.7   1,028.3   227.41   5,526     16,400.0   8,575.0   17,381.9   9,643.6   191.8   192.1   -148.37   -138.4   7,281.4   1,257.4   1,227.4   1,227.4   1,227.4     16,500.0   8,575.0   17,381.9   9,645.4   194.2   194.5   -148.39   -138.3   7,381.4   1,286.0   1,025.1   232.94   5,401     16,600.0   8,575.0   17,581.8   9,646.7   196.6   169.9   -148.41   -135.9   7,681.4   1,269.3   1,020.2   23.70   5,340     16,600.0   8,575.0   17,881.8   9,646.9   199.1   199.3   -148.43   -138.0   7,581.4   1,269.3   1,020.8   238.47   5,281     16,800.0   8,575.0   17,881.8   9,649.1   203.3   206.6   -148.46   -135.6   7,881.4   1,269.9   1,015.6   244.00   5,166     17,000.0   8,575.0   17,881.8   9,649.1   203.3   206.6   -148.46   -135.6   7,881.4   1,269.5   1,166.2   244.00   5,166     17,000.0   8,575.0   17,881.8   9,649.1   203.3   206.6   -148.46   -135.6   7,881.4   1,269.3   1,016.6   244.00   5,166     17,000.0   8,575.0   18,881.8   9,649.1   203.3   206.6   -148.46   -135.6   7,881.4   1,269.3   1,016.6   244.00   5,166     17,000.0   8,575.0   18,881.8   9,665.1   218.0   218.3   218.5   218.7   218.5   218.5   218.5   218.5   218.5   218.5   218.5   218.5   218.5   218.5   218.5															
15,000   0, 8,75															
			5.870	213.56	1,040.0	1,253.5	6,681.5	-137.1	-148.27	177.6	177.3	9,640.1	16,781.9	8,575.0	15,800.0
16,100			5.797	216.33	1,037.8	1,254.2	6,781.5	-137.0	-148.29	180.0	179.7	9,640.8	16,881.9	8,575.0	15,900.0
16,200.0 8,575.0 17,381.9 9,643.1 187.0 187.3 -148.34 -136.6 7,081.4 1,256.1 1,031.4 224.64 5.592 163,000 8,575.0 17,381.9 9,643.8 188.4 189.7 -148.36 -136.5 7,181.4 1,256.7 1,029.3 227.41 5.526 164,000 8,575.0 17,381.9 9,644.6 191.8 192.1 -148.37 -138.4 7,281.4 1,257.4 1,027.2 230.17 5.463 16,600.0 8,575.0 17,381.9 9,644.1 194.2 194.5 -146.39 -138.3 7,381.4 1,258.7 1,023.0 235.70 5.340 16,600.0 8,575.0 17,881.9 9,846.1 196.6 196.9 -148.41 -136.1 7,481.4 1,258.7 1,023.0 235.70 5.340 16,600.0 8,575.0 17,881.8 9,544.9 199.1 199.3 -148.43 -138.0 7,581.4 1,259.3 1,020.9 238.47 5.281 16,800.0 8,575.0 17,881.8 9,644.2 201.5 201.8 148.44 -135.9 7,681.4 1,259.3 1,020.9 238.47 5.281 16,800.0 8,575.0 17,881.8 9,644.2 203.9 204.2 148.46 -135.8 7,781.4 1,260.6 1,016.6 244.00 5.166 17,000.0 8,575.0 17,881.8 9,644.2 203.9 204.2 148.48 -135.6 7,881.4 1,259.9 1,018.7 241.23 5.223 16,890.0 8,575.0 18,881.8 9,644.2 203.9 204.2 148.48 -135.6 7,881.4 1,260.6 1,016.6 244.00 5.166 17,000.0 8,575.0 18,881.8 9,649.9 208.8 209.0 148.50 -135.5 7,891.4 1,260.9 1,018.7 241.23 5.223 17,200.0 8,575.0 18,881.8 9,655.1 218.0 213.3 148.55 1.355 7,891.4 1,261.9 1,012.4 249.5 2.5057 17,200.0 8,575.0 18,881.8 9,655.1 218.0 216.3 148.55 1.352 8,281.4 1,262.5 1,002.2 252.28 5,004 17,300.0 8,575.0 18,881.8 9,655.1 218.0 216.3 148.55 1.352 8,281.4 1,285.8 1,006.0 257.80 4,952 17,500.0 8,575.0 18,881.8 9,655.1 218.5 218.7 148.55 1.352 8,281.4 1,285.8 1,006.0 257.80 4,952 17,500.0 8,575.0 18,881.8 9,655.1 228.2 228.4 148.69 1.348.8 8,881.4 1,265.1 1,001.8 263.3 14.805 17,700.0 8,575.0 18,881.8 9,655.1 228.8 226.0 148.65 1.344.8 8,813 1.266.1 1,003.1 265.5 215.7 4,666 18,000.0 8,575.0 18,881.8 9,655.1 228.8 228.0 148.65 1.344.8 8,881.3 1,267.7 993.3 274.3 24.621 18,000.0 8,575.0 18,881.8 9,656.1 225.8 226.0 148.65 1.344.9 8,881.3 1,268.6 987.0 265.5 44.953 18,000.0 8,575.0 19,881.8 9,656.1 248.2 245.4 148.76 1.33.3 9,781.3 1,269.6 987.0 265.5 44.953 18,000.0 8,575.0 19,881.8 9,666.1 245.2 245.4 148.76 1.33.3 9,781.3 1,272.2 999.9 265.5 44.93 18,000.0 8,			5.727	219.10	1,035.7	1,254.8	6,881.5	-136.9	-148.30	182.5	182.1	9,641.6	16,981.9	8,575.0	16,000.0
16,300			5.658	221.87	1,033.6	1,255.4	6,981.5	-136.7	-148.32	184.9	184.5	9,642.3	17,081.9	8,575.0	16,100.0
16,000 8,575.0 17,381.9 9,644.6 191.8 192.1 -148.37 -136.4 7,281.4 1,287.4 1,027.2 230.17 5,483 1,650.0 8,575.0 17,681.9 9,645.4 194.2 194.5 -148.39 -136.3 7,381.4 1,285.0 1,025.1 232.94 5,401 1,600.0 8,575.0 17,681.9 9,646.1 196.6 196.9 -148.41 -136.1 7,481.4 1,288.7 1,023.0 235.70 5,340 1,670.0 8,575.0 17,681.8 9,646.9 199.1 199.3 -148.43 -136.0 7,581.4 1,289.3 1,020.8 238.47 5,281 1,680.0 8,575.0 17,781.8 9,646.9 199.1 199.3 -148.43 -136.0 7,581.4 1,289.9 1,018.7 241.23 5,223 1,680.0 8,575.0 17,881.8 9,647.6 201.5 201.8 -148.44 -135.6 7,781.4 1,260.6 1,016.6 24.40.0 5,166 1,700.0 8,575.0 17,881.8 9,649.1 266.3 266.6 -148.48 -135.6 7,881.4 1,261.2 1,014.5 246.76 5,111 1,710.0 8,575.0 18,081.8 9,649.9 208.8 209.0 -148.50 -135.6 7,881.4 1,261.2 1,014.5 246.76 5,111 1,710.0 8,575.0 18,081.8 9,649.9 208.8 209.0 -148.50 -135.6 7,881.4 1,261.2 1,014.5 246.76 5,111 1,710.0 8,575.0 18,081.8 9,649.9 208.8 209.0 -148.50 -135.6 7,881.4 1,261.2 1,014.5 246.76 5,111 1,710.0 8,575.0 18,081.8 9,649.9 208.8 209.0 -148.50 -135.6 7,881.4 1,261.2 1,014.5 246.76 5,111 1,710.0 8,575.0 18,081.8 9,669.6 211.2 211.4 -148.51 -135.4 6,081.4 1,262.5 1,010.2 252.2 5,004 1,720.0 8,575.0 18,381.8 9,651.4 213.6 213.9 -148.50 -135.5 7,981.4 1,263.2 1,008.1 255.0 4 4,953 1,740.0 8,575.0 18,381.8 9,652.1 216.0 216.3 -148.55 -135.2 8,281.4 1,263.2 1,008.1 255.0 4 4,963 1,750.0 8,575.0 18,381.8 9,652.1 216.0 216.3 -148.55 -135.2 8,281.4 1,263.2 1,008.1 255.0 4 4,963 1,750.0 8,575.0 18,881.8 9,653.6 220.9 211.5 -148.56 -134.5 8,881.4 1,265.1 1,001.8 263.31 4,805 1,770.0 8,575.0 18,881.8 9,655.0 228.2 218.5 148.60 -134.5 8,781.4 1,264.4 1,003.9 260.5 4,833 1,760.0 8,575.0 18,881.8 9,656.6 230.6 230.8 -148.60 -134.5 8,781.4 1,266.4 997.6 288.2 4,711 1,700.0 8,575.0 18,881.8 9,656.6 230.6 230.8 -148.60 -134.5 8,781.4 1,266.4 997.6 288.2 4,711 1,700.0 8,575.0 18,881.8 9,656.6 230.6 230.8 -148.60 -134.4 8,881.3 1,267.7 993.3 274.32 4,535 1,436.0 1,436.0 1,436.0 1,436.0 1,436.0 1,436.0 1,436.0 1,436.0 1,436.0 1,436.0 1,436.0 1,436.0 1,436.0 1,436.0 1,			5.592	224.64	1,031.4	1,256.1	7,081.4	-136.6	-148.34	187.3	187.0	9,643.1	17,181.9	8,575.0	16,200.0
16,500.0   8,575.0   17,481.9   9,646.1   194.2   194.5   -148.39   -136.3   7,381.4   1,288.0   1,025.1   232.94   5,401   16,600.0   8,575.0   17,681.8   9,646.1   196.6   196.9   -148.41   -136.1   7,481.4   1,285.7   1,023.0   235.70   5,340   16,700.0   8,575.0   17,781.8   9,646.9   199.1   199.3   -148.43   -136.0   7,581.4   1,289.3   1,020.8   238.47   5,221   16,800.0   8,575.0   17,781.8   9,647.6   201.5   201.8   -148.44   -135.9   7,681.4   1,289.9   1,018.7   241.23   5,223   16,890.0   8,575.0   17,881.8   9,648.4   203.9   204.2   -148.46   -135.8   7,781.4   1,289.9   1,018.7   241.23   5,223   1,000.0   8,575.0   17,881.8   9,648.4   203.9   204.2   -148.46   -135.8   7,781.4   1,289.9   1,018.7   241.23   5,223   1,000.0   8,575.0   17,881.8   9,649.9   208.8   209.0   -148.50   -135.5   7,881.4   1,281.2   1,014.5   246.76   5,111   17,100.0   8,575.0   18,881.8   9,649.9   208.8   209.0   -148.50   -135.5   7,981.4   1,281.9   1,012.4   249.52   5,057   17,200.0   8,575.0   18,281.8   9,650.6   211.2   211.4   -148.51   -135.4   6,081.4   1,282.5   1,010.2   252.28   5,004   17,400.0   8,575.0   18,281.8   9,651.4   216.3   -148.55   -135.2   8,281.4   1,283.8   1,006.0   257.80   4,992   17,500.0   8,575.0   18,481.8   9,652.9   218.5   218.7   -148.57   -135.0   8,381.4   1,284.4   1,003.9   260.55   4,853   1,700.0   8,575.0   18,481.8   9,653.8   220.9   221.1   -148.58   -134.9   8,481.4   1,265.7   999.7   260.0   4,757   1,700.0   8,575.0   18,881.8   9,655.1   225.8   226.0   -148.62   -134.7   8,681.4   1,266.4   99.6   268.82   4.711   1,700.0   8,575.0   18,881.8   9,655.9   228.2   228.4   -148.64   -134.5   8,781.4   1,266.4   99.6   283.3   4,485.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1   4,486.1			5.526	227.41	1,029.3	1,256.7	7,181.4	-136.5	-148.36	189.7	189.4	9,643.9	17,281.9	8,575.0	16,300.0
16,000   8,575.0   17,581.9   9,484.1   196.6   196.9   -148.41   -136.1   7,481.4   1,258.7   1,023.0   235.70   5,340   16,700.0   8,575.0   17,681.8   9,646.9   199.1   199.3   -148.43   -136.0   7,581.4   1,259.3   1,023.0   235.70   5,241   16,000.0   8,575.0   17,781.8   9,647.6   201.5   201.8   -148.44   -135.9   7,681.4   1,259.9   1,018.7   241.23   5,223   16,000.0   8,575.0   17,781.8   9,644.4   203.9   204.2   -148.46   -135.8   7,781.4   1,260.6   1,016.6   244.00   5,166   17,000.0   8,575.0   17,981.8   9,449.1   206.3   206.6   -148.48   -135.6   7,881.4   1,261.2   1,014.5   246.76   5,111   17,100.0   8,575.0   18,081.8   9,649.9   208.8   200.0   -148.50   -135.5   7,811.4   1,261.2   1,014.5   244.50   5,167   17,200.0   8,575.0   18,181.8   9,650.6   211.2   211.4   -148.51   -135.5   7,881.4   1,261.2   1,014.5   249.52   5,004   17,300.0   8,575.0   18,381.8   9,652.1   216.0   216.3   -148.55   -135.2   8,281.4   1,263.2   1,008.1   255.04   4,953   17,400.0   8,575.0   18,381.8   9,652.1   216.0   216.3   -148.65   -135.2   8,281.4   1,263.8   1,008.0   257.80   4,953   17,500.0   8,575.0   18,581.8   9,653.6   220.9   221.1   -148.67   -135.0   8,381.4   1,264.1   1,003.9   205.5   4,853   17,000.0   8,575.0   18,581.8   9,653.6   220.9   221.1   -148.67   -135.0   8,381.4   1,265.1   1,001.8   263.31   4,805   17,700.0   8,575.0   18,581.8   9,654.4   223.3   223.5   -148.60   -134.8   8,581.4   1,265.1   1,001.8   263.31   4,805   1,700.0   8,575.0   18,881.8   9,656.6   230.6   230.8   -148.62   -134.7   8,881.3   1,267.0   995.5   271.57   4,666   18,000.0   8,575.0   18,981.8   9,656.6   230.6   230.8   -148.67   -134.5   8,781.4   1,267.0   995.5   271.57   4,666   18,000.0   8,575.0   19,881.8   9,656.6   230.6   230.8   -148.67   -134.5   8,881.3   1,267.0   995.5   271.57   4,666   18,000.0   8,575.0   19,881.8   9,666.0   230.8   -148.67   -134.4   8,881.3   1,267.0   995.5   271.57   4,666   18,000.0   8,575.0   19,881.8   9,666.0   230.8   237.9   238.1   -148.71   -134			5.463	230.17	1,027.2	1,257.4	7,281.4	-136.4	-148.37	192.1	191.8	9,644.6	17,381.9	8,575.0	16,400.0
16,700.0 8,575.0 17,781.8 9,646.9 199.1 199.3 -148.43 -136.0 7,581.4 1,259.3 1,020.8 238.47 5,281  16,800.0 8,575.0 17,781.8 9,647.6 201.5 201.8 -148.44 -135.9 7,681.4 1,259.9 1,018.7 241.23 5,223  16,900.0 8,575.0 17,881.8 9,648.4 203.9 204.2 -148.46 -135.8 7,781.4 1,260.6 1,016.6 244.00 5,166  17,000.0 8,575.0 18,981.8 9,649.1 206.3 206.6 -148.48 -135.6 7,881.4 1,261.2 1,014.5 246.76 5,111  17,100.0 8,575.0 18,081.8 9,649.9 208.8 209.0 -148.50 -135.5 7,981.4 1,261.9 1,012.4 249.52 5,057  17,200.0 8,575.0 18,181.8 9,650.6 211.2 211.4 -148.51 -135.4 7,881.4 1,262.5 1,010.2 252.2 5,004  17,300.0 8,575.0 18,281.8 9,651.4 216.0 216.3 -148.55 -135.2 8,281.4 1,263.2 1,008.1 255.04 4,953  17,500.0 8,575.0 18,481.8 9,652.9 218.5 218.7 -148.55 -135.2 8,281.4 1,263.2 1,008.1 255.04 4,953  17,600.0 8,575.0 18,481.8 9,652.9 218.5 218.7 -148.56 -135.2 8,281.4 1,263.2 1,008.1 255.04 4,953  17,700.0 8,575.0 18,481.8 9,652.9 221.5 218.5 218.7 -148.65 -135.2 8,281.4 1,263.2 1,008.0 257.00 4,902  17,500.0 8,575.0 18,481.8 9,652.9 221.5 148.60 -134.8 8,581.4 1,265.1 1,008.9 260.55 4,863  17,700.0 8,575.0 18,881.8 9,654.4 223.3 223.5 -148.60 -134.8 8,581.4 1,265.7 999.7 266.06 4,757  17,800.0 8,575.0 18,881.8 9,654.4 223.3 223.5 -148.60 -134.8 8,581.4 1,265.7 999.7 266.06 4,757  17,800.0 8,575.0 18,881.8 9,655.1 225.8 226.0 -148.62 -134.7 8,681.4 1,265.7 999.7 266.06 4,757  17,800.0 8,575.0 18,881.8 9,655.9 228.2 228.4 -148.60 -134.8 8,581.4 1,265.7 999.7 266.06 4,757  18,000.0 8,575.0 19,081.8 9,665.0 230.8 -148.60 -134.8 8,581.4 1,265.7 999.7 266.06 4,757  18,000.0 8,575.0 19,081.8 9,668.0 230.2 233.3 -148.67 -134.3 8,981.3 1,268.3 991.2 277.07 4,578  18,000.0 8,575.0 19,081.8 9,668.0 230.9 239.9 238.1 -148.71 -134.1 9,181.3 1,269.0 995.1 279.82 4,535  18,000.0 8,575.0 19,081.8 9,668.0 240.3 240.5 -148.72 -133.8 9,881.3 1,270.9 982.8 288.06 4412  18,000.0 8,575.0 19,881.8 9,668.0 240.3 240.5 -148.72 -133.4 9,881.3 1,270.9 982.8 288.06 4412  18,000.0 8,575.0 19,881.8 9,666.0 250.1 250.3 -148.79 -133.4 9,881.3 1,272.8 976.5 296.2			5.401	232.94	1,025.1	1,258.0	7,381.4	-136.3	-148.39	194.5	194.2	9,645.4	17,481.9	8,575.0	16,500.0
16,800 0 8,575.0 17,781.8 9,647.6 201.5 201.8 -148.44 -135.9 7,681.4 1,259.9 1,018.7 241.23 5,223 16,900 0 8,575.0 17,881.8 9,648.4 203.9 204.2 -148.46 -135.8 7,781.4 1,260.6 1,016.6 244.00 5,166 17,000 0 8,575.0 17,881.8 9,649.9 208.8 209.0 -148.50 -135.5 7,881.4 1,261.2 1,014.5 246.76 5,111 17,100 0 8,575.0 18,081.8 9,689.9 208.8 209.0 -148.50 -135.5 7,881.4 1,261.2 1,014.5 246.76 5,111 17,100 0 8,575.0 18,181.8 9,650.6 211.2 211.4 -148.51 -135.4 8,081.4 1,262.5 1,010.2 252.28 5,004 17,200.0 8,575.0 18,281.8 9,652.1 213.9 -148.53 -135.3 8,181.4 1,262.5 1,010.2 252.28 5,004 17,400.0 8,575.0 18,381.8 9,652.9 218.5 218.7 -148.55 -135.2 8,281.4 1,263.8 1,006.0 257.80 4,963 17,500.0 8,575.0 18,581.8 9,652.9 218.5 218.7 -148.55 -135.2 8,281.4 1,263.8 1,006.0 257.80 4,962 17,500.0 8,575.0 18,581.8 9,653.6 220.9 221.1 -148.58 -134.9 8,481.4 1,265.1 1,001.8 263.31 4,805 17,700.0 8,575.0 18,681.8 9,654.4 223.3 223.5 -148.60 -134.8 8,581.4 1,264.4 1,003.9 99.7 266.06 4,757 17,800.0 8,575.0 18,681.8 9,654.4 223.3 223.5 -148.60 -134.8 8,581.4 1,264.4 1,003.9 99.7 266.06 4,757 17,900.0 8,575.0 18,881.8 9,655.9 228.2 228.4 -148.64 -134.5 8,581.4 1,265.7 999.7 266.06 4,757 17,900.0 8,575.0 18,881.8 9,655.9 228.2 228.4 -148.64 -134.5 8,581.4 1,265.7 999.7 266.06 4,757 17,900.0 8,575.0 18,881.8 9,655.9 228.2 228.4 -148.64 -134.5 8,881.3 1,267.7 993.3 274.32 4,621 18,000.0 8,575.0 18,981.8 9,655.9 228.2 228.4 -148.64 -134.5 8,881.3 1,267.7 993.3 274.32 4,621 18,000.0 8,575.0 19,081.8 9,655.9 228.2 228.4 -148.64 -134.5 8,881.3 1,267.7 993.3 274.32 4,621 18,000.0 8,575.0 19,081.8 9,656.6 230.6 230.8 -148.65 -134.4 8,881.3 1,267.7 993.3 274.32 4,621 18,000.0 8,575.0 19,081.8 9,656.6 230.6 230.8 -148.65 -134.4 8,881.3 1,267.7 993.3 274.32 4,621 18,000.0 8,575.0 19,081.8 9,656.6 230.6 230.8 -148.67 -134.3 9,881.3 1,269.5 997.0 282.57 4,493 18,000.0 8,575.0 19,081.8 9,665.1 235.7 -148.67 -134.8 133.1 9,081.3 1,270.9 994.9 285.31 4,452 18,000.0 8,575.0 19,081.8 9,660.4 242.8 243.0 -148.76 -133.7 9,881.3 1,270.9 994.9 285.31 4,452 18,0									-148.41		196.6	9,646.1			
16,900.0         8,575.0         17,881.8         9,648.4         203.9         204.2         -148.46         -135.8         7,781.4         1,260.6         1,016.6         244.00         5,166           17,000.0         8,575.0         18,081.8         9,649.1         206.3         206.6         -148.48         -135.6         7,881.4         1,261.9         1,014.5         246.76         5,111           17,000.0         8,575.0         18,081.8         9,649.9         208.8         209.0         -148.51         -135.5         7,981.4         1,261.9         1,014.5         246.76         5,111           17,000.0         8,575.0         18,181.8         9,650.6         211.2         211.4         -148.51         -135.5         7,981.4         1,261.9         1,010.2         252.28         5,004           17,000.0         8,575.0         18,381.8         9,651.4         213.6         213.9         -148.55         -135.2         8,281.4         1,263.2         1,008.1         255.04         4,953           17,500.0         8,575.0         18,848.8         9,652.9         218.5         218.7         -148.55         -134.9         8,481.4         1,265.1         1,001.8         263.31         4,805			5.281	238.47	1,020.8	1,259.3	7,581.4	-136.0	-148.43	199.3	199.1	9,646.9	17,681.8	8,575.0	16,700.0
17,000															
17,100.0 8,575.0 18,081.8 9,649.9 208.8 209.0 -148.50 -135.5 7,981.4 1,261.9 1,012.4 249.52 5.057 17,200.0 8,575.0 18,181.8 9,650.6 211.2 211.4 -148.51 -135.4 8,081.4 1,262.5 1,010.2 252.28 5.004  17,300.0 8,575.0 18,281.8 9,651.4 213.6 213.9 -148.53 -135.3 8,181.4 1,263.2 1,008.1 255.04 4,953 17,400.0 8,575.0 18,381.8 9,652.1 216.0 216.3 -148.55 -135.2 8,281.4 1,263.8 1,006.0 257.80 4,902 17,500.0 8,575.0 18,481.8 9,652.9 218.5 218.7 -148.57 -135.0 8,381.4 1,263.8 1,006.0 257.80 4,902 17,600.0 8,575.0 18,881.8 9,653.6 220.9 221.1 -148.58 -134.9 8,481.4 1,265.1 1,001.8 263.31 4,805 17,700.0 8,575.0 18,881.8 9,654.4 223.3 223.5 -148.60 -134.8 8,581.4 1,265.7 999.7 266.06 4,757 17,800.0 8,575.0 18,881.8 9,655.1 225.8 226.0 -148.62 -134.7 8,681.4 1,265.7 999.7 266.06 4,757 17,900.0 8,575.0 18,881.8 9,655.9 228.2 228.4 -148.64 -134.5 8,781.4 1,267.0 995.5 271.57 4,666 18,000.0 8,575.0 18,881.8 9,655.6 230.6 230.8 -148.65 -134.4 8,881.3 1,267.7 993.3 274.32 4,621 18,100.0 8,575.0 19,881.8 9,656.6 230.6 230.8 -148.67 -134.3 8,981.3 1,267.7 993.3 274.32 4,621 18,100.0 8,575.0 19,881.8 9,656.1 235.5 235.7 -148.69 -134.2 9,081.3 1,268.3 991.2 277.07 4,578 18,200.0 8,575.0 19,881.8 9,656.1 235.5 235.7 -148.69 -134.2 9,081.3 1,268.0 987.1 279.82 4,535 18,300.0 8,575.0 19,881.8 9,659.0 240.3 240.5 -148.72 -133.9 9,281.3 1,270.9 982.8 288.06 4,412 18,600.0 8,575.0 19,881.8 9,659.0 240.3 240.5 -148.72 -133.9 9,281.3 1,270.9 982.8 288.06 4,412 18,600.0 8,575.0 19,881.8 9,669.0 247.6 247.8 -148.74 -133.8 9,381.3 1,271.5 980.7 290.80 4,372 18,600.0 8,575.0 19,881.8 9,661.9 247.6 247.8 -148.79 -133.4 9,881.3 1,271.5 980.7 290.80 4,372 18,600.0 8,575.0 19,881.8 9,661.9 247.6 247.8 -148.79 -133.4 9,881.3 1,271.5 980.7 290.80 4,372 18,600.0 8,575.0 19,881.8 9,661.9 247.6 247.8 -148.79 -133.4 9,881.3 1,271.5 980.7 290.80 4,372 18,600.0 8,575.0 19,881.8 9,664.1 255.0 255.1 -148.84 -133.1 9,981.3 1,272.9 976.5 296.29 4,296 18,600.0 8,575.0 19,881.8 9,664.9 257.4 255.0 255.1 -148.84 -133.1 9,981.3 1,274.4 990.3 304.50 4,186 19,000.0 8,															
17,200.0         8,575.0         18,181.8         9,650.6         211.2         211.4         -148.51         -135.4         8,081.4         1,262.5         1,010.2         252.28         5,004           17,300.0         8,575.0         18,281.8         9,651.4         213.6         213.9         -148.55         -135.2         8,281.4         1,263.2         1,008.1         255.04         4,953           17,400.0         8,575.0         18,881.8         9,652.9         218.5         218.7         -148.57         -135.0         8,381.4         1,263.2         1,008.1         255.04         4,963           17,600.0         8,575.0         18,881.8         9,653.6         220.9         221.1         -148.58         -134.9         8,481.4         1,264.4         1,003.9         265.5         4,865           17,700.0         8,575.0         18,881.8         9,654.4         223.3         223.5         -148.60         -134.8         8,581.4         1,265.7         999.7         266.06         4,767           17,800.0         8,575.0         18,781.8         9,655.1         225.8         226.0         -148.62         -134.7         8,681.4         1,266.4         997.6         268.82         4,711															
17,400.0 8,575.0 18,381.8 9,652.1 216.0 216.3 -148.55 -135.2 8,281.4 1,263.8 1,006.0 257.80 4.902 17,500.0 8,575.0 18,481.8 9,652.9 218.5 218.7 -148.57 -135.0 8,381.4 1,264.4 1,003.9 260.55 4.853 17,600.0 8,575.0 18,581.8 9,653.6 220.9 221.1 -148.58 -134.9 8,481.4 1,265.1 1,001.8 263.31 4.805 17,700.0 8,575.0 18,681.8 9,654.4 223.3 223.5 -148.60 -134.8 8,881.4 1,265.7 999.7 266.06 4.757  17,800.0 8,575.0 18,881.8 9,655.1 225.8 226.0 -148.62 -134.7 8,681.4 1,265.7 999.7 266.06 4.757  17,900.0 8,575.0 18,881.8 9,655.9 228.2 228.4 -148.64 -134.5 8,781.4 1,267.0 995.5 271.57 4.666 18,000.0 8,575.0 19,081.8 9,655.4 233.0 233.3 -148.65 -134.4 8,881.3 1,267.7 993.3 274.32 4.621 18,100.0 8,575.0 19,181.8 9,658.1 235.5 235.7 -148.69 -134.2 9,081.3 1,269.0 989.1 279.82 4.535  18,300.0 8,575.0 19,281.8 9,658.9 237.9 238.1 -148.71 -134.1 9,181.3 1,269.6 987.0 282.57 4.493 18,400.0 8,575.0 19,281.8 9,659.6 240.3 240.5 -148.72 -133.9 9,281.3 1,270.9 982.8 286.06 4.412 18,600.0 8,575.0 19,481.8 9,669.6 240.3 240.5 -148.72 -133.9 9,281.3 1,270.9 982.8 288.06 4.412 18,600.0 8,575.0 19,481.8 9,669.6 240.3 240.5 -148.74 -133.8 9,381.3 1,270.9 982.8 286.06 4.412 18,600.0 8,575.0 19,481.8 9,669.6 240.3 240.5 -148.76 -133.7 9,481.3 1,270.9 982.8 288.06 4.412 18,600.0 8,575.0 19,481.8 9,669.6 240.3 240.5 -148.76 -133.7 9,481.3 1,270.9 982.8 288.06 4.412 18,600.0 8,575.0 19,881.8 9,661.1 245.2 245.4 -148.76 -133.7 9,481.3 1,270.9 982.8 288.06 4.412 18,600.0 8,575.0 19,881.8 9,661.1 245.2 245.4 -148.76 -133.7 9,481.3 1,270.9 982.8 288.06 4.412 18,600.0 8,575.0 19,881.8 9,661.1 245.2 245.4 -148.76 -133.7 9,481.3 1,270.9 982.8 288.06 4.412 18,600.0 8,575.0 19,881.8 9,664.1 255.0 255.1 -148.84 -133.1 9,881.3 1,274.1 972.4 301.77 4.222 19,000.0 8,575.0 19,881.8 9,664.1 255.0 255.1 -148.84 -133.1 9,881.3 1,274.1 972.4 301.77 4.222 19,000.0 8,575.0 19,881.8 9,664.1 255.0 255.1 -148.84 -133.1 9,881.3 1,274.1 972.4 301.77 4.222 19,000.0 8,575.0 20,881.8 9,665.6 259.8 260.0 -148.86 -133.0 10,081.3 1,274.8 970.3 304.50 4.186															
17,400.0 8,575.0 18,381.8 9,652.1 216.0 216.3 -148.55 -135.2 8,281.4 1,263.8 1,006.0 257.80 4.902 17,500.0 8,575.0 18,481.8 9,652.9 218.5 218.7 -148.57 -135.0 8,381.4 1,264.4 1,003.9 260.55 4.853 17,600.0 8,575.0 18,581.8 9,653.6 220.9 221.1 -148.58 -134.9 8,481.4 1,265.1 1,001.8 263.31 4.805 17,700.0 8,575.0 18,681.8 9,654.4 223.3 223.5 -148.60 -134.8 8,881.4 1,265.7 999.7 266.06 4.757  17,800.0 8,575.0 18,881.8 9,655.1 225.8 226.0 -148.62 -134.7 8,681.4 1,265.7 999.7 266.06 4.757  17,900.0 8,575.0 18,881.8 9,655.9 228.2 228.4 -148.64 -134.5 8,781.4 1,267.0 995.5 271.57 4.666 18,000.0 8,575.0 19,081.8 9,655.4 233.0 233.3 -148.65 -134.4 8,881.3 1,267.7 993.3 274.32 4.621 18,100.0 8,575.0 19,181.8 9,658.1 235.5 235.7 -148.69 -134.2 9,081.3 1,269.0 989.1 279.82 4.535  18,300.0 8,575.0 19,281.8 9,658.9 237.9 238.1 -148.71 -134.1 9,181.3 1,269.6 987.0 282.57 4.493 18,400.0 8,575.0 19,281.8 9,659.6 240.3 240.5 -148.72 -133.9 9,281.3 1,270.9 982.8 286.06 4.412 18,600.0 8,575.0 19,481.8 9,669.6 240.3 240.5 -148.72 -133.9 9,281.3 1,270.9 982.8 288.06 4.412 18,600.0 8,575.0 19,481.8 9,669.6 240.3 240.5 -148.74 -133.8 9,381.3 1,270.9 982.8 286.06 4.412 18,600.0 8,575.0 19,481.8 9,669.6 240.3 240.5 -148.76 -133.7 9,481.3 1,270.9 982.8 288.06 4.412 18,600.0 8,575.0 19,481.8 9,669.6 240.3 240.5 -148.76 -133.7 9,481.3 1,270.9 982.8 288.06 4.412 18,600.0 8,575.0 19,881.8 9,661.1 245.2 245.4 -148.76 -133.7 9,481.3 1,270.9 982.8 288.06 4.412 18,600.0 8,575.0 19,881.8 9,661.1 245.2 245.4 -148.76 -133.7 9,481.3 1,270.9 982.8 288.06 4.412 18,600.0 8,575.0 19,881.8 9,661.1 245.2 245.4 -148.76 -133.7 9,481.3 1,270.9 982.8 288.06 4.412 18,600.0 8,575.0 19,881.8 9,664.1 255.0 255.1 -148.84 -133.1 9,881.3 1,274.1 972.4 301.77 4.222 19,000.0 8,575.0 19,881.8 9,664.1 255.0 255.1 -148.84 -133.1 9,881.3 1,274.1 972.4 301.77 4.222 19,000.0 8,575.0 19,881.8 9,664.1 255.0 255.1 -148.84 -133.1 9,881.3 1,274.1 972.4 301.77 4.222 19,000.0 8,575.0 20,881.8 9,665.6 259.8 260.0 -148.86 -133.0 10,081.3 1,274.8 970.3 304.50 4.186			4.053	255.04	1 000 1	1 262 2	0 101 1	125.2	140 50	212.0	212.6	0.651.4	10 201 0	0.575.0	17 200 0
17,500.0         8,575.0         18,481.8         9,652.9         218.5         218.7         -148.57         -135.0         8,381.4         1,264.4         1,003.9         260.55         4,853           17,600.0         8,575.0         18,581.8         9,653.6         220.9         221.1         -148.58         -134.9         8,481.4         1,265.7         999.7         266.06         4,757           17,700.0         8,575.0         18,681.8         9,654.4         223.3         223.5         -148.60         -134.8         8,581.4         1,265.7         999.7         266.06         4,757           17,800.0         8,575.0         18,781.8         9,655.1         225.8         226.0         -148.62         -134.7         8,681.4         1,267.0         995.5         271.57         4,666           18,000.0         8,575.0         18,881.8         9,655.9         228.2         228.4         -148.65         -134.4         8,881.3         1,267.0         995.5         271.57         4,666           18,000.0         8,575.0         19,081.8         9,657.4         233.0         233.3         -148.67         -134.3         8,881.3         1,267.7         993.3         274.32         4,621           18,20															
17,600.0 8,575.0 18,581.8 9,653.6 220.9 221.1 -148.58 -134.9 8,481.4 1,265.1 1,001.8 263.31 4.805 17,700.0 8,575.0 18,681.8 9,654.4 223.3 223.5 -148.60 -134.8 8,581.4 1,265.7 999.7 266.06 4.757  17,800.0 8,575.0 18,781.8 9,655.1 225.8 226.0 -148.62 -134.7 8,681.4 1,266.4 997.6 268.82 4.711 17,900.0 8,575.0 18,881.8 9,655.9 228.2 228.4 -148.64 -134.5 8,781.4 1,267.0 995.5 271.57 4.666 18,000.0 8,575.0 18,981.8 9,656.6 230.6 230.8 -148.65 -134.4 8,881.3 1,267.7 993.3 274.32 4.621 18,100.0 8,575.0 19,081.8 9,657.4 233.0 233.3 -148.67 -134.3 8,981.3 1,268.3 991.2 277.07 4.578 18,200.0 8,575.0 19,181.8 9,658.1 235.5 235.7 -148.69 -134.2 9,081.3 1,269.0 989.1 279.82 4.535  18,300.0 8,575.0 19,281.8 9,658.9 237.9 238.1 -148.71 -134.1 9,181.3 1,269.6 987.0 282.57 4.493 18,400.0 8,575.0 19,381.8 9,659.6 240.3 240.5 -148.72 -133.9 9,281.3 1,270.2 984.9 285.31 4.452 18,600.0 8,575.0 19,481.8 9,660.1 245.2 245.4 -148.76 -133.7 9,481.3 1,270.2 984.9 285.31 4.452 18,600.0 8,575.0 19,581.8 9,661.1 245.2 245.4 -148.76 -133.7 9,481.3 1,270.2 984.9 285.31 4.452 18,600.0 8,575.0 19,681.8 9,661.1 245.2 245.4 -148.76 -133.7 9,481.3 1,270.2 984.9 285.31 4.452 18,600.0 8,575.0 19,681.8 9,661.9 247.6 247.8 -148.78 -133.6 9,581.3 1,272.2 978.6 293.55 4.334  18,800.0 8,575.0 19,881.8 9,661.1 245.2 245.4 -148.76 -133.7 9,481.3 1,271.5 980.7 290.80 4.372 18,700.0 8,575.0 19,881.8 9,661.9 247.6 247.8 -148.78 -133.6 9,581.3 1,272.2 978.6 293.55 4.334  18,800.0 8,575.0 19,881.8 9,664.1 255.0 255.1 -148.81 -133.3 9,781.3 1,273.5 974.4 299.03 4.259 19,000.0 8,575.0 19,981.8 9,664.1 255.0 255.1 -148.84 -133.1 9,981.3 1,274.1 972.4 301.77 4.222 19,100.0 8,575.0 20,181.8 9,664.9 257.4 257.6 -148.84 -133.1 9,981.3 1,274.8 970.3 304.50 4.186 19,200.0 8,575.0 20,181.8 9,665.6 259.8 260.0 -148.86 -133.0 10,081.3 1,275.4 968.2 307.24 4.151															
17,700.0       8,575.0       18,681.8       9,654.4       223.3       223.5       -148.60       -134.8       8,581.4       1,265.7       999.7       266.06       4.757         17,800.0       8,575.0       18,781.8       9,655.1       225.8       226.0       -148.62       -134.7       8,681.4       1,266.4       997.6       268.82       4.711         17,900.0       8,575.0       18,881.8       9,655.9       228.2       228.4       -148.64       -134.5       8,781.4       1,267.0       995.5       271.57       4.666         18,000.0       8,575.0       18,981.8       9,656.6       230.6       230.8       -148.65       -134.4       8,881.3       1,267.7       993.3       274.32       4.621         18,100.0       8,575.0       19,081.8       9,657.4       233.0       233.3       -148.67       -134.3       8,981.3       1,268.3       991.2       277.07       4.578         18,200.0       8,575.0       19,181.8       9,658.9       237.9       238.1       -148.71       -134.1       9,181.3       1,269.0       989.1       279.82       4.535         18,500.0       8,575.0       19,281.8       9,665.9       237.9       238.1       -148.71															
17,900.0       8,575.0       18,881.8       9,655.9       228.2       228.4       -148.64       -134.5       8,781.4       1,267.0       995.5       271.57       4.666         18,000.0       8,575.0       18,981.8       9,656.6       230.6       230.8       -148.65       -134.4       8,881.3       1,267.7       993.3       274.32       4.621         18,100.0       8,575.0       19,081.8       9,657.4       233.0       233.3       -148.67       -134.2       9,081.3       1,268.3       991.2       277.07       4.578         18,200.0       8,575.0       19,181.8       9,658.1       235.5       235.7       -148.69       -134.2       9,081.3       1,269.0       989.1       279.82       4.535         18,300.0       8,575.0       19,281.8       9,658.9       237.9       238.1       -148.71       -134.1       9,181.3       1,269.6       987.0       282.57       4.493         18,400.0       8,575.0       19,381.8       9,659.6       240.3       240.5       -148.72       -133.9       9,281.3       1,270.2       984.9       285.31       4.452         18,500.0       8,575.0       19,481.8       9,660.4       242.8       243.0       -148.74															
17,900.0       8,575.0       18,881.8       9,655.9       228.2       228.4       -148.64       -134.5       8,781.4       1,267.0       995.5       271.57       4.666         18,000.0       8,575.0       18,981.8       9,656.6       230.6       230.8       -148.65       -134.4       8,881.3       1,267.7       993.3       274.32       4.621         18,100.0       8,575.0       19,081.8       9,657.4       233.0       233.3       -148.67       -134.3       8,981.3       1,268.3       991.2       277.07       4.578         18,200.0       8,575.0       19,181.8       9,658.1       235.5       235.7       -148.69       -134.2       9,081.3       1,269.0       989.1       279.82       4.535         18,300.0       8,575.0       19,281.8       9,658.9       237.9       238.1       -148.71       -134.1       9,181.3       1,269.6       987.0       282.57       4.493         18,400.0       8,575.0       19,381.8       9,659.6       240.3       240.5       -148.72       -133.9       9,281.3       1,270.2       984.9       285.31       4.452         18,500.0       8,575.0       19,481.8       9,660.4       242.8       243.0       -148.76			4.711	268.82	997.6	1,266.4	8,681.4	-134.7	-148.62	226.0	225.8	9,655.1	18,781.8	8,575.0	17,800.0
18,000.0       8,575.0       18,981.8       9,656.6       230.6       230.8       -148.65       -134.4       8,881.3       1,267.7       993.3       274.32       4.621         18,100.0       8,575.0       19,081.8       9,657.4       233.0       233.3       -148.67       -134.3       8,981.3       1,268.3       991.2       277.07       4.578         18,200.0       8,575.0       19,181.8       9,658.1       235.5       235.7       -148.69       -134.2       9,081.3       1,269.0       989.1       279.82       4.535         18,300.0       8,575.0       19,281.8       9,658.9       237.9       238.1       -148.71       -134.1       9,181.3       1,269.6       987.0       282.57       4.493         18,400.0       8,575.0       19,381.8       9,659.6       240.3       240.5       -148.72       -133.9       9,281.3       1,270.2       984.9       285.31       4.452         18,500.0       8,575.0       19,481.8       9,660.4       242.8       243.0       -148.74       -133.8       9,381.3       1,270.9       982.8       288.06       4.412         18,600.0       8,575.0       19,581.8       9,661.1       245.2       245.4       -148.76															
18,100.0       8,575.0       19,081.8       9,657.4       233.0       233.3       -148.67       -134.3       8,981.3       1,268.3       991.2       277.07       4.578         18,200.0       8,575.0       19,181.8       9,658.1       235.5       235.7       -148.69       -134.2       9,081.3       1,269.0       989.1       279.82       4.535         18,300.0       8,575.0       19,281.8       9,658.9       237.9       238.1       -148.71       -134.1       9,181.3       1,269.6       987.0       282.57       4.493         18,400.0       8,575.0       19,381.8       9,659.6       240.3       240.5       -148.72       -133.9       9,281.3       1,270.2       984.9       285.31       4.452         18,500.0       8,575.0       19,481.8       9,660.4       242.8       243.0       -148.74       -133.8       9,381.3       1,270.9       982.8       288.06       4.412         18,600.0       8,575.0       19,581.8       9,661.1       245.2       245.4       -148.76       -133.7       9,481.3       1,271.5       980.7       290.80       4,372         18,700.0       8,575.0       19,681.8       9,661.9       247.6       247.8       -148.79															
18,300.0       8,575.0       19,281.8       9,658.9       237.9       238.1       -148.71       -134.1       9,181.3       1,269.6       987.0       282.57       4.493         18,400.0       8,575.0       19,381.8       9,659.6       240.3       240.5       -148.72       -133.9       9,281.3       1,270.2       984.9       285.31       4.452         18,500.0       8,575.0       19,481.8       9,660.4       242.8       243.0       -148.74       -133.8       9,381.3       1,270.9       982.8       288.06       4.412         18,600.0       8,575.0       19,581.8       9,661.1       245.2       245.4       -148.76       -133.7       9,481.3       1,271.5       980.7       290.80       4.372         18,700.0       8,575.0       19,681.8       9,661.9       247.6       247.8       -148.78       -133.6       9,581.3       1,272.2       978.6       293.55       4.334         18,800.0       8,575.0       19,781.8       9,662.6       250.1       250.3       -148.79       -133.4       9,681.3       1,272.8       976.5       296.29       4.296         18,900.0       8,575.0       19,881.8       9,663.4       252.5       252.7       -148.81															
18,400.0       8,575.0       19,381.8       9,659.6       240.3       240.5       -148.72       -133.9       9,281.3       1,270.2       984.9       285.31       4.452         18,500.0       8,575.0       19,481.8       9,660.4       242.8       243.0       -148.74       -133.8       9,381.3       1,270.9       982.8       288.06       4.412         18,600.0       8,575.0       19,581.8       9,661.1       245.2       245.4       -148.76       -133.7       9,481.3       1,271.5       980.7       290.80       4.372         18,700.0       8,575.0       19,681.8       9,661.9       247.6       247.8       -148.78       -133.6       9,581.3       1,272.2       978.6       293.55       4.334         18,800.0       8,575.0       19,781.8       9,662.6       250.1       250.3       -148.79       -133.4       9,681.3       1,272.8       976.5       296.29       4.296         18,900.0       8,575.0       19,881.8       9,663.4       252.5       252.7       -148.81       -133.3       9,781.3       1,273.5       974.4       299.03       4.259         19,000.0       8,575.0       19,981.8       9,664.1       255.0       255.1       -148.83			4.535	279.82	989.1	1,269.0	9,081.3	-134.2	-148.69	235.7	235.5	9,658.1	19,181.8	8,575.0	18,200.0
18,500.0       8,575.0       19,481.8       9,660.4       242.8       243.0       -148.74       -133.8       9,381.3       1,270.9       982.8       288.06       4.412         18,600.0       8,575.0       19,581.8       9,661.1       245.2       245.4       -148.76       -133.7       9,481.3       1,271.5       980.7       290.80       4.372         18,700.0       8,575.0       19,681.8       9,661.9       247.6       247.8       -148.78       -133.6       9,581.3       1,272.2       978.6       293.55       4.334         18,800.0       8,575.0       19,781.8       9,662.6       250.1       250.3       -148.79       -133.4       9,681.3       1,272.8       976.5       296.29       4.296         18,900.0       8,575.0       19,881.8       9,663.4       252.5       252.7       -148.81       -133.3       9,781.3       1,273.5       974.4       299.03       4.259         19,000.0       8,575.0       19,981.8       9,664.1       255.0       255.1       -148.83       -133.2       9,881.3       1,274.1       972.4       301.77       4.222         19,100.0       8,575.0       20,081.8       9,664.9       257.4       257.6       -148.84			4.493	282.57	987.0	1,269.6	9,181.3	-134.1	-148.71	238.1	237.9	9,658.9	19,281.8	8,575.0	18,300.0
18,600.0       8,575.0       19,581.8       9,661.1       245.2       245.4       -148.76       -133.7       9,481.3       1,271.5       980.7       290.80       4.372         18,700.0       8,575.0       19,681.8       9,661.9       247.6       247.8       -148.78       -133.6       9,581.3       1,272.2       978.6       293.55       4.334         18,800.0       8,575.0       19,781.8       9,662.6       250.1       250.3       -148.79       -133.4       9,681.3       1,272.8       976.5       296.29       4.296         18,900.0       8,575.0       19,881.8       9,663.4       252.5       252.7       -148.81       -133.3       9,781.3       1,273.5       974.4       299.03       4.259         19,000.0       8,575.0       19,981.8       9,664.1       255.0       255.1       -148.83       -133.2       9,881.3       1,274.1       972.4       301.77       4.222         19,100.0       8,575.0       20,081.8       9,664.9       257.4       257.6       -148.84       -133.1       9,981.3       1,274.8       970.3       304.50       4.186         19,200.0       8,575.0       20,181.8       9,665.6       259.8       260.0       -148.86			4.452	285.31	984.9	1,270.2	9,281.3	-133.9	-148.72	240.5	240.3	9,659.6	19,381.8	8,575.0	18,400.0
18,700.0       8,575.0       19,681.8       9,661.9       247.6       247.8       -148.78       -133.6       9,581.3       1,272.2       978.6       293.55       4.334         18,800.0       8,575.0       19,781.8       9,662.6       250.1       250.3       -148.79       -133.4       9,681.3       1,272.8       976.5       296.29       4.296         18,900.0       8,575.0       19,881.8       9,663.4       252.5       252.7       -148.81       -133.3       9,781.3       1,273.5       974.4       299.03       4.259         19,000.0       8,575.0       19,981.8       9,664.1       255.0       255.1       -148.83       -133.2       9,881.3       1,274.1       972.4       301.77       4.222         19,100.0       8,575.0       20,081.8       9,664.9       257.4       257.6       -148.84       -133.1       9,981.3       1,274.8       970.3       304.50       4.186         19,200.0       8,575.0       20,181.8       9,665.6       259.8       260.0       -148.86       -133.0       10,081.3       1,275.4       968.2       307.24       4.151			4.412	288.06	982.8	1,270.9	9,381.3	-133.8	-148.74	243.0	242.8	9,660.4	19,481.8	8,575.0	18,500.0
18,800.0       8,575.0       19,781.8       9,662.6       250.1       250.3       -148.79       -133.4       9,681.3       1,272.8       976.5       296.29       4,296         18,900.0       8,575.0       19,881.8       9,663.4       252.5       252.7       -148.81       -133.3       9,781.3       1,273.5       974.4       299.03       4,259         19,000.0       8,575.0       19,981.8       9,664.1       255.0       255.1       -148.83       -133.2       9,881.3       1,274.1       972.4       301.77       4,222         19,100.0       8,575.0       20,081.8       9,664.9       257.4       257.6       -148.84       -133.1       9,981.3       1,274.8       970.3       304.50       4.186         19,200.0       8,575.0       20,181.8       9,665.6       259.8       260.0       -148.86       -133.0       10,081.3       1,275.4       968.2       307.24       4.151															
18,900.0       8,575.0       19,881.8       9,663.4       252.5       252.7       -148.81       -133.3       9,781.3       1,273.5       974.4       299.03       4.259         19,000.0       8,575.0       19,981.8       9,664.1       255.0       255.1       -148.83       -133.2       9,881.3       1,274.1       972.4       301.77       4.222         19,100.0       8,575.0       20,081.8       9,664.9       257.4       257.6       -148.84       -133.1       9,981.3       1,274.8       970.3       304.50       4.186         19,200.0       8,575.0       20,181.8       9,665.6       259.8       260.0       -148.86       -133.0       10,081.3       1,275.4       968.2       307.24       4.151															
19,000.0       8,575.0       19,981.8       9,664.1       255.0       255.1       -148.83       -133.2       9,881.3       1,274.1       972.4       301.77       4.222         19,100.0       8,575.0       20,081.8       9,664.9       257.4       257.6       -148.84       -133.1       9,981.3       1,274.8       970.3       304.50       4.186         19,200.0       8,575.0       20,181.8       9,665.6       259.8       260.0       -148.86       -133.0       10,081.3       1,275.4       968.2       307.24       4.151															
19,100.0     8,575.0     20,081.8     9,664.9     257.4     257.6     -148.84     -133.1     9,981.3     1,274.8     970.3     304.50     4.186       19,200.0     8,575.0     20,181.8     9,665.6     259.8     260.0     -148.86     -133.0     10,081.3     1,275.4     968.2     307.24     4.151															
19,200.0 8,575.0 20,181.8 9,665.6 259.8 260.0 -148.86 -133.0 10,081.3 1,275.4 968.2 307.24 4.151															
19,300.0 8,575.0 20,281.8 9,666.4 262.3 262.4 -148.88 -132.8 10,181.3 1,276.1 966.1 309.97 4.117			4.117	309.97	966.1	1,276.1	10,181.3	-132.8	-148.88	262.4	262.3	9,666.4	20,281.8	8,575.0	19,300.0

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

Well Simon Camamile Fed Com #126H TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Offset De	•		Camamile	Fed Com -	Simon C	amamile Fe	d Com #136H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error: Offset Well Error:	0.0 us
Refer		Offse	et	Semi Major	Axis				Dista	ınce			Onset Well Error.	0.0 40
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,400.0	8,575.0	20,381.8	9,667.1	264.7	264.8	-148.90	-132.7	10,281.3	1,276.7	964.0	312.71	4.083		
19,500.0	8,575.0	20,481.8	9,667.9	267.1	267.3	-148.91	-132.6	10,381.3	1,277.3	961.9	315.44	4.049		
19,600.0	8,575.0	20,581.8	9,668.6	269.6	269.7	-148.93	-132.5	10,481.3	1,278.0	959.8	318.17	4.017		
19,700.0	8,575.0	20,681.8	9,669.4	272.0	272.2	-148.95	-132.3	10,581.2	1,278.6	957.7	320.90	3.985		
19,800.0	8,575.0	20,781.8	9,670.1	274.5	274.6	-148.96	-132.2	10,681.2	1,279.3	955.7	323.62	3.953		
19,900.0	8,575.0	20,881.8	9,670.9	276.9	277.0	-148.98	-132.1	10,781.2	1,279.9	953.6	326.35	3.922		
20,000.0	8,575.0	20,981.8	9,671.6	279.3	279.5	-149.00	-132.0	10,881.2	1,280.6	951.5	329.07	3.891		
20,100.0	8,575.0	21,081.8	9,672.4	281.8	281.9	-149.01	-131.9	10,981.2	1,281.2	949.4	331.80	3.861		
20,200.0	8,575.0	21,181.7	9,673.1	284.2	284.3	-149.03	-131.7	11,081.2	1,281.9	947.4	334.52	3.832		
20,300.0	8,575.0	21,281.7	9,673.9	286.6	286.8	-149.05	-131.6	11,181.2	1,282.5	945.3	337.24	3.803		
20,400.0	8,575.0	21,381.7	9,674.6	289.1	289.2	-149.07	-131.5	11,281.2	1,283.2	943.2	339.96	3.774		
20,500.0	8,575.0	21,481.7	9,675.4	291.5	291.6	-149.08	-131.4	11,381.2	1,283.8	941.1	342.68	3.746		
20,600.0	8,575.0	21,581.7	9,676.1	294.0	294.1	-149.10	-131.2	11,481.2	1,284.5	939.1	345.39	3.719		
20,700.0	8,575.0	21,681.7	9,676.9	296.4	296.5	-149.12	-131.1	11,581.2	1,285.1	937.0	348.11	3.692		
20,800.0	8,575.0	21,781.7	9,677.6	298.9	299.0	-149.13	-131.0	11,681.2	1,285.8	934.9	350.82	3.665		
20,900.0	8,575.0	21,881.7	9,678.4	301.3	301.4	-149.15	-130.9	11,781.2	1,286.4	932.9	353.53	3.639		
21,000.0	8,575.0	21,981.7	9,679.1	303.7	303.8	-149.17	-130.8	11,881.2	1,287.1	930.8	356.24	3.613		
21,100.0	8,575.0	22,081.7	9,679.9	306.2	306.3	-149.18	-130.6	11,981.2	1,287.7	928.8	358.95	3.587		
21,200.0	8,575.0	22,171.7	9,681.1	308.6	308.5	-149.20	-130.3	12,071.1	1,288.9	927.6	361.39	3.567		
21,213.6	8,575.0	22,185.2	9,681.3	309.0	308.8	-149.20	-130.2	12,084.7	1,289.1	927.4	361.75	3.564 SF		

Company: Matador Production Company

Project: Ranger/Arrowhead Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

Well Simon Camamile Fed Com #126H TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Note   Property   Pr	Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #203H	- Wellbore	#1 - Actua	I			Offset Site Error:	0.0 usft
Name					Carri Mari	u Avia				Б				Offset Well Error:	0.0 usft
Page					-		Highside	Offset Wellbor	e Centre			Minimum	Separation	Warning	
100	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	•	warning	
2000   2010   1521   1521   1521   0.5   0.2   -15.05   2279.03   -91.00   2.980.0   2.980.3   1.31   1.803.951	0.0	0.0	0.0	0.0	0.0	0.0	-15.03			2,360.0					
March   Marc											2,359.5	0.22	N/A CO	>	
March   Marc	200.0	200.0	152.1	152.1	0.5	0.2	-15.03	2,279.3	-612.0	2,360.0	2,359.3	0.72	3,278.013 ES	;	
5000   5000   4180   4180   4180   15	300.0	300.0	241.2	241.2	0.8	0.5	-15.02	2,279.9	-611.8	2,360.6	2,359.3	1.31	1,803.951		
Mathematics	400.0	400.0	326.7	326.7	1.2	0.8	-15.01	2,281.0	-611.4	2,361.8	2,359.8	1.97	1,195.972		
7000         700         7072         8972         8970         23         1.7         -1.484         2.288.7         -0.05         2.386.5         2.294.5         4.02         888.60           900.0         900.0         910.0         113.7         913.3         3.0         2.5         -1.466         2.295.9         -803.0         2.273.6         2.288.1         552.4         429.21           1,100.0         1,100.0         910.0         915.3         196.8         3.7         3.2         14.456         2.295.9         -690.0         2.275.8         2.271.9         6.28         345.88           1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0         1,100.0	500.0	500.0	415.9	415.9	1.6	1.1	-14.97	2,282.9	-610.4	2,363.5	2,360.9	2.65	890.614		
BOOL   FOOL			499.7				-14.92		-608.8	2,365.8	2,362.5				
1,000   900   9137   8133   30   2.5   -14.66   2.299   -800   2.375.8   2.386.1   5.52   429.921															
1,000															
1,100.0   1,100.0   996.3   996.9   3.7   3.2   124.55   2,209.9   599.0   2,378.8   2,371.9   6.88   345.898   1,200.0   1,199.7   1,685.0   1,062.5   4.0   3.4   124.48   2,302.1   5868.8   2,386.0   2,378.5   7.45   320.391   1,372.0   1,370.4   1,201.0   1,203.3   4.8   3.9   124.35   2,305.3   601.6   2,406.8   2,389.9   8.05   207.999   1,377.0   1,370.4   1,201.0   1,203.3   4.8   3.9   124.35   2,305.5   601.0   2,406.8   2,389.3   8.64   281.868   1,203.7   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,200.0   1,2															
1,200.0   1,199.7   1,083.0   1,082.5   4.0   3.4   124.48   2,302.1   5.99.8   2,286.0   2,378.5   7.45   303.39   1,200.1   1,200.1   1,201.1   1,130.0   1,201.2   1,201.0   1,370.4   1,204.0   1,203.3   4.6   3.9   124.35   2,306.5   601.6   2,406.8   2,386.9   8.65   207.69   1,200.0   1,380.0   1,227.7   1,202.0   4.7   4.0   1,203.3   4.6   3.9   124.35   2,308.9   605.0   2,410.9   2,402.2   8.74   275.941   1,200.0   1,496.7   1,343.0   1,342.1   5.1   4.4   124.72   2,314.6   606.7   2,425.2   2,416.8   9.40   256.677   1,200.0   1,586.4   1,457.6   1,456.5   5.6   4.8   125.03   2,319.1   611.8   2,439.0   2,428.8   0,102.2   237.691   1,200.0   1,596.4   1,457.6   1,569.3   5.5   1,255.3   2,322.8   613.7   2,425.4   4,141.1   1,00   22.37.691   1,200.0   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1   1,200.1	1,000.0	1,000.0	920.7	920.3	3.4	2.9	-14.61	2,298.2		2,375.4	2,369.1	6.26	379.221		
1,300															
1,770   1,3770   1,3704   1,204.0   1,203.3   4.6   3.9   124.35   2,300.8   405.0   2,410.9   2,402.2   8.74   275.641															
1.400															
1,500.0 1,486.7 1,343.0 1,342.1 5.1 4.4 124.72 2,314.6 -608.7 2,425.2 2,415.8 19.49 255.677 1,500.0 1,595.4 1,457.6 1,466.5 5.5 4.8 125.03 2,319.1 -611.8 2,439.0 2,428.8 10.26 237.691 1,700.0 1,694.1 1,550.4 1,559.3 5.9 5.2 125.33 2,322.8 -613.7 2,452.4 14.1 11.00 222.882 1,500.0 1,792.7 1,549.4 1,648.3 6.3 6.5 5.5 125.59 2,326.2 -615.4 2,469.0 2,464.3 11.70 210.779 1,500.0 1,891.4 1,746.3 1,744.0 6.7 5.9 125.84 2,330.1 -611.0 2,469.0 2,467.6 12.42 199.506 1,500.0 1,891.4 1,746.3 1,744.0 9.7 7.1 6.8 125.59 2,330.1 -611.0 2,469.0 2,467.6 12.42 199.506 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1,500.0 1															
1,000	1,400.0	1,398.0	1,232.7	1,232.0	4.7	4.0	124.43	2,309.8	-605.0	2,410.9	2,402.2	8.74	275.941		
1,700															
1,800		1,595.4				4.8									
1,900   1,891.4															
2,000 1,990,1 2,012,4 2,010,9 7.1 6.8 128,56 2,332,9 462,9 2,491,8 2,478,0 13.75 181,271 2,100 2,088,8 2,142,5 2,140,9 7.5 7.2 126,90 2,328,3 42,99 2,498,1 14.56 171,534 2,200 0, 2,187,5 2,238,8 2,232,2 7.9 7.5 127,13 2,325,0 462,51 2,594,6 2,483,3 15,26 164,000 2,300 0, 2,286,2 2,327,4 2,325,7 8.3 7.8 127,36 2,321,4 462,6 3 2,510,9 2,498,0 15,97 157,181 2,400 0, 2,384,9 2,382,0 2,380,3 8.8 8.0 127,53 2,319,7 426,7 2,518,4 2,501,9 16,56 151,780 2,500 0, 2,483,5 2,460,8 2,459,2 9.2 8.3 127,73 2,319,9 426,8 2,527,3 2,510,1 17,23 146,715 2,500 0, 2,682,2 2,451,9 2,540,3 9.6 8.5 127,97 2,319,0 426,3 2,597,2 2,519,3 17,90 141,717 2,700 0, 2,680,9 2,629,2 2,627,5 10,1 8.8 128,26 2,319,5 462,9 2,547,6 2,829,0 18,60 136,932 2,800 0, 2,779 6, 2,712,4 2,710,7 10,5 9,1 128,45 2,320,6 462,0 2,556,6 2,593,3 19,29 132,618 2,900 0, 2,878,3 2,794,6 2,792,8 10,9 9,4 128,83 2,322,3 451,0 2,570,4 2,550,4 19,99 128,682 3,000 0, 2,770 0, 2,892,7 2,890,9 11,3 9,8 129,16 2,324,6 461,6 2,585,5 2,561,8 2,072,1 24,615 3,000 3,757,7 2,957,7 2,993,8 11,8 10,1 129,49 2,326,7 416,9 2,594,6 2,584,4 22,26 117,099 3,300 3,371,3 3,399,2 3,077,3 122,1 10,5 129,81 2,328,6 461,9 2,594,6 2,584,4 22,6 117,099 3,300 3,371,3 3,301,7 3,299,7 13,1 11,2 130,41 2,331,4 451,0 2,580,1 2,686,3 2,571 100,234,4 136,9 3,304,1 136,9 3,305,8 14,4 12,3 131,29 2,338,4 461,0 2,685,5 2,581,8 2,771 100,234 3,000 3,371,7 3,301,7 3,299,7 13,1 11,2 130,41 2,331,4 461,0 2,685,6 2,695,5 2,561,8 2,685,5 2,51 10,466,2 3,500,0 3,673,3 3,66,5 3,662,3 3,600,3 14,4 12,3 131,29 2,338,4 461,0 2,685,6 2,685,5 2,51 100,234 4,000 3,685,8 4,087,0 4,084,9 17,0 14,0 132,57 2,345,4 461,0 2,286,6 4,287,5 2,286,8 4,280,4 4,280,4 4,380,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4 4,480,4															
2,000 2,088,0 2,142,5 2,140,9 7,5 7,2 126,00 2,328,3 4,239 2,488,1 2,483,5 14,56 171,534 2,200 2,187,5 2,233,8 2,232,2 7,9 7,5 127,13 2,325,0 4,251 2,504,6 2,489,3 15,26 164,000 2,384,9 2,392,0 2,390,3 8,8 8,0 127,53 2,314, 4,263,3 2,510,9 2,485,0 15,57 157,181 2,400,0 2,384,9 2,392,0 2,390,3 8,8 8,0 127,53 2,319,7 426,7 2,518,4 2,501,9 16,59 151,780 2,500,0 2,485,5 2,460,8 2,489,2 9,2 8,3 127,73 2,318,9 426,6 2,573,3 2,510,1 17,23 146,715 2,600,0 2,582,2 2,541,9 2,540,3 9,6 8,5 127,97 2,319,0 426,3 2,557,2 2,519,3 17,90 141,717 2,700,0 2,880,9 2,622 2,541,9 2,540,3 9,6 8,5 127,97 2,319,0 426,3 2,557,2 2,519,3 17,90 141,717 2,700,0 2,880,9 2,622 2,541,9 2,540,3 9,6 8,5 127,97 2,319,0 426,3 2,557,2 2,519,3 17,90 141,717 2,700,0 2,880,9 2,622 2,641,9 2,540,3 9,6 8,5 127,97 2,319,0 426,3 2,557,2 2,519,3 17,90 141,717 2,700,0 2,880,9 2,622 2,641,9 2,700,7 10,5 9,1 128,54 2,320,8 422,9 2,547,8 2,529,0 18,60 136,332 2,800,0 2,776,6 2,7716,4 2,710,7 10,5 9,1 128,54 2,320,8 422,9 42,4 2,710,7 19,5 9,4 128,83 2,322,3 421,0 2,570,4 2,550,4 19,98 122,818 2,900,0 2,878,3 2,794,6 2,792,8 10,9 9,4 128,83 2,322,3 421,0 2,570,4 2,550,4 19,98 122,818 2,900,0 3,757,7 2,995,7 2,993,8 11,8 10,1 129,49 2,326,7 41,96,9 2,594,6 2,573,1 21,49 120,734 3,000,3 3,713,3 3,003,3 3,203,3 12,2 10,5 129,81 2,336,6 416,5 2,594,6 2,573,1 21,49 120,734 3,000,3 3,713,3 3,003,9 12,6 10,9 130,12 2,330,1 4,8 14,5 12,5 14,5 14,5 14,5 14,5 14,5 14,5 14,5 14	1,900.0	1,891.4	1,745.3	1,744.0	6.7	5.9	125.84	2,330.1	-618.0	2,480.0	2,467.6	12.42	199.606		
2,000   2,187.5   2,233.8   2,232.2   7,9   7,5   127.13   2,325.0   -0,251.1   2,504.6   2,489.3   15,26   164,090   2,300.0   2,286.2   2,327.4   2,325.7   8.3   7.8   127.53   2,319.7   426.7   2,518.4   2,501.9   16,59   151,780   2,500.0   2,883.5   2,460.8   2,459.2   9.2   8.3   127.73   2,318.9   -626.8   2,527.3   2,510.1   17,23   146,715   2,500.0   2,582.2   2,541.9   2,540.3   9.6   8.5   127.97   2,319.0   -626.3   2,537.2   2,519.3   17.90   141,177   1,700.0   2,580.0   2,620.2   2,627.5   10.1   8.8   128.66   2,319.5   4,249.3   4,245.2   2,547.6   2,529.0   18.60   136,932   2,800.0   2,779.6   2,712.4   2,710.7   10.5   91.1   128.64   2,320.6   -623.0   2,558.6   2,539.3   19.29   132.618   2,900.0   2,878.3   2,794.6   2,792.8   10.9   94.1   128.64   2,320.6   -623.0   2,558.6   2,539.3   19.29   132.618   2,800.0   2,873.3   2,794.8   2,909.8   11.3   8.8   129.16   2,324.6   -616.9   2,594.6   2,529.4   19.9   19.98   128.662   3,000.0   2,873.0   3,000.3   3,073.7   2,995.7   2,993.8   11.8   10.1   129.49   2,326.7   -616.9   2,594.6   2,573.1   21.49   120.734   3,000.0   3,173.7   3,301.7   3,299.7   13.1   11.2   130.41   2,331.4   -614.0   2,630.1   2,606.8   2,584.2   2,266.1   117.099   3,300.0   3,273.0   3,205.8   3,203.9   12.6   10.9   130.12   2,330.1   -615.1   2,616.4   2,696.4   2,375.1   10.4862   3,700.0   3,697.3   12.5   11.5   11.0   11.0   2,334.3   -614.0   2,630.1   2,606.8   2,584.2   2,26   117.099   3,500.0   3,596.8   3,600.8   14.4   12.3   131.0   2,334.3   -614.0   2,630.1   2,606.8   2,635.8   2,635.9   2,759   2,942.8   10.9   130.12   2,330.1   -615.1   2,616.4   2,696.4   2,575.1   10.4862   3,500.0   3,667.8   3,600.8   3,400.0   3,760.0   3,667.8   3,600.8   3,400.0   3,760.0   3,667.8   3,600.8   3,400.0   3,667.8   3,600.8   3,400.0   3,667.8   3,600.8   3,400.0   3,667.8   3,600.8   3,400.0   3,667.8   3,600.8   3,400.0   3,667.8   3,600.8   3,860.0   3,660.1   15.3   13.0   131.80   2,334.4   -610.0   2,666.6   2,677.6   2,666.8   2,659.9   2,2	2,000.0	1,990.1	2,012.4	2,010.9	7.1	6.8	126.56	2,332.9	-622.9	2,491.8	2,478.0	13.75	181.271		
2,300.0         2,286.2         2,327.4         2,325.7         8.3         7.8         127.36         2,321.4         -626.7         2,518.4         2,501.9         16.597         157.181           2,400.0         2,384.9         2,392.0         2,390.3         8.8         8.0         127.53         2,319.7         -626.7         2,518.4         2,501.9         16.59         151.780           2,500.0         2,483.5         2,480.8         2,451.9         2,540.3         9.6         8.5         127.97         2,319.0         -626.3         2,557.2         2,519.3         117.90         141.717           2,000.0         2,680.9         2,629.2         2,627.5         10.1         8.8         128.6         2,319.5         -624.9         2,547.6         2,599.0         18.60         139.93           2,900.0         2,878.3         2,794.6         2,722.8         10.9         9.4         128.83         2,322.3         -621.0         2,570.4         2,550.4         19.98         128.662           3,000.0         2,977.0         2,882.7         2,890.9         11.3         9.8         129.16         2,324.6         -618.6         2,582.5         2,561.8         20.72         124.815           3,1		2,088.8					126.90			2,498.1		14.56			
2,400.0 2,384.9 2,392.0 2,390.3 8.8 8.0 127.53 2,319.7 -626.7 2,518.4 2,501.9 16.59 151.780  2,500.0 2,483.5 2,460.8 2,459.2 9.2 8.3 127.73 2,318.9 -626.8 2,527.3 2,510.1 17.23 146.715  2,500.0 2,582.2 2,541.9 2,540.3 9.6 8.5 127.97 2,319.0 -626.3 2,537.2 2,519.3 17.90 141.717  2,700.0 2,680.9 2,629.2 2,627.5 10.1 8.8 128.6 2,319.5 -624.9 2,547.6 2,529.0 18.60 136.932  2,800.0 2,776.6 2,712.4 2,710.7 10.5 9.1 128.64 2,320.6 -623.0 2,558.6 2,539.3 19.29 132.618  2,900.0 2,878.3 2,794.6 2,792.8 10.9 9.4 128.83 2,322.3 -621.0 2,570.4 2,550.4 19.98 128.662  3,000.0 2,977.0 2,892.7 2,890.9 11.3 9.8 129.16 2,324.6 -618.6 2,582.5 2,581.8 20.72 124.615  3,100.0 3,075.7 2,995.7 2,993.8 11.8 10.1 129.49 2,326.7 -616.9 2,594.6 2,573.1 24.99 120.734  3,200.0 3,174.3 3,099.2 3,097.3 12.2 10.5 129.81 2,328.6 -615.9 2,566.6 2,584.4 22.26 117.099  3,300.0 3,273.0 3,205.8 3,203.9 12.6 10.9 130.12 2,333.0 -612.8 2,560.6 2,584.4 22.26 117.099  3,400.0 3,371.7 3,301.7 3,299.7 13.1 11.2 130.41 2,331.4 -614.0 2,630.1 2,606.3 23.76 110.596  3,500.0 3,470.4 3,400.6 3,398.6 13.5 11.6 130.71 2,333.0 -612.8 2,642.1 2,617.5 24.53 107.697  3,600.0 3,667.8 3,602.3 3,600.8 14.4 12.3 131.29 2,335.6 -610.9 2,666.6 2,599.5 260.5 102.314  3,800.0 3,667.8 3,602.3 3,800.0 14.8 12.6 131.54 2,333.0 -612.8 2,642.1 2,617.5 24.53 107.697  3,600.0 3,667.8 3,602.3 3,800.0 14.8 12.6 131.54 2,333.0 -612.8 2,642.1 2,617.5 24.53 107.697  3,600.0 4,659.9 4,087.0 4,084.9 17.5 13.3 132.9 2,335.6 -610.9 2,677.6 2,659.5 260.5 102.314  4,000.0 4,062.5 3,984.1 3,982.1 16.1 13.7 132.30 2,334.1 -610.2 2,600.0 2,662.5 27.51 97.97.91  4,000.0 4,659.9 4,087.0 4,084.9 17.5 14.0 132.57 2,345.4 -610.4 2,762.0 2,731.6 3,040 90.88  4,500.0 4,457.3 4,152.6 4,150.3 17.9 14.3 132.74 2,350.9 -610.8 2,781.7 2,750.7 30.98 89.784  4,500.0 4,654.3 4,152.6 4,150.3 17.9 14.3 132.74 2,350.9 -610.8 2,781.7 2,750.7 30.98 89.784  4,500.0 4,655.9 4,219.9 4,217.2 18.3 14.5 132.91 2,386.0 -610.5 2,646.8 2,840.8 2,771.5 31.57 88.788  4,600.0 4,753.3 4,152.6 4,150.3 17.9 14.3 132.74 2,350.9 -6															
2,500.0															
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2,700.0 2,680.9 2,629.2 2,627.5 10.1 8.8 128.26 2,319.5 6-24.9 2,547.6 2,529.0 18.60 136.932 2,800.0 2,779.6 2,712.4 2,710.7 10.5 9.1 128.54 2,320.6 623.0 2,558.6 2,539.3 19.29 132.618 2,900.0 2,878.3 2,794.6 2,792.8 10.9 9.4 128.83 2,322.3 6-22.0 2,558.6 2,539.3 19.29 132.618 2,900.0 2,977.0 2,892.7 2,890.9 11.3 9.8 129.16 2,324.6 618.6 2,582.5 2,561.8 20.72 124.615 3,100.0 3,075.7 2,995.7 2,993.8 11.8 10.1 129.49 2,326.7 616.9 2,594.6 2,573.1 21.49 120.734 3,200.0 3,174.3 3,099.2 3,097.3 12.2 10.5 129.81 2,328.6 615.9 2,606.6 2,584.4 22.26 117.099 3,300.0 3,273.0 3,205.8 3,203.9 12.6 10.9 130.12 2,330.1 615.1 2,618.4 2,595.4 23.04 113.639 3,400.0 3,371.7 3,301.7 3,299.7 13.1 11.2 130.41 2,331.4 614.0 2,630.1 2,606.3 23.78 110.596 3,500.0 3,470.4 3,400.6 3,398.6 13.5 11.6 130.71 2,333.0 612.8 2,642.1 2,617.5 24.53 107.697 3,600.0 3,569.1 3,505.5 3,503.6 14.0 12.0 131.01 2,334.3 611.8 2,653.8 2,628.5 25.31 104.862 3,700.0 3,667.8 3,602.8 3,600.8 14.4 12.3 131.29 2,335.4 611.0 2,665.6 2,639.5 26.05 102.314 3,800.0 3,766.5 3,602.8 3,600.8 14.4 12.3 131.29 2,335.4 611.0 2,665.6 2,639.5 26.05 102.314 3,800.0 3,766.5 3,602.8 3,766.0 15.3 13.0 131.80 2,338.1 610.2 2,690.0 2,662.5 27.51 97.791 4,000.0 4,062.5 3,984.1 3,982.1 16.1 13.7 132.30 2,338.1 610.2 2,690.0 2,662.5 27.51 97.791 4,000.0 4,062.5 3,984.1 3,982.1 16.1 13.7 132.30 2,334.1 610.2 2,690.0 2,662.5 27.51 97.791 4,000.0 4,062.5 3,984.1 3,982.1 16.1 13.7 132.30 2,334.1 610.2 2,400.0 2,663.6 2,695.0 2,605.0 102.314 3,000.0 4,062.5 3,984.1 3,982.1 16.1 13.7 132.30 2,341.1 610.3 2,714.8 2,685.8 29.00 93.602 4,200.0 4,652.9 4,067.0 4,084.9 17.0 14.0 132.57 2,345.4 610.4 2,762.0 2,731.6 30.40 90.888 4,000.0 4,559.9 4,067.0 4,084.9 17.5 14.0 132.57 2,345.4 610.4 2,762.0 2,731.6 30.40 90.888 4,000.0 4,559.9 4,067.0 4,084.9 17.5 14.0 132.57 2,345.4 610.4 2,762.0 2,731.6 30.40 90.888 4,000.0 4,559.9 4,219.9 4,217.2 18.3 14.5 132.91 2,356.0 611.5 2,803.1 2,771.5 30.88 8,000.2 4,650.0 4,433.3 4,429.3 19.7 15.3 133.41 2,381.3 613.5 614.6 2,870.2 2,866.9 33.37 86.002															
2,800.0         2,779.6         2,712.4         2,710.7         10.5         9.1         128.54         2,320.6         -623.0         2,588.6         2,593.3         19.29         132.618           2,900.0         2,678.3         2,794.6         2,792.8         10.9         9.4         128.83         2,322.3         -621.0         2,570.4         2,580.4         19.88         128.662           3,000.0         2,977.0         2,892.7         2,890.9         11.3         9.8         129.16         2,324.6         -616.9         2,584.6         2,573.1         21.44         120.734           3,000.0         3,073.3         3,205.8         3,099.2         3,097.3         12.2         10.5         129.81         2,326.6         -615.9         2,606.6         2,584.4         22.26         117.099           3,000.0         3,273.0         3,205.8         3,209.9         12.6         10.9         130.12         2,330.1         -615.1         2,618.4         2,595.4         23.04         113.636.9           3,500.0         3,470.4         3,400.6         3,398.6         13.5         11.6         130.71         2,333.4         -611.0         2,605.3         2,578.1         104.862           3,700.0		2,582.2		2,540.3	9.6	8.5	127.97	2,319.0				17.90	141.717		
2,900.0         2,878.3         2,794.6         2,792.8         10.9         9.4         128.83         2,322.3         -621.0         2,570.4         2,550.4         19.98         128.662           3,000.0         2,977.0         2,892.7         2,890.9         11.3         9.8         129.16         2,324.6         -616.9         2,564.6         2,573.1         21.49         120.734           3,000.0         3,075.7         2,995.7         2,993.8         11.8         10.1         129.49         2,326.6         -616.9         2,564.6         2,573.1         21.49         120.734           3,200.0         3,273.0         3,205.8         3,203.9         12.6         10.9         130.12         2,330.1         -615.9         2,606.6         2,584.4         22.26         117.099           3,400.0         3,371.7         3,301.7         3,299.7         13.1         11.2         130.41         2,331.4         -614.0         2,630.1         2,606.3         23.78         110.596           3,500.0         3,470.4         3,400.6         3,398.6         13.5         11.6         130.71         2,333.0         -612.8         2,621.1         2,617.5         24.53         107.697           3,600.0															
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3,600.0 3,569.1 3,505.5 3,503.6 14.0 12.0 131.01 2,334.3 -611.8 2,653.8 2,628.5 25.31 104.862 3,700.0 3,667.8 3,602.8 3,600.8 14.4 12.3 131.29 2,335.4 -611.0 2,665.6 2,639.5 26.05 102.314 3,800.0 3,766.5 3,692.3 3,690.3 14.8 12.6 131.54 2,336.6 -610.5 2,677.6 2,650.8 26.77 100.028 3,900.0 3,865.1 3,788.0 3,786.0 15.3 13.0 131.80 2,338.1 -610.2 2,690.0 2,662.5 27.51 97.791 4,000.0 3,963.8 3,886.0 3,884.0 15.7 13.3 132.05 2,339.6 -610.3 2,702.4 2,674.1 28.26 95.639 4,100.0 4,062.5 3,984.1 3,982.1 16.1 13.7 132.30 2,341.1 -610.3 2,714.8 2,685.8 29.00 93.602 4,200.0 4,161.2 4,026.4 4,024.4 16.6 13.8 132.41 2,342.2 -610.3 2,728.3 2,698.8 29.52 92.421 4,300.0 4,259.9 4,087.0 4,084.9 17.0 14.0 132.57 2,345.4 -610.4 2,744.3 2,714.2 30.10 91.158 4,400.0 4,358.6 4,087.0 4,084.9 17.5 14.0 132.57 2,345.4 -610.4 2,762.0 2,731.6 30.40 90.868 4,600.0 4,555.9 4,219.9 4,217.2 18.3 14.5 132.91 2,358.0 -611.5 2,803.1 2,771.5 31.57 88.788 4,700.0 4,654.6 4,319.9 4,316.6 18.8 14.9 133.15 2,368.6 -612.8 2,824.8 2,792.5 32.32 87.388 4,800.0 4,753.3 4,374.0 4,370.4 19.2 15.1 133.28 2,374.3 -613.5 2,846.8 2,814.0 32.84 86.690 4,900.0 4,852.0 4,433.3 4,429.3 19.7 15.3 133.41 2,381.3 -614.6 2,870.2 2,836.9 33.37 86.002	3,400.0	3,371.7	3,301.7	3,299.7	13.1	11.2	130.41	2,331.4	-614.0	2,630.1	2,606.3	23.78	110.596		
3,700.0 3,667.8 3,602.8 3,600.8 14.4 12.3 131.29 2,335.4 -611.0 2,665.6 2,639.5 26.05 102.314 3,800.0 3,766.5 3,692.3 3,690.3 14.8 12.6 131.54 2,336.6 -610.5 2,677.6 2,650.8 26.77 100.028 3,900.0 3,865.1 3,788.0 3,786.0 15.3 13.0 131.80 2,338.1 -610.2 2,690.0 2,662.5 27.51 97.791  4,000.0 3,963.8 3,886.0 3,884.0 15.7 13.3 132.05 2,339.6 -610.3 2,702.4 2,674.1 28.26 95.639 4,100.0 4,062.5 3,984.1 3,982.1 16.1 13.7 132.30 2,341.1 -610.3 2,714.8 2,685.8 29.00 93.602 4,200.0 4,161.2 4,026.4 4,024.4 16.6 13.8 132.41 2,342.2 -610.3 2,728.3 2,698.8 29.52 92.421 4,300.0 4,259.9 4,087.0 4,084.9 17.0 14.0 132.57 2,345.4 -610.4 2,744.3 2,714.2 30.10 91.158 4,400.0 4,358.6 4,087.0 4,084.9 17.5 14.0 132.57 2,345.4 -610.4 2,762.0 2,731.6 30.40 90.868  4,500.0 4,457.3 4,152.6 4,150.3 17.9 14.3 132.74 2,350.9 -610.8 2,781.7 2,750.7 30.98 89.784 4,600.0 4,555.9 4,219.9 4,217.2 18.3 14.5 132.91 2,358.0 -611.5 2,803.1 2,771.5 31.57 88.788 4,700.0 4,654.6 4,319.9 4,316.6 18.8 14.9 133.15 2,368.6 -612.8 2,824.8 2,792.5 32.32 87.388 4,800.0 4,753.3 4,374.0 4,370.4 19.2 15.1 133.28 2,374.3 -613.5 2,846.8 2,814.0 32.84 86.690 4,900.0 4,852.0 4,433.3 4,429.3 19.7 15.3 133.41 2,381.3 -614.6 2,870.2 2,836.9 33.37 86.002	3,500.0	3,470.4	3,400.6	3,398.6	13.5	11.6	130.71	2,333.0	-612.8	2,642.1	2,617.5	24.53	107.697		
3,800.0 3,766.5 3,692.3 3,690.3 14.8 12.6 131.54 2,336.6 -610.5 2,677.6 2,650.8 26.77 100.028 3,900.0 3,865.1 3,788.0 3,786.0 15.3 13.0 131.80 2,338.1 -610.2 2,690.0 2,662.5 27.51 97.791   4,000.0 3,963.8 3,886.0 3,884.0 15.7 13.3 132.05 2,339.6 -610.3 2,702.4 2,674.1 28.26 95.639   4,100.0 4,062.5 3,984.1 3,982.1 16.1 13.7 132.30 2,341.1 -610.3 2,714.8 2,685.8 29.00 93.602   4,200.0 4,161.2 4,026.4 4,024.4 16.6 13.8 132.41 2,342.2 -610.3 2,728.3 2,698.8 29.52 92.421   4,300.0 4,259.9 4,087.0 4,084.9 17.0 14.0 132.57 2,345.4 -610.4 2,744.3 2,714.2 30.10 91.158   4,400.0 4,358.6 4,087.0 4,084.9 17.5 14.0 132.57 2,345.4 -610.4 2,762.0 2,731.6 30.40 90.868   4,500.0 4,457.3 4,152.6 4,150.3 17.9 14.3 132.74 2,350.9 -610.8 2,781.7 2,750.7 30.98 89.784   4,600.0 4,555.9 4,219.9 4,217.2 18.3 14.5 132.91 2,358.0 -611.5 2,803.1 2,771.5 31.57 88.788   4,700.0 4,654.6 4,319.9 4,316.6 18.8 14.9 133.15 2,368.6 -612.8 2,824.8 2,792.5 32.32 87.388   4,800.0 4,753.3 4,374.0 4,370.4 19.2 15.1 133.28 2,374.3 -613.5 2,846.8 2,814.0 32.84 86.690   4,900.0 4,852.0 4,433.3 4,429.3 19.7 15.3 133.41 2,381.3 -614.6 2,870.2 2,836.9 33.37 86.002					14.0							25.31			
3,900.0 3,865.1 3,788.0 3,786.0 15.3 13.0 131.80 2,338.1 -610.2 2,690.0 2,662.5 27.51 97.791  4,000.0 3,963.8 3,866.0 3,884.0 15.7 13.3 132.05 2,339.6 -610.3 2,702.4 2,674.1 28.26 95.639  4,100.0 4,062.5 3,984.1 3,982.1 16.1 13.7 132.30 2,341.1 -610.3 2,714.8 2,685.8 29.00 93.602  4,200.0 4,161.2 4,026.4 4,024.4 16.6 13.8 132.41 2,342.2 -610.3 2,728.3 2,698.8 29.52 92.421  4,300.0 4,259.9 4,087.0 4,084.9 17.0 14.0 132.57 2,345.4 -610.4 2,744.3 2,714.2 30.10 91.158  4,400.0 4,358.6 4,087.0 4,084.9 17.5 14.0 132.57 2,345.4 -610.4 2,762.0 2,731.6 30.40 90.868  4,500.0 4,457.3 4,152.6 4,150.3 17.9 14.3 132.74 2,350.9 -610.8 2,781.7 2,750.7 30.98 89.784  4,600.0 4,555.9 4,219.9 4,217.2 18.3 14.5 132.91 2,358.0 -611.5 2,803.1 2,771.5 31.57 88.788  4,700.0 4,654.6 4,319.9 4,316.6 18.8 14.9 133.15 2,368.6 -612.8 2,824.8 2,792.5 32.32 87.388  4,800.0 4,753.3 4,374.0 4,370.4 19.2 15.1 133.28 2,374.3 -613.5 2,846.8 2,814.0 32.84 86.690  4,900.0 4,852.0 4,433.3 4,429.3 19.7 15.3 133.41 2,381.3 -614.6 2,870.2 2,836.9 33.37 86.002															
4,000.0       3,963.8       3,886.0       3,884.0       15.7       13.3       132.05       2,339.6       -610.3       2,702.4       2,674.1       28.26       95.639         4,100.0       4,062.5       3,984.1       3,982.1       16.1       13.7       132.30       2,341.1       -610.3       2,714.8       2,685.8       29.00       93.602         4,200.0       4,161.2       4,026.4       4,024.4       16.6       13.8       132.41       2,342.2       -610.3       2,728.3       2,698.8       29.52       92.421         4,300.0       4,259.9       4,087.0       4,084.9       17.0       14.0       132.57       2,345.4       -610.4       2,744.3       2,714.2       30.10       91.158         4,400.0       4,358.6       4,087.0       4,084.9       17.5       14.0       132.57       2,345.4       -610.4       2,762.0       2,731.6       30.40       90.868         4,500.0       4,457.3       4,152.6       4,150.3       17.9       14.3       132.74       2,350.9       -610.8       2,781.7       2,750.7       30.98       89.784         4,600.0       4,555.9       4,219.9       4,217.2       18.3       14.5       132.91       2,358.0															
4,100.0       4,062.5       3,984.1       3,982.1       16.1       13.7       132.30       2,341.1       -610.3       2,714.8       2,685.8       29.00       93.602         4,200.0       4,161.2       4,026.4       4,024.4       16.6       13.8       132.41       2,342.2       -610.3       2,728.3       2,698.8       29.52       92.421         4,300.0       4,259.9       4,087.0       4,084.9       17.0       14.0       132.57       2,345.4       -610.4       2,744.3       2,714.2       30.10       91.158         4,400.0       4,358.6       4,087.0       4,084.9       17.5       14.0       132.57       2,345.4       -610.4       2,762.0       2,731.6       30.40       90.868         4,500.0       4,457.3       4,152.6       4,150.3       17.9       14.3       132.74       2,350.9       -610.8       2,781.7       2,750.7       30.98       89.784         4,600.0       4,555.9       4,219.9       4,217.2       18.3       14.5       132.91       2,358.0       -611.5       2,803.1       2,771.5       31.57       88.788         4,700.0       4,654.6       4,319.9       4,316.6       18.8       14.9       133.15       2,368.6	3,900.0	3,865.1	3,788.0	3,786.0	15.3	13.0	131.80	2,338.1	-610.2	2,690.0	2,662.5	27.51	97.791		
4,200.0       4,161.2       4,026.4       4,024.4       16.6       13.8       132.41       2,342.2       -610.3       2,728.3       2,698.8       29.52       92.421         4,300.0       4,259.9       4,087.0       4,084.9       17.0       14.0       132.57       2,345.4       -610.4       2,744.3       2,714.2       30.10       91.158         4,400.0       4,358.6       4,087.0       4,084.9       17.5       14.0       132.57       2,345.4       -610.4       2,762.0       2,731.6       30.40       90.868         4,500.0       4,457.3       4,152.6       4,150.3       17.9       14.3       132.74       2,350.9       -610.8       2,781.7       2,750.7       30.98       89.784         4,600.0       4,555.9       4,219.9       4,217.2       18.3       14.5       132.91       2,358.0       -611.5       2,803.1       2,771.5       31.57       88.788         4,700.0       4,654.6       4,319.9       4,316.6       18.8       14.9       133.15       2,368.6       -612.8       2,824.8       2,792.5       32.32       87.388         4,800.0       4,753.3       4,374.0       4,370.4       19.2       15.1       133.28       2,374.3	4,000.0	3,963.8	3,886.0	3,884.0	15.7	13.3	132.05	2,339.6	-610.3	2,702.4	2,674.1	28.26	95.639		
4,300.0       4,259.9       4,087.0       4,084.9       17.0       14.0       132.57       2,345.4       -610.4       2,744.3       2,714.2       30.10       91.158         4,400.0       4,358.6       4,087.0       4,084.9       17.5       14.0       132.57       2,345.4       -610.4       2,762.0       2,731.6       30.40       90.868         4,500.0       4,457.3       4,152.6       4,150.3       17.9       14.3       132.74       2,350.9       -610.8       2,781.7       2,750.7       30.98       89.784         4,600.0       4,555.9       4,219.9       4,217.2       18.3       14.5       132.91       2,358.0       -611.5       2,803.1       2,771.5       31.57       88.788         4,700.0       4,654.6       4,319.9       4,316.6       18.8       14.9       133.15       2,368.6       -612.8       2,824.8       2,792.5       32.32       87.388         4,800.0       4,753.3       4,374.0       4,370.4       19.2       15.1       133.28       2,374.3       -613.5       2,846.8       2,814.0       32.84       86.690         4,900.0       4,852.0       4,433.3       4,429.3       19.7       15.3       133.41       2,381.3		4,062.5				13.7						29.00			
4,400.0       4,358.6       4,087.0       4,084.9       17.5       14.0       132.57       2,345.4       -610.4       2,762.0       2,731.6       30.40       90.868         4,500.0       4,457.3       4,152.6       4,150.3       17.9       14.3       132.74       2,350.9       -610.8       2,781.7       2,750.7       30.98       89.784         4,600.0       4,555.9       4,219.9       4,217.2       18.3       14.5       132.91       2,358.0       -611.5       2,803.1       2,771.5       31.57       88.788         4,700.0       4,654.6       4,319.9       4,316.6       18.8       14.9       133.15       2,368.6       -612.8       2,824.8       2,792.5       32.32       87.388         4,800.0       4,753.3       4,374.0       4,370.4       19.2       15.1       133.28       2,374.3       -613.5       2,846.8       2,814.0       32.84       86.690         4,900.0       4,852.0       4,433.3       4,429.3       19.7       15.3       133.41       2,381.3       -614.6       2,870.2       2,836.9       33.37       86.002		4,161.2		4,024.4			132.41	2,342.2				29.52			
4,500.0       4,457.3       4,152.6       4,150.3       17.9       14.3       132.74       2,350.9       -610.8       2,781.7       2,750.7       30.98       89.784         4,600.0       4,555.9       4,219.9       4,217.2       18.3       14.5       132.91       2,358.0       -611.5       2,803.1       2,771.5       31.57       88.788         4,700.0       4,654.6       4,319.9       4,316.6       18.8       14.9       133.15       2,368.6       -612.8       2,824.8       2,792.5       32.32       87.388         4,800.0       4,753.3       4,374.0       4,370.4       19.2       15.1       133.28       2,374.3       -613.5       2,846.8       2,814.0       32.84       86.690         4,900.0       4,852.0       4,433.3       4,429.3       19.7       15.3       133.41       2,381.3       -614.6       2,870.2       2,836.9       33.37       86.002															
4,600.0       4,555.9       4,219.9       4,217.2       18.3       14.5       132.91       2,358.0       -611.5       2,803.1       2,771.5       31.57       88.788         4,700.0       4,654.6       4,319.9       4,316.6       18.8       14.9       133.15       2,368.6       -612.8       2,824.8       2,792.5       32.32       87.388         4,800.0       4,753.3       4,374.0       4,370.4       19.2       15.1       133.28       2,374.3       -613.5       2,846.8       2,814.0       32.84       86.690         4,900.0       4,852.0       4,433.3       4,429.3       19.7       15.3       133.41       2,381.3       -614.6       2,870.2       2,836.9       33.37       86.002	4,400.0	4,358.6	4,087.0	4,084.9	17.5	14.0	132.57	2,345.4	-610.4	2,762.0	2,731.6	30.40	90.868		
4,700.0       4,654.6       4,319.9       4,316.6       18.8       14.9       133.15       2,368.6       -612.8       2,824.8       2,792.5       32.32       87.388         4,800.0       4,753.3       4,374.0       4,370.4       19.2       15.1       133.28       2,374.3       -613.5       2,846.8       2,814.0       32.84       86.690         4,900.0       4,852.0       4,433.3       4,429.3       19.7       15.3       133.41       2,381.3       -614.6       2,870.2       2,836.9       33.37       86.002	4,500.0	4,457.3	4,152.6	4,150.3	17.9	14.3	132.74	2,350.9	-610.8	2,781.7	2,750.7	30.98	89.784		
4,800.0     4,753.3     4,374.0     4,370.4     19.2     15.1     133.28     2,374.3     -613.5     2,846.8     2,814.0     32.84     86.690       4,900.0     4,852.0     4,433.3     4,429.3     19.7     15.3     133.41     2,381.3     -614.6     2,870.2     2,836.9     33.37     86.002		4,555.9		4,217.2	18.3	14.5	132.91	2,358.0	-611.5	2,803.1	2,771.5	31.57	88.788		
4,900.0 4,852.0 4,433.3 4,429.3 19.7 15.3 133.41 2,381.3 -614.6 2,870.2 2,836.9 33.37 86.002	4,700.0	4,654.6	4,319.9	4,316.6	18.8	14.9	133.15	2,368.6	-612.8	2,824.8	2,792.5	32.32	87.388		
	4,800.0	4,753.3	4,374.0	4,370.4	19.2	15.1	133.28	2,374.3	-613.5	2,846.8	2,814.0	32.84	86.690		
5,000.0 4,950.7 4,469.0 4,464.6 20.1 15.4 133.48 2,386.4 -615.6 2,895.7 2,861.9 33.77 85.754	4,900.0	4,852.0	4,433.3	4,429.3	19.7	15.3	133.41	2,381.3	-614.6	2,870.2	2,836.9	33.37	86.002		
	5,000.0	4,950.7	4,469.0	4,464.6	20.1	15.4	133.48	2,386.4	-615.6	2,895.7	2,861.9	33.77	85.754		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Property	Offset Des	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #203H	- Wellbore	#1 - Actua	I			Offset Site Error:	0.0 usft
Name					0					Di-4				Offset Well Error:	0.0 usft
Page					-		Highside	Offset Wellbor	e Centre			Minimum	Senaration	Marning	
	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		warning	
5,500   5,2467   4,675   4,6879   21.4   162   13387   2,422   4236   2,8816   2,6455   35.48   64.972   5,500   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,540   5,5	5,100.0	5,049.4	4,521.7	4,516.6	20.6	15.6	133.59	2,394.7	-617.5	2,922.9	2,888.6	34.25	85.346		
Section   Sect	5,200.0	5,148.1	4,571.9	4,566.0	21.0	15.8	133.68	2,403.5	-619.4	2,951.7	2,917.0	34.70	85.055		
5,500   5,444   4,810   5,480   1   223   171   19428   2,481   4304   3,0386   3,0014   37.16   81.77							133.87	2,422.2							
5,000   5,542   5,023   5,010   228   17.6   134.69   2,481.6   493.9   3,066   3,024.4   36.05   80.00															
5,700 5,641 5 5,662 5 5,078 5 22 17,9 134 61 2,492 8 -038 3 3,044 1 3,055 5 38,62 10,117 1,550 5 10,00 5,740 2 5,850 5 1,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13,558 5 13															
5,800   5,740   5,740   5,168   5,143   5,246   227   18.1   19473   2,2043   49413   3,1229   3,083   3918   79717   79619   4,000   5,9375   5,3861   5,3865   24.5   19.0   19.5   15.5   2,543   4.474   3,160   3,1907   40.86   77.841   4,000   5,9375   5,3861   5,3865   24.5   19.0   19.5   19.5   2,543   4.474   3,160   3,1907   40.86   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   77.841   4,000   7															
Section   Sect															
5,000   5,087.5   5,386.1   5,389.5   245   19.0   19.5   15.5   2.544.6   247.4   3,180.6   3,189.7   40.86   77.841     6,000   6,184.9   5,489.5   5,473.3   254.4   19.5   19.3   19.5   25.28   25.61   4.982.1     6,000   6,184.9   5,489.5   5,473.3   254.4   19.5   19.3   19.5   19.5     6,000   6,000.5   5,587.3   5,284.1   5,800.0   25.3   20.3   18.57.7   2.274.5   2.691.3   3,286.6   3,186.8   41.81   77.455     6,000   6,184.0   5,800.0   25.3   20.3   18.57.7   2.274.5   4.950.1   3,286.6   3,186.8   41.81   77.455     6,000   6,187.0   5,800.0   26.3   20.3   18.57.7   2.274.5   4.950.1   3,286.6   3,186.8   41.81   77.455     6,000   6,187.0   6,000.0   6,000.0   6.90.8   2.81   2.17   18.5   2.00.0   4.90.9   3.00.0   3.01.2   3.267.0   4.226   7.5     6,000   6,000.0   6,000.0   6,000.0   6.00.0   2.78   1.27   18.5   3.00.0   2.285.7   4.960.0   3.00.0   3.00.0   3.00.0   4.90.0   3.00.0   4.90.0   3.00.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4.90.0   4															
6,000 6,0362 8,4539 6,4543 250 19.3 19.5 28 2.555.1 4.00.1 3.208 3,167.4 41.49 77.490 6,200 6,134.9 5,493.5 6,473.3 25.4 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5															
6,000   6,134,9   5,480,5   5,473,3   20,4   19,5   136,38   2,582,4   480,1   3,228,6   3,198,8   41,81   77,465   6,500   6,330   6,233,6   5,681,1   6,532,6   259   19,7   136,47   2574,5   4,800,1   3,228,6   3,198,8   41,81   77,465   7,269   6,600   6,431,0   6,500   6,431,0   6,600   6,431,0   6,600   6,431,0   6,600   6,431,0   6,600   6,431,0   6,600   6,431,0   6,600   6,431,0   6,600   6,431,0   6,600   6,431,0   6,600   6,431,0   6,600   6,431,0   6,600   6,431,0   6,600   6,431,0   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600   6,600															
6,300 6,233 6,5641 5,5826 29 197 138.47 2,574.5 651.3 3,269 3,227.6 42.2 77.266 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,400 6,40															
6,400   6,332.3   5,884.1   5,680.0   26.3   20.3   139.72   2,200.3   463.5   3,301.2   3,267.9   43.28   76.279   6,600.0   6,520.6   5,977.0   5,046.2   27.2   21.5   136.29   2,662.0   459.0   3,397.3   3,14.3   45.38   74.027   75.165   6,600.0   6,620.6   6,605.4   21.1   22.0   138.40   2,671.1   646.2   3,477.3   3,41.7   45.38   74.027   75.00   6,606.0   6,605.4   23.1   22.0   138.40   2,671.1   646.2   3,477.3   3,41.7   45.38   74.027   75.00   6,600.0   6,625.7   6,600.0   6,137.1   26.5   22.3   138.40   2,685.7   6,676.0   3,47.2   3,400.2   47.01   73.334   77.000.0   6,264.4   6,455.0   6,399.3   20.0   23.4   138.61   2,784.4   6,755.0   3,47.2   3,400.2   47.01   73.334   77.000.0   7,021.1   6,511.5   6,475.0   29.4   23.7   136.91   2,736.2   665.1   3,507.2   3,475.3   46.4   3,766.2   46.4   77.000.0   7,021.1   6,511.5   6,475.0   29.4   23.7   136.91   2,736.2   665.1   3,507.2   3,477.2   49.4   77.056.0   7,200.4   7,200.4   7,200.4   6,414.2   6,776.3   30.3   24.1   137.04   2,755.0   466.7   3,552.2   3,564.8   90.37   70.567   7,400.0   7,200.4   6,614.2   6,776.3   30.3   24.1   137.04   2,755.0   466.7   3,552.2   3,564.8   90.37   70.567   7,500.0   7,477.8   6,721.9   6,682.1   31.2   24.6   137.31   2,775.2   468.2   3,564.8   3,533.9   90.85   70.483   7,500.0   7,477.8   6,682.4   3,474.2   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,676.3   4,6															
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6,000   6,528   6,9770   5,9462   272   215   13623   2,6520   -8699   3,3597   3,344.3   45.38   74,027															
6,800.0         6,277.0         6,006.0         6,065.4         2.81.1         22.0         18.40.0         2,072.1         -864.2         3,417.0         3,370.6         46.41         7,562.3           6,000.0         6,024.4         6,435.0         6,398.3         2.90.2         23.4         18.681         2,228.4         -679.6         3,475.5         3,402.7         7,100.0         7,100.0         7,023.1         6,515.5         6,475.0         2.94         23.7         136.91         2,739.2         -88.1         3,500.4         3,451.0         49.83         7,002.0         7,200.0         7,220.4         6,614.2         6,515.5         6,475.0         2.94         23.7         136.99         2,748.5         -885.4         3,327.2         3,477.2         49.97         70.500         7,000.7         7,311.8         6,670.0         6,614.2         6,614.2         6,614.2         31.0         24.4         137.15         2,776.1         -886.2         3,584.7         6,609.4         6,609.1         31.0         24.4         137.15         2,776.2         -886.2         3,584.1         51.0         7,048.3         7,048.3         7,048.3         7,048.3         7,048.3         7,048.3         7,048.3         7,048.3         7,048.3         7,048.3<															
6,800.0         6,727.0         6,009.0         6,005.4         28.1         22.0         136.40         2,007.1         -864.2         3,417.0         3,370.6         46.41         73,623           6,000.0         6,825.7         6,169.0         6,935.7         6,169.0         6,835.0         6,399.3         20.0         22.4         136.81         2,228.4         -697.8         3,475.5         3,402.7         47.00         7.00         7,000.0         7,000.0         7,000.0         7,000.0         7,000.0         7,000.0         7,200.0         7,200.0         7,200.0         7,200.0         7,200.0         7,200.0         7,200.0         7,200.0         7,200.0         7,200.0         7,200.0         7,200.0         7,200.0         7,200.0         7,200.0         7,200.0         8,000.0         6,614.2         6,536.7         30.3         24.1         137.04         2,756.2         -886.2         3,548.4         5,007.7         7,009.0         7,200.0         7,301.0         6,614.2         31.0         24.4         137.15         2,769.1         -886.2         3,548.4         5,037.7         7,043.0         7,000.0         7,000.0         7,000.0         7,000.0         7,000.0         7,000.0         7,000.0         7,000.0         7,000.0	6.700.0	6.628.3	6.041.6	6.011.9	27.6	21.7	136.33	2.662.5	-661.9	3.387.7	3.341.7	45.93	73.754		
0,000   0,6257   0,1690   0,1371   28.5   22.3   136.49   2,6857   -867.6   3,447.2   3,400.2   47.01   7.3.34   7.000.0   7.023.1   0,511.5   0,475.0   29.4   23.7   136.91   2,738.2   -883.1   3,500.4   3,451.0   49.43   70.823   7.000.0   7.023.1   0,511.5   0,475.0   29.4   23.7   136.91   2,738.2   -883.1   3,500.4   3,451.0   49.43   70.823   7.000.0   7.023.1   0,511.5   0,675.0   29.4   23.7   136.91   2,738.2   -883.1   3,500.4   3,451.0   49.43   70.823   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.000.0   7.00															
7,000         6,024.4         6,435.0         6,399.3         29.0         23.4         13.681         2,728.4         -679.8         3,474.5         3,425.7         48.80         71.204           7,100.0         7,023.1         6,511.5         6,475.0         29.4         23.7         136.91         2,739.2         -683.1         3,500.4         3,451.0         49.43         70.823           7,200.0         7,121.8         6,574.0         6,536.7         29.9         23.9         136.99         2,748.5         -885.2         3,504.8         50.37         70.590           7,300.0         7,220.4         6,614.2         6,576.3         30.3         24.1         137.04         2,765.0         -88.2         3,564.8         3,533.9         50.85         70.987           7,400.0         7,319.1         6,670.0         6,681.2         31.2         24.6         137.31         2,775.2         -689.4         3,561.4         3,561.1         51.31         70.463           7,600.0         7,516.9         6,861.0         6,818.8         31.6         25.2         138.11         2,810.9         -692.9         3,844.0         3,591.7         52.32         69.645           7,800.0         7,715.8         6,9															
7,200.0         7,121.8         6,574.0         6,596.7         29.9         23.9         136.99         2,748.5         -865.4         3,527.2         3,477.2         49.97         70.990           7,300.0         7,220.4         6,614.2         6,576.3         30.3         24.1         137.04         2,755.0         -887.2         3,565.2         3,504.8         50.37         70.887           7,400.0         7,334.7         6,690.4         6,651.2         31.0         24.4         137.15         2,799.1         -888.7         3,605.1         3,554.1         51.06         70.599           7,500.0         7,417.8         6,721.9         6,681.2         31.2         24.6         137.31         2,775.2         -884.7         3,661.4         3,561.1         51.06         70.599           7,600.0         7,511.9         6,861.0         6,818.8         31.6         25.2         2,800.9         9,692.9         3,644.0         3,591.7         52.37         69.656           7,800.0         7,715.8         6,957.0         6,973.0         3,244.2         25.6         138.40         2,819.1         -90.6         3,641.0         53.12         69.997           7,800.0         7,915.5         7,243.0		6,924.4	6,435.0	6,399.3	29.0	23.4	136.81	2,728.4	-679.8	3,474.5	3,425.7	48.80	71.204		
7,300.0         7,220.4         6,614.2         6,676.3         30.3         24.1         137.04         2,755.0         -686.7         3,555.2         3,504.8         50.37         70,587           7,400.0         7,319.1         6,6870.0         6,681.2         30.7         24.3         137.12         2,765.2         -688.2         3,583.9         50.85         70.493           7,800.0         7,417.8         6,681.0         6,681.1         31.2         24.6         137.31         2,775.2         -689.4         3,615.4         3,584.1         15.31         70.599           7,600.0         7,616.9         6,681.0         6,818.8         31.6         25.2         137.78         2,800.9         -692.9         3,644.0         3,591.7         52.32         69,645           7,700.0         7,715.8         6,957.0         6,913.0         32.4         25.6         138.40         2,891.1         -696.6         3,687.1         3,644.0         35.12         69,597           7,900.0         7,315.8         6,957.0         6,913.0         32.4         25.6         138.40         2,891.1         -701.3         3,721.6         3,687.3         34.2         26.6         138.40         2,71.1         -0.18	7,100.0	7,023.1	6,511.5	6,475.0	29.4	23.7	136.91	2,739.2	-683.1	3,500.4	3,451.0	49.43	70.823		
7,400.0         7,319.1         6,670.0         6,631.2         30.7         24.3         137.12         2,765.2         -688.2         3,534.8         3,533.9         50.85         70,493           7,466.5         7,384.7         6,690.4         6,661.2         31.0         24.4         137.15         2,776.2         -688.7         3,605.1         3,554.1         51.06         70,599           7,600.0         7,516.9         6,881.0         6,818.8         31.6         25.2         137.78         2,800.9         -692.9         3,644.0         3,591.7         52.32         69.645           7,700.0         7,616.2         6,915.2         6,872.1         32.0         25.4         138.11         2,810.7         -694.5         3,670.7         3,617.9         52.32         69.645           7,900.0         7,715.8         6,957.0         6,913.0         32.4         25.6         138.40         2,819.1         -694.5         3,670.7         3,614.0         53.17         69.556           7,900.0         7,815.6         7,183.3         7,071.0         32.8         26.3         138.60         2,873.6         -706.1         3,724.0         3,667.3         54.26         68.544           8,000.0	7,200.0	7,121.8	6,574.0	6,536.7	29.9	23.9	136.99	2,748.5	-685.4	3,527.2	3,477.2	49.97	70.590		
7,486.5         7,384.7         6,690.4         6,681.2         31.0         24.4         137.15         2,769.1         -688.7         3,805.1         3,554.1         51.06         70,599           7,500.0         7,417.8         6,721.9         6,682.1         31.2         24.6         137.31         2,775.2         -689.4         3,615.4         3,564.1         51.31         70,463           7,600.0         7,516.9         6,861.0         6,818.8         31.6         25.2         137.78         2,800.9         -682.9         3,644.0         3,591.7         52.32         69,855           7,600.0         7,715.8         6,957.0         6,913.0         32.4         25.6         138.40         2,819.1         -696.6         3,697.1         3,641.0         52.77         69,556           7,900.0         7,715.8         6,957.0         6,913.0         32.4         25.6         138.40         2,819.1         -696.6         3,697.1         3,642.0         53.12         69,957           7,900.0         7,315.5         7,243.0         7,193.5         33.1         26.8         138.86         2,873.6         -706.1         3,742.2         3,687.0         55.14         67.833           8,000.0	7,300.0	7,220.4	6,614.2	6,576.3	30.3	24.1	137.04	2,755.0	-686.7	3,555.2	3,504.8	50.37	70.587		
7,500.0         7,417.8         6,721.9         6,882.1         31.2         24.6         137.31         2,775.2         -689.4         3,615.4         3,564.1         51.31         70,463           7,600.0         7,516.9         6,861.0         6,818.8         31.6         25.2         137.78         2,800.9         -692.9         3,644.0         3,591.7         52.32         69,645           7,700.0         7,715.8         6,957.0         6,973.0         32.4         2,56         138.40         2,811.1         -694.5         3,670.7         3,617.9         52.77         69,556           7,900.0         7,815.6         7,118.3         7,071.0         32.8         26.3         138.67         2,851.1         -701.3         3,742.6         3,667.3         54.26         68.584           8,000.0         7,915.5         7,243.0         7,193.5         33.1         26.8         138.86         2,873.6         -706.1         3,742.2         3,870.0         55.14         67.863           8,000.0         8,015.5         7,300.7         7,282.2         33.3         27.1         -91.2         2,885.5         -707.9         3,761.2         3,706.5         56.61         67.632           8,100.0         8	7,400.0	7,319.1	6,670.0	6,631.2	30.7	24.3	137.12	2,765.2	-688.2	3,584.8	3,533.9	50.85	70.493		
7,600 0         7,516.9         6,861.0         6,818.8         31.6         25.2         137.78         2,800.9         -692.9         3,844.0         3,591.7         52.32         69.645           7,700.0         7,816.2         6,915.2         6,872.1         32.0         25.4         138.11         2,810.7         -694.5         3,670.7         3,617.9         52.77         69.556           7,000.0         7,715.8         6,987.0         6,913.0         32.4         25.6         138.40         2,819.1         -695.6         3,670.7         3,644.0         53.12         69.597           8,000.0         7,915.5         7,213.0         7,193.5         33.1         26.8         138.86         2,873.6         -706.1         3,742.2         3,687.0         55.14         67.83           8,006.5         8,002.0         7,302.7         7,252.2         33.3         27.1         -9.18         2,884.4         -707.8         3,756.6         5,161         67.83           8,100.0         8,015.5         7,303.7         7,258.1         33.4         27.1         -9.17         2,891.4         -709.3         3,761.5         55.61         67.637           8,200.0         8,114.8         7,337.7         23.7	7,466.5	7,384.7	6,690.4	6,651.2	31.0	24.4	137.15	2,769.1	-688.7	3,605.1	3,554.1	51.06	70.599		
7,700.0         7,816.2         6,915.2         6,915.2         6,921.1         32.0         25.4         138.11         2,910.7         -694.5         3,670.7         3,617.9         52.77         69.56           7,800.0         7,715.8         6,957.0         6,913.0         32.4         25.6         138.40         2,819.1         -695.6         3,667.3         54.26         96.597           7,900.0         7,915.5         7,243.0         7,193.5         33.1         26.8         138.86         2,873.6         -706.1         3,742.2         3,687.0         55.14         67.863           8,086.5         8,002.0         7,302.7         7,252.2         33.3         27.1         -9.18         2,885.5         -707.9         3,761.2         3,703.0         55.57         67.837           8,100.0         8,065.4         7,333.0         7,287.8         33.5         27.2         -88.77         2,891.4         -708.3         3,703.0         55.57         67.837           8,200.0         8,114.8         7,387.3         7,382.2         33.6         27.4         -87.91         2,901.0         -708.7         3,724.6         66.11         67.390           8,200.0         8,163.3         7,683.6         7,	7,500.0	7,417.8	6,721.9	6,682.1	31.2	24.6	137.31	2,775.2	-689.4	3,615.4	3,564.1	51.31	70.463		
7,800.0 7,715.8 6,957.0 6,913.0 32.4 25.6 138.40 2,819.1 -695.6 3,697.1 3,644.0 53.12 69.597 7,900.0 7,815.6 7,118.3 7,071.0 32.8 26.3 138.67 2,851.1 -701.3 3,721.6 3,667.3 54.26 68.584 8,000.0 7,915.5 7,243.0 7,193.5 33.1 26.8 138.86 2,873.6 7.076.1 3,742.2 3,687.0 55.14 67.863  8,086.5 8,002.0 7,302.7 7,252.2 33.3 27.1 -0.18 2,884.4 -707.8 3,758.6 3,703.0 55.57 67.637 8,100.0 8,015.5 7,308.7 7,258.1 33.4 27.1 -0.872 2,885.5 -707.9 3,761.2 3,705.6 55.61 67.632 8,150.0 8,065.4 7,339.0 7,287.8 33.5 27.2 -88.77 2,891.4 -708.3 3,770.9 3,761.2 5,705.6 55.61 67.632 8,150.0 8,163.3 7,483.6 7,429.7 33.7 27.9 -87.34 2,991.0 -708.7 3,780.7 3,724.6 56.11 67.380 8,250.0 8,163.3 7,626.0 7,570.0 33.8 28.5 -86.44 2,943.7 -710.7 3,798.3 3,740.7 57.62 65.921 8,350.0 8,256.3 7,626.0 7,570.0 33.8 28.5 -86.44 2,943.7 -710.7 3,798.3 3,740.7 57.62 65.921 8,450.0 8,380.6 7,683.3 7,626.4 33.9 28.7 -84.46 2,943.7 -710.7 3,806.1 3,748.6 57.55 66.141 8,400.0 8,300.1 7,650.7 7,600.2 33.9 28.6 -85.86 2,948.8 -710.9 3,813.9 3,756.2 57.70 66.102 8,450.0 8,380.6 7,683.3 7,626.4 33.9 28.7 -84.46 2,953.6 -711.2 3,830.2 3,772.4 57.78 66.290  8,550.0 8,416.6 7,721.0 7,663.4 33.9 28.7 -84.46 2,953.6 -711.2 3,830.2 3,772.4 57.78 66.290  8,550.0 8,416.6 7,721.0 7,663.4 33.9 28.9 -84.04 2,961.0 -711.8 3,838.8 3,760.8 57.99 66.201 8,550.0 8,479.0 7,721.0 7,663.4 33.9 28.9 -83.21 2,961.0 -711.8 3,838.8 3,760.8 57.99 66.201 8,550.0 8,489.5 7,721.0 7,663.4 33.9 28.9 -83.21 2,961.0 -711.8 3,838.8 3,760.8 57.99 66.201 8,550.0 8,550.8 7,775.9 7,717.2 33.8 29.1 -81.45 2,972.1 -713.0 3,871.9 3,813.5 58.40 66.306  8,800.0 8,544.9 8,800.0 7,803.4 33.8 33.6 -81.90 2,988.5 -715.1 3,887.3 3,802.6 3,811.1 62.56 62.201 8,850.0 8,550.8 8,650.0 7,750.8 33.7 29.7 -80.32 2,997.2 -716.2 3,906.1 3,848.1 60.02 65.111	7,600.0	7,516.9	6,861.0	6,818.8	31.6	25.2	137.78	2,800.9	-692.9	3,644.0	3,591.7	52.32	69.645		
7,900.0         7,815.6         7,118.3         7,071.0         32.8         26.3         138.67         2,851.1         -701.3         3,721.6         3,667.3         54.26         68.584           8,000.0         7,395.5         7,243.0         7,193.5         33.1         26.8         138.86         2,873.6         -706.1         3,721.6         3,667.3         54.26         68.584           8,006.5         8,002.0         7,302.7         7,252.2         33.3         27.1         -0.18         2,884.4         -707.8         3,761.2         3,705.6         55.57         67.637           8,150.0         8,065.4         7,339.0         7,287.8         33.5         27.2         -88.77         2,891.4         -708.3         3,761.2         3,705.6         55.81         67.569           8,200.0         8,114.8         7,337.7         7,335.2         33.6         27.4         -87.91         2,991.0         -708.7         3,780.7         3,784.6         65.11         66.30           8,200.0         8,168.3         7,633.3         7,577.2         33.8         28.5         -87.27         2,944.9         -710.7         3,780.7         57.62         65.921           8,300.0         8,256.5         7,	7,700.0	7,616.2	6,915.2	6,872.1	32.0	25.4	138.11	2,810.7	-694.5	3,670.7	3,617.9	52.77	69.556		
8,000.0         7,915.5         7,243.0         7,193.5         33.1         26.8         138.86         2,873.6         -706.1         3,742.2         3,687.0         55.14         67.863           8,006.5         8,002.0         7,302.7         7,252.2         33.3         27.1         -0.18         2,884.4         -707.8         3,758.6         3,703.0         55.57         67.637           8,100.0         8,015.5         73,09.0         7,287.8         33.5         27.2         -88.77         2,885.5         -707.9         3,761.2         3,705.6         55.61         67.632           8,150.0         8,016.5         7,303.7         7,287.8         33.5         27.2         -88.77         2,891.4         -708.3         3,770.9         3,715.1         55.81         67.569           8,200.0         8,114.8         7,337.4         7,335.2         33.6         27.4         -87.91         2,901.0         -708.7         3,780.7         3,734.6         56.11         67.580           8,250.0         8,163.3         7,677.2         33.7         27.9         -87.34         2,919.4         -710.7         3,780.3         3,740.7         57.62         65.921           8,300.0         8,265.3         7	7,800.0	7,715.8	6,957.0	6,913.0	32.4	25.6	138.40	2,819.1	-695.6	3,697.1	3,644.0	53.12	69.597		
8,086.5 8,002.0 7,302.7 7,252.2 33.3 27.1 -0.18 2,884.4 -707.8 3,758.6 3,703.0 55.57 67.637 8,100.0 8,015.5 7,308.7 7,258.1 33.4 27.1 -89.72 2,885.5 -707.9 3,761.2 3,705.6 55.61 67.632 8,150.0 8,065.4 7,339.0 7,287.8 33.5 27.2 -88.77 2,891.4 -708.3 3,770.9 3,715.1 55.81 67.569 8,200.0 8,114.8 7,387.4 7,335.2 33.6 27.4 -87.91 2,901.0 -708.7 3,780.7 3,724.6 56.11 67.380 8,250.0 8,163.3 7,483.6 7,429.7 33.7 27.9 -87.34 2,919.4 -709.6 3,760.1 3,733.4 56.71 66.830 8,300.0 8,210.6 7,633.3 7,577.2 33.8 28.5 -87.27 2,944.9 -710.7 3,763.3 3,740.7 57.62 65.921 8,350.0 8,256.3 7,626.0 7,570.0 33.8 28.5 -86.44 2,943.7 -710.7 3,806.1 3,748.6 57.55 66.141 8,400.0 8,300.1 7,656.7 7,600.2 33.9 28.6 -85.86 2,948.8 -710.9 3,813.9 3,756.2 57.70 66.102 8,450.0 8,341.6 7,670.4 7,613.8 33.9 28.7 -85.17 2,951.3 -711.0 3,822.0 3,764.3 57.74 66.192 8,550.0 8,416.6 7,721.0 7,663.4 33.9 28.7 -84.46 2,953.6 -711.2 3,830.2 3,772.4 57.78 66.290 8,550.0 8,449.5 7,721.0 7,663.4 33.9 28.9 -82.37 2,961.0 -711.8 3,855.3 3,797.4 57.96 66.369 8,650.0 8,479.0 7,721.0 7,663.4 33.9 28.9 -82.37 2,961.0 -711.8 3,855.3 3,797.4 57.96 66.520 8,700.0 8,544.9 8,800.0 7,803.4 33.8 28.9 -82.37 2,961.0 -711.8 3,855.3 3,797.4 57.96 66.520 8,700.0 8,544.9 8,800.0 7,803.4 33.8 28.9 -82.37 2,961.0 -711.8 3,855.3 3,797.4 57.96 66.520 8,700.0 8,544.9 8,800.0 7,803.4 33.8 28.9 -82.37 2,961.0 -711.8 3,855.3 3,797.4 57.96 66.520 8,700.0 8,544.9 8,800.0 7,803.4 33.8 28.9 -82.37 2,961.0 -711.8 3,855.3 3,797.4 57.96 66.520 8,700.0 8,544.9 8,800.0 7,803.4 33.8 33.8 -81.31 2,990.8 -715.1 3,879.6 3,817.1 62.56 62.012 8,800.0 8,544.9 8,800.0 7,803.4 33.8 33.8 -81.31 2,990.8 -715.1 3,879.6 3,817.1 62.56 62.012 8,800.0 8,544.9 8,800.0 7,803.4 33.8 33.8 -81.31 2,990.5 -716.2 3,908.1 3,848.1 60.02 65.111															
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8,450.0       8,341.6       7,670.4       7,613.8       33.9       28.7       -85.17       2,951.3       -711.0       3,822.0       3,764.3       57.74       66.192         8,500.0       8,380.6       7,683.3       7,626.4       33.9       28.7       -84.46       2,953.6       -711.2       3,830.2       3,772.4       57.78       66.290         8,550.0       8,416.6       7,721.0       7,663.4       33.9       28.9       -84.04       2,961.0       -711.8       3,838.8       3,780.8       57.99       66.201         8,600.0       8,449.5       7,721.0       7,663.4       33.9       28.9       -82.37       2,961.0       -711.8       3,855.3       3,797.4       57.96       66.369         8,650.0       8,479.0       7,721.0       7,663.4       33.9       28.9       -82.37       2,961.0       -711.8       3,855.3       3,797.4       57.96       66.369         8,700.0       8,504.8       7,734.9       7,676.9       33.9       29.0       -81.72       2,963.8       -712.1       3,863.7       3,805.6       58.07       66.536         8,750.0       8,544.9       8,800.0       7,803.4       33.8       29.1       -81.45       2,972.1	8,350.0	8,256.3	7,626.0	7,570.0	33.8	28.5	-86.44	2,943.7	-710.7	3,806.1	3,748.6	57.55	66.141		
8,500.0 8,380.6 7,683.3 7,626.4 33.9 28.7 -84.46 2,953.6 -711.2 3,830.2 3,772.4 57.8 66.290  8,550.0 8,416.6 7,721.0 7,663.4 33.9 28.9 -84.04 2,961.0 -711.8 3,838.8 3,780.8 57.99 66.201  8,600.0 8,449.5 7,721.0 7,663.4 33.9 28.9 -83.21 2,961.0 -711.8 3,847.0 3,789.0 57.96 66.369  8,650.0 8,479.0 7,721.0 7,663.4 33.9 28.9 -82.37 2,961.0 -711.8 3,855.3 3,797.4 57.96 66.520  8,700.0 8,504.8 7,734.9 7,676.9 33.9 29.0 -81.72 2,963.8 -712.1 3,863.7 3,805.6 58.07 66.536  8,750.0 8,526.9 7,775.9 7,717.2 33.8 29.1 -81.45 2,972.1 -713.0 3,871.9 3,813.5 58.40 66.305  8,800.0 8,544.9 8,800.0 7,803.4 33.8 33.6 -81.90 2,988.5 -715.1 3,879.6 3,817.1 62.56 62.012  8,850.0 8,558.8 8,850.0 7,815.7 33.8 33.8 -81.31 2,990.8 -715.4 3,887.3 3,824.4 62.91 61.793  8,900.0 8,568.4 7,912.0 7,850.8 33.7 29.7 -81.07 2,997.2 -716.2 3,905.1 3,835.4 59.66 65.202  8,986.5 8,575.0 7,912.0 7,850.8 33.7 29.7 -80.32 2,997.2 -716.2 3,902.6 3,842.8 59.86 65.201  8,986.5 8,575.0 7,912.0 7,850.8 33.7 29.7 -79.77 2,997.2 -716.2 3,902.6 3,842.8 59.86 65.201  8,986.5 8,575.0 7,912.0 7,850.8 33.7 29.7 -79.77 2,997.2 -716.2 3,908.1 3,848.1 60.02 65.111	8,400.0	8,300.1	7,656.7	7,600.2	33.9	28.6	-85.86	2,948.8	-710.9	3,813.9	3,756.2	57.70	66.102		
8,550.0 8,416.6 7,721.0 7,663.4 33.9 28.9 -84.04 2,961.0 -711.8 3,838.8 3,780.8 57.99 66.201 8,600.0 8,449.5 7,721.0 7,663.4 33.9 28.9 -83.21 2,961.0 -711.8 3,847.0 3,789.0 57.96 66.369 8,650.0 8,479.0 7,721.0 7,663.4 33.9 28.9 -82.37 2,961.0 -711.8 3,855.3 3,797.4 57.96 66.520 8,700.0 8,504.8 7,734.9 7,676.9 33.9 29.0 -81.72 2,963.8 -712.1 3,863.7 3,805.6 58.07 66.536 8,750.0 8,526.9 7,775.9 7,717.2 33.8 29.1 -81.45 2,972.1 -713.0 3,871.9 3,813.5 58.40 66.305 8,800.0 8,544.9 8,800.0 7,803.4 33.8 33.6 -81.90 2,988.5 -715.1 3,879.6 3,817.1 62.56 62.012 8,850.0 8,558.8 8,850.0 7,815.7 33.8 33.8 -81.31 2,990.8 -715.4 3,887.3 3,824.4 62.91 61.793 8,900.0 8,568.4 7,912.0 7,850.8 33.7 29.7 -81.07 2,997.2 -716.2 3,905.1 3,835.4 59.66 65.292 8,950.0 8,573.8 7,912.0 7,850.8 33.7 29.7 -80.32 2,997.2 -716.2 3,902.6 3,842.8 59.86 65.201 8,986.5 8,575.0 7,912.0 7,850.8 33.7 29.7 -79.77 2,997.2 -716.2 3,902.6 3,842.8 59.86 65.201 8,986.5 8,575.0 7,912.0 7,850.8 33.7 29.7 -79.77 2,997.2 -716.2 3,902.6 3,842.8 59.86 65.201 8,986.5 8,575.0 7,912.0 7,850.8 33.7 29.7 -79.77 2,997.2 -716.2 3,902.6 3,842.8 59.86 65.201 8,986.5 8,575.0 7,912.0 7,850.8 33.7 29.7 -79.77 2,997.2 -716.2 3,902.6 3,842.8 59.86 65.201		8,341.6	7,670.4	7,613.8	33.9	28.7	-85.17	2,951.3	-711.0	3,822.0	3,764.3	57.74	66.192		
8,600.0 8,449.5 7,721.0 7,663.4 33.9 28.9 -83.21 2,961.0 -711.8 3,847.0 3,789.0 57.96 66.369 8,650.0 8,479.0 7,721.0 7,663.4 33.9 28.9 -82.37 2,961.0 -711.8 3,855.3 3,797.4 57.96 66.520 8,700.0 8,504.8 7,734.9 7,676.9 33.9 29.0 -81.72 2,963.8 -712.1 3,863.7 3,805.6 58.07 66.536 8,750.0 8,526.9 7,775.9 7,717.2 33.8 29.1 -81.45 2,972.1 -713.0 3,871.9 3,813.5 58.40 66.305  8,800.0 8,544.9 8,800.0 7,803.4 33.8 33.6 -81.90 2,988.5 -715.1 3,879.6 3,817.1 62.56 62.012 8,850.0 8,558.8 8,850.0 7,815.7 33.8 33.8 -81.31 2,990.8 -715.4 3,887.3 3,824.4 62.91 61.793 8,900.0 8,568.4 7,912.0 7,850.8 33.7 29.7 -81.07 2,997.2 -716.2 3,895.1 3,835.4 59.66 65.292 8,950.0 8,573.8 7,912.0 7,850.8 33.7 29.7 -80.32 2,997.2 -716.2 3,902.6 3,842.8 59.86 65.201 8,986.5 8,575.0 7,912.0 7,850.8 33.7 29.7 -79.77 2,997.2 -716.2 3,908.1 3,848.1 60.02 65.111	8,500.0	8,380.6	7,683.3	7,626.4	33.9	28.7	-84.46	2,953.6	-711.2	3,830.2	3,772.4	57.78	66.290		
8,650.0       8,479.0       7,721.0       7,663.4       33.9       28.9       -82.37       2,961.0       -711.8       3,855.3       3,797.4       57.96       66.520         8,700.0       8,504.8       7,734.9       7,676.9       33.9       29.0       -81.72       2,963.8       -712.1       3,863.7       3,805.6       58.07       66.536         8,750.0       8,526.9       7,775.9       7,717.2       33.8       29.1       -81.45       2,972.1       -713.0       3,871.9       3,813.5       58.40       66.305         8,800.0       8,544.9       8,800.0       7,803.4       33.8       33.6       -81.90       2,988.5       -715.1       3,879.6       3,817.1       62.56       62.012         8,850.0       8,558.8       8,850.0       7,815.7       33.8       33.8       -81.31       2,990.8       -715.4       3,887.3       3,824.4       62.91       61.793         8,900.0       8,568.4       7,912.0       7,850.8       33.7       29.7       -81.07       2,997.2       -716.2       3,895.1       3,835.4       59.66       65.292         8,950.0       8,573.8       7,912.0       7,850.8       33.7       29.7       -80.32       2,997.2		8,416.6				28.9	-84.04	2,961.0		3,838.8	3,780.8	57.99			
8,700.0       8,504.8       7,734.9       7,676.9       33.9       29.0       -81.72       2,963.8       -712.1       3,863.7       3,805.6       58.07       66.536         8,750.0       8,526.9       7,775.9       7,717.2       33.8       29.1       -81.45       2,972.1       -713.0       3,871.9       3,813.5       58.40       66.305         8,800.0       8,544.9       8,800.0       7,803.4       33.8       33.6       -81.90       2,988.5       -715.1       3,879.6       3,817.1       62.56       62.012         8,850.0       8,558.8       8,850.0       7,815.7       33.8       33.8       -81.31       2,990.8       -715.4       3,887.3       3,824.4       62.91       61.793         8,900.0       8,568.4       7,912.0       7,850.8       33.7       29.7       -81.07       2,997.2       -716.2       3,895.1       3,835.4       59.66       65.292         8,950.0       8,573.8       7,912.0       7,850.8       33.7       29.7       -80.32       2,997.2       -716.2       3,902.6       3,842.8       59.86       65.201         8,986.5       8,575.0       7,912.0       7,850.8       33.7       29.7       -79.77       2,997.2															
8,750.0       8,526.9       7,775.9       7,717.2       33.8       29.1       -81.45       2,972.1       -713.0       3,871.9       3,813.5       58.40       66.305         8,800.0       8,544.9       8,800.0       7,803.4       33.8       33.6       -81.90       2,988.5       -715.1       3,879.6       3,817.1       62.56       62.012         8,850.0       8,558.8       8,850.0       7,815.7       33.8       33.8       -81.31       2,990.8       -715.4       3,887.3       3,824.4       62.91       61.793         8,900.0       8,568.4       7,912.0       7,850.8       33.7       29.7       -80.32       2,997.2       -716.2       3,895.1       3,835.4       59.66       65.292         8,950.0       8,573.8       7,912.0       7,850.8       33.7       29.7       -80.32       2,997.2       -716.2       3,902.6       3,842.8       59.86       65.201         8,986.5       8,575.0       7,912.0       7,850.8       33.7       29.7       -79.77       2,997.2       -716.2       3,908.1       3,848.1       60.02       65.111															
8,800.0 8,544.9 8,800.0 7,803.4 33.8 33.6 -81.90 2,988.5 -715.1 3,879.6 3,817.1 62.56 62.012 8,850.0 8,558.8 8,850.0 7,815.7 33.8 33.8 -81.31 2,990.8 -715.4 3,887.3 3,824.4 62.91 61.793 8,900.0 8,568.4 7,912.0 7,850.8 33.7 29.7 -81.07 2,997.2 -716.2 3,895.1 3,835.4 59.66 65.292 8,950.0 8,573.8 7,912.0 7,850.8 33.7 29.7 -80.32 2,997.2 -716.2 3,902.6 3,842.8 59.86 65.201 8,986.5 8,575.0 7,912.0 7,850.8 33.7 29.7 -79.77 2,997.2 -716.2 3,908.1 3,848.1 60.02 65.111															
8,850.0       8,558.8       8,850.0       7,815.7       33.8       33.8       -81.31       2,990.8       -715.4       3,887.3       3,824.4       62.91       61.793         8,900.0       8,568.4       7,912.0       7,850.8       33.7       29.7       -81.07       2,997.2       -716.2       3,895.1       3,835.4       59.66       65.292         8,950.0       8,573.8       7,912.0       7,850.8       33.7       29.7       -80.32       2,997.2       -716.2       3,902.6       3,842.8       59.86       65.201         8,986.5       8,575.0       7,912.0       7,850.8       33.7       29.7       -79.77       2,997.2       -716.2       3,908.1       3,848.1       60.02       65.111															
8,900.0     8,568.4     7,912.0     7,850.8     33.7     29.7     -81.07     2,997.2     -716.2     3,895.1     3,835.4     59.66     65.292       8,950.0     8,573.8     7,912.0     7,850.8     33.7     29.7     -80.32     2,997.2     -716.2     3,902.6     3,842.8     59.86     65.201       8,986.5     8,575.0     7,912.0     7,850.8     33.7     29.7     -79.77     2,997.2     -716.2     3,908.1     3,848.1     60.02     65.111															
8,950.0     8,573.8     7,912.0     7,850.8     33.7     29.7     -80.32     2,997.2     -716.2     3,902.6     3,842.8     59.86     65.201       8,986.5     8,575.0     7,912.0     7,850.8     33.7     29.7     -79.77     2,997.2     -716.2     3,908.1     3,848.1     60.02     65.111															
8,986.5 8,575.0 7,912.0 7,850.8 33.7 29.7 -79.77 2,997.2 -716.2 3,908.1 3,848.1 60.02 65.111															
	8,993.2	8,575.0	7,912.0	7,850.8	33.8	29.7	-79.77	2,997.2	-716.2	3,909.1	3,849.0	60.05	65.093		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Well Simon Camamile Fed Com #126H

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

Offset Des	sign	Simon C	Camamile	Fed Com -	Simon C	amamile Fed	d Com #203H	- Wellbore	#1 - Actua	I			Offset Site Error:	0.0 usf
Survey Progr Refere		-MWD Offse		Semi Major	Avia				Dista				Offset Well Error:	0.0 usf
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	warming	
9,000.0	8,575.0	7,912.0	7,850.8	33.8	29.7	-79.77	2,997.2	-716.2	3,910.1	3,850.0	60.09	65.074		
9,100.0	8,575.0	7,912.0	7,850.8	33.9	29.7	-79.77	2,997.2	-716.2	3,926.8	3,866.1	60.66	64.738		
9,200.0	8,575.0	7,912.0	7,850.8	34.4	29.7	-79.77	2,997.2	-716.2	3,945.9	3,884.5	61.36	64.310		
9,300.0	8,575.0	9,300.0	7,821.2	35.3	35.8	-79.32	2,991.8	-715.5	3,967.3	3,900.0	67.29	58.955		
9,400.0	8,575.0	9,400.0	7,818.9	36.3	36.2	-79.29	2,991.4	-715.4	3,991.2	3,922.6	68.58	58.194		
9,500.0	8,575.0	9,500.0	7,816.6	37.6	36.6	-79.25	2,990.9	-715.4	4,017.5	3,947.5	69.96	57.422		
9,600.0	8,575.0	9,600.0	7,814.3	38.9	37.1	-79.22	2,990.5	-715.3	4,046.0	3,974.6	71.42	56.653		
9,700.0	8,575.0	9,700.0	7,812.0	40.4	37.5	-79.19	2,990.1	-715.3	4,076.8	4,003.9	72.93	55.899		
9,800.0	8,575.0	9,800.0	7,809.7	41.9	37.9	-79.15	2,989.7	-715.2	4,109.8	4,035.3	74.49	55.170		
9,900.0	8,575.0	10,990.8	9,755.3	43.6	48.4	-107.16	3,142.0	727.5	4,129.5	4,041.7	87.85	47.008		
10,000.0	8,575.0	11,090.5	9,759.5	45.3	50.1	-107.22	3,142.4	827.1	4,131.0	4,039.9	91.10	45.347		
10,100.0	8,575.0	11,140.0	9,761.6	47.0	51.0	-107.24	3,142.7	876.6	4,132.9	4,039.3	93.63	44.141		
10,200.0	8,575.0	11,201.0	9,764.5	48.9	52.1	-107.27	3,144.3	937.5	4,136.4	4,040.0	96.41	42.905		
10,300.0	8,575.0	11,304.3	9,770.1	50.8	54.0	-107.34	3,147.1	1,040.6	4,140.6	4,040.6	100.00	41.407		
10,400.0	8,575.0	11,424.3	9,775.8	52.7	56.2	-107.40	3,149.4	1,160.4	4,143.6	4,039.6	103.99	39.847		
10,500.0	8,575.0	11,614.5	9,781.2	54.7	59.9	-107.46	3,152.7	1,350.5	4,146.5	4,037.1	109.39	37.906		
10,600.0	8,575.0	11,738.7	9,779.8	56.7	62.4	-107.44	3,153.8	1,474.6	4,146.8	4,033.1	113.70	36.472		
10,700.0	8,575.0	12,020.6	9,778.1	58.7	68.2	-107.43	3,150.7	1,756.5	4,146.6	4,025.5	121.09	34.244		
10,800.0	8,575.0	12,062.0	9,777.9	60.8	69.1	-107.44	3,149.4	1,797.8	4,143.2	4,019.2	123.97	33.420		
10,900.0	8,575.0	12,117.1	9,779.3	62.9	70.2	-107.46	3,147.7	1,852.8	4,141.0	4,013.9	127.13	32.573		
11,000.0	8,575.0	12,182.6	9,783.4	65.0	71.6	-107.52	3,145.8	1,918.2	4,139.9	4,009.4	130.49	31.725		
11,100.0	8,575.0	12,254.0	9,788.8	67.1	73.2	-107.60	3,143.6	1,989.4	4,139.2	4,005.3	133.98	30.895		
11,103.6	8,575.0	12,254.0	9,788.8	67.2	73.2	-107.60	3,143.6	1,989.4	4,139.2	4,005.2	134.05	30.877		
11,200.0	8,575.0	12,298.1	9,792.4	69.3	74.1	-107.65	3,142.7	2,033.3	4,139.7	4,002.8	136.94	30.229		
11,300.0	8,575.0	12,349.0	9,796.6	71.5	75.2	-107.71	3,142.7	2,084.0	4,141.8	4,001.8	140.04	29.576		
11,400.0	8,575.0	12,378.5	9,799.2	73.7	75.8	-107.74	3,143.1	2,113.4	4,145.3	4,002.6	142.70	29.049		
11,500.0	8,575.0	12,445.0	9,805.2	75.9	77.3	-107.82	3,144.6	2,179.6	4,150.1	4,004.0	146.12	28.402		
11,600.0	8,575.0	12,493.4	9,809.9	78.2	78.4	-107.87	3,146.2	2,227.8	4,155.8	4,006.7	149.15	27.862		
11,700.0	8,575.0	12,578.2	9,818.0	80.4	80.2	-107.96	3,149.5	2,312.1	4,162.4	4,009.4	152.98	27.209		
11,800.0	8,575.0	11,800.0	9,828.0	82.7	62.9	-108.06	3,158.4	2,507.9	4,168.6	4,030.0	138.51	30.096		
11,900.0	8,575.0	13,065.4	9,820.6	84.9	91.1	-107.93	3,166.7	2,798.4	4,170.0	4,002.1	167.89	24.838		
11,982.1	8,575.0	13,134.7	9,818.6	86.8	92.6	-107.90	3,167.2	2,867.8	4,169.8	3,998.6	171.21	24.355		
12,000.0	8,575.0	13,144.5	9,818.5	87.2	92.9	-107.90	3,167.2	2,877.5	4,169.8	3,998.0	171.81	24.269		
12,100.0	8,575.0	13,211.0	9,819.0	89.5	94.4	-107.90	3,167.7	2,944.1	4,170.6	3,995.1	175.45	23.771		
12,200.0	8,575.0	13,310.7	9,822.3	91.8	96.6	-107.94	3,168.1	3,043.7	4,171.9	3,992.1	179.78	23.205		
12,300.0	8,575.0	13,433.9	9,825.1	94.1	99.5	-107.98	3,168.1	3,166.8	4,172.4	3,987.7	184.65	22.597		
12,400.0	8,575.0	13,521.1	9,826.0	96.4	101.5	-107.99	3,168.5	3,254.0	4,173.0	3,984.2	188.76	22.107		
12,500.0	8,575.0	13,628.1	9,827.7	98.7	103.9	-108.01	3,169.0	3,361.1	4,173.8	3,980.5	193.32	21.590		
12,600.0	8,575.0	13,717.3	9,828.8	101.0	106.0	-108.03	3,169.2	3,450.2	4,174.4	3,976.9	197.50	21.136		
12,700.0	8,575.0	13,785.5	9,829.3	103.4	107.6	-108.03	3,170.0	3,518.4	4,175.6	3,974.4	201.23	20.751		
12,800.0	8,575.0	13,845.0	9,830.4	105.7	108.9	-108.04	3,170.9	3,577.9	4,177.6	3,972.9	204.75	20.404		
12,900.0	8,575.0	13,893.3	9,832.2	108.0	110.1	-108.06	3,172.0	3,626.2	4,180.8	3,972.8	207.98	20.102		
13,000.0	8,575.0	13,950.1	9,835.2	110.4	111.4	-108.09	3,173.8	3,682.9	4,185.3	3,973.9	211.39	19.799		
13,100.0	8,575.0	14,233.7	9,845.5	112.7	118.0	-108.20	3,179.6	3,966.2	4,188.7	3,968.8	219.97	19.042		
13,200.0	8,575.0	13,200.0	9,846.6	115.1	93.8	-108.23	3,177.8	4,187.7	4,188.4	3,989.6	198.78	21.070		
13,300.0	8,575.0	14,542.9	9,845.2	117.5	125.2	-108.22	3,175.8	4,275.2	4,185.6	3,954.3	231.30	18.096		
13,400.0	8,575.0	14,595.0	9,845.6	119.8	126.5	-108.23	3,175.3	4,327.3	4,184.5	3,949.7	234.78	17.823		
13,500.0	8,575.0	13,500.0	9,846.5	122.2	100.7	-108.24	3,174.7	4,401.9	4,184.0	3,971.7	212.32	19.707		
13,600.0	8,575.0	14,766.5	9,846.7	124.6	130.5	-108.25	3,174.1	4,498.9	4,183.3	3,940.1	243.17	17.203		
13,633.6	8,575.0	14,787.0	9,846.7	125.4	131.0	-108.25	3,174.0	4,519.3	4,183.2	3,938.8	244.40	17.117		
13,700.0	8,575.0	14,821.1	9,847.0	126.9	131.8	-108.25	3,174.1	4,553.5	4,183.5	3,936.8	246.67	16.960		
13,800.0	8,575.0	14,882.0	9,848.8	129.3	133.2	-108.27	3,174.5	4,614.3	4,184.9	3,934.6	250.28	16.721		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Offset Des	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #203H	- Wellbore	#1 - Actua	I			Offset Site Error:	0.0 usft
Survey Progr		-MWD		0	A! -				Blots				Offset Well Error:	0.0 usft
Refere Measured	ence Vertical	Offse Measured	t Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	e Centre	Dista Between	ance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	warming	
13,900.0	8,575.0	14,979.3	9,852.5	131.7	135.5	-108.32	3,175.5	4,711.5	4,186.9	3,932.2	254.69	16.439		
14,000.0	8,575.0	15,361.0	9,849.1	134.1	144.6	-108.31	3,168.3	5,092.8	4,183.0	3,917.8	265.25	15.770		
14,100.0	8,575.0	15,396.5	9,847.9	136.4	145.4	-108.29	3,167.2	5,128.2	4,178.9	3,910.4	268.53	15.562		
14,200.0	8,575.0	15,456.0	9,847.2	138.8	146.8	-108.29	3,166.0	5,187.7	4,176.2	3,904.0	272.26	15.339		
14,300.0	8,575.0	15,487.5	9,847.3	141.2	147.6	-108.29	3,165.5	5,219.2	4,174.7	3,899.4	275.34	15.162		
14,360.8	8,575.0	15,514.8	9,847.7	142.7	148.2	-108.30	3,165.3	5,246.6	4,174.5	3,897.1	277.36	15.050		
14,400.0	8,575.0	15,552.0	9,848.5	143.6	149.1	-108.31	3,165.3	5,283.7	4,174.7	3,895.6	279.09	14.958		
14,500.0	8,575.0	15,591.5	9,849.6	146.0	150.1	-108.32	3,165.5	5,323.2	4,175.6	3,893.4	282.24	14.794		
14,600.0	8,575.0	15,671.8	9,852.0	148.4	152.0	-108.35	3,166.4	5,403.5	4,177.5	3,891.2	286.30	14.591		
14,700.0	8,575.0	15,784.1	9,853.7	150.8	154.7	-108.37	3,168.0	5,515.7	4,179.2	3,888.1	291.14	14.355		
14,800.0	8,575.0	16,017.0	9,857.3	153.2	160.2	-108.42	3,166.9	5,748.6	4,178.9	3,880.3	298.62	13.994		
14,900.0	8,575.0	16,110.9	9,858.5	155.6	162.5	-108.44	3,165.2	5,842.5	4,177.4	3,874.4	303.03	13.786		
15,000.0	8,575.0	16,220.2	9,860.3	158.0	165.1	-108.48	3,163.0	5,951.8	4,176.0	3,868.2	307.76	13.569		
15,100.0	8,575.0	16,325.3	9,862.3	160.4	167.6	-108.51	3,160.6	6,056.8	4,174.4	3,862.0	312.39	13.363		
15,200.0	8,575.0	16,425.9	9,864.7	162.8	170.0	-108.56	3,158.1	6,157.3	4,172.6	3,855.7	316.92	13.166		
15,300.0	8,575.0	16,501.3	9,866.2	165.2	171.8	-108.58	3,156.6	6,232.7	4,171.2	3,850.2	320.93	12.997		
15,400.0	8,575.0	16,577.5	9,867.1	167.6	173.7	-108.60	3,155.6	6,308.8	4,170.3	3,845.4	324.96	12.833		
15,500.0	8,575.0	16,715.5	9,868.6	170.0	177.0	-108.63	3,154.1	6,446.9	4,169.6	3,839.2	330.34	12.622		
15,600.0	8,575.0	16,816.2	9,868.6	172.5	179.4	-108.63	3,152.4	6,547.5	4,167.9	3,832.9	334.93	12.444		
15,700.0	8,575.0	16,867.3	9,868.5	174.9	180.6	-108.64	3,152.0	6,598.6	4,167.0	3,828.5	338.45	12.312		
15,800.0	8,575.0	16,986.2	9,867.5	177.3	183.5	-108.62	3,152.2	6,717.6	4,166.8	3,823.3	343.49	12.131		
15,885.3	8,575.0	17,039.7	9,866.8	179.3	184.8	-108.61	3,152.3	6,771.1	4,166.5	3,819.8	346.72	12.017		
15,900.0	8,575.0	17,049.0	9,866.7	179.7	185.0	-108.61	3,152.3	6,780.3	4,166.5	3,819.2	347.27	11.998		
16,000.0	8,575.0	17,116.6	9,867.1	182.1	186.6	-108.62	3,152.7	6,847.9	4,167.0	3,815.9	351.11	11.868		
16,100.0	8,575.0	17,190.3	9,868.4	184.5	188.4	-108.63	3,153.3	6,921.6	4,168.3	3,813.2	355.06	11.740		
16,200.0	8,575.0	17,269.2	9,870.6	187.0	190.3	-108.66	3,154.1	7,000.4	4,170.1	3,811.0	359.10	11.613		
16,300.0	8,575.0	17,356.0	9,873.7	189.4	192.4	-108.69	3,155.2	7,087.2	4,172.3	3,809.0	363.31	11.484		
16,400.0	8,575.0	17,446.4	9,877.7	191.8	194.6	-108.74	3,156.3	7,177.5	4,174.8	3,807.2	367.58	11.357		
16,500.0	8,575.0	17,784.5	9,882.8	194.2	202.8	-108.82	3,153.7	7,515.5	4,174.2	3,796.8	377.39	11.061		
16,600.0 16,700.0	8,575.0 8,575.0	17,848.0 17,902.3	9,882.7 9,882.7	196.6 199.1	204.3 205.6	-108.83 -108.83	3,152.0 3,151.1	7,578.9 7,633.3	4,171.5 4,169.8	3,790.2 3,784.9	381.24 384.86	10.942 10.834		
16,800.0	8,575.0	17,944.0	9,882.6	201.5	206.6	-108.83	3,150.9	7,674.9	4,169.2	3,781.1	388.17	10.741		
16,804.5	8,575.0	17,959.3	9,882.6	201.6	200.0	-108.83	3,150.9	7,690.2	4,169.2	3,780.6	388.62	10.741		
16,900.0	8,575.0	18,017.6	9,882.6	203.9	208.4	-108.83	3,151.2	7,748.6	4,169.6	3,777.5	392.16	10.720		
17,000.0	8,575.0	18,070.7	9,883.0	206.3	209.7	-108.83	3,151.9	7,801.7	4,171.0	3,775.4	395.64	10.543		
17,100.0	8,575.0	18,135.0	9,884.8	208.8	211.2	-108.85	3,153.3	7,865.9	4,173.7	3,774.4	399.31	10.452		
17,200.0	8,575.0	18,195.0	9,887.2	211.2	212.7	-108.87	3,154.9	7,925.8	4,177.3	3,774.5	402.83	10.370		
17,300.0	8,575.0	18,453.2	9,894.5	213.6	218.9	-108.95	3,158.9	8,183.9	4,180.2	3,769.0	411.16	10.167		
17,400.0	8,575.0	18,680.9	9,894.3	216.0	224.4	-108.97	3,155.2	8,411.5	4,178.2	3,759.7	418.47	9.984		
17,500.0	8,575.0	18,739.0	9,894.4	218.5	225.9	-108.97	3,153.7	8,469.6	4,175.7	3,753.5	422.22	9.890		
17,600.0	8,575.0	18,805.0	9,895.6	220.9	227.5	-109.00	3,152.3	8,535.5	4,174.2	3,748.1	426.06	9.797		
17,689.5	8,575.0	18,844.7	9,896.9	223.1	228.4	-109.01	3,151.8	8,575.2	4,173.7	3,744.7	429.04	9.728		
17,700.0	8,575.0	18,850.2	9,897.0	223.3	228.5	-109.02	3,151.7	8,580.7	4,173.7	3,744.3	429.41	9.720		
17,800.0	8,575.0	18,907.0	9,899.4	225.8	229.9	-109.05	3,151.4	8,637.4	4,174.4	3,741.5	432.93	9.642		
17,900.0	8,575.0	19,051.6	9,902.4	228.2	233.4	-109.09	3,151.2	8,782.0	4,174.8	3,736.3	438.50	9.521		
18,000.0	8,575.0	19,136.7	9,902.9	230.6	235.5	-109.10	3,151.3	8,867.1	4,175.0	3,732.2	442.76	9.429		
18,100.0	8,575.0	19,212.1	9,903.3	233.0	237.3	-109.10	3,151.9	8,942.5	4,175.7	3,729.0	446.79	9.346		
18,200.0	8,575.0	19,292.6	9,904.0	235.5	239.3	-109.11	3,152.8	9,023.0	4,177.0	3,726.1	450.92	9.263		
18,300.0	8,575.0	19,368.0	9,905.2	237.9	241.1	-109.12	3,153.9	9,098.3	4,178.8	3,723.9	454.90	9.186		
18,400.0	8,575.0	19,442.7	9,906.7	240.3	242.9	-109.13	3,155.4	9,173.0	4,181.2	3,722.3	458.85	9.112		
18,500.0	8,575.0	19,511.4	9,908.3	242.8	244.6	-109.14	3,157.1	9,241.7	4,184.2	3,721.6	462.61	9.045		
18,600.0	8,575.0	19,582.5	9,910.3	245.2	246.3	-109.16	3,159.4	9,312.8	4,188.1	3,721.7	466.41	8.979		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

Well Simon Camamile Fed Com #126H

Offset De	•		Camamile	Fed Com -	Simon C	amamile Fe	d Com #203H	- Wellbore	#1 - Actua				Offset Site Error:	0.0 u
urvey Progr		-MWD		0	A!-				Di-4-				Offset Well Error:	0.0 u
Refer		Offse		Semi Major		I II ada a tala	064-18-111		Dista			0		
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
18,700.0	8,575.0	19.776.0	9,912.0	247.6	251.0	-109.15	3,165.4	9,506.1	4,191.3	3,717.8	473.47	8.852		
18,800.0	8,575.0	19,860.7	9,911.1	250.1	253.1	-109.13	3,167.8	9,590.7	4,193.5	3,715.7	477.76	8.777		
18,900.0	8,575.0	19,943.0	9,910.8	252.5	255.1	-109.12	3,170.2	9,673.1	4,196.0	3,714.0	481.97	8.706		
19,000.0	8,575.0	20,043.5	9,911.2	255.0	257.5	-109.11	3,173.0	9,773.5	4,198.7	3,712.1	486.62	8.628		
19,100.0	8,575.0	20,151.1	9,912.1	257.4	260.1	-109.11	3,175.8	9,881.0	4,201.3	3,709.8	491.43	8.549		
19,200.0	8,575.0	20,377.5	9,914.1	259.8	265.6	-109.13	3,178.3	10,107.4	4,202.8	3,703.7	499.04	8.422		
19,300.0	8,575.0	20,556.4	9,913.7	262.3	270.0	-109.13	3,175.9	10,286.3	4,201.4	3,696.1	505.31	8.314		
19,400.0	8,575.0	20,624.0	9,913.8	264.7	271.6	-109.14	3,174.8	10,353.9	4,199.6	3,690.4	509.26	8.246		
19,500.0	8,575.0	20,749.6	9,913.4	267.1	274.7	-109.15	3,172.6	10,479.4	4,197.8	3,683.4	514.40	8.161		
19,600.0	8,575.0	20,815.0	9,912.8	269.6	276.3	-109.14	3,171.6	10,544.8	4,195.9	3,677.6	518.33	8.095		
19,687.8	8,575.0	20,815.0	9,912.8	271.7	276.3	-109.14	3,171.6	10,544.8	4,195.6	3,675.2	520.42	8.062		
19,700.0	8,575.0	20,846.5	9,913.0	272.0	277.0	-109.15	3,171.3	10,576.4	4,195.3	3,673.9	521.43	8.046		
19,800.0	8,575.0	20,875.2	9,913.9	274.5	277.7	-109.16	3,171.4	10,605.0	4,196.4	3,672.1	524.31	8.004		
19,900.0	8,575.0	19,900.0	9,918.1	276.9	254.0	-109.21	3,172.2	10,683.9	4,198.9	3,695.1	503.90	8.333		
20,000.0	8,575.0	21,100.1	9,924.3	279.3	283.2	-109.29	3,172.6	10,829.7	4,200.4	3,666.6	533.80	7.869		
20,100.0	8,575.0	21,188.7	9,928.3	281.8	285.4	-109.34	3,172.7	10,918.2	4,201.8	3,663.8	538.00	7.810		
20,200.0	8,575.0	21,256.7	9,932.0	284.2	287.0	-109.39	3,172.9	10,986.0	4,203.8	3,662.1	541.67	7.761		
20,300.0	8,575.0	20,300.0	9,945.4	286.6	263.7	-109.58	3,168.3	11,284.7	4,203.6	3,682.4	521.21	8.065		
20,400.0	8,575.0	21,731.9	9,939.0	289.1	298.6	-109.52	3,163.9	11,460.6	4,199.6	3,643.1	556.48	7.547		
20,500.0	8,575.0	21,795.5	9,936.3	291.5	300.1	-109.49	3,162.3	11,524.1	4,195.7	3,635.2	560.53	7.485		
20,600.0	8,575.0	21,838.3	9,935.3	294.0	301.2	-109.48	3,161.5	11,566.9	4,193.1	3,629.0	564.07	7.434		
20,700.0	8,575.0	21,899.5	9,935.3	296.4	302.7	-109.49	3,160.7	11,628.1	4,191.8	3,623.9	567.88	7.381		
20,800.0	8,575.0	22,010.5	9,936.5	298.9	305.4	-109.51	3,159.2	11,739.0	4,190.7	3,618.0	572.67	7.318		
20,900.0	8,575.0	22,143.4	9,935.6	301.3	308.6	-109.51	3,157.2	11,871.9	4,188.9	3,610.9	577.98	7.248		
21,000.0	8,575.0	22,176.0	9,935.3	303.7	309.4	-109.51	3,156.6	11,904.5	4,187.4	3,606.2	581.18	7.205		
21,018.8	8,575.0	22,176.0	9,935.3	304.2	309.4	-109.51	3,156.6	11,904.5	4,187.4	3,605.7	581.63	7.199		
21,100.0	8,575.0	22,176.0	9,935.3	306.2	309.4	-109.51	3,156.6	11,904.5	4,188.2	3,604.7	583.42	7.179		
21,200.0	8,575.0	22,176.0	9,935.3	308.6	309.4	-109.51	3,156.6	11,904.5	4,191.3	3,606.0	585.32	7.161		
21,213.6	8,575.0	22,176.0	9,935.3	309.0	309.4	-109.51	3,156.6	11,904.5	4,191.9	3,606.3	585.56	7.159 SI	=	

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com

Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Well Simon Camamile Fed Com #126H

Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #204H	- Wellbore	#1 - Actua	ı			Offset Site Error:	0.0 usft
Survey Prog	_	-MWD											Offset Well Error:	0.0 usft
Refer		Offset		Semi Major					Dista					
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor	re Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.0	0.0	0.0	0.0	0.0	0.0	-14.33	2,279.5	-582.4	2,353.0					
100.0	100.0	58.5	58.5	0.1	0.1	-14.33	2,279.5	-582.3	2,352.7	2,352.5	0.22	N/A		
200.0	200.0	152.9	152.9	0.5	0.2	-14.32	2,279.8	-582.1	2,353.0	2,352.3	0.71	3,298.314		
300.0	300.0	253.4	253.4	8.0	0.6	-14.30	2,280.6	-581.4	2,353.6	2,352.2	1.41	1,670.886		
400.0	400.0	413.7	413.5	1.2	1.1	-14.17	2,280.5	-575.7	2,352.7	2,350.3	2.35	1,002.556		
476.6	476.6	438.8	438.6	1.5	1.2	-14.14	2,280.7	-574.4	2,351.9	2,349.2	2.71	868.874 CC		
500.0	500.0	448.0	447.8	1.6	1.3	-14.12	2,280.9	-573.8	2,352.0	2,349.2	2.82	832.776 ES		
600.0	600.0	498.0	497.7	1.9	1.4	-14.04	2,282.7	-571.0	2,353.9	2,350.6	3.37	698.814		
700.0	700.0	560.4	559.9	2.3	1.7	-13.93	2,286.4	-567.0	2,357.8	2,353.9	3.96	595.046		
800.0	800.0	642.5	641.6	2.6	2.0	-13.76	2,291.8	-561.1	2,362.5	2,357.9	4.63	510.422		
900.0	900.0	792.2	790.5	3.0	2.6	-13.43	2,301.5	-549.8	2,367.3	2,361.8	5.55	426.649		
1,000.0	1,000.0	1,000.0	1,014.4	3.4	3.3	-13.27	2,302.8	-542.9	2,366.5	2,359.9	6.64	356.414		
1,100.0	1,100.0	1,227.6	1,225.3	3.7	4.0	125.95	2,291.0	-545.5	2,362.0	2,354.3	7.72	306.151		
1,200.0	1,199.7	1,310.2	1,307.7	4.0	4.3	126.01	2,284.9	-548.5	2,359.4	2,351.1	8.32	283.663		
1,235.0	1,234.6	1,341.3	1,338.7	4.2	4.4	126.03	2,282.6	-549.7	2,359.2	2,350.7	8.54	276.234		
1,300.0	1,299.1	1,399.0	1,396.2	4.4	4.6	126.07	2,278.6	-552.0	2,359.8	2,350.9	8.95	263.548		
1,372.0	1,370.4	1,462.4	1,459.3	4.6	4.8	126.13	2,274.5	-554.3	2,362.1	2,352.6	9.42	250.685		
1,400.0	1,398.0	1,487.0	1,483.9	4.7	4.9	126.18	2,272.9	-555.1	2,363.3	2,353.7	9.61	246.017		
1,500.0	1,496.7	1,583.3	1,580.0	5.1	5.2	126.39	2,267.2	-558.0	2,367.7	2,357.4	10.30	229.900		
1,600.0	1,595.4	1,600.0	1,765.8	5.5	5.3	126.79	2,253.8	-563.0	2,371.4	2,360.7	10.71	221.449		
1,700.0	1,694.1	1,914.0	1,909.1	5.9	6.4	127.03	2,237.2	-568.0	2,370.3	2,358.2	12.17	194.750		
4 747 0	4 744 0	4.000.0	4 000 4	0.4	0.5	407.00	0.004.0	500.0	0.070.0	0.057.0	40.45	400 440		
1,747.8	1,741.2	1,938.2	1,933.1	6.1	6.5	127.06	2,234.3	-569.3	2,370.0	2,357.6	12.45	190.413		
1,800.0	1,792.7	1,959.5	1,954.2	6.3	6.6	127.09	2,232.1	-570.6	2,370.4	2,357.7	12.73	186.194		
1,900.0 2,000.0	1,891.4 1,990.1	2,009.0 2,044.5	2,003.4 2,038.7	6.7	6.8	127.14 127.17	2,227.8 2,225.6	-574.2 -576.9	2,373.0 2,378.0	2,359.7 2,364.2	13.30 13.82	178.383 172.023		
2,000.0	2,088.8	2,105.0	2,036.7	7.1 7.5	6.9 7.1	127.17	2,223.4	-576.9	2,376.0	2,304.2	14.43	165.332		
2,100.0	2,000.0	2,100.0	2,000.0	7.0		127.20	2,220.4	-001.0	2,000.0	2,071.1	14.40	100.002		
2,200.0	2,187.5	2,138.7	2,132.7	7.9	7.2	127.31	2,223.1	-582.8	2,394.9	2,380.0	14.93	160.429		
2,300.0	2,286.2	2,201.0	2,194.9	8.3	7.4	127.47	2,223.9	-584.6	2,406.6	2,391.0	15.53	154.990		
2,400.0	2,384.9	2,241.2	2,235.1	8.8	7.6	127.59	2,225.4	-585.1	2,420.1	2,404.1	16.03	150.940		
2,500.0	2,483.5	2,296.0	2,289.8	9.2	7.7	127.77	2,228.6	-585.2	2,435.6	2,419.1	16.59	146.823		
2,600.0	2,582.2	2,640.6	2,633.8	9.6	8.9	128.60	2,234.1	-594.7	2,449.6	2,431.3	18.27	134.092		
2,700.0	2,680.9	2,718.0	2,711.0	10.1	9.2	128.73	2,230.7	-598.5	2,456.3	2,437.4	18.94	129.664		
2,800.0	2,779.6	2,779.5	2,772.5	10.5	9.4	128.86	2,229.1	-600.4	2,464.5	2,445.0	19.56	126.009		
2,900.0	2,878.3	2,862.6	2,855.5	10.9	9.7	129.08	2,228.1	-601.5	2,473.8	2,453.6	20.25	122.176		
3,000.0	2,977.0	2,957.8	2,950.8	11.3	10.1	129.35	2,227.6	-601.4	2,483.6	2,462.6	20.98	118.377		
3,100.0	3,075.7	3,064.4	3,057.3	11.8	10.4	129.68	2,227.1	-600.5	2,493.4	2,471.6	21.75	114.620		
3,200.0	3,174.3	3,173.7	3,166.7	12.2	10.8	130.01	2,226.2	-599.4	2,502.8	2,480.3	22.54	111.051		
3,300.0	3,273.0	3,268.0	3,261.0	12.6	11.1	130.30	2,225.3	-598.6	2,512.2	2,489.0	23.27	107.974		
3,400.0	3,371.7	3,364.5	3,357.5	13.1	11.5	130.59	2,224.4	-597.6	2,521.8	2,497.8	24.00	105.054		
3,500.0	3,470.4	3,448.4	3,441.3	13.5	11.8	130.84	2,224.0	-596.7	2,531.7	2,507.0	24.69	102.530		
3,600.0	3,569.1	3,537.9	3,530.8	14.0	12.1	131.11	2,224.0	-595.9	2,542.2		25.40	100.087		
3 700 0	2 667 0	3 627 3	3 630 3	1/1/4	10 /	101 07	2 224 2	EOE 2	2 552 2	2 527 4	26 14	07 001		
3,700.0	3,667.8	3,627.3	3,620.2	14.4	12.4	131.37	2,224.2	-595.3	2,553.2	2,527.1	26.11	97.801		
3,800.0	3,766.5	3,724.4	3,717.3	14.8	12.7	131.64	2,224.7	-594.7	2,564.4	2,537.5	26.84	95.542		
3,900.0	3,865.1	3,809.4 3,898.5	3,802.3	15.3 15.7	13.0	131.88	2,225.3	-594.4	2,575.9 2,588.0	2,548.4	27.53	93.580		
4,000.0 4,100.0	3,963.8 4,062.5	3,898.5 4,309.4	3,891.5 4,301.1	15.7 16.1	13.3 14.8	132.13 132.85	2,226.4 2,209.8	-594.2 -609.0	2,588.0 2,598.6	2,559.7 2,568.5	28.23 30.06	91.683 86.442		
4,200.0	4,161.2	4,401.6	4,392.5	16.6	15.1	132.93	2,199.3	-615.1	2,599.1	2,568.3	30.80	84.382		
4,300.0	4,259.9	4,521.3	4,511.2	17.0	15.6	133.04	2,185.9	-622.8	2,599.8	2,568.1	31.62	82.212		
4,400.0	4,358.6	4,629.7	4,618.4	17.5	16.0	133.11	2,172.4	-631.0	2,599.1	2,566.7	32.41	80.186		
4,480.6	4,438.1	4,699.4	4,687.4	17.8	16.2	133.16	2,163.9	-636.1	2,599.0	2,566.0	33.00	78.753		
4,500.0	4,457.3	4,716.4	4,704.3	17.9	16.3	133.18	2,161.9	-637.3	2,599.0	2,565.9	33.14	78.416		
4,600.0	4,555.9	4,890.3	4,876.4	18.3	17.0	133.36	2,139.2	-647.1	2,597.6	2,563.5	34.11	76.149		
			20 Min							FC				

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft

KB @ 3377.5usft

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

Survey Progra								- Wellbore		•			Offset Site Error:	0.0 usft
		-MWD											Offset Well Error:	0.0 usft
Referei Measured	ence Vertical	Offse Measured	t Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	e Centre	Dista Between	ance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	warming	
4,700.0	4,654.6	4,972.2	4,957.4	18.8	17.3	133.47	2,127.6	-650.6	2,595.2	2,560.3	34.83	74.506		
4,800.0	4,753.3	4,800.0	5,075.9	19.2	16.6	133.64	2,111.3	-655.6	2,593.2	2,558.6	34.59	74.973		
4,900.0	4,852.0	5,222.8	5,205.1	19.7	18.3	133.80	2,091.0	-661.3	2,589.2	2,552.7	36.49	70.955		
5,000.0	4,950.7	5,302.6	5,283.9	20.1	18.6	133.91	2,078.9	-664.6	2,585.6	2,548.4	37.21	69.488		
5,100.0	5,049.4	5,380.8	5,361.2	20.6	18.9	134.03	2,067.6	-667.5	2,582.9	2,544.9	37.92	68.111		
5,200.0	5,148.1	5,458.2	5,437.8	21.0	19.2	134.14	2,057.2	-670.4	2,581.0	2,542.3	38.63	66.815		
5,300.0	5,246.7	5,300.0	5,558.5	21.4	18.6	134.31	2,040.8	-675.6	2,579.3	2,540.9	38.43	67.121		
5,400.0	5,345.4	5,702.3	5,679.2	21.9	20.2	134.45	2,022.6	-682.0	2,576.0	2,535.7	40.28	63.949		
5,500.0 5,600.0	5,444.1 5,542.8	5,782.8 5,862.5	5,758.7 5,837.6	22.3 22.8	20.5 20.8	134.54 134.64	2,010.8 1,999.8	-686.1 -690.1	2,573.2 2,571.2	2,532.2 2,529.5	41.00 41.72	62.755 61.628		
5,700.0	5,641.5	6,021.5	5,994.6	23.2	21.4	134.82	1,976.9	-698.5	2,568.7	2,529.5	42.64	60.236		
5,800.0	5,740.2	6,093.0	6,065.2	23.7	21.7	134.90	1,966.1	-702.3	2,565.4	2,522.0	43.35	59.182		
5,900.0	5,838.9	6,166.4	6,137.8	24.1	22.0	135.00	1,955.8	-702.5	2,563.1	2,519.1	44.05	58.189		
6,000.0	5,937.5	6,000.0	6,250.5	24.1	21.4	135.00	1,939.9	-705.5	2,561.0	2,519.1	43.82	58.444		
6,100.0	6,036.2	6,349.7	6,319.2	25.0	22.8	135.15	1,939.3	-713.1	2,559.0	2,517.2	45.54	56.191		
6,157.8	6,093.3	6,380.0	6,349.2	25.2	22.9	135.30	1,926.5	-714.2	2,558.7	2,512.8	45.91	55.736		
6,200.0	6,134.9	6,404.6	6,373.7	25.4	23.0	135.34	1,923.7	-714.9	2,558.8	2,512.6	46.18	55.414		
6,300.0	6,233.6	6,459.1	6,427.8	25.9	23.2	135.44	1,918.2	-716.3	2,560.4	2,513.6	46.79	54.716		
6,400.0	6,332.3	6,520.1	6,488.6	26.3	23.4	135.57	1,913.1	-717.4	2,563.7	2,516.2	47.42	54.065		
6,500.0	6,431.0	6,603.9	6,572.2	26.8	23.8	135.74	1,907.2	-718.7	2,568.3	2,520.2	48.12	53.378		
6,600.0	6,529.6	6,751.2	6,718.9	27.2	24.3	136.00	1,895.1	-722.9	2,571.9	2,522.8	49.04	52.445		
6,700.0	6,628.3	6,824.4	6,791.8	27.6	24.6	136.12	1,888.7	-725.5	2,575.1	2,525.4	49.71	51.805		
6,800.0	6,727.0	6,891.5	6,858.7	28.1	24.9	136.24	1,883.8	-727.6	2,579.6	2,529.3	50.35	51.238		
6,900.0	6,825.7	6,959.0	6,926.0	28.5	25.1	136.37	1,879.7	-729.2	2,585.4	2,534.4	50.97	50.719		
7,000.0	6,924.4	7,034.1	7,001.0	29.0	25.4	136.52	1,876.0	-730.4	2,592.3	2,540.7	51.62	50.215		
7,100.0	7,023.1	7,111.5	7,078.4	29.4	25.7	136.69	1,872.8	-731.3	2,600.1	2,547.8	52.28	49.737		
7,200.0	7,121.8	7,207.6	7,174.4	29.9	26.0	136.89	1,869.5	-732.7	2,608.6	2,555.6	53.01	49.211		
7,300.0	7,220.4	7,302.3	7,269.0	30.3	26.3	137.08	1,866.2	-734.2	2,617.0	2,563.2	53.73	48.704		
7,400.0	7,319.1	7,390.3	7,357.0	30.7	26.7	137.27	1,863.4	-735.2	2,625.8	2,571.4	54.42	48.247		
7,466.5 7,500.0	7,384.7 7,417.8	7,447.8 7,475.8	7,414.5 7,442.5	31.0 31.2	26.9 27.0	137.40 137.49	1,861.8 1,861.1	-735.8 -736.1	2,631.9 2,635.0	2,577.0 2,579.9	54.88 55.10	47.958 47.819		
7,600.0	7,516.9	7,559.7	7,526.3	31.6	27.3	137.72	1,859.4	-736.9	2,643.3	2,587.5	55.76	47.401		
7,700.0	7,616.2	7,647.1	7,613.7	32.0	27.6	137.72	1,858.0	-737.6	2,650.2	2,593.8	56.43	46.967		
7,800.0	7,715.8	7,738.3	7,704.9	32.4	27.9	138.11	1,856.9	-737.0	2,655.5	2,598.4	57.09	46.514		
7,900.0	7,815.6	7,815.0	7,781.6	32.8	28.1	138.25	1,856.5	-735.5	2,659.6	2,601.9	57.67	46.121		
8,000.0	7,915.5	7,914.8	7,881.3	33.1	28.5	138.39	1,856.4	-732.5	2,662.1	2,603.8	58.33	45.638		
8,086.5	8,002.0	7,977.7	7,944.2	33.3	28.7	-0.75	1,856.6	-731.3	2,663.2	2,604.4	58.78	45.307		
8,100.0	8,015.5	7,987.7	7,954.2	33.4	28.7	-90.55	1,856.7	-731.3	2,663.3	2,604.4	58.85	45.256		
8,150.0	8,065.4	8,036.0	8,002.5	33.5	28.9	-90.57	1,857.2	-731.7	2,663.8	2,604.7	59.15	45.035		
8,200.0	8,114.8	8,096.4	8,062.9	33.6	29.1	-90.74	1,857.6	-732.0	2,664.3	2,604.8	59.50	44.778		
8,250.0	8,163.3	8,167.3	8,133.8	33.7	29.3	-91.08	1,857.7	-731.9	2,664.5	2,604.6	59.89	44.491		
8,300.0	8,210.6	8,234.1	8,200.6	33.8	29.5	-91.53	1,857.3	-731.6	2,664.5	2,604.3	60.25	44.224		
8,350.0	8,256.3	8,296.0	8,262.5	33.8	29.7	-92.07	1,856.4	-731.6	2,664.5	2,603.9	60.58	43.981		
8,400.0	8,300.1	8,370.6	8,337.1	33.9	30.0	-92.85	1,854.8	-731.5	2,664.4	2,603.4	60.96	43.704		
8,426.4	8,322.4	8,408.7	8,375.1	33.9	30.1	-93.30	1,853.6	-731.2	2,664.3	2,603.2	61.15	43.567		
8,450.0	8,341.6	8,410.3	8,376.8	33.9	30.1	-93.31	1,853.6	-731.3	2,664.5	2,603.3	61.19	43.546		
8,500.0	8,380.6	8,437.2	8,403.7	33.9	30.2	-93.59	1,852.9	-731.1	2,665.3	2,603.9	61.36	43.440		
8,550.0	8,416.6	8,462.1	8,428.6	33.9	30.3	-93.79	1,852.4	-731.1	2,667.0	2,605.4	61.52	43.352		
8,600.0	8,449.5	8,485.0	8,451.5	33.9	30.4	-93.91	1,852.0	-731.0	2,669.5	2,607.8	61.68	43.277		
8,650.0 8,700.0	8,479.0 8,504.8	8,521.8 8,555.4	8,488.3 8,521.8	33.9 33.9	30.5 30.6	-94.20 -94.37	1,851.5 1,850.9	-730.8 -730.4	2,673.0 2,677.3	2,611.1 2,615.2	61.93 62.18	43.163 43.060		
8,750.0	8,526.9	8,585.2	8,551.6	33.8	30.7	-94.41	1,850.3	-729.8	2,682.6	2,620.2	62.43	42.971		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Cut =

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft

KB @ 3377.5usft KB @ 3377.5usft

Grid

Minimum Curvature 2.00 sigma

EDM 5000.14 Single User Db

Offset Datum

Offset De Survey Prog		Simon ( -MWD	Jamamile	Fed Com -	Simon C	amamile Fe	d Com #204H	- Wellbore	#1 - Actua	l			Offset Site Error: Offset Well Error:	0.0 us
Refer		Offse	et	Semi Major	Axis				Dista	nce			Silset Well Ellor:	5.0 us
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore	e Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
8,800.0		8,612.2	8,578.6	33.8	30.8	-94.31	1,849.7	-729.1	2,689.0	2,626.3	62.69	42.891		
8,850.0		8,634.3	8,600.7	33.8	30.9	-94.01	1,849.2	-728.3	2,696.4	2,633.4	62.96	42.827		
8,900.0		8,651.1	8,617.5	33.7	31.0	-93.50	1,848.8	-727.7	2,704.9	2,641.6	63.23	42.780		
8,950.0	8,573.8	8,662.1	8,628.5	33.7	31.0	-92.76	1,848.5	-727.2	2,714.5	2,651.0	63.49	42.753		
8,986.5	8,575.0	8,666.3	8,632.6	33.7	31.0	-92.06	1,848.4	-727.0	2,722.2	2,658.5	63.68	42.748		
8,993.2	8,575.0	8,666.7	8,633.1	33.8	31.0	-92.07	1,848.4	-727.0	2,723.6	2,659.9	63.71	42.748		
9,000.0	8,575.0	8,667.2	8,633.5	33.8	31.0	-92.08	1,848.4	-727.0	2,725.2	2,661.4	63.75	42.748		
9,100.0	8,575.0	8,674.3	8,640.6	33.9	31.1	-92.24	1,848.2	-726.7	2,749.4	2,685.1	64.33	42.738		
9,200.0	8,575.0	8,682.0	8,648.4	34.4	31.1	-92.40	1,848.0	-726.3	2,777.1	2,712.0	65.02	42.713		
9,300.0	8,575.0	8,690.5	8,656.8	35.3	31.1	-92.59	1,847.8	-725.9	2,808.0	2,742.2	65.79	42.682		
9,400.0	8,575.0	9,400.0	8,633.8	36.3	33.5	-92.09	1,848.4	-726.9	2,842.1	2,773.1	69.00	41.189		
9,500.0	8,575.0	9,500.0	8,637.3	37.6	33.9	-92.17	1,848.3	-726.8	2,879.3	2,809.1	70.20	41.014		
9,600.0	8,575.0	9,600.0	8,640.7	38.9	34.2	-92.24	1,848.2	-726.7	2,919.4	2,848.0	71.44	40.865		
9,700.0		10,739.3	9,788.2	40.4	43.9	-115.17	1,858.6	527.8	2,942.0	2,862.9	79.15	37.171		
9,800.0		10,842.0	9,792.2	41.9	45.5	-115.24	1,859.0	630.4	2,943.9	2,861.9	82.00	35.901		
9,900.0		10,979.8	9,796.7	43.6	47.8	-115.32	1,859.5	768.1	2,945.8	2,860.2	85.60	34.414		
		:												
10,000.0		11,071.1	9,797.6	45.3	49.4	-115.33	1,859.7	859.4	2,946.3	2,857.7	88.57	33.266		
10,100.0		11,162.3	9,798.3	47.0	51.0	-115.34	1,860.7	950.6	2,947.5	2,855.9	91.64	32.164		
10,200.0		11,253.1	9,799.4 9,800.8	48.9 50.8	52.7 54.7	-115.35 -115.37	1,861.7	1,041.4	2,948.8	2,854.0	94.79 98.26	31.108 30.027		
10,300.0 10,400.0		11,356.0 11,480.9	9,800.8	50.6	54.7 57.1	-115.37	1,863.0 1,864.3	1,144.2 1,269.2	2,950.5 2,951.5	2,852.2 2,849.3	102.26	28.863		
10,400.0	6,575.0	11,400.9	9,001.3	32.1	37.1	-110.01	1,004.5	1,209.2	2,931.3	2,049.3	102.20	20.003		
10,500.0	8,575.0	11,546.2	9,801.5	54.7	58.4	-115.36	1,865.2	1,334.4	2,952.7	2,847.6	105.15	28.082		
10,600.0	8,575.0	11,618.7	9,803.0	56.7	59.8	-115.38	1,866.4	1,406.9	2,955.0	2,846.8	108.20	27.311		
10,700.0	8,575.0	11,702.9	9,806.1	58.7	61.5	-115.42	1,867.9	1,491.0	2,958.1	2,846.5	111.53	26.524		
10,800.0	8,575.0	11,797.3	9,810.2	60.8	63.5	-115.48	1,869.6	1,585.3	2,961.4	2,846.3	115.10	25.728		
10,900.0	8,575.0	11,900.4	9,814.6	62.9	65.6	-115.54	1,871.5	1,688.3	2,964.9	2,845.9	118.92	24.932		
11,000.0	8,575.0	12,016.2	9,819.4	65.0	68.0	-115.61	1,873.3	1,804.0	2,968.0	2,844.9	123.06	24.119		
11,100.0		12,212.5	9,824.9	67.1	72.2	-115.70	1,874.4	2,000.2	2,970.0	2,841.0	129.01	23.022		
11,200.0		12,337.7	9,825.1	69.3	75.0	-115.72	1,872.7	2,125.4	2,968.6	2,835.2	133.48	22.241		
11,300.0	8,575.0	12,438.3	9,825.5	71.5	77.2	-115.74	1,871.2	2,226.0	2,967.4	2,829.9	137.45	21.589		
11,400.0	8,575.0	12,521.4	9,825.6	73.7	79.0	-115.75	1,870.3	2,309.1	2,966.3	2,825.3	141.06	21.028		
11,500.0	8,575.0	12,603.5	9,826.3	75.9	80.8	-115.77	1,869.7	2,391.2	2,965.9	2,821.2	144.67	20.501		
11,600.0		12,738.4	9,828.6	78.2	83.8	-115.82	1,867.9	2,526.0	2,965.4	2,815.9	149.46	19.841		
11,700.0		12,836.6	9,829.7	80.4	86.1	-115.86	1,866.1	2,624.2	2,964.1	2,810.7	153.46	19.316		
11,800.0		12,934.9	9,830.4	82.7	88.3	-115.89	1,864.4	2,722.5	2,962.9	2,805.4	157.49	18.814		
11,900.0		13,028.3	9,831.1	84.9	90.4	-115.91	1,863.2	2,815.9	2,961.9	2,800.4	161.43	18.348		
40.000 -	0.575	40 404 5	0.004 :	07.5		445.00	4 004 5	0.010 =	0.000 :	0.704.5	405.55	47.076		
12,000.0		13,131.3	9,831.4	87.2	92.7	-115.93	1,861.5	2,918.9	2,960.4	2,794.8	165.60	17.876		
12,060.8		13,160.4	9,831.7	88.6	93.4	-115.94	1,861.2	2,948.0	2,960.1	2,792.7	167.38	17.685		
12,100.0 12,200.0		13,179.2 13,243.7	9,832.1 9,834.1	89.5 91.8	93.8 95.3	-115.95 -115.98	1,861.1 1,861.3	2,966.8 3,031.3	2,960.2 2,961.7	2,791.7 2,789.9	168.51 171.77	17.567 17.242		
12,200.0		13,339.3	9,837.6	91.0	95.5	-116.04	1,861.9	3,126.8	2,961.7	2,789.9	171.77	16.862		
,500.0	2,0.0.0	,	2,307.0	J	00		.,000	2,120.0	_,000.0	_,, 00.0		.0.002		
12,400.0		13,446.0	9,841.3	96.4	100.0	-116.10	1,862.5	3,233.4	2,965.6	2,785.6	180.03	16.473		
12,500.0		13,526.6	9,844.2	98.7	101.8	-116.14	1,863.0	3,313.9	2,967.7	2,784.0	183.68	16.157		
12,600.0		13,659.8	9,848.9	101.0	104.9	-116.21	1,864.3	3,447.0	2,970.2	2,781.5	188.62	15.747		
12,700.0		13,772.8	9,850.8	103.4	107.5	-116.24	1,864.9	3,560.0	2,971.3	2,778.2	193.11	15.387		
12,800.0	8,575.0	13,970.5	9,846.4	105.7	112.1	-116.17	1,864.7	3,757.6	2,969.7	2,769.9	199.74	14.868		
12,900.0	8,575.0	14,020.0	9,844.6	108.0	113.3	-116.14	1,864.9	3,807.1	2,968.2	2,765.4	202.86	14.632		
12,938.9		14,026.0	9,844.2	109.0	113.7	-116.13	1,865.1	3,824.0	2,968.1	2,764.2	203.99	14.550		
13,000.0		14,071.0	9,843.7	110.4	114.5	-116.12	1,865.6	3,858.1	2,968.5	2,762.5	205.95	14.414		
13,100.0		14,144.3	9,844.0	112.7	116.2	-116.11	1,866.9	3,931.3	2,970.1	2,760.6	209.54	14.175		
13,200.0		14,233.5	9,844.7	115.1	118.3	-116.11	1,868.5	4,020.5	2,971.9	2,758.4	213.52	13.919		
13,300.0	8,575.0	14,302.0	9,845.4	117.5	119.9	-116.11	1,870.5	4,089.0	2,974.9	2,757.9	216.97	13.711		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

New Year   Company   Com	Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #204H	- Wellbore	#1 - Actua	ı			Offset Site Error:	0.0 usft
No.   Process					Sau-188	u Avria				D				Offset Well Error:	0.0 usft
					-		Highside	Offset Wellbor	e Centre			Minimum	Separation	Warning	
1,100.00	Depth	Depth	Depth	Depth						Centres	Ellipses	Separation	•		
13,000   8,750   14,6853   9,851.6   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86   12,86	13,400.0	8,575.0	14,410.4	9,847.0	119.8	122.4	-116.11			2,978.3	2,756.8	221.47	13.448		
1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,500   1,50	13,500.0	8,575.0	14,477.4	9,848.4	122.2	124.0	-116.11	1,876.1	4,264.3	2,982.0	2,757.1	224.86	13.261		
1,300.00   8,770   14,912   9,888   1283   1384   1162   1886   4,820   2,984   2,752   225.0   243.03   12,312     14,000.0   8,575   14,000   9,681   134.1   112.8   118.2   1,880   1,880   2,880   2,752   225.0   243.0   12,315     14,000.0   8,575   14,000   9,681   134.1   112.8   118.2   1,880   1,880   2,880   2,752   225.0   243.0   12,315     14,000.0   8,575   15,717   9,083   186.4   140.8   118.2   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,881   1,880   1,880   1,881   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880   1,880				9,851.6			-116.14			2,986.1					
1,400.00   8,75.0   14,003   9,880   131,7   134,8   118,22   1,886   4,794   2,986   2,752,8   243,3   12,912															
14,000.0															
14,000   0,5750   15,5748   0,8792   1412   1446   11644   1,8831   5,911   1,1645   1,8801   5,3816   2,9929   2,7243   2,7243   1,328   1,328   1,4400   1,5750   15,5745   1,5754   1,4615   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801   1,5801															
14,000   8,575   15,575   5,686   43.8   10.1   -116.46   1,880   5,381,6   2,992   2,748   227.07   11.66     14,000   8,575   15,676   5,686   44.8   146.0   150.8   116.46   1,880   3,5384   2,991,5   2,720,5   27.03   11.08     14,000   8,575   15,674   3,988   146.3   151.0   116.46   1,880   3,5384   2,991,5   2,720,5   27.03   11.08     14,000   8,575   15,734   4,977,6   148.4   19.7   116.47   1,880   2,941,5   2,741,5   2,775   2,770   2,770     14,000   8,575   15,734   5,884   9,875   153.2   153.3   116.5   16.10   116.5   18.11   1.05   2,755   2,744   2,745   2,775   1,707     14,000   8,575   15,734   9,875   15.5   18.11   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   1.16   2,745   2															
14,500.0   8,575.0   15,608.7   9,808.8   146.0   150.0   -116.46   1,803   5,394.9   2,991.5   2,720.8   270.72   11,050   14,451.5   8,575.0   15,612.5   9,809.9   146.3   151.0   -116.47   18.02   5,208.2   2,922.4   2,710.9   2,720.3   10,049   14,000   8,575.0   15,739.4   9,873.0   150.8   144.0   -116.52   1,889.1   5,525.5   2,994.4   2,716.9   2,775.1   10,750   14,400.0   8,575.0   15,739.4   9,873.0   152.2   163.3   116.53   1,889.1   5,525.5   2,994.4   2,716.9   2,775.1   10,750   14,400.0   8,575.0   15,814.0   9,875.0   155.6   188.1   1,165.2   1,889.8   5,802.7   2,996.5   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.9   2,716.															
14,000															
147000   83750   157394   8878   1508   1508   1540   -11652   1.881   5.525   2.984   2.7169   2.775   10,700     148000   8.5750   158109   9.8756   1556   1558   1-11655   1.8876   5.6207   2.986   2.7138   28540   10.509     150000   8.5750   16.0815   8.8785   1800   1622   -11655   1.8876   5.8675   3.0014   2.7054   29153   10.294     151000   8.5750   16.0815   0.8875   1804   1645   1.8856   5.6207   5.6875   3.0019   2.7064   29153   10.294     151000   8.5750   16.4613   0.8805   1604   1645   1.8856   5.8676   0.3014   2.7057   2.9857   2.9858   2.9852   2.9953   10.294     151000   8.5750   16.6820   0.8893   1676   1704   -11653   1.8814   6.2072   2.9865   2.6862   303.29   0.887     154000   8.5750   16.6820   0.8793   1676   172.3   -11663   1.8795   6.2879   2.994.1   2.6849   309.25   0.882     154323   8.5750   16.6336   0.8903   0.700   173.3   1.1666   1.8792   6.3185   2.9965   2.6833   3.1062   0.883     155000   8.5750   16.6456   0.8840   172.5   175.8   -116.72   1.8794   6.4314   2.9965   2.8802   3.1032   0.483     158000   8.5750   16.6456   0.8840   177.3   180.5   -116.78   1.8807   6.827.5   2.995   2.674.8   3.24.76   0.236     150000   8.5750   16.6575   0.8868   1747   1784   -116.78   1.8801   6.7657   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.78675   0.786															
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15,000   8,575 0   16,421 3   9,879 8   102 8   170 4   -116,63   1,881 4   6,207 2   2,986 5   2,680 2   303.29   9,887															
15,300															
15,400															
15,422 3 8,75 0 16,533 6 9,879 6 1684 173.1 -116.64 1,879 2 6,319 5 2,993 2,883 3 10.02 9,638 15,500 8,575 0 16,562 5 9,880 3 170 0 173.8 -116.66 1,879 0 6,348 4 2,994 3 2,681 8 312.55 9,580 15,500 0 8,575 0 16,755 7 9,886 6 174 9 176 4 -116.76 1,879 1 6,411 2,985 7 2,676 8 320,83 9,343 15,000 8,575 0 16,755 7 9,886 6 174 9 176 4 -116.76 1,879 7 6,541 5 2,997 7 2,676 8 320,83 9,343 15,900 8,575 0 16,755 7 9,886 1 174 9 176 4 -116.76 1,879 7 6,541 5 2,997 7 2,676 8 320,83 9,343 15,900 8,575 0 16,755 7 9,888 1 182 1 187 7 -116.77 1,883 1 6,762 4 3,001 2 2,671 2 350,06 9,093 16,000 8,575 0 17,138 8 9,888 7 182 1 187 7 -116.78 1,882 1 6,762 4 3,001 2 2,671 2 350,06 9,093 16,000 8,575 0 17,212 8 9,888 8 184 5 189 4 -116.79 1,881 5 6,998 3 2,994 2,659 8 339,64 8,831 16,123 3 6,575 0 17,228 8 9,888 0 185 2 189 9 -116.79 1,881 4 7,015 5 2,999 3 2,688 7 340,99 8 8,00 16,22 189 9 -116.79 1,881 4 7,015 5 2,999 3 2,688 7 340,99 8 8,00 16,22 189 9 -116.79 1,881 4 7,015 5 2,999 3 2,688 7 340,99 8 8,00 16,22 189 9 -116.79 1,881 4 7,015 5 2,999 3 2,688 7 340,99 8 8,00 16,22 189 9 -116.79 1,881 4 7,015 5 2,999 3 2,688 7 340,99 8 8,00 16,22 189 9 -116.79 1,881 4 7,015 5 2,999 3 2,688 7 340,99 8 8,00 16,22 189 9 -116.79 1,881 4 7,015 5 2,999 3 2,688 7 340,99 8 8,00 16,22 189 9 -116.79 1,881 4 7,015 5 2,999 3 2,688 7 340,99 8 8,00 16,20 16,300 0 8,575 0 17,632 9,991 1 1,894 196 2 116.90 1,882 5 7,277 6 3,001 2 2,655 0 342,84 8,75 0 14,60 0 8,575 0 17,632 9,901 2 199 1 190 2 116.90 1,882 5 7,277 6 3,001 2 2,655 0 36,67 2 8,418 16,575 4 8,575 0 17,632 9,901 2 199 1 202.8 117.00 1,881 7 7,486 8 3,002 8 2,642 1 360,46 8,333 0 1,650 0 8,575 0 17,632 9,904 2 196 0 200 7 -116.90 1,880 1 7,648 7 3,004 7 2,638 5 36,88 8 1,816 1 1,600 0 8,575 0 17,683 3 9,904 3 2015 2 205 1 17,00 1,880 0 7,648 7 3,004 7 2,638 5 36,88 8 1,816 1 1,600 0 8,575 0 17,683 3 9,904 3 2015 2 202 1 117.10 1,880 0 7,648 7 3,003 0 2,647 0 3,003 0 3,004 0 3,005 7 2,633 3 30 0 3,005 7 2,633 3 30 0 3,005 7 2,633 3 30 0 3,005 7 2,633 3 30 0 3,005 7 2,633 3 30 0 3,005 7 2,6	15,300.0	8,575.0	16,469.6	9,879.3	165.2	1/1.5	-116.63	1,880.1	6,255.5	2,995.5	2,689.0	306.51	9.773		
15,500	15,400.0	8,575.0	16,502.0	9,879.3	167.6	172.3	-116.63	1,879.5	6,287.9	2,994.1	2,684.9	309.25	9.682		
15,800.0 8,575.0 16,645.6 8,884.0 172.5 175.8 -116.72 1,876.4 6,431.4 2,99.5 2,880.2 316.32 9473 15,700.0 8,575.0 16,755.7 9,886.6 174.9 178.4 -116.76 1,879.7 6,641.5 2,997.7 2,676.8 320.83 9,343 15,800.0 8,575.0 16,976.7 9,888.9 179.7 183.7 -116.77 1,883.1 6,762.4 3,001.2 2,671.2 330.06 9,993 16,000.0 8,575.0 17,138.8 9,888.7 182.1 187.7 -116.77 1,883.1 6,762.4 3,001.2 2,671.2 330.06 9,993 16,000.0 8,575.0 17,138.8 9,888.7 182.1 187.7 -116.77 1,883.1 6,762.4 3,001.2 2,671.2 330.06 9,993 16,000.0 8,575.0 17,229.8 9,889.0 185.2 189.9 -116.79 1,881.5 6,993.2 2,999.4 2,658.8 339.4 8,831 16,128.3 8,575.0 17,229.8 9,889.0 185.2 189.9 -116.79 1,881.4 7,015.5 2,999.3 2,658.7 340.59 8,806 16,200.0 8,575.0 17,288.0 9,889.6 187.0 190.8 -116.80 1,881.3 7,053.7 2,999.7 2,656.8 342.84 8,750 16,300.0 8,575.0 17,335.7 9,891.1 189.4 192.4 -116.83 1,881.7 7,121.3 3,001.2 2,655.0 346.28 8,667 16,300.0 8,575.0 17,632.0 9,895.6 191.8 196.2 -116.90 1,882.5 7,277.6 3,003.1 2,655.1 3,519.4 8,533 16,500.0 8,575.0 17,616.0 9,898.5 191.8 196.2 -116.90 1,882.5 7,277.6 3,003.1 2,656.1 3,519.4 8,533 16,500.0 8,575.0 17,673.0 9,899.2 196.0 200.7 -116.96 1,880.2 7,662.6 3,002.5 2,642.1 360.4 36.72 8,418 16,575.4 8,575.0 17,633.0 9,899.4 196.6 201.1 -116.99 1,880.2 7,662.6 3,002.5 2,642.1 360.4 36.72 8,418 16,600.0 8,575.0 17,633.0 9,899.4 196.6 201.1 -116.99 1,880.1 7,462.6 3,002.5 2,642.1 360.4 36.72 8,418 16,600.0 8,575.0 17,633.0 9,899.2 196.0 200.7 -116.99 1,880.1 7,585.3 3,006.7 2,628.8 376.8 7,976 17,000.0 8,575.0 17,633.0 9,901.2 199.1 202.8 -117.02 1,880.0 7,548.7 3,004.7 2,636.5 3,818.8 1.61 16,900.0 8,575.0 17,633.0 9,901.2 199.1 202.8 -117.02 1,880.0 7,548.7 3,004.7 2,636.5 3,818.8 1.61 16,900.0 8,575.0 17,633.3 9,904.3 201.5 205.2 -117.07 1,880.0 7,548.7 3,004.7 2,636.5 3,818.8 1.61 16,900.0 8,575.0 17,633.3 9,904.3 201.5 205.2 -117.07 1,880.0 7,548.7 3,004.7 2,636.5 3,818.8 3,194.1 7,700.0 8,575.0 18,088.9 9,905.5 206.3 210.2 -117.10 1,881.5 7,854.3 3,006.0 2,627.0 380.9 7,976 17,700.0 8,575.0 18,083.9 9,905.5 206.3 210.2 -117.1	15,432.3	8,575.0	16,533.6	9,879.6	168.4	173.1	-116.64	1,879.2	6,319.5	2,993.9	2,683.3	310.62	9.638		
15,700.0 8,575.0 16,755.7 9,886.6 174.9 178.4 -116.76 1,879.7 6,541.5 2,997.7 2,676.8 320.83 9,343  15,800.0 8,575.0 16,841.7 9,888.4 177.3 180.5 -116.78 1,880.7 6,627.5 2,999.5 2,674.8 324.76 9,236  15,900.0 8,575.0 16,976.7 9,888.9 179.7 183.7 -116.77 1,883.1 6,762.4 3,001.2 2,671.2 330.06 9,033  16,100.0 8,575.0 17,138.8 9,888.7 182.1 187.7 -116.78 1,883.1 6,762.4 3,001.2 2,671.2 330.06 9,033  16,100.0 8,575.0 17,212.6 9,888.8 184.5 189.4 -116.79 1,881.5 6,998.3 2,990.4 2,659.8 339.64 8,831  16,128.3 8,575.0 17,229.8 9,889.0 185.2 189.9 -116.79 1,881.5 6,998.3 2,990.4 2,659.8 339.64 8,831  16,200.0 8,575.0 17,268.0 9,889.6 187.0 190.8 -116.89 1,881.3 7,055.7 2,999.3 2,658.7 340.59 8,806  16,200.0 8,575.0 17,492.0 9,889.6 187.0 190.8 -116.89 1,881.3 7,055.7 2,999.7 2,656.8 342.84 8,750  16,300.0 8,575.0 17,492.0 9,885.6 191.8 196.2 -116.99 1,881.5 7,277.6 3,000.1 2,651.1 351.94 8,533  16,500.0 8,575.0 17,677.0 9,899.2 196.0 200.7 -116.98 1,880.2 7,462.6 3,002.5 2,642.1 360.46 8,330  16,575.4 8,575.0 17,693.0 9,894.1 196.6 201.1 -116.99 1,880.1 7,478.6 3,002.5 2,642.1 360.46 8,330  16,600.0 8,575.0 17,693.0 9,894.1 196.6 201.1 -116.99 1,880.1 7,478.6 3,002.5 2,642.1 360.46 8,330  16,600.0 8,575.0 17,693.0 9,894.1 202.8 117.02 1,880.0 7,548.7 3,003.4 2,639.4 363.97 8,252  16,800.0 8,575.0 17,693.0 9,990.4 203.9 207.9 -117.10 1,880.0 7,548.7 3,003.4 2,639.4 363.97 8,252  17,000.0 8,575.0 18,152.8 9,905.8 211.2 213.9 -117.10 1,881.5 7,654.3 3,008.0 2,627.0 381.02 7,895  17,100.0 8,575.0 18,152.8 9,905.8 211.2 213.9 -117.10 1,881.5 7,854.3 3,008.0 2,677.0 381.02 7,895  17,200.0 8,575.0 18,152.8 9,909.7 213.6 213.9 117.14 1,875.1 8,889.9 3,008.3 2,594.2 414.06 7,265  17,500.0 8,575.0 18,656.2 9,900.7 213.6 221.1 117.16 1,881.9 8,340.5 3,008.2 2,609.7 398.49 7,549  17,500.0 8,575.0 18,069.9 9,911.4 225.8 232.8 117.41 1,875.1 8,875.9 3,008.3 2,594.2 414.06 7,265  17,500.0 8,575.0 19,069.5 9,901.2 223.2 234.3 -117.41 1,875.1 8,785.9 3,008.3 2,594.2 414.06 7,265  17,500.0 8,575.0 19,069.5 9,920.2 223.2 234.3 -117.41 1,															
15,800.0 8,575.0 16,841.7 9,888.4 177.3 180.5 -116.78 1,880.7 6,627.5 2,999.5 2,674.8 324.76 9,236 15,900.0 8,575.0 16,976.7 9,888.9 179.7 183.7 -116.77 1,883.1 6,762.4 3,001.2 2,671.2 330.06 9,093 16,000.0 8,575.0 17,138.8 9,888.7 182.1 187.7 -116.78 1,882.3 6,924.5 3,000.3 2,664.4 335.93 8,931 16,102.8 3,675.0 17,228.9 9,889.0 185.2 189.9 -116.79 1,881.5 6,989.3 2,999.4 2,659.8 39.94 8,831 16,128.3 8,575.0 17,228.9 9,889.0 185.2 189.9 -116.79 1,881.4 7,015.5 2,999.3 2,658.7 340.9 8,806 16,200.0 8,575.0 17,228.0 9,889.6 187.0 190.8 -116.80 1,881.3 7,053.7 2,999.7 2,658.7 340.9 8,806 16,300.0 8,575.0 17,280.0 9,889.6 191.8 192.2 -116.80 1,881.3 7,053.7 2,999.7 2,658.7 340.5 8,667 16,400.0 8,575.0 17,492.0 9,895.6 191.8 192.2 -116.90 1,882.5 7,1277.6 3,003.1 2,651.1 351.94 8,533 16,500.0 8,575.0 17,616.0 9,889.5 194.2 199.2 -116.90 1,880.8 7,401.6 3,002.8 2,646.0 366.72 8,418 16,575.4 8,575.0 17,616.0 9,889.5 194.2 199.2 -116.90 1,880.8 7,401.6 3,002.8 2,646.0 366.72 8,418 16,575.4 8,575.0 17,616.0 9,899.2 196.0 200.7 -116.98 1,880.2 7,401.6 3,002.5 2,642.1 360.46 8,330 16,700.0 8,575.0 17,616.0 9,899.2 196.0 200.7 -116.99 1,880.1 7,478.6 3,002.5 2,642.1 360.46 8,330 16,700.0 8,575.0 17,633.0 9,904.3 201.5 202.8 -117.07 1,880.0 7,548.7 3,003.1 2,651.1 351.94 8,533 16,500.0 8,575.0 17,633.0 9,904.3 201.5 202.8 -117.07 1,880.0 7,548.7 3,003.1 2,651.1 360.46 8,330 16,700.0 8,575.0 17,633.0 9,904.3 201.5 202.8 -117.07 1,880.0 7,548.7 3,003.4 2,639.4 363.97 8,252 1,680.0 8,575.0 17,673.6 9,906.4 203.9 207.9 -117.10 1,881.5 7,864.3 3,005.7 2,633.0 37.27.2 8,064 17,000.0 8,575.0 18,652.9 9,905.8 211.2 213.9 117.07 1,880.0 7,648.7 3,003.7 2,623.0 372.72 8,064 17,000.0 8,575.0 18,652.9 9,905.8 211.2 213.9 117.07 1,880.0 7,648.7 3,003.7 2,629.8 376.9 8,49 1,49 1,49 1,49 1,49 1,49 1,49 1,49 1															
15,000 0       8,575.0       16,976.7       9,888.9       179.7       183.7       -116.77       1,883.1       6,762.4       3,001.2       2,671.2       330.06       9,093         16,000 0       8,575.0       17,128.8       9,888.7       182.1       187.7       -116.78       1,882.3       6,924.5       3,000.3       2,664.4       335.93       8,931         16,100 8       8,575.0       17,229.8       9,888.0       184.5       189.9       -116.79       1,881.5       6,998.3       2,999.4       2,659.8       339.64       8,831         16,200 0       8,575.0       17,229.8       9,889.0       185.2       189.9       -116.79       1,881.4       7,015.5       2,999.3       2,658.8       342.84       8,750         16,300 0       8,575.0       17,749.0       9,889.6       187.0       190.8       -116.80       1,881.3       7,053.7       2,999.7       2,656.8       342.84       8,750         16,400 0       8,575.0       17,616.0       9,898.5       194.2       199.2       -116.90       1,882.5       3,002.3       2,665.0       346.28       8,667         16,500 0       8,575.0       17,616.0       9,898.5       194.2       199.2       -116.90       1	15,700.0	8,575.0	16,755.7	9,886.6	174.9	178.4	-116.76	1,879.7	6,541.5	2,997.7	2,676.8	320.83	9.343		
16,000.0 8,575.0 17,138.8 9,888.7 182.1 187.7 -116.78 1,882.3 6,924.5 3,000.3 2,664.4 335.93 8,931 161,000.0 8,575.0 17,212.6 9,888.8 1845 189.4 -116.79 1,881.5 6,996.3 2,999.4 2,669.8 339.64 8,831 161,282.3 8,575.0 17,229.8 9,889.0 185.2 189.9 -116.79 1,881.4 7,015.5 2,999.3 2,658.7 340.59 8,806 162.00.0 8,575.0 17,268.0 9,889.6 187.0 190.8 -116.80 1,881.3 7,053.7 2,999.7 2,656.8 342.84 8,750 163.000.0 8,575.0 17,335.7 9,991.1 189.4 192.4 -116.83 1,881.7 7,121.3 3,001.2 2,655.0 346.28 8,667 164.00.0 8,575.0 17,492.0 9,895.6 191.8 196.2 -116.90 1,882.5 7,277.6 3,003.1 2,651.1 351.94 8,533 16,500.0 8,575.0 17,670.0 9,895.5 194.2 199.2 -116.96 1,880.8 7,401.6 3,002.8 2,646.0 356.72 8,418 16,575.4 8,575.0 17,670.0 9,899.2 196.0 200.7 -116.98 1,880.8 7,401.6 3,002.5 2,642.9 359.61 8,349 16,600.0 8,575.0 17,673.2 9,901.2 199.1 202.8 -117.02 1,880.0 7,548.7 3,003.4 2,639.4 363.97 8,252 18,600.0 8,575.0 17,693.0 9,899.4 196.6 201.1 -116.99 1,880.1 7,478.6 3,002.5 2,642.9 359.61 8,349 16,000.0 8,575.0 17,693.0 9,899.4 201.0 200.7 -116.98 1,880.0 7,548.7 3,003.4 2,639.4 363.97 8,252 18,600.0 8,575.0 17,693.3 9,904.3 201.5 205.2 -117.07 1,880.0 7,548.7 3,004.7 2,636.5 368.18 8,161 1,600.0 8,575.0 17,693.3 9,904.3 201.5 205.2 -117.07 1,880.0 7,548.7 3,004.7 2,636.5 368.18 8,161 1,600.0 8,575.0 18,686.9 9,906.5 206.3 210.2 -117.10 1,881.5 7,854.3 3,006.7 2,639.3 372.72 8,064 17,000.0 8,575.0 18,645.2 9,909.7 213.6 213.9 -117.10 1,881.5 7,854.3 3,006.7 2,639.3 376.98 7,976 17,400.0 8,575.0 18,452.9 9,909.7 213.6 213.9 -117.10 1,881.5 7,854.3 3,008.0 2,627.0 381.02 7,895 17,200.0 8,575.0 18,452.9 9,909.7 213.6 213.9 -117.10 1,881.5 7,854.3 3,008.0 2,627.0 381.02 7,895 17,200.0 8,575.0 18,452.9 9,909.7 213.6 213.9 -117.10 1,881.5 8,208.3 3,008.0 2,627.0 381.02 7,895 17,200.0 8,575.0 18,452.9 9,909.7 213.6 213.9 -117.10 1,881.8 8,323.5 3,008.0 2,627.0 381.02 7,895 17,200.0 8,575.0 18,452.9 9,909.7 213.6 213.9 -117.10 1,881.8 8,323.5 3,008.0 2,627.0 381.02 7,585 17,549 17,440.0 8,575.0 18,689.0 9,909.7 213.6 213.9 -117.10 1,881	15,800.0	8,575.0	16,841.7	9,888.4	177.3	180.5	-116.78	1,880.7	6,627.5	2,999.5	2,674.8	324.76	9.236		
16,100.0         8,575.0         17,212.6         9,888.8         184.5         189.4         -116.79         1,881.4         7,015.5         2,999.4         2,659.8         339.64         8,831           16,200.0         8,575.0         17,229.8         9,889.0         185.2         189.9         -116.79         1,881.4         7,015.5         2,999.7         2,656.8         340.59         8,806           16,200.0         8,575.0         17,268.0         9,889.6         187.0         190.8         -116.80         1,881.3         7,033.7         2,999.7         2,656.8         342.84         8,667           16,400.0         8,575.0         17,492.0         9,895.6         191.8         196.2         -116.90         1,882.5         7,277.6         3,003.1         2,651.1         351.94         8,533           16,505.4         8,575.0         17,616.0         9,899.2         196.0         200.7         -116.98         1,880.2         7,462.6         3,002.5         2,642.9         359.61         8,418           16,505.4         8,575.0         17,693.0         9,899.4         196.6         201.1         -116.99         1,880.1         7,482.6         3,002.5         2,642.9         359.61         8,349	15,900.0	8,575.0	16,976.7	9,888.9	179.7	183.7	-116.77	1,883.1	6,762.4	3,001.2	2,671.2	330.06	9.093		
16,128.3       8,575.0       17,229.8       9,889.0       185.2       189.9       -116.79       1,881.4       7,015.5       2,999.3       2,658.7       340.59       8,806         16,200.0       8,575.0       17,286.0       9,889.6       187.0       190.8       -116.80       1,881.3       7,053.7       2,999.7       2,656.8       342.84       8,750         16,300.0       8,575.0       17,335.7       9,891.1       189.4       192.4       -116.83       1,881.7       7,121.3       3,001.2       2,655.0       346.28       8,667         16,400.0       8,575.0       17,616.0       9,898.5       194.2       199.2       -116.96       1,882.5       7,277.6       3,002.1       2,651.1       351.94       8,533         16,505.4       8,575.0       17,671.0       9,899.2       196.0       200.7       -116.98       1,880.2       7,462.6       3,002.5       2,642.9       359.61       8,349         16,600.0       8,575.0       17,693.0       9,899.4       196.6       201.1       -116.99       1,880.1       7,478.6       3,002.5       2,642.1       360.46       8,330         16,600.0       8,575.0       17,683.3       9,904.2       199.1       202.8       -															
16,200.0 8,575.0 17,268.0 9,889.6 187.0 190.8 -116.80 1,881.3 7,053.7 2,999.7 2,656.8 342.84 8,750 16,300.0 8,575.0 17,335.7 9,891.1 189.4 192.4 -116.83 1,881.7 7,121.3 3,001.2 2,655.0 346.28 8,667 16,400.0 8,575.0 17,492.0 9,895.6 191.8 196.2 -116.90 1,882.5 7,277.6 3,003.1 2,651.1 351.94 8,533 16,500.0 8,575.0 17,670.0 9,899.2 196.0 200.7 -116.96 1,880.8 7,401.6 3,002.8 2,646.0 356.72 8,418 16,575.4 8,575.0 17,677.0 9,899.2 196.0 200.7 -116.99 1,880.1 7,478.6 3,002.5 2,642.9 359.61 8,349 16,600.0 8,575.0 17,673.0 9,899.4 196.6 201.1 -116.99 1,800.1 7,478.6 3,002.5 2,642.9 359.61 8,349 16,600.0 8,575.0 17,673.2 9,901.2 199.1 202.8 -117.07 1,880.0 7,548.7 3,003.4 2,639.4 363.97 8,252 16,800.0 8,575.0 17,673.3 9,904.3 201.5 205.2 -117.07 1,880.0 7,548.7 3,003.4 2,639.4 363.97 8,252 16,800.0 8,575.0 17,673.6 9,906.4 203.9 207.9 -117.10 1,880.4 7,759.0 3,005.7 2,633.0 372.72 8,064 17,000.0 8,575.0 18,668.9 9,906.5 206.3 210.2 -117.10 1,880.4 7,759.0 3,005.7 2,633.0 372.72 8,064 17,000.0 8,575.0 18,689.9 9,905.4 208.8 212.2 -117.07 1,880.4 7,759.0 3,005.7 2,633.0 372.72 8,064 17,000.0 8,575.0 18,689.9 9,905.4 208.8 212.2 -117.07 1,880.0 7,848.7 3,003.4 2,629.8 376.98 7,976 17,000.0 8,575.0 18,652.9 9,905.4 208.8 212.2 -117.07 1,880.0 7,584.3 3,006.7 2,629.8 376.98 7,976 17,000.0 8,575.0 18,452.8 9,905.4 208.8 212.2 -117.07 1,880.0 7,584.3 3,006.7 2,629.8 376.98 7,976 17,000.0 8,575.0 18,452.9 9,907. 213.6 219.3 -117.14 1,882.9 8,230.5 3,009.2 2,617.4 391.83 7,680 17,400.0 8,575.0 18,452.9 9,907. 213.6 219.3 -117.14 1,882.9 8,230.5 3,009.2 2,617.4 391.83 7,680 17,400.0 8,575.0 18,653.2 9,909.7 216.0 220.9 -117.15 1,882.0 8,298.3 3,008.0 2,627.0 381.02 7,895 17,800.0 8,575.0 18,659.2 9,909.7 216.0 220.9 -117.15 1,882.0 8,298.3 3,008.0 2,617.4 391.83 7,680 17,400.0 8,575.0 18,659.2 9,909.7 216.0 220.9 -117.15 1,882.0 8,298.3 3,008.0 2,617.4 391.83 7,680 17,400.0 8,575.0 18,659.2 9,909.7 216.0 220.9 -117.15 1,882.0 8,298.3 3,008.0 2,612.6 395.41 7,607 17,400.0 8,575.0 18,659.2 9,909.7 216.0 222.2 -117.37 1,852.5 8,348.															
16,300.0         8,575.0         17,335.7         9,891.1         189.4         192.4         -116.83         1,881.7         7,121.3         3,001.2         2,655.0         346.28         8,667           16,400.0         8,575.0         17,692.0         9,895.6         191.8         196.2         -116.90         1,882.5         7,277.6         3,002.1         2,651.1         351.94         8,533           16,507.4         8,575.0         17,616.0         9,898.5         194.2         199.2         -116.96         1,880.8         7,401.6         3,002.8         2,646.0         356.72         8,418           16,507.4         8,575.0         17,693.0         9,899.4         196.6         201.1         -116.99         1,880.1         7,478.6         3,002.5         2,642.9         359.61         8,349           16,600.0         8,575.0         17,693.0         9,994.4         196.6         201.1         -116.99         1,880.0         7,548.7         3,003.4         2,639.4         363.97         8,252           16,600.0         8,575.0         17,763.2         9,901.2         199.1         202.8         -117.07         1,880.0         7,548.7         3,004.7         2,636.5         368.18         8,161	16,128.3	8,575.0	17,229.8	9,889.0	185.2	189.9	-116.79	1,881.4	7,015.5	2,999.3	2,658.7	340.59	8.806		
16,400.0       8,575.0       17,492.0       9,895.6       191.8       196.2       -116.90       1,882.5       7,277.6       3,003.1       2,651.1       351.94       8.533         16,500.0       8,575.0       17,616.0       9,898.5       194.2       199.2       -116.96       1,880.8       7,401.6       3,002.5       2,642.9       356.1       8.418         16,575.4       8,575.0       17,693.0       9,899.2       196.0       200.7       -116.98       1,880.1       7,478.6       3,002.5       2,642.9       359.61       8.349         16,600.0       8,575.0       17,693.0       9,899.4       196.6       201.1       -116.99       1,880.1       7,478.6       3,002.5       2,642.1       360.46       8.330         16,700.0       8,575.0       17,763.2       9,901.2       199.1       202.8       -117.02       1,880.0       7,548.7       3,003.4       2,636.4       368.18       8.161         16,900.0       8,575.0       17,783.6       9,906.4       203.9       207.9       -117.10       1,880.0       7,548.7       3,006.7       2,636.5       388.18       8.161         16,900.0       8,575.0       18,162.8       9,906.5       206.3       210.2       -1	16,200.0	8,575.0	17,268.0	9,889.6	187.0	190.8	-116.80	1,881.3	7,053.7	2,999.7	2,656.8	342.84	8.750		
16,500.0       8,575.0       17,616.0       9,898.5       194.2       199.2       -116.96       1,880.8       7,401.6       3,002.8       2,646.0       36.72       8.418         16,575.4       8,575.0       17,677.0       9,899.2       196.0       200.7       -116.98       1,880.2       7,462.6       3,002.5       2,642.9       359.61       8.349         16,600.0       8,575.0       17,693.0       9,899.4       196.6       201.1       -116.99       1,880.1       7,478.6       3,002.5       2,642.1       360.46       8.330         16,700.0       8,575.0       17,693.2       9,901.2       199.1       202.8       -117.02       1,880.0       7,548.7       3,003.4       2,639.4       363.97       8.252         16,800.0       8,575.0       17,693.3       9,904.3       201.5       205.2       -117.07       1,880.0       7,648.7       3,004.7       2,636.5       368.18       8.161         16,900.0       8,575.0       18,868.9       9,906.5       206.3       210.2       -117.10       1,881.5       7,854.3       3,006.7       2,629.8       376.98       7,976         17,100.0       8,575.0       18,162.8       9,905.4       208.8       212.2       -1															
16,575.4       8,575.0       17,677.0       9,899.2       196.0       200.7       -116.98       1,880.2       7,462.6       3,002.5       2,642.9       359.61       8.349         16,600.0       8,575.0       17,693.0       9,899.4       196.6       201.1       -116.99       1,880.1       7,478.6       3,002.5       2,642.1       360.46       8.330         16,700.0       8,575.0       17,763.2       9,901.2       199.1       202.8       -117.07       1,880.0       7,548.7       3,003.4       2,639.4       363.97       8.252         16,800.0       8,575.0       17,863.3       9,904.3       201.5       205.2       -117.07       1,880.0       7,648.7       3,004.7       2,636.5       368.18       8.161         16,900.0       8,575.0       17,973.6       9,906.4       203.9       207.9       -117.10       1,881.5       7,854.3       3,006.7       2,633.0       372.72       8.064         17,000.0       8,575.0       18,152.8       9,905.4       208.8       212.2       -117.07       1,883.3       7,938.2       3,008.0       2,627.0       381.02       7,895         17,200.0       8,575.0       18,245.2       9,905.8       211.2       213.9       -															
16,600.0       8,575.0       17,693.0       9,899.4       196.6       201.1       -116.99       1,880.1       7,478.6       3,002.5       2,642.1       360.46       8,330         16,700.0       8,575.0       17,763.2       9,901.2       199.1       202.8       -117.02       1,880.0       7,548.7       3,003.4       2,639.4       363.97       8,252         16,800.0       8,575.0       17,863.3       9,904.3       201.5       205.2       -117.07       1,880.0       7,648.7       3,004.7       2,636.5       368.18       8,161         16,900.0       8,575.0       17,973.6       9,906.4       203.9       207.9       -117.10       1,880.4       7,759.0       3,005.7       2,633.0       372.72       8,064         17,000.0       8,575.0       18,162.8       9,906.5       206.3       210.2       -117.07       1,883.3       7,938.2       3,008.0       2,627.0       381.02       7,895         17,100.0       8,575.0       18,152.8       9,905.4       208.8       212.2       -117.07       1,883.3       7,938.2       3,008.0       2,627.0       381.02       7,895         17,200.0       8,575.0       18,252.5       9,905.8       211.2       213.9       -															
16,700.0       8,575.0       17,763.2       9,901.2       199.1       202.8       -117.02       1,880.0       7,548.7       3,003.4       2,639.4       363.97       8.252         16,800.0       8,575.0       17,863.3       9,904.3       201.5       205.2       -117.07       1,880.0       7,648.7       3,004.7       2,636.5       368.18       8.161         16,900.0       8,575.0       17,973.6       9,906.4       203.9       207.9       -117.10       1,880.4       7,759.0       3,005.7       2,633.0       372.72       8.064         17,000.0       8,575.0       18,068.9       9,906.5       206.3       210.2       -117.07       1,881.5       7,854.3       3,006.7       2,629.8       376.98       7,976         17,100.0       8,575.0       18,152.8       9,905.4       208.8       212.2       -117.07       1,883.3       7,938.2       3,008.0       2,627.0       381.02       7.895         17,200.0       8,575.0       18,225.0       9,905.8       211.2       213.9       -117.06       1,885.0       8,010.4       3,010.2       2,625.5       384.64       7.826         17,300.0       8,575.0       18,545.2       9,909.7       213.6       219.3       -	16,575.4	8,575.0	17,677.0	9,899.2	196.0	200.7	-116.98	1,880.2	7,462.6	3,002.5	2,642.9	359.61	8.349		
16,800.0       8,575.0       17,863.3       9,904.3       201.5       205.2       -117.07       1,880.0       7,648.7       3,004.7       2,636.5       368.18       8.161         16,900.0       8,575.0       17,973.6       9,906.4       203.9       207.9       -117.10       1,880.4       7,759.0       3,005.7       2,633.0       372.72       8.064         17,000.0       8,575.0       18,068.9       9,906.5       206.3       210.2       -117.07       1,883.3       7,938.2       3,008.0       2,627.0       381.02       7.895         17,200.0       8,575.0       18,152.8       9,905.4       208.8       212.2       -117.07       1,883.3       7,938.2       3,008.0       2,627.0       381.02       7.895         17,200.0       8,575.0       18,225.0       9,905.8       211.2       213.9       -117.06       1,885.0       8,010.4       3,010.2       2,625.5       384.64       7.826         17,300.0       8,575.0       18,513.0       9,909.7       213.6       219.3       -117.14       1,882.9       8,230.5       3,009.2       2,617.4       391.83       7,680         17,436.9       8,575.0       18,538.2       9,909.7       216.0       220.9       -		8,575.0		9,899.4	196.6		-116.99	1,880.1	7,478.6	3,002.5	2,642.1	360.46	8.330		
16,900.0       8,575.0       17,973.6       9,906.4       203.9       207.9       -117.10       1,880.4       7,759.0       3,005.7       2,633.0       372.72       8.064         17,000.0       8,575.0       18,068.9       9,906.5       206.3       210.2       -117.10       1,881.5       7,854.3       3,006.7       2,629.8       376.98       7.976         17,100.0       8,575.0       18,152.8       9,905.4       208.8       212.2       -117.07       1,883.3       7,938.2       3,008.0       2,627.0       381.02       7.895         17,200.0       8,575.0       18,225.0       9,905.8       211.2       213.9       -117.06       1,885.0       8,010.4       3,010.2       2,625.5       384.64       7.826         17,300.0       8,575.0       18,445.2       9,909.7       213.6       219.3       -117.14       1,882.9       8,230.5       3,009.2       2,617.4       391.83       7.680         17,400.0       8,575.0       18,533.2       9,909.7       216.0       220.9       -117.15       1,881.8       8,323.5       3,007.8       2,611.1       396.73       7.582         17,500.0       8,575.0       18,563.2       9,910.0       218.5       222.1       -															
17,000.0       8,575.0       18,068.9       9,906.5       206.3       210.2       -117.10       1,881.5       7,854.3       3,006.7       2,629.8       376.98       7,976         17,100.0       8,575.0       18,152.8       9,905.4       208.8       212.2       -117.07       1,883.3       7,938.2       3,008.0       2,627.0       381.02       7.895         17,200.0       8,575.0       18,225.0       9,905.8       211.2       213.9       -117.06       1,885.0       8,010.4       3,010.2       2,625.5       384.64       7,826         17,300.0       8,575.0       18,445.2       9,909.7       213.6       219.3       -117.14       1,882.9       8,230.5       3,009.2       2,617.4       391.83       7,680         17,400.0       8,575.0       18,513.0       9,909.7       216.0       220.9       -117.15       1,882.0       8,298.3       3,008.0       2,617.4       391.83       7,680         17,500.0       8,575.0       18,563.2       9,909.7       216.9       221.5       -117.15       1,881.8       8,323.5       3,007.8       2,611.1       396.73       7,582         17,500.0       8,575.0       18,563.2       9,910.0       218.5       222.1       -															
17,100.0       8,575.0       18,152.8       9,905.4       208.8       212.2       -117.07       1,883.3       7,938.2       3,008.0       2,627.0       381.02       7.895         17,200.0       8,575.0       18,225.0       9,905.8       211.2       213.9       -117.06       1,885.0       8,010.4       3,010.2       2,625.5       384.64       7.826         17,300.0       8,575.0       18,445.2       9,909.7       213.6       219.3       -117.15       1,882.9       8,230.5       3,009.2       2,617.4       391.83       7,680         17,400.0       8,575.0       18,513.0       9,909.7       216.0       220.9       -117.15       1,882.0       8,298.3       3,009.2       2,617.4       391.83       7,680         17,436.9       8,575.0       18,538.2       9,909.7       216.9       221.5       -117.15       1,881.8       8,323.5       3,007.8       2,611.1       396.73       7,582         17,500.0       8,575.0       18,563.2       9,910.0       218.5       222.1       -117.16       1,881.9       8,348.5       3,008.2       2,609.7       398.49       7,549         17,600.0       8,575.0       18,609.0       9,911.4       220.9       223.2       -															
17,200.0       8,575.0       18,225.0       9,905.8       211.2       213.9       -117.06       1,885.0       8,010.4       3,010.2       2,625.5       384.64       7.826         17,300.0       8,575.0       18,445.2       9,909.7       213.6       219.3       -117.14       1,882.9       8,230.5       3,009.2       2,617.4       391.83       7.680         17,400.0       8,575.0       18,513.0       9,909.7       216.0       220.9       -117.15       1,882.0       8,298.3       3,008.0       2,612.6       395.41       7.607         17,436.9       8,575.0       18,538.2       9,909.7       216.9       221.5       -117.15       1,881.8       8,323.5       3,007.8       2,611.1       396.73       7.582         17,500.0       8,575.0       18,563.2       9,910.0       218.5       222.1       -117.16       1,881.9       8,348.5       3,008.2       2,609.7       398.49       7.549         17,600.0       8,575.0       18,669.0       9,911.4       220.9       223.2       -117.18       1,882.5       8,394.3       3,010.5       2,609.2       401.30       7.502         17,700.0       8,575.0       18,855.0       9,920.9       223.3       229.2       -	17,000.0	8,575.0	18,068.9	9,906.5	206.3	210.2	-117.10	1,881.5	7,854.3	3,006.7	2,629.8	376.98	7.976		
17,300.0       8,575.0       18,445.2       9,909.7       213.6       219.3       -117.14       1,882.9       8,230.5       3,009.2       2,617.4       391.83       7,680         17,400.0       8,575.0       18,513.0       9,909.7       216.0       220.9       -117.15       1,882.0       8,298.3       3,008.0       2,612.6       395.41       7,607         17,436.9       8,575.0       18,538.2       9,909.7       216.9       221.5       -117.15       1,881.8       8,323.5       3,007.8       2,611.1       396.73       7,582         17,500.0       8,575.0       18,663.2       9,910.0       218.5       222.1       -117.16       1,881.9       8,348.5       3,008.2       2,609.7       398.49       7,549         17,600.0       8,575.0       18,609.0       9,911.4       220.9       223.2       -117.18       1,882.5       8,394.3       3,010.5       2,609.2       401.30       7,502         17,700.0       8,575.0       18,855.0       9,920.9       223.3       229.2       -117.37       1,879.5       8,640.0       3,011.0       2,602.1       408.84       7,365         17,800.0       8,575.0       19,000.9       9,921.1       225.8       232.8       -															
17,400.0       8,575.0       18,513.0       9,909.7       216.0       220.9       -117.15       1,882.0       8,298.3       3,008.0       2,612.6       395.41       7.607         17,436.9       8,575.0       18,538.2       9,909.7       216.9       221.5       -117.15       1,881.8       8,323.5       3,007.8       2,611.1       396.73       7.582         17,500.0       8,575.0       18,663.2       9,910.0       218.5       222.1       -117.16       1,881.9       8,348.5       3,008.2       2,609.7       396.49       7.549         17,600.0       8,575.0       18,669.0       9,911.4       220.9       223.2       -117.18       1,882.5       8,394.3       3,010.5       2,609.2       401.30       7.502         17,700.0       8,575.0       18,855.0       9,920.9       223.3       229.2       -117.37       1,879.5       8,640.0       3,011.0       2,602.1       408.84       7.365         17,800.0       8,575.0       19,000.9       9,921.1       225.8       232.8       -117.41       1,875.1       8,785.9       3,008.3       2,594.2       414.06       7.265         17,900.0       8,575.0       19,065.5       9,920.2       228.2       234.3       -															
17,436.9       8,575.0       18,538.2       9,909.7       216.9       221.5       -117.15       1,881.8       8,323.5       3,007.8       2,611.1       396.73       7.582         17,500.0       8,575.0       18,663.2       9,910.0       218.5       222.1       -117.16       1,881.9       8,348.5       3,008.2       2,609.7       398.49       7.549         17,600.0       8,575.0       18,609.0       9,911.4       220.9       223.2       -117.18       1,882.5       8,394.3       3,010.5       2,609.2       401.30       7.502         17,700.0       8,575.0       18,855.0       9,920.9       223.3       229.2       -117.37       1,879.5       8,640.0       3,011.0       2,602.1       408.84       7.365         17,800.0       8,575.0       19,000.9       9,921.1       225.8       232.8       -117.41       1,875.1       8,785.9       3,008.3       2,594.2       414.06       7.265         17,900.0       8,575.0       19,065.5       9,920.2       228.2       234.3       -117.41       1,873.8       8,850.4       3,005.7       2,588.0       417.69       7,196															
17,500.0       8,575.0       18,563.2       9,910.0       218.5       222.1       -117.16       1,881.9       8,348.5       3,008.2       2,609.7       398.49       7,549         17,600.0       8,575.0       18,609.0       9,911.4       220.9       223.2       -117.18       1,882.5       8,394.3       3,010.5       2,609.2       401.30       7,502         17,700.0       8,575.0       18,855.0       9,920.9       223.3       229.2       -117.37       1,879.5       8,640.0       3,011.0       2,602.1       408.84       7,365         17,800.0       8,575.0       19,000.9       9,921.1       225.8       232.8       -117.41       1,875.1       8,785.9       3,008.3       2,594.2       414.06       7,265         17,900.0       8,575.0       19,065.5       9,920.2       228.2       234.3       -117.41       1,873.8       8,850.4       3,005.7       2,588.0       417.69       7,196															
17,600.0       8,575.0       18,609.0       9,911.4       220.9       223.2       -117.18       1,882.5       8,394.3       3,010.5       2,609.2       401.30       7.502         17,700.0       8,575.0       18,855.0       9,920.9       223.3       229.2       -117.37       1,879.5       8,640.0       3,011.0       2,602.1       408.84       7.365         17,800.0       8,575.0       19,000.9       9,921.1       225.8       232.8       -117.41       1,875.1       8,785.9       3,008.3       2,594.2       414.06       7.265         17,900.0       8,575.0       19,065.5       9,920.2       228.2       234.3       -117.41       1,873.8       8,850.4       3,005.7       2,588.0       417.69       7.196	17,436.9	8,575.0	18,538.2	9,909.7	216.9	221.5	-117.15	1,881.8	8,323.5	3,007.8	2,611.1	396.73	7.582		
17,700.0     8,575.0     18,855.0     9,920.9     223.3     229.2     -117.37     1,879.5     8,640.0     3,011.0     2,602.1     408.84     7.365       17,800.0     8,575.0     19,000.9     9,921.1     225.8     232.8     -117.41     1,875.1     8,785.9     3,008.3     2,594.2     414.06     7.265       17,900.0     8,575.0     19,065.5     9,920.2     228.2     234.3     -117.41     1,873.8     8,850.4     3,005.7     2,588.0     417.69     7.196															
17,800.0     8,575.0     19,000.9     9,921.1     225.8     232.8     -117.41     1,875.1     8,785.9     3,008.3     2,594.2     414.06     7.265       17,900.0     8,575.0     19,065.5     9,920.2     228.2     234.3     -117.41     1,873.8     8,850.4     3,005.7     2,588.0     417.69     7.196															
17,900.0 8,575.0 19,065.5 9,920.2 228.2 234.3 -117.41 1,873.8 8,850.4 3,005.7 2,588.0 417.69 7.196															
18,000.0 8,575.0 19,183.9 9,918.2 230.6 237.2 -117.39 1,872.1 8,968.8 3,003.5 2,581.0 422.51 7,109	17,900.0	8,575.0	19,065.5	9,920.2	228.2	234.3	-117.41	1,873.8	8,850.4	3,005.7	2,588.0	417.69	7.196		
	18,000.0	8,575.0	19,183.9	9,918.2	230.6	237.2	-117.39	1,872.1	8,968.8	3,003.5	2,581.0	422.51	7.109		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Well Simon Camamile Fed Com #126H

Offset De	sign	Simon 0	Camamile	Fed Com -	Simon C	amamile Fe	d Com #204H	- Wellbore	#1 - Actua	I			Offset Site Error:	0.0 usft
Survey Progr		-MWD Offse		Semi Major	Avia				Dista				Offset Well Error:	0.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
18,100.0	8,575.0	19,267.8	9,917.2	233.0	239.3	-117.39	1,870.4	9,052.7	3,001.1	2,574.5	426.54	7.036		
18,200.0	8,575.0	19,313.7	9,917.2	235.5	240.4	-117.39	1,869.7	9,098.6	2,999.7	2,570.1	429.63	6.982		
18,218.9	8,575.0	19,321.2	9,917.3	235.9	240.6	-117.40	1,869.6	9,106.1	2,999.7	2,569.5	430.17	6.973		
18,300.0	8,575.0	19,375.0	9,918.7	237.9	241.9	-117.42	1,869.8	9,159.9	3,000.5	2,567.6	432.93	6.931		
18,400.0	8,575.0	19,477.7	9,921.1	240.3	244.4	-117.45	1,870.7	9,262.6	3,002.3	2,565.0	437.25	6.866		
18,500.0	8,575.0	19,614.8	9,921.3	242.8	247.7	-117.46	1,870.3	9,399.6	3,001.8	2,559.3	442.53	6.783		
18,550.0	8,575.0	19,652.4	9,921.8	244.0	248.6	-117.47	1,870.0	9,437.2	3,001.7	2,557.4	444.37	6.755		
18,600.0	8,575.0	19,699.8	9,922.8	245.2	249.8	-117.49	1,869.6	9,484.7	3,001.8	2,555.3	446.42	6.724		
18,700.0	8,575.0	19,800.4	9,924.1	247.6	252.2	-117.52	1,869.1	9,585.2	3,001.8	2,551.1	450.71	6.660		
18,800.0	8,575.0	19,890.4	9,925.0	250.1	254.4	-117.54	1,868.9	9,675.2	3,002.0	2,547.2	454.76	6.601		
18,900.0	8,575.0	19,968.6	9,926.9	252.5	256.3	-117.57	1,868.6	9,753.4	3,002.7	2,544.3	458.44	6.550		
19,000.0	8,575.0	19,000.0	9,931.7	255.0	232.7	-117.67	1,867.7	9,881.6	3,003.8	2,564.6	439.27	6.838		
19,100.0	8,575.0	20,203.7	9,935.6	257.4	262.0	-117.75	1,865.3	9,988.3	3,003.4	2,536.0	467.43	6.425		
19,102.4	8,575.0	20,205.0	9,935.6	257.4	262.1	-117.75	1,865.3	9,989.6	3,003.4	2,535.9	467.51	6.424		
19,200.0	8,575.0	20,273.0	9,938.5	259.8	263.7	-117.81	1,864.3	10,057.6	3,004.0	2,533.2	470.79	6.381		
19,300.0	8,575.0	20,366.8	9,941.2	262.3	266.0	-117.86	1,864.3	10,151.3	3,005.2	2,530.4	474.81	6.329		
19,400.0	8,575.0	20,477.7	9,943.0	264.7	268.7	-117.89	1,864.7	10,262.2	3,006.2	2,526.8	479.36	6.271		
19,500.0	8,575.0	20,558.8	9,944.3	267.1	270.7	-117.91	1,864.9	10,343.3	3,007.1	2,524.0	483.13	6.224		
19,600.0	8,575.0	20,619.0	9,945.6	269.6	272.1	-117.92	1,865.8	10,403.4	3,009.3	2,523.0	486.30	6.188		
19,700.0	8,575.0	20,820.3	9,947.5	272.0	277.0	-117.95	1,867.0	10,604.7	3,009.9	2,516.6	493.29	6.102		
19,729.1	8,575.0	20,831.9	9,947.6	272.7	277.3	-117.95	1,867.0	10,616.3	3,009.9	2,515.8	494.12	6.091		
19,800.0	8,575.0	20,874.3	9,947.9	274.5	278.4	-117.95	1,867.1	10,658.7	3,010.2	2,513.8	496.46	6.063		
19,900.0	8,575.0	19,900.0	9,949.3	276.9	254.6	-117.97	1,867.6	10,767.4	3,011.1	2,533.7	477.37	6.308		
20,000.0	8,575.0	21,078.8	9,949.8	279.3	283.3	-117.98	1,867.7	10,863.2	3,011.4	2,506.2	505.19	5.961		
20,100.0	8,575.0	21,220.6	9,949.9	281.8	286.8	-117.98	1,868.3	11,005.0	3,011.7	2,501.1	510.61	5.898		
20,200.0	8,575.0	21,374.3	9,949.4	284.2	290.5	-117.99	1,866.4	11,158.7	3,010.5	2,494.3	516.15	5.833		
20,300.0	8,575.0	21,494.0	9,948.5	286.6	293.5	-118.00	1,863.2	11,278.3	3,007.7	2,486.8	520.86	5.774		
20,400.0	8,575.0	21,576.0	9,947.4	289.1	295.5	-118.00	1,861.3	11,360.3	3,004.9	2,480.0	524.86	5.725		
20,500.0	8,575.0	21,620.5	9,946.8	291.5	296.6	-118.00	1,860.9	11,404.8	3,003.3	2,475.3	528.00	5.688		
20,530.7	8,575.0	21,633.6	9,946.7	292.3	296.9	-118.00	1,860.9	11,417.9	3,003.2	2,474.3	528.91	5.678		
20,600.0	8,575.0	21,672.0	9,946.8	294.0	297.8	-117.99	1,861.2	11,456.3	3,003.7	2,472.6	531.13	5.655		
20,700.0	8,575.0	21,748.3	9,947.7	296.4	299.7	-118.00	1,862.4	11,532.6	3,005.4	2,470.6	534.82	5.619		
20,800.0	8,575.0	21,970.8	9,946.7	298.9	305.1	-117.98	1,863.5	11,755.1	3,006.0	2,463.7	542.32	5.543		
20,900.0	8,575.0	22,048.4	9,944.6	301.3	307.0	-117.94	1,863.1	11,832.6	3,004.1	2,457.8	546.33	5.499		
21,000.0	8,575.0	22,125.9	9,943.3	303.7	308.9	-117.93	1,862.9	11,910.1	3,003.0	2,452.7	550.26	5.457		
21,070.7	8,575.0	22,173.7	9,943.0	305.5	310.0	-117.92	1,862.8	11,957.9	3,002.7	2,449.9	552.81	5.432		
21,100.0	8,575.0	22,194.2	9,943.0	306.2	310.5	-117.92	1,862.9	11,978.4	3,002.7	2,448.9	553.87	5.421		
21,200.0	8,575.0	22,261.0	9,942.8	308.6	312.2	-117.91	1,863.3	12,045.2	3,003.2	2,445.8	557.38	5.388		
21,213.6	8,575.0	22,261.0	9,942.8	309.0	312.2	-117.91	1,863.3	12,045.2	3,003.4	2,445.8	557.59	5.386 S	F	

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Offset Des	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #205H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usf
Survey Progr													Offset Well Error:	0.0 usf
Refere		Offse		Semi Major					Dista					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	1.0	-1.0	0.0	0.0	-45.25	29.8	-30.0	42.3					
100.0	100.0	101.0	99.0	0.1	0.1	-45.25	29.8	-30.0	42.3	42.0	0.26	162.720		
200.0	200.0	201.0	199.0	0.5	0.5	-45.25	29.8	-30.0	42.3	41.3	0.98	43.293		
300.0	300.0	301.0	299.0	0.8	8.0	-45.25	29.8	-30.0	42.3	40.6	1.69	24.968		
400.0	400.0	401.0	399.0	1.2	1.2	-45.25	29.8	-30.0	42.3	39.9	2.41	17.542		
500.0	500.0	501.0	499.0	1.6	1.6	-45.25	29.8	-30.0	42.3	39.2	3.13	13.521		
600.0	600.0	601.0	599.0	1.9	1.9	-45.25	29.8	-30.0	42.3		3.84	11.000		
700.0	700.0	701.0	699.0	2.3	2.3	-45.25	29.8	-30.0	42.3		4.56	9.271		
800.0	0.008	801.0	799.0	2.6	2.6	-45.25	29.8	-30.0	42.3		5.28	8.012		
900.0	900.0	901.0	899.0	3.0	3.0	-45.25	29.8	-30.0	42.3		6.00	7.054	_	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	-45.25	29.8	-30.0	42.3		6.71	6.300 C		
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	96.87	29.8	-30.0	42.5		7.41	5.732 E	3	
1,200.0	1,199.7	1,201.3	1,198.7	4.0	4.1	105.35	29.8	-30.0	43.8		8.11	5.398		
1,300.0	1,299.1	1,301.9	1,298.1	4.4	4.4	117.88	29.8	-30.0	47.8	39.0	8.81	5.427		
1,372.0	1,370.4	1,369.4	1,369.4	4.6	4.7	127.69	29.8	-30.0	53.6		9.31	5.757		
1,400.0	1,398.0	1,403.0	1,397.0	4.7	4.8	131.30	29.8	-30.0	56.5		9.53	5.929		
1,500.0	1,496.7	1,495.7	1,495.7	5.1	5.1	141.48	29.8	-30.0	68.3	58.1	10.21	6.690		
1,600.0	1,595.4	1,593.4	1,593.4	5.5	5.5	147.48	30.6	-31.3	82.2		10.90	7.538		
1,700.0	1,694.1	1,691.0	1,690.8	5.9	5.8	149.86	33.0	-35.5	97.8		11.60	8.433		
1,800.0	1,792.7	1,788.3	1,787.8	6.3	6.2	149.99	37.2	-42.5	114.7	102.4	12.30	9.322		
1,900.0	1,891.4	1,885.2	1,884.0	6.7	6.5	148.73	43.1	-52.2	132.7	119.7	13.01	10.199		
2,000.0	1,990.1	1,983.1	1,981.0	7.1	6.9	147.00	50.1	-63.8	151.5		13.74	11.032		
2,100.0	2,088.8	2,081.2	2,078.1	7.5	7.2	145.63	57.1	-75.5	170.5		14.48	11.780		
2,200.0	2,187.5	2,179.3	2,175.3	7.9	7.6	144.54	64.1	-87.3	189.6	174.4	15.22	12.455		
2,300.0	2,286.2	2,277.4	2,272.4	8.3	8.0	143.65	71.2	-99.0	208.7	192.7	15.97	13.065		
2,400.0	2,384.9	2,375.5	2,369.6	8.8	8.4	142.91	78.2	-110.7	227.9	211.1	16.73	13.619		
2,500.0	2,483.5	2,473.6	2,466.7	9.2	8.8	142.28	85.2	-122.4	247.1	229.6	17.49	14.123		
2,600.0	2,582.2	2,571.7	2,563.9	9.6	9.1	141.75	92.3	-134.1	266.3		18.26	14.584		
2,700.0	2,680.9	2,669.8	2,661.0	10.1	9.5	141.28	99.3	-145.8	285.5		19.03	15.006		
2,800.0 2,900.0	2,779.6 2,878.3	2,767.9 2,866.0	2,758.2 2,855.3	10.5 10.9	9.9 10.3	140.88 140.52	106.3 113.4	-157.5 -169.2	304.7 324.0	284.9 303.4	19.80 20.57	15.393 15.751		
3,000.0	2,977.0	2,964.1	2,952.5	11.3	10.7	140.20	120.4	-180.9	343.3	321.9	21.35	16.081		
3,100.0	3,075.7	3,062.3	3,049.6	11.8	11.1	139.92	127.4	-192.6	362.6	340.4	22.12	16.387		
3,200.0	3,174.3	3,160.4	3,146.8	12.2	11.5	139.67	134.4	-204.3	381.8	358.9	22.90	16.671		
3,300.0	3,273.0	3,258.5	3,244.0	12.6	11.9	139.44	141.5	-216.0	401.1	377.4	23.69	16.935		
3,400.0	3,371.7	3,356.6	3,341.1	13.1	12.3	139.23	148.5	-227.7	420.4	396.0	24.47	17.182		
3,500.0	3,470.4	3,454.7	3,438.3	13.5	12.7	139.04	155.5	-239.4	439.7	414.5	25.25	17.413		
3,600.0	3,569.1	3,552.8	3,535.4	14.0	13.1	138.86	162.6	-251.1	459.0	433.0	26.04	17.629		
3,700.0	3,667.8	3,650.9	3,632.6	14.4	13.5	138.70	169.6	-262.8	478.4	451.5	26.83	17.832		
3,800.0	3,766.5	3,749.0	3,729.7	14.8	13.9	138.55	176.6	-274.5	497.7	470.1	27.61	18.023		
3,900.0	3,865.1	3,847.1	3,826.9	15.3	14.3	138.42	183.7	-286.2	517.0	488.6	28.40	18.203		
4,000.0	3,963.8	3,945.2	3,924.0	15.7	14.7	138.29	190.7	-297.9	536.3	507.1	29.19	18.373		
4,100.0	4,062.5	4,043.3	4,021.2	16.1	15.1	138.17	197.7	-309.7	555.6	525.7	29.98	18.533		
4,200.0	4,161.2	4,141.5	4,118.3	16.6	15.5	138.06	204.7	-321.4	575.0	544.2	30.77	18.685		
4,300.0	4,259.9	4,239.6	4,215.5	17.0	15.9	137.96	211.8	-333.1	594.3	562.7	31.56	18.829		
4,400.0	4,358.6	4,337.7	4,312.7	17.5	16.3	137.86	218.8	-344.8	613.6	581.3	32.36	18.965		
4,500.0	4,457.3	4,435.8	4,409.8	17.9	16.7	137.77	225.8	-356.5	633.0	599.8	33.15	19.095		
4,600.0	4,555.9	4,533.9	4,507.0	18.3	17.1	137.68	232.9	-368.2	652.3	618.3	33.94	19.218		
4,700.0	4,654.6	4,632.0	4,604.1	18.8	17.5	137.60	239.9	-379.9	671.6	636.9	34.74	19.335		
4,800.0	4,753.3	4,730.1	4,701.3	19.2	17.9	137.53	246.9	-391.6	691.0	655.4	35.53	19.447		
4,900.0	4,852.0	4,828.2	4,798.4	19.7	18.3	137.46	254.0	-403.3	710.3	674.0	36.32	19.554		
		4,926.3	4,895.6	20.1	18.7	137.39	261.0	-415.0	729.6	692.5	37.12	19.656		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

 TVD Reference:
 KB @ 3377.5usft

 MD Reference:
 KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #205H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Prog Refer		WD Offset		Semi Major	Avia				Dista				Offset Well Error:	0.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
5,100.0	5,049.4	5,024.4	4,992.7	20.6	19.1	137.32	268.0	-426.7	749.0	711.1	37.91	19.754		
5,200.0	5,148.1	5,122.5	5,089.9	21.0	19.5	137.26	275.0	-438.4	768.3	729.6	38.71	19.848		
5,300.0	5,246.7	5,220.7	5,187.0	21.4	20.0	137.20	282.1	-450.1	787.7	748.1	39.51	19.937		
5,400.0	5,345.4	5,318.8	5,284.2	21.9	20.4	137.15	289.1	-461.8	807.0	766.7	40.30	20.023		
5,500.0	5,444.1	5,416.9	5,381.3	22.3	20.8	137.09	296.1	-473.5	826.3	785.2	41.10	20.105		
5,600.0	5,542.8	5,515.0	5,478.5	22.8	21.2	137.04	303.2	-485.2	845.7	803.8	41.90	20.184		
5,700.0	5,641.5	5,613.1	5,575.7	23.2	21.6	137.00	310.2	-496.9	865.0	822.3	42.69	20.260		
5,800.0	5,740.2	5,711.2	5,672.8	23.7	22.0	136.95	317.2	-508.6	884.4	840.9	43.49	20.334		
5,900.0 6,000.0	5,838.9 5,937.5	5,809.3 5,907.4	5,770.0 5,867.1	24.1 24.5	22.4 22.8	136.91 136.86	324.3 331.3	-520.3 -532.1	903.7 923.1	859.4 878.0	44.29 45.09	20.404 20.472		
6,100.0	6,036.2	6,005.5	5,964.3	25.0	23.2	136.82	338.3	-543.8	942.4	896.5	45.89	20.472		
6,200.0	6,134.9	6,103.6	6,061.4	25.4	23.6	136.78	345.3	-555.5	961.7	915.1	46.69	20.600		
6,300.0	6,233.6	6,201.7	6,158.6	25.9	24.0	136.75	352.4	-567.2	981.1	933.6	47.48	20.661		
6,400.0	6,332.3	6,300.1	6,255.7	26.3	24.4	136.73	359.4	-578.9	1,000.4	953.0	48.29	20.719		
6,500.0	6,431.0	6,402.0	6,352.9	26.8	24.9	136.68	366.4	-590.6	1,019.8	970.7	49.10	20.770		
6,600.0	6,529.6	6,503.9	6,450.0	27.2	25.3	136.64	373.5	-602.3	1,039.1	989.2	49.91	20.818		
6,700.0	6,628.3	6,605.8	6,547.2	27.6	25.7	136.61	380.5	-614.0	1,058.5	1,007.7	50.73	20.865		
6,800.0	6,727.0	6,707.7	6,644.4	28.1	26.1	136.58	387.5	-625.7	1,077.8	1,026.3	51.54	20.911		
6,900.0	6,825.7	6,809.6	6,741.5	28.5	26.6	136.55	394.6	-637.4	1,097.2	1,044.8	52.36	20.954		
7,000.0	6,924.4	6,888.5	6,838.7	29.0	26.9	136.52	401.6	-649.1	1,116.5	1,063.4	53.08	21.034		
7,100.0	7,023.1	6,986.6	6,935.8	29.4	27.3	136.49	408.6	-660.8	1,135.9	1,082.0	53.88	21.081		
7,200.0	7,121.8	7,084.7	7,033.0	29.9	27.7	136.47	415.6	-672.5	1,155.2	1,100.5	54.68	21.126		
7,300.0	7,220.4	7,182.8	7,130.1	30.3	28.1	136.44	422.7	-684.2	1,174.6	1,119.1	55.48	21.170		
7,400.0	7,319.1	7,302.5	7,248.9	30.7	28.6	136.47	430.4	-697.2	1,193.3	1,136.8	56.45	21.139		
7,466.5	7,384.7	7,387.4	7,333.3	31.0	28.9	136.62	434.5	-703.8	1,204.4	1,147.3	57.09	21.095		
7,500.0	7,417.8	7,430.3	7,376.2	31.2	29.1	136.77	436.0	-706.4	1,209.5	1,152.1	57.41	21.069		
7,600.0	7,516.9	7,558.9	7,504.6	31.6	29.6	137.28	438.6	-710.7	1,221.9	1,163.7	58.29	20.963		
7,700.0	7,616.2	7,669.5	7,615.2	32.0	29.9	137.75	438.8	-711.1	1,230.6	1,171.5	59.04	20.844		
7,800.0	7,715.8	7,769.1	7,714.8	32.4	30.2	138.09	438.8	-711.1	1,237.1	1,177.4	59.72	20.715		
7,900.0 8,000.0	7,815.6 7,915.5	7,868.9 7,968.8	7,814.6 7,914.5	32.8 33.1	30.6 30.9	138.33 138.47	438.8 438.8	-711.1 -711.1	1,241.7 1,244.4	1,181.3 1,183.3	60.39 61.06	20.561 20.381		
8,086.5	8,002.0	8,055.3	8,001.0	33.3	31.2	-0.68	438.8	-711.1	1,245.1	1,183.5	61.62	20.208		
8,100.0	8,015.5	8,068.8	8,014.5	33.4	31.2	-90.49	438.8	-711.1	1,245.1	1,183.4	61.70	20.180		
8,150.0	8,065.4	8,118.7	8,064.4	33.5	31.4	-90.64	438.8	-711.1	1,245.2	1,183.1	62.00	20.082		
8,200.0	8,114.8	8,168.1	8,113.8	33.6	31.5	-90.98	438.8	-711.1	1,245.3	1,183.0	62.29	19.990		
8,250.0	8,163.3	8,216.6	8,162.3	33.7	31.7	-91.49	438.8	-711.1	1,245.5	1,183.0	62.57	19.907		
8,300.0	8,210.6	8,263.9	8,209.6	33.8	31.8	-92.14	438.8	-711.1	1,246.1	1,183.2	62.83	19.833		
8,350.0	8,256.3	8,309.6	8,255.3	33.8	32.0	-92.89	438.8	-711.1	1,247.0	1,184.0	63.07	19.772		
8,400.0	8,300.1	8,353.4	8,299.1	33.9	32.1	-93.70	438.8	-711.1	1,248.6	1,185.3	63.30	19.726		
8,450.0	8,341.6	8,405.1	8,340.6	33.9	32.3	-94.51	438.8	-711.1	1,251.0	1,187.5	63.55	19.687		
8,500.0	8,380.6	8,433.8	8,379.6	33.9	32.4	-95.28	438.8	-711.1	1,254.5	1,190.8	63.71	19.690		
8,550.0	8,416.6	8,469.9	8,415.6	33.9	32.5	-95.95	438.8	-711.1	1,259.2	1,195.3	63.90	19.706		
8,600.0	8,449.5	8,502.7	8,448.5	33.9	32.6	-96.46	438.8	-711.1	1,265.4	1,201.3	64.07	19.748		
8,650.0	8,479.0	8,532.2	8,478.0	33.9	32.7	-96.75	438.8	-711.1	1,273.2	1,208.9	64.24	19.818		
8,700.0	8,504.8	8,558.1	8,503.8	33.9	32.8	-96.78	438.8	-711.1	1,282.8	1,218.4	64.40	19.918		
8,750.0	8,526.9	8,580.1	8,525.9	33.8	32.9	-96.50	438.8	-711.1	1,294.3	1,229.8	64.56	20.049		
8,800.0	8,544.9	8,601.9	8,543.9	33.8	32.9	-95.87	438.8	-711.1	1,307.8	1,243.1	64.72	20.208		
8,850.0	8,558.8	8,612.0	8,557.8	33.8	33.0	-94.86	438.8	-711.1	1,323.3	1,258.5	64.84	20.408		
8,900.0	8,568.4	8,621.7	8,567.4	33.7	33.0	-93.44	438.8	-711.1	1,340.7	1,275.8	64.97	20.636		
8,950.0 8,986.5	8,573.8 8,575.0	8,627.0 8,628.2	8,572.8 8,574.0	33.7 33.7	33.0 33.0	-91.60 -90.00	438.8 438.8	-711.1 -711.1	1,360.0 1,375.0	1,294.9 1,309.9	65.08 65.16	20.896 21.104		
8,993.2	8,575.0	8,628.2	8,574.0	33.8	33.0	-90.00	438.8	-711.1	1,377.9	1,312.7	65.17	21.144		

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Well Simon Camamile Fed Com #126H

Output errors are at 2.00 sigma EDM 5000.14 Single User Db Database:

Offset De	sign	Simon C	Camamile	Fed Com -	Simon C	amamile Fe	d Com #205H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 usft
Survey Progr				0	A! -				Di-4-				Offset Well Error:	0.0 usft
Refero Measured	ence Vertical	Offse Measured	t Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	e Centre	Dista Between	nce Between	Minimum	Separation	Manaina	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
9,000.0	8,575.0	8,628.2	8,574.0	33.8	33.0	-90.00	438.8	-711.1	1,380.8	1,315.7	65.18	21.185		
9,100.0	8,575.0	8,628.2	8,574.0	33.9	33.0	-90.00	438.8	-711.1	1,427.1	1,361.7	65.39	21.824		
9,200.0	8,575.0	8,628.2	8,574.0	34.4	33.0	-90.00	438.8	-711.1	1,478.7	1,413.1	65.64	22.528		
9,300.0	8,575.0	8,628.2	8,574.0	35.3	33.0	-90.00	438.8	-711.1	1,535.1	1,469.2	65.91	23.292		
9,400.0	8,575.0	8,628.2	8,574.0	36.3	33.0	-90.00	438.8	-711.1	1,595.8	1,529.6	66.19	24.111		
9,500.0	8,575.0	8,628.2	8,574.0	37.6	33.0	-90.00	438.8	-711.1	1,660.3	1,593.9	66.46	24.980		
9,600.0	8,575.0	8,628.2	8,574.0	38.9	33.0	-90.00	438.8	-711.1 -711.1	1,728.2	1,661.4	66.74	25.895		
9,700.0 9,800.0	8,575.0 8,575.0	8,628.2 11,040.0	8,574.0 9,853.3	40.4 41.9	33.0 45.5	-90.00 -134.12	438.8 515.8	-711.1 673.3	1,799.1 1,837.7	1,732.1 1,770.6	67.00 67.10	26.850 27.387		
9,900.0	8,575.0	11,140.0	9,854.5	43.6	47.0	-134.12	515.6	773.3	1,838.5	1,770.0	69.45	26.474		
10,000.0	8,575.0	11,240.0	9,855.7	45.3	48.6	-134.18	516.1	873.3	1,839.3	1,767.4	71.90	25.581		
10,100.0	8,575.0	11,340.0	9,856.9	47.0	50.3	-134.20	516.2	973.3	1,840.2	1,765.7	74.46	24.715		
10,100.0	8,575.0	11,440.0	9,858.1	48.9	52.0	-134.23	516.2	1,073.3	1,841.0	1,763.7	77.10	23.879		
10,200.0	8,575.0	11,540.0	9,859.3	50.8	53.8	-134.26	516.4	1,173.3	1,841.9	1,762.0	79.82	23.075		
10,400.0	8,575.0	11,640.0	9,860.5	52.7	55.6	-134.28	516.5	1,173.3	1,842.7	1,760.1	82.61	22.306		
10,500.0	8,575.0	11,740.0	9,861.7	54.7	57.5	-134.31	516.7	1,373.2	1,843.5	1,758.1	85.46	21.571		
10,600.0	8,575.0	11,840.0	9,862.9	56.7	59.4	-134.34	516.8	1,473.2	1,844.4	1,756.0	88.38	20.870		
10,700.0	8,575.0	11,940.0	9,864.1	58.7	61.4	-134.36	516.9	1,573.2	1,845.2	1,753.9	91.34	20.202		
10,800.0	8,575.0	12,040.0	9,865.3	60.8	63.4	-134.39	517.0	1,673.2	1,846.1	1,751.7	94.34	19.567		
10,900.0	8,575.0	12,140.0	9,866.5	62.9	65.4	-134.42	517.1	1,773.2	1,846.9	1,749.5	97.39	18.963		
11,000.0	8,575.0	12,240.0	9,867.7	65.0	67.4	-134.44	517.3	1,873.1	1,847.8	1,747.3	100.48	18.389		
11,100.0	8,575.0	12,340.0	9,868.9	67.1	69.5	-134.47	517.4	1,973.1	1,848.6	1,745.0	103.60	17.844		
11,200.0	8,575.0	12,439.9	9,870.1	69.3	71.6	-134.50	517.5	2,073.1	1,849.5	1,742.7	106.75	17.325		
11,300.0	8,575.0	12,539.9	9,871.3	71.5	73.7	-134.52	517.6	2,173.1	1,850.3	1,740.4	109.93	16.832		
11,400.0	8,575.0	12,639.9	9,872.5	73.7	75.9	-134.55	517.7	2,273.1	1,851.1	1,738.0	113.13	16.363		
11,500.0	8,575.0	12,739.9	9,873.7	75.9	78.0	-134.57	517.9	2,373.1	1,852.0	1,735.6	116.36	15.917		
11,600.0	8,575.0	12,839.9	9,874.9	78.2	80.2	-134.60	518.0	2,473.1	1,852.8	1,733.2	119.60	15.492		
11,700.0	8,575.0	12,939.9	9,876.1	80.4	82.4	-134.63	518.1	2,573.0	1,853.7	1,730.8	122.87	15.087		
11,800.0	8,575.0	13,039.9	9,877.3	82.7	84.6	-134.65	518.2	2,673.0	1,854.5	1,728.4	126.15	14.701		
11,900.0	8,575.0	13,139.9	9,878.5	84.9	86.9	-134.68	518.4	2,773.0	1,855.4	1,725.9	129.45	14.333		
12,000.0	8,575.0	13,239.9	9,879.7	87.2	89.1	-134.71	518.5	2,873.0	1,856.2	1,723.5	132.76	13.982		
12,100.0	8,575.0	13,339.9	9,880.9	89.5	91.3	-134.73	518.6	2,973.0	1,857.1	1,721.0	136.08	13.647		
12,200.0	8,575.0	13,439.9	9,882.1	91.8	93.6	-134.76	518.7	3,073.0	1,857.9	1,718.5	139.42	13.326		
12,300.0	8,575.0	13,539.9	9,883.3	94.1	95.9	-134.78	518.8	3,173.0	1,858.8	1,716.0	142.76	13.020		
12,400.0	8,575.0	13,639.9	9,884.5	96.4	98.1	-134.81	519.0	3,272.9	1,859.6	1,713.5	146.12	12.727		
12,500.0	8,575.0	13,739.8	9,885.7	98.7	100.4	-134.84	519.1	3,372.9	1,860.5	1,711.0	149.49	12.446		
12,600.0	8,575.0	13,839.8	9,886.9	101.0	102.7	-134.86	519.2	3,472.9	1,861.3	1,708.5	152.86	12.177		
12,700.0	8,575.0	13,939.8	9,888.1	103.4	105.0	-134.89	519.3	3,572.9	1,862.2	1,705.9	156.24	11.919		
12,800.0	8,575.0	14,039.8	9,889.3	105.7	107.3	-134.91	519.4	3,672.9	1,863.0	1,703.4	159.63	11.671		
12,900.0 13,000.0	8,575.0 8,575.0	14,139.8 14,239.8	9,890.5 9,891.7	108.0 110.4	109.6 111.9	-134.94 -134.97	519.6 519.7	3,772.9 3,872.9	1,863.9 1,864.7	1,700.9 1,698.3	163.02 166.42	11.433 11.205		
13,100.0	8,575.0	14,339.8	9,892.9	112.7	114.3	-134.99	519.8	3,972.8	1,865.6	1,695.8	169.83	10.985		
13,200.0	8,575.0	14,439.8	9,894.1	115.1	116.6	-135.02	519.9	4,072.8	1,866.4	1,693.2	173.24	10.774		
13,300.0	8,575.0 9,575.0	14,539.8 14,639.8	9,895.3	117.5	118.9	-135.04 135.07	520.0 520.2	4,172.8	1,867.3	1,690.6	176.65	10.571		
13,400.0 13,500.0	8,575.0 8,575.0	14,639.8	9,896.5 9,897.7	119.8 122.2	121.3 123.6	-135.07 -135.10	520.2 520.3	4,272.8 4,372.8	1,868.2 1,869.0	1,688.1 1,685.5	180.07 183.49	10.375 10.186		
13,600.0	8,575.0	14,839.8	9,898.9	124.6	126.0	-135.12	520.4	4,472.8	1,869.9	1,682.9	186.91	10.004		
13,700.0	8,575.0	14,939.8	9,900.1	126.9	128.3	-135.15	520.5	4,572.8	1,870.7	1,680.4	190.34	9.828		
13,800.0	8,575.0	15,039.8	9,901.3	129.3	130.7	-135.17	520.6	4,672.7	1,871.6	1,677.8	193.77	9.659		
13,900.0	8,575.0	15,139.7	9,902.5	131.7	133.0	-135.20	520.8	4,772.7	1,872.4	1,675.2	197.20	9.495		
14,000.0	8,575.0	15,239.7	9,903.7	134.1	135.4	-135.22	520.9	4,872.7	1,873.3	1,672.6	200.64	9.337		
14,100.0	8,575.0	15,339.7	9,904.9	136.4	137.8	-135.25	521.0	4,972.7	1,874.1	1,670.1	204.07	9.184		

Database:

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

Well Simon Camamile Fed Com #126H

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma EDM 5000.14 Single User Db

Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #205H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Prog	ram: 0-M			0									Offset Well Error:	0.0 usft
Refer Measured	ence Vertical	Offset Measured	t Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	e Centre	Dista Between	nce Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	warning	
14,200.0	8,575.0	15,439.7	9,906.1	138.8	140.1	-135.28	521.1	5,072.7	1,875.0	1,667.5	207.51	9.036		
14,300.0	8,575.0	15,539.7	9,907.3	141.2	142.5	-135.30	521.3	5,172.7	1,875.9	1,664.9	210.95	8.893		
14,400.0	8,575.0	15,639.7	9,908.5	143.6	144.9	-135.33	521.4	5,272.7	1,876.7	1,662.3	214.39	8.754		
14,500.0	8,575.0	15,739.7	9,909.7	146.0	147.3	-135.35	521.5	5,372.6	1,877.6	1,659.7	217.83	8.620		
14,600.0	8,575.0	15,839.7	9,910.9	148.4	149.6	-135.38	521.6	5,472.6	1,878.4	1,657.2	221.27	8.489		
14,700.0	8,575.0	15,939.7	9,912.1	150.8	152.0	-135.40	521.7	5,572.6	1,879.3	1,654.6	224.71	8.363		
14,800.0	8,575.0	16,039.7	9,913.3	153.2	154.4	-135.43	521.9	5,672.6	1,880.1	1,652.0	228.15	8.241		
14,900.0	8,575.0	16,139.7	9,914.5	155.6	156.8	-135.46	522.0	5,772.6	1,881.0	1,649.4	231.59	8.122		
15,000.0 15,100.0	8,575.0 8,575.0	16,239.7 16,339.7	9,915.7 9,916.9	158.0 160.4	159.2 161.6	-135.48 -135.51	522.1 522.2	5,872.6 5,972.6	1,881.9 1,882.7	1,646.8 1,644.2	235.04 238.48	8.007 7.895		
15,200.0	8,575.0	16,439.7	9,918.1	162.8	164.0	-135.53	522.3	6,072.5	1,883.6	1,641.7	241.92	7.786		
15,300.0	8,575.0	16,539.6	9,919.3	165.2	166.4	-135.56	522.5	6,172.5	1,884.4	1,639.1	245.37	7.680		
15,400.0	8,575.0	16,639.6	9,920.5	167.6	168.8	-135.58	522.6	6,272.5	1,885.3	1,636.5	248.81	7.577		
15,500.0	8,575.0	16,739.6	9,921.7	170.0	171.2	-135.61	522.7	6,372.5	1,886.2	1,633.9	252.25	7.477		
15,600.0	8,575.0	16,839.6	9,922.9	170.5	173.6	-135.63	522.8	6,472.5	1,887.0	1,631.3	255.69	7.380		
15,700.0	8,575.0	16,939.6	9,924.1	174.9	176.0	-135.66	522.9	6,572.5	1,887.9	1,628.8	259.13	7.285		
15,800.0	8,575.0	17,039.6	9,925.3	177.3	178.4	-135.68	523.1	6,672.5	1,888.8	1,626.2	262.58	7.193		
15,900.0	8,575.0	17,139.6	9,926.5	179.7	180.8	-135.71	523.2	6,772.4	1,889.6	1,623.6	266.02	7.103		
16,000.0	8,575.0	17,239.6	9,927.7	182.1	183.2	-135.73	523.3	6,872.4	1,890.5	1,621.0	269.45	7.016		
16,100.0	8,575.0	17,339.6	9,928.9	184.5	185.6	-135.76	523.4	6,972.4	1,891.3	1,618.5	272.89	6.931		
16,200.0	8,575.0	17,439.6	9,930.1	187.0	188.0	-135.79	523.6	7,072.4	1,892.2	1,615.9	276.33	6.848		
16,300.0	8,575.0	17,539.6	9,931.3	189.4	190.4	-135.81	523.7	7,172.4	1,893.1	1,613.3	279.77	6.767		
16,400.0	8,575.0	17,639.6	9,932.5	191.8	192.8	-135.84	523.8	7,272.4	1,893.9	1,610.7	283.20	6.688		
16,500.0	8,575.0	17,739.6	9,933.7	194.2	195.2	-135.86	523.9	7,372.4	1,894.8	1,608.2	286.64	6.610		
16,600.0	8,575.0	17,839.6	9,934.9	196.6	197.6	-135.89	524.0	7,472.3	1,895.7	1,605.6	290.07	6.535		
16,700.0	8,575.0	17,939.5	9,936.1	199.1	200.0	-135.91	524.2	7,572.3	1,896.5	1,603.0	293.50	6.462		
16,800.0	8,575.0	18,039.5	9,937.3	201.5	202.5	-135.94	524.3	7,672.3	1,897.4	1,600.5	296.93	6.390		
16,900.0	8,575.0	18,139.5	9,938.5	203.9	204.9	-135.96	524.4	7,772.3	1,898.3	1,597.9	300.36	6.320		
17,000.0	8,575.0	18,239.5	9,939.7	206.3	207.3	-135.99	524.5	7,872.3	1,899.1	1,595.3	303.79	6.251		
17,100.0 17,200.0	8,575.0 8,575.0	18,339.5 18,439.5	9,940.9 9,942.1	208.8 211.2	209.7 212.1	-136.01 -136.04	524.6 524.8	7,972.3 8,072.3	1,900.0 1,900.9	1,592.8 1,590.2	307.22 310.65	6.185 6.119		
47 000 0	0.575.0	40 500 5	0.040.0	040.0	044.5	400.00	504.0	0.470.0	4 004 7	4 507 7	044.07	0.055		
17,300.0	8,575.0	18,539.5	9,943.3	213.6	214.5	-136.06	524.9	8,172.2	1,901.7	1,587.7	314.07	6.055		
17,400.0 17,500.0	8,575.0 8,575.0	18,639.5 18,739.5	9,944.5 9,945.7	216.0 218.5	217.0 219.4	-136.09 -136.11	525.0 525.1	8,272.2 8,372.2	1,902.6 1,903.5	1,585.1 1,582.6	317.49 320.92	5.993 5.931		
17,500.0	8,575.0	18,839.5	9,945.7	220.9	219.4	-136.11	525.1	8,472.2	1,903.5	1,582.0	324.34	5.872		
17,700.0	8,575.0	18,939.5	9,948.1	223.3	224.2	-136.16	525.4	8,572.2	1,905.2	1,577.5	327.75	5.813		
17,800.0	8,575.0	19,039.5	9,949.3	225.8	226.7	-136.19	525.5	8,672.2	1,906.1	1,574.9	331.17	5.756		
17,900.0	8,575.0	19,139.5	9,950.5	228.2	229.1	-136.21	525.6	8,772.1	1,907.0	1,572.4	334.59	5.699		
18,000.0	8,575.0	19,239.5	9,951.7	230.6	231.5	-136.24	525.7	8,872.1	1,907.8	1,569.8	338.00	5.644		
18,100.0	8,575.0	19,339.4	9,952.9	233.0	233.9	-136.26	525.9	8,972.1	1,908.7	1,567.3	341.41	5.591		
18,200.0	8,575.0	19,439.4	9,954.1	235.5	236.4	-136.28	526.0	9,072.1	1,909.6	1,564.8	344.82	5.538		
18,300.0	8,575.0	19,539.4	9,955.3	237.9	238.8	-136.31	526.1	9,172.1	1,910.4	1,562.2	348.23	5.486		
18,400.0	8,575.0	19,639.4	9,956.5	240.3	241.2	-136.33	526.2	9,272.1	1,911.3	1,559.7	351.64	5.436		
18,500.0	8,575.0	19,739.4	9,957.7	242.8	243.6	-136.36	526.3	9,372.1	1,912.2	1,557.2	355.04	5.386		
18,600.0	8,575.0	19,839.4	9,958.9	245.2	246.1	-136.38	526.5	9,472.0	1,913.1	1,554.6	358.44	5.337		
18,700.0	8,575.0	19,939.4	9,960.2	247.6	248.5	-136.41	526.6	9,572.0	1,913.9	1,552.1	361.85	5.289		
18,800.0	8,575.0	20,039.4	9,961.4	250.1	250.9	-136.43	526.7	9,672.0	1,914.8	1,549.6	365.24	5.243		
18,900.0	8,575.0	20,139.4	9,962.6	252.5	253.4	-136.46	526.8	9,772.0	1,915.7	1,547.0	368.64	5.197		
19,000.0	8,575.0	20,239.4	9,963.8	255.0	255.8	-136.48	526.9	9,872.0	1,916.6	1,544.5	372.04	5.152		
19,100.0	8,575.0	20,339.4	9,965.0	257.4	258.2	-136.51	527.1	9,972.0	1,917.4	1,542.0	375.43	5.107		
19,200.0	8,575.0	20,439.4	9,966.2	259.8	260.6	-136.53	527.2	10,072.0	1,918.3	1,539.5	378.82	5.064		
19,300.0	8,575.0	20,539.4	9,967.4	262.3	263.1	-136.56	527.3	10,171.9	1,919.2	1,537.0	382.21	5.021		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

 TVD Reference:
 KB @ 3377.5usft

 MD Reference:
 KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

Offset De	•		Camamile	Fed Com -	Simon C	amamile Fe	d Com #205H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Progr Refer		WD <b>O</b> ffse		Semi Major	Auta				Dista				Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor	+E/-W	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
	. ,						(usft)	(usft)						
19,400.0	8,575.0	20,639.4	9,968.6	264.7	265.5	-136.58	527.4	10,271.9	1,920.1	1,534.5	385.60	4.979		
19,500.0	8,575.0	20,739.3	9,969.8	267.1	267.9	-136.60	527.5	10,371.9	1,920.9	1,532.0	388.99	4.938		
19,600.0	8,575.0	20,839.3	9,971.0	269.6	270.4	-136.63	527.7	10,471.9	1,921.8	1,529.4	392.37	4.898		
19,700.0	8,575.0	20,939.3	9,972.2	272.0	272.8	-136.65	527.8	10,571.9	1,922.7	1,526.9	395.76	4.858		
19,800.0	8,575.0	21,039.3	9,973.4	274.5	275.2	-136.68	527.9	10,671.9	1,923.6	1,524.4	399.14	4.819		
19,900.0	8,575.0	21,139.3	9,974.6	276.9	277.7	-136.70	528.0	10,771.9	1,924.4	1,521.9	402.51	4.781		
20,000.0	8,575.0	21,239.3	9,975.8	279.3	280.1	-136.73	528.2	10,871.8	1,925.3	1,519.4	405.89	4.743		
20,100.0	8,575.0	21,339.3	9,977.0	281.8	282.5	-136.75	528.3	10,971.8	1,926.2	1,516.9	409.27	4.706		
20,200.0	8,575.0	21,439.3	9,978.2	284.2	285.0	-136.78	528.4	11,071.8	1,927.1	1,514.4	412.64	4.670		
20,300.0	8,575.0	21,539.3	9,979.4	286.6	287.4	-136.80	528.5	11,171.8	1,928.0	1,512.0	416.01	4.634		
20,400.0	8,575.0	21,639.3	9,980.6	289.1	289.9	-136.82	528.6	11,271.8	1,928.8	1,509.5	419.38	4.599		
20,500.0	8,575.0	21,739.3	9,981.8	291.5	292.3	-136.85	528.8	11,371.8	1,929.7	1,507.0	422.74	4.565		
20,600.0	8,575.0	21,839.3	9,983.0	294.0	294.7	-136.87	528.9	11,471.8	1,930.6	1,504.5	426.11	4.531		
20,700.0	8,575.0	21,939.3	9,984.2	296.4	297.2	-136.90	529.0	11,571.7	1,931.5	1,502.0	429.47	4.497		
20,800.0	8,575.0	22,039.3	9,985.4	298.9	299.6	-136.92	529.1	11,671.7	1,932.4	1,499.5	432.83	4.464		
20,900.0	8,575.0	22,139.2	9,986.6	301.3	302.0	-136.94	529.2	11,771.7	1,933.2	1,497.1	436.19	4.432		
21,000.0	8,575.0	22,239.2	9,987.8	303.7	304.5	-136.97	529.4	11,871.7	1,934.1	1,494.6	439.54	4.400		
21,100.0	8,575.0	22,339.2	9,989.0	306.2	306.9	-136.99	529.5	11,971.7	1,935.0	1,492.1	442.90	4.369		
21,200.0	8,575.0	22,439.2	9,990.2	308.6	309.3	-137.02	529.6	12,071.7	1,935.9	1,489.6	446.25	4.338		
21,213.6	8,575.0	22,452.8	9,990.3	309.0	309.7	-137.02	529.6	12,085.2	1,936.0	1,489.3	446.70	4.334 SI	F	

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Output errors are at

Database: Offset TVD Reference: Well Simon Camamile Fed Com #126H

KB @ 3377.5usft

KB @ 3377.5usft Grid

Minimum Curvature

2.00 sigma EDM 5000.14 Single User Db

Offset Datum

Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #206H	- Wellbore	#1 - Actua	I			Offset Site Error:	0.0 usft
Survey Prog	ıram: 176	-MWD											Offset Well Error:	0.0 usft
Refer Measured	rence Vertical	Offse Measured	t Vertical	Semi Major Reference	Axis Offset	Liabaida	Offset Wellbor	. Cantra	Dista	ance Between	Minimum	Separation		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-90.44	-0.2	-30.0	30.0					
100.0	100.0	100.0	100.0	0.1	0.2	-90.62	-0.3	-30.0	30.0	29.7	0.28	107.802		
190.9	190.9	191.0	190.9	0.5	0.3	-91.12	-0.6	-30.0	30.0	29.2	0.74	40.448		
200.0	200.0	200.0	200.0	0.5	0.4	-91.19	-0.6	-30.0	30.0	29.1	0.84	35.817		
300.0	300.0	299.8	299.8	8.0	0.7	-92.10	-1.1	-30.3	30.4	28.8	1.55	19.576		
400.0	400.0	399.5	399.5	1.2	1.1	-93.18	-1.7	-31.4	31.5	29.2	2.27	13.905		
500.0	500.0	498.6	498.5	1.6	1.4	-94.28	-2.6	-34.4	34.5	31.5	2.99	11.558		
600.0	600.0	597.8	597.6	1.9	1.8	-94.93	-3.4	-39.6	39.9	36.2	3.70	10.761		
700.0	700.0	697.3	696.9	2.3	2.1	-95.67	-4.6	-46.0	46.3	41.9	4.42	10.492		
800.0	800.0	797.1	796.4	2.6	2.5	-96.08	-5.6	-52.7	53.1	48.0	5.13	10.354		
900.0	900.0	896.6	895.7	3.0	2.9	-96.26	-6.5	-59.4	59.9	54.1	5.84	10.264		
1,000.0	1,000.0	995.8	994.7	3.4	3.2	-97.82	-9.2	-66.6	67.5	60.9	6.55	10.293		
1,100.0	1,100.0	1,095.6	1,094.0	3.7	3.6	38.98	-14.6	-73.9	73.9	66.6	7.25	10.187		
1,200.0	1,199.7	1,195.5	1,193.5	4.0	4.0	39.15	-19.8	-81.2	76.9	68.9	7.95	9.674		
1,300.0	1,299.1	1,296.7	1,294.3	4.4	4.4	41.62	-24.7	-87.9	75.9	67.2	8.66	8.767		
1,372.0	1,370.4	1,369.7	1,367.2	4.6	4.7	44.62	-28.6	-91.4	72.1	62.9	9.18	7.850		
1,400.0	1,398.0	1,398.1	1,395.5	4.7	4.8	45.98	-30.3	-92.5	70.0	60.6	9.38	7.457		
1,500.0	1,496.7	1,497.7	1,494.8	5.1	5.1	51.42	-36.2	-95.7	62.6	52.4	10.12	6.181		
1,600.0	1,595.4	1,597.2	1,594.2	5.5	5.5	58.33	-42.0	-98.8	55.7	44.8	10.88	5.119		
1,700.0	1,694.1	1,696.8	1,693.5	5.9	5.9	67.03	-47.8	-101.8	49.8	38.2	11.67	4.271		
1,800.0	1,792.7	1,796.4	1,792.9	6.3	6.2	76.52	-54.5	-105.1	45.2	32.7	12.47	3.624		
1,900.0	1,891.4	1,896.7	1,892.6	6.7	6.6	84.07	-64.2	-109.2	40.9	27.7	13.27	3.084		
2,000.0	1,990.1	1,997.4	1,992.3	7.1	7.0	88.35	-77.6	-113.7	35.4	21.3	14.07	2.516		
2,100.0	2,088.8	2,097.3	2,090.8	7.5	7.4	90.04	-93.6	-118.2	28.4	13.5	14.88	1.907		
2,200.0	2,187.5	2,196.9	2,189.2	7.9	7.8	96.40	-108.4	-122.0	21.6	5.9	15.69	1.378 L		
2,300.0	2,286.2	2,296.1	2,287.8	8.3	8.2	121.16	-119.9	-123.2	17.4	1.1	16.30	1.067 L	evel 2	
2,306.6	2,292.7	2,302.7	2,294.3	8.4	8.2	123.64	-120.5	-123.1	17.4	1.1	16.32	1.064 L	evel 2, CC, ES, SF	
2,400.0	2,384.9	2,394.3	2,385.7	8.8	8.5	156.69	-126.8	-121.3	22.9	6.3	16.58	1.379 L	evel 3	
2,500.0	2,483.5	2,491.3	2,482.5	9.2	8.9	174.45	-129.6	-116.7	38.3	21.2	17.09	2.240		
2,600.0	2,582.2	2,588.0	2,579.0	9.6	9.2	-179.76	-128.7	-110.9	58.8	41.1	17.71	3.318		
2,700.0	2,680.9	2,686.1	2,677.0	10.1	9.4	-179.20	-125.4	-106.8	80.1	61.7	18.40	4.354		
2,800.0	2,779.6	2,784.8	2,775.5	10.5	9.7	179.74	-121.2	-105.2	100.5	81.4	19.10	5.263		
2,900.0	2,878.3	2,882.5	2,873.2	10.9	10.1	179.22	-117.3	-103.5	120.8	101.0	19.78	6.106		
3,000.0	2,977.0	2,980.6	2,971.2	11.3	10.4	179.06	-113.8	-101.3	141.0	120.6	20.46	6.892		
3,100.0	3,075.7	3,079.0	3,069.6	11.8	10.7	179.04	-110.6	-99.0	161.1	139.9	21.16	7.612		
3,200.0	3,174.3	3,177.5	3,168.0	12.2	11.0	179.01	-107.6	-97.0	180.8	159.0	21.86	8.272		
3,300.0	3,273.0	3,276.5	3,266.9	12.6	11.3	179.11	-105.1	-94.8	200.3	177.7	22.57	8.874		
3,400.0	3,371.7	3,376.0	3,366.4	13.1	11.6	179.22	-103.2	-92.9	219.1	195.8	23.28	9.412		
3,500.0	3,470.4	3,474.9	3,465.2	13.5	12.0	179.37	-101.7	-91.2	237.5	213.5	23.99	9.900		
3,600.0	3,569.1	3,574.7	3,565.0	14.0	12.3	179.46	-100.3	-89.8	255.6	230.9	24.71	10.345		
3,700.0	3,667.8	3,673.6	3,663.9	14.4	12.6	179.52	-99.3	-88.7	273.2	247.8	25.42	10.748		
3,800.0	3,766.5	3,774.0	3,764.3	14.8	13.0	179.61	-98.6	-87.8	290.5	264.3	26.14	11.111		
3,900.0	3,865.1	3,873.8	3,864.1	15.3	13.3	179.63	-98.3	-87.5	307.1	280.3	26.86	11.433		
4,000.0	3,963.8	3,971.0	3,961.2	15.7	13.6	179.61	-97.7	-87.2	323.9	296.3	27.56	11.753		
4,100.0	4,062.5	4,069.1	4,059.3	16.1	14.0	179.56	-96.8	-87.0	340.9	312.6	28.26	12.062		
4,200.0	4,161.2	4,183.2	4,173.5	16.6	14.4	179.49	-97.3	-88.2	356.0	326.9	29.10	12.234		
4,300.0	4,259.9	4,297.8	4,287.8	17.0	14.8	179.50	-102.7	-92.9	365.9	336.0	29.90	12.238		
4,400.0	4,358.6	4,401.7	4,391.4	17.5	15.2	179.55	-108.9	-97.9	374.5	343.9	30.64	12.223		
4,500.0	4,457.3	4,515.5	4,504.6	17.9	15.6	179.78	-119.1	-104.8	379.9	348.6	31.38	12.107		
4,600.0	4,555.9	4,631.9	4,619.7	18.3	16.0	179.71	-131.5	-116.1	381.7	349.6	32.08	11.899		
4,700.0	4,654.6	4,743.2	4,729.1	18.8	16.5	179.36	-145.4	-131.1	379.6	346.8	32.75	11.590		
4,800.0	4,753.3	4,847.3	4,831.1	19.2	16.9	179.01	-159.9	-146.6	375.4	342.0	33.45	11.223		

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

**Survey Calculation Method:** Output errors are at

Database: Offset TVD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H KB @ 3377.5usft

Grid

Minimum Curvature 2.00 sigma

EDM 5000.14 Single User Db

Offset Datum

Offset De	sign	Simon (	Camamile	Fed Com -	Simon C	amamile Fe	d Com #206H	- Wellbore	#1 - Actua	l			Offset Site Error:	0.0 usft
Survey Prog	_	-MWD											Offset Well Error:	0.0 usft
Refer		Offse		Semi Major					Dista					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,900.0	4,852.0	4,945.9	4,927.5	19.7	17.3	178.73	-174.2	-161.2	370.9	336.7	34.20	10.846		
5,000.0	4,950.7	5,040.6	5,020.4	20.1	17.7	178.51	-187.5	-174.5	367.3	332.3	34.97	10.504		
5,100.0	5,049.4	5,139.8	5,117.9	20.6	18.1	178.32	-200.4	-187.2	365.2	329.5	35.71	10.228		
5,200.0	5,148.1	5,255.1	5,230.5	21.0	18.6	178.31	-219.0	-203.1	360.0	323.7	36.32	9.911		
5,300.0	5,246.7	5,355.8	5,328.4	21.4	19.0	178.39	-237.3	-218.0	352.6	315.5	37.05	9.517		
5,400.0	5,345.4	5,450.5	5,420.7	21.9	19.4	178.47	-253.9	-231.4	346.1	308.2	37.84	9.146		
5,500.0	5,444.1	5,545.3	5,513.3	22.3	19.9	178.60	-269.5	-243.7	341.2	302.5	38.62	8.833		
5,600.0	5,542.8	5,649.1	5,614.9	22.8	20.3	178.75	-286.2	-256.8	336.9	297.6	39.33	8.566		
5,700.0	5,641.5	5,755.2	5,718.4	23.2	20.8	178.92	-304.9	-271.5	330.5	290.5	40.00	8.261		
5,800.0 5,900.0	5,740.2 5,838.9	5,854.6 5,952.6	5,815.0 5,910.3	23.7 24.1	21.2 21.7	178.91 178.57	-322.5 -338.4	-286.6 -302.6	323.1 316.3	282.4 274.8	40.75 41.52	7.930 7.618		
3,300.0	5,050.5	5,352.0	3,910.3	24.1	21.7	170.57	-550.4	-302.0	310.3	214.0	41.52	7.010		
6,000.0	5,937.5	6,048.1	6,003.5	24.5	22.1	178.16	-352.9	-317.9	310.4	268.1	42.31	7.336		
6,100.0	6,036.2	6,161.3	6,113.5	25.0	22.6	177.51	-370.9	-337.6	303.2	260.3	42.87	7.072		
6,200.0 6,300.0	6,134.9 6,233.6	6,258.5 6,349.9	6,207.5 6,296.3	25.4 25.9	23.1 23.5	176.73 176.05	-387.1 -401.3	-356.3 -372.6	294.1 286.8	250.4 242.3	43.66 44.54	6.735 6.439		
6,400.0	6,332.3	6,443.5	6,387.8	26.3	23.5	175.63	-401.3 -414.9	-372.6 -386.7	282.3	236.9	44.54	6.222		
6,500.0	6,431.0	6,544.7	6,487.0	26.8	24.4	175.65	-430.5	-399.6	278.4	232.3	46.10	6.038		
6,600.0 6,700.0	6,529.6 6,628.3	6,644.4 6,745.4	6,584.6 6,683.6	27.2 27.6	24.9 25.3	176.16 176.94	-447.3 -465.2	-410.5 -420.7	274.4 270.2	227.6 222.6	46.85 47.57	5.857 5.680		
6,800.0	6,727.0	6,850.4	6,786.2	28.1	25.8	177.67	-484.1	-432.2	265.4	217.1	48.25	5.500		
6,900.0	6,825.7	6,954.8	6,887.5	28.5	26.3	178.57	-505.5	-445.0	257.6	208.7	48.92	5.266		
									/					
7,000.0 7,100.0	6,924.4 7,023.1	7,049.0	6,979.1 7,073.5	29.0 29.4	26.7 27.2	179.69 -178.98	-525.4 -544.2	-455.4 -464.2	250.4 245.8	200.6 195.2	49.77 50.58	5.030		
7,100.0	7,023.1	7,145.7 7,256.2	7,073.5	29.4	27.7	-178.25	-544.2 -564.6	-404.2 -477.9	239.9	188.8	51.15	4.859 4.690		
7,300.0	7,220.4	7,358.2	7,279.7	30.3	28.2	-178.79	-582.8	-496.9	230.0	178.2	51.84	4.437		
7,400.0	7,319.1	7,449.7	7,368.5	30.7	28.7	-179.12	-598.7	-512.5	221.8	169.0	52.78	4.202		
7,466.5	7,384.7	7,510.2	7,427.6	31.0	28.9	-179.07	-608.4	-520.6	218.6	165.2	53.37	4.095		
7,500.0	7,417.8	7,540.8	7,457.6	31.2	29.1	-179.02	-612.9	-524.3	217.5	163.8	53.66	4.053		
7,600.0	7,516.9	7,640.4	7,555.7	31.6	29.5	-178.80	-626.8	-535.4	213.6	159.2	54.41	3.925		
7,700.0 7,800.0	7,616.2 7,715.8	7,750.5 7,848.3	7,663.4 7,758.7	32.0 32.4	30.1 30.5	-179.03 179.99	-643.1 -657.6	-550.9 -567.9	204.5 190.4	149.5 134.7	54.97 55.73	3.719 3.417		
7,000.0	7,710.0	7,040.5	7,730.7	32.4	30.3	173.33	-037.0	-501.5	130.4	154.7	33.73	3.417		
7,900.0	7,815.6	7,940.8	7,849.1	32.8	31.0	179.01	-670.0	-582.6	176.0	119.4	56.58	3.111		
8,000.0	7,915.5	8,041.7	7,948.0	33.1	31.4	178.16	-683.8	-597.2	159.8	102.5	57.26	2.791		
8,086.5 8,100.0	8,002.0 8,015.5	8,126.2	8,030.8	33.3	31.8 31.9	38.47 -51.67	-696.3 -698.2	-608.9 -610.6	143.3 140.5	85.4 82.5	57.87 57.98	2.476 2.423		
8,100.0	8,065.4	8,139.1 8,186.4	8,043.3 8,089.8	33.4 33.5	31.9	-51.67 -54.12	-698.2 -705.0	-616.8	128.8	70.5	58.35	2.423		
8,200.0	8,114.8	8,233.0	8,135.6	33.6	32.3	-58.90	-711.2	-622.9	115.3	56.6	58.77	1.963		
8,250.0	8,163.3	8,278.5	8,180.3	33.7	32.5	-66.81	-717.1	-628.7	100.9	41.6	59.37	1.700	uval 2	
8,300.0 8,350.0	8,210.6 8,256.3	8,322.5 8,364.8	8,223.7 8,265.3	33.8 33.8	32.7 32.9	-78.69 -94.43	-722.5 -727.5	-634.1 -639.3	87.6 79.1	27.1 16.4	60.53 62.72	1.448 Le 1.261 Le		
8,369.9	8,274.1	8,381.0	8,281.3	33.9	33.0	-101.30	-729.3	-641.3	78.2	14.4	63.84	1.225 Le		
8,400.0	8,300.1	8,409.2	8,304.8	33.9	33.1	-111.50	-732.1	-644.1	80.5	15.0	65.45	1.229 Le	evel 2	
8,450.0	8,341.6	8,442.4	8,341.9	33.9	33.3	-126.39	-736.3	-648.6	94.4	27.4	66.98	1.410 Le		
8,500.0	8,380.6	8,477.1	8,376.1	33.9	33.4	-137.34	-740.2	-652.7	119.1	51.9	67.24	1.771		
8,550.0	8,416.6	8,508.6	8,407.2	33.9	33.5	-144.74	-743.8	-656.5	151.3	84.3	67.01	2.257		
8,600.0	8,449.5	8,537.4	8,435.6	33.9	33.7	-149.56	-747.0	-659.8	188.5	121.8	66.75	2.825		
8,650.0	8,479.0	8,562.9	8,460.8	33.9	33.8	-152.34	-749.7	-662.6	229.5	162.9	66.54	3.448		
8,700.0	8,504.8	8,584.8	8,482.4	33.9	33.9	-153.41	-752.0	-664.9	273.1	206.7	66.38	4.114		
8,750.0	8,526.9	8,602.8	8,500.3	33.8	33.9	-152.71	-753.8	-666.7	318.9	252.6	66.27	4.812		
8,800.0 8,850.0	8,544.9 8 558 8	8,616.5 8,626.0	8,513.8 8 523 3	33.8	34.0	-149.37 -141.20	-755.1 -756.0	-668.1 -669.0	366.4 415.0	300.2	66.18 66.11	5.536 6.277		
8,850.0	8,558.8	8,626.0	8,523.3	33.8	34.0	-141.20	-756.0	-669.0	415.0	348.9	66.11	6.277		
8,900.0	8,568.4	8,631.1	8,528.3	33.7	34.1	-120.71	-756.5	-669.5	464.3	398.3	66.04	7.032		

Company: Matador Production Company

Project: Ranger/Arrowhead

Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

Well Simon Camamile Fed Com #126H TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Offset De	_	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #206H	- Wellbore	#1 - Actua	I			Offset Site Error:	0.0 usft
Survey Prog Refer		-MWD Offse		Semi Major	Avio				Dista				Offset Well Error:	0.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
8,950.0	8,573.8	8,631.7	8,528.9	33.7	34.1	-75.90	-756.6	-669.6	514.1	448.1	65.97	7.792		
8,986.5	8,575.0	8,629.1	8,526.3	33.7	34.1	-45.67	-756.3	-669.3	550.3	484.4	65.92	8.348		
8,993.2	8,575.0	8,628.4	8,525.6	33.8	34.1	-44.55	-756.3	-669.2	557.0	491.0	65.91	8.450		
9,000.0	8,575.0	8,627.7	8,524.9	33.8	34.1	-44.18	-756.2	-669.2	563.7	497.8	65.90	8.554		
9,100.0	8,575.0	8,617.0	8,514.4	33.9	34.0	-39.33	-755.2	-668.1	663.0	597.2	65.78	10.079		
9,200.0	8,575.0	8,606.4	8,503.9	34.4	34.0	-35.48	-754.1	-667.1	762.3	696.6	65.69	11.605		
9,300.0	8,575.0	8,594.6	8,492.2	35.3	33.9	-32.07	-753.0	-665.9	861.7	796.1	65.60	13.135		
9,400.0 9,500.0	8,575.0	8,582.3 8,569.4	8,480.0 8,467.2	36.3 37.6	33.9 33.8	-29.22 -26.82	-751.7 -750.4	-664.6 -663.3	961.0 1,060.4	895.5 994.9	65.53 65.45	14.667 16.200		
9,600.0	8,575.0 8,575.0	8,555.9	8,453.9	38.9	33.7	-24.78	-748.9	-661.8	1,159.7	1,094.3	65.39	17.736		
9,700.0	8,575.0	10,980.9	9,832.9	40.4	43.8	-179.34	-788.8	577.2	1,258.1	1,227.4	30.69	40.997		
9,800.0	8,575.0	11,063.1	9,834.3	41.9	45.0	-179.44	-791.1	659.4	1,259.8	1,228.3	31.52	39.963		
9,900.0	8,575.0	11,134.8	9,836.9	43.6	46.1	-179.50	-792.3	731.1	1,263.3	1,231.0	32.31	39.099		
10,000.0	8,575.0	11,259.3	9,842.5	45.3	48.1	-179.58	-793.8	855.4	1,268.0	1,234.3	33.76	37.565		
10,100.0	8,575.0	11,409.0	9,842.0	47.0	50.6	-179.77	-797.8	1,005.0	1,267.1	1,231.5	35.64	35.550		
10,200.0	8,575.0	11,503.5	9,841.3	48.9	52.3	-179.85	-799.6	1,099.6	1,266.4	1,229.6	36.77	34.442		
10,300.0	8,575.0	11,601.8	9,840.6	50.8	54.0	-179.92	-801.0	1,197.8	1,265.6	1,227.6	37.98	33.320		
10,355.6	8,575.0	11,647.5	9,840.4	51.8	54.9	-179.96	-801.7	1,243.5	1,265.4	1,226.9	38.53	32.844		
10,400.0	8,575.0	11,674.6	9,840.6	52.7	55.4	-179.97	-802.0	1,270.7	1,265.8	1,227.0	38.83	32.599		
10,500.0	8,575.0	11,737.0	9,842.5	54.7	56.6	-180.00	-802.4	1,333.0	1,268.9	1,229.3	39.59	32.048		
10,600.0	8,575.0	11,809.3	9,846.6	56.7	58.0	179.99	-802.6	1,405.1	1,274.5	1,233.9	40.56	31.425		
10,700.0	8,575.0	12,057.0	9,848.1	58.7	62.9	179.88	-804.7	1,652.7	1,274.6	1,230.5	44.16	28.863		
10,800.0	8,575.0	12,143.7	9,844.3	60.8	64.6	179.81	-806.3	1,739.2	1,270.2	1,225.0	45.25	28.073		
10,900.0	8,575.0	12,199.0	9,842.3	62.9	65.7	179.78	-806.8	1,794.5	1,267.4	1,221.5	45.83	27.652		
10,942.6	8,575.0	12,237.4	9,841.7	63.8	66.5	179.77	-807.1	1,832.9	1,266.8	1,220.4	46.35	27.331		
11,000.0	8,575.0	12,265.6	9,842.0	65.0	67.1	179.76	-807.3	1,861.1	1,267.4	1,220.8	46.68	27.154		
11,100.0	8,575.0	12,350.5	9,845.3	67.1	68.9	179.72	-808.0	1,945.9	1,271.1	1,223.3	47.83	26.576		
11,200.0	8,575.0	12,424.6	9,848.0	69.3	70.4	179.65	-809.4	2,020.0	1,275.0	1,226.1	48.84	26.108		
11,300.0	8,575.0	12,482.0	9,852.4	71.5	71.7	179.66	-809.3	2,077.2	1,282.4	1,232.8	49.66	25.824		
11,400.0 11,500.0	8,575.0 8,575.0	12,561.1 12,711.2	9,860.3 9,872.3	73.7 75.9	73.3 76.6	179.70 179.77	-808.3 -806.6	2,155.8 2,305.4	1,292.4 1,300.1	1,241.6 1,247.2	50.81 52.93	25.435 24.562		
11,600.0	8,575.0	12,796.6	9,878.4	78.2	78.4	179.86	-804.6	2,390.6	1,307.2	1,253.0	54.18	24.128		
11,700.0	8,575.0	12,881.4	9,885.3	80.4	80.3	179.99	-801.5	2,475.1	1,315.4	1,260.0	55.44	23.728		
11,800.0 11,900.0	8,575.0 8,575.0	12,966.9 13,250.2	9,893.3 9,905.1	82.7 84.9	82.1 88.4	-179.86 -179.74	-797.9 -794.7	2,560.1 2,842.7	1,324.7 1,331.2	1,268.0 1,270.2	56.71 61.02	23.358 21.816		
12,000.0	8,575.0	13,298.0	9,903.1	87.2	89.5	-179.77	-795.4	2,890.5	1,329.6	1,268.0	61.62	21.577		
12,000.6	8,575.0	13,298.3	9,904.6	87.2	89.5	-179.77	-795.4	2,890.8	1,329.6	1,268.0	61.63	21.575		
12,100.0	8,575.0	13,385.8	9,905.6	89.5	91.5	-179.83	-796.6	2,978.2	1,330.7	1,267.9	62.88	21.164		
12,200.0	8,575.0	13,573.0	9,899.2	91.8	95.7	180.00	-800.5	3,165.3	1,326.4	1,260.7	65.70	20.189		
12,300.0	8,575.0	13,675.7	9,893.7	94.1	98.0	179.76	-805.7	3,267.7	1,321.0	1,253.9	67.15	19.673		
12,400.0	8,575.0	13,766.4	9,888.5	96.4	100.1	179.49	-812.0	3,358.0	1,315.3	1,246.9	68.41	19.228		
12,500.0	8,575.0	13,845.1	9,885.0	98.7	101.9	179.28	-816.6	3,436.4	1,310.9	1,241.4	69.51	18.860		
12,600.0	8,575.0	13,923.1	9,882.9	101.0	103.7	179.21	-818.1	3,514.5	1,308.2	1,237.6	70.63	18.522		
12,700.0	8,575.0	14,008.6	9,881.9	103.4	105.7	179.21	-818.0	3,599.9	1,307.1	1,235.2	71.89	18.181		
12,791.8	8,575.0	14,090.8	9,881.4	105.5	107.6	179.24	-817.2	3,682.1	1,306.6	1,233.5	73.12	17.869		
12,800.0	8,575.0	14,096.7	9,881.4	105.7	107.7	179.24	-817.2	3,688.0	1,306.6	1,233.4	73.21	17.848		
12,900.0	8,575.0	14,171.3	9,882.4	108.0	109.4	179.32	-815.3	3,762.6	1,307.8	1,233.5	74.31	17.600		
13,000.0	8,575.0	14,271.3	9,884.5	110.4	111.7	179.49	-811.2	3,862.5	1,309.8	1,234.0	75.83	17.272		
13,100.0	8,575.0	14,357.5	9,886.8	112.7	113.7	179.70	-806.5	3,948.5	1,312.6	1,235.4	77.15	17.014		
13,200.0 13,300.0	8,575.0 8,575.0	14,457.4 14,551.0	9,890.0 9,893.3	115.1 117.5	116.0 118.2	179.87 179.96	-802.5 -800.3	4,048.3 4,141.8	1,315.7 1,319.3	1,237.0 1,239.1	78.69 80.11	16.720 16.468		
13,400.0	8,575.0	14,665.4	9,896.6	119.8	120.9	179.96	-800.2	4,256.1	1,322.1	1,240.2	81.86	16.151		
13,400.0	0,575.0	14,000.4	9,090.0	119.8	120.9	179.90	-000.2	4,200.1	1,322.1	1,240.2	01.00	10.101		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #206H	- Wellbore	#1 - Actua	I			Offset Site Error:	0.0 usft
Survey Prog	ram: 176	-MWD		Court Mari	Aula				B				Offset Well Error:	0.0 usft
Refer Measured	ence Vertical	Offset Measured	t Vertical	Semi Major Reference	· Axis Offset	Highside	Offset Wellbor	e Centre	Dista Between	ance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Walling	
13,500.0	8,575.0	14,750.5	9,899.1	122.2	122.9	179.93	-800.8	4,341.2	1,325.0	1,241.9	83.12	15.942		
13,600.0	8,575.0	14,947.7	9,901.6	124.6	127.5	179.78	-804.0	4,538.2	1,327.5	1,241.4	86.15	15.409		
13,700.0	8,575.0	15,047.5	9,898.3	126.9	129.9	179.68	-806.1	4,637.9	1,324.2	1,236.6	87.64	15.110		
13,800.0	8,575.0	15,147.4	9,894.3	129.3	132.2	179.64	-806.9	4,737.8	1,320.2	1,231.1	89.15	14.809		
13,900.0	8,575.0	15,237.2	9,891.6	131.7	134.3	179.66	-806.3	4,827.5	1,317.2	1,226.7	90.51	14.553		
14,000.0	8,575.0	15,317.4	9,889.5	134.1	136.2	179.70	-805.3	4,907.6	1,314.7	1,222.9	91.74	14.331		
14,038.4	8,575.0	15,338.4	9,889.4	135.0	136.7	179.72	-804.8	4,928.7	1,314.4	1,222.4	92.05	14.279		
14,100.0	8,575.0	15,384.0	9,890.0	136.4	137.8	179.79	-803.1	4,974.2	1,315.2	1,222.4	92.74	14.181		
14,200.0 14,300.0	8,575.0 8,575.0	15,420.6 15,478.0	9,891.7 9,896.6	138.8 141.2	138.7 140.0	179.87 179.98	-801.4 -798.7	5,010.7 5,067.9	1,319.1 1,327.2	1,225.9 1,233.3	93.19 93.96	14.155 14.126		
14,400.0	8,575.0	15,522.4	9,902.0	143.6	141.1	-179.96	-797.3	5,112.0	1,338.9	1,244.5	94.41	14.120		
14,500.0	8,575.0	15,582.1	9,910.8	146.0	142.5	-179.96	-797.3	5,171.0	1,353.7	1,258.6	95.12	14.232		
14,600.0	8,575.0	15,652.1	9,922.9	148.4	144.1	179.88	-800.8	5,240.0	1,371.0	1,275.0	95.12	14.232		
14,700.0	8,575.0	15,814.2	9,949.6	150.8	147.9	179.00	-817.6	5,398.8	1,388.1	1,289.3	98.77	14.262		
14,800.0	8,575.0	16,101.8	9,964.7	153.2	154.7	178.78	-827.0	5,685.4	1,390.1	1,286.5	103.59	13.419		
14,900.0	8,575.0	16,213.7	9,964.8	155.6	157.4	178.82	-826.0	5,797.3	1,390.2	1,284.9	105.30	13.202		
15,000.0	8,575.0	16,323.0	9,963.9	158.0	160.0	178.94	-822.9	5,906.5	1,389.3	1,282.3	106.96	12.988		
15,000.0	8,575.0	16,416.5	9,963.1	160.4	162.2	179.07	-819.7	6,000.0	1,388.3	1,279.9	108.40	12.807		
15,200.0	8,575.0	16,570.1	9,958.3	162.8	165.9	179.26	-814.9	6,153.4	1,384.9	1,274.2	110.68	12.513		
15,300.0	8,575.0	16,666.7	9,954.0	165.2	168.2	179.43	-810.7	6,249.9	1,380.4	1,268.2	112.19	12.304		
15,400.0	8,575.0	16,773.3	9,949.4	167.6	170.7	179.64	-805.4	6,356.3	1,376.0	1,262.2	113.83	12.088		
15,500.0	8,575.0	16,879.2	9,944.0	170.0	173.2	179.83	-800.8	6,461.9	1,370.9	1,255.5	115.47	11.872		
15,600.0	8,575.0	16,978.3	9,938.9	172.5	175.6	-179.99	-796.4	6,560.7	1,365.7	1,248.7	117.04	11.669		
15,700.0	8,575.0	17,065.4	9,934.7	174.9	177.7	-179.85	-792.8	6,647.7	1,361.0	1,242.5	118.45	11.490		
15,800.0	8,575.0	17,136.5	9,932.4	177.3	179.4	-179.72	-789.7	6,718.6	1,357.7	1,238.1	119.62	11.350		
15,900.0	8,575.0	17,214.8	9,931.6	179.7	181.3	-179.58	-786.4	6,796.9	1,356.7	1,235.8	120.88	11.223		
16,000.0	8,575.0	17,316.4	9,931.2	182.1	183.7	-179.40	-781.9	6,898.4	1,356.3	1,233.8	122.52	11.070		
16,100.0	8,575.0	17,416.8	9,930.3	184.5	186.1	-179.25	-778.2	6,998.7	1,355.5	1,231.3	124.13	10.920		
16,151.1	8,575.0	17,463.4	9,930.1	185.8	187.2	-179.20	-777.1	7,045.3	1,355.2	1,230.4	124.87	10.853		
16,200.0	8,575.0	17,483.0	9,930.3	187.0	187.7	-179.18	-776.6	7,064.9	1,355.7	1,230.5	125.15	10.832		
16,300.0	8,575.0	17,527.6	9,932.0	189.4	188.7	-179.12	-775.2	7,109.4	1,359.6	1,233.9	125.71	10.815		
16,400.0	8,575.0	17,629.4	9,939.1	191.8	191.2	-178.98	-771.5	7,210.9	1,366.7	1,239.3	127.36	10.731		
16,500.0	8,575.0	17,740.1	9,944.8	194.2	193.8	-178.89	-769.1	7,321.5	1,371.8	1,242.7	129.17	10.621		
16,600.0	8,575.0	17,856.5	9,950.4	196.6	196.6	-178.79	-766.4	7,437.7	1,376.7	1,245.6	131.08	10.503		
16,700.0	8,575.0	17,991.0	9,952.5	199.1	199.9	-178.81	-766.8	7,572.2	1,378.0	1,244.7	133.21	10.344		
16,800.0	8,575.0	18,072.4	9,954.1	201.5	201.9	-178.83	-767.1	7,653.5	1,379.9	1,245.5	134.44	10.264		
16,900.0	8,575.0	18,206.1	9,957.2	203.9	205.1	-178.86	-767.7	7,787.2	1,382.4	1,245.9	136.53	10.126		
17,000.0	8,575.0	18,321.2	9,956.4	206.3	207.9	-179.00	-770.9	7,902.2	1,381.7	1,243.5	138.23	9.995		
17,039.9	8,575.0	18,349.1	9,956.3	207.3	208.5	-179.03	-771.6	7,930.1	1,381.5	1,242.9	138.65	9.964		
17,100.0	8,575.0	18,391.2	9,956.6	208.8	209.6	-179.07	-772.4	7,972.2	1,381.9	1,242.6	139.27	9.922		
17,200.0	8,575.0	18,468.8	9,958.3	211.2	211.4	-179.10	-773.1	8,049.8	1,384.1	1,243.6	140.42	9.856		
17,300.0	8,575.0	18,563.1	9,961.4	213.6	213.7	-179.12	-773.3	8,144.0	1,387.4	1,245.5	141.86	9.780		
17,400.0	8,575.0	18,697.5	9,964.4	216.0	217.0	-179.15	-773.9	8,278.4	1,389.6	1,245.6	143.99	9.651		
17,500.0	8,575.0	18,799.4	9,965.0	218.5	219.4	-179.17	-774.2	8,380.3	1,390.2	1,244.6	145.56	9.551		
17,600.0	8,575.0	18,882.8	9,966.1	220.9	221.5	-179.17	-774.1	8,463.7	1,391.5	1,244.7	146.84	9.477		
17,700.0	8,575.0	18,976.0	9,968.1	223.3	223.7	-179.16	-773.9	8,556.9	1,393.7	1,245.4	148.28	9.399		
17,800.0	8,575.0	19,070.9	9,970.5	225.8	226.0	-179.16	-773.6	8,651.7	1,396.2	1,246.5	149.74	9.324		
17,900.0	8,575.0	17,900.0	9,973.1	228.2	197.6	-179.18	-773.9	8,791.7	1,398.3	1,256.5	141.81	9.860		
18,000.0	8,575.0	19,362.6	9,968.8	230.6	233.1	-179.36	-778.1	8,943.2	1,394.9	1,240.8	154.12	9.051		
18,100.0 18,169.5	8,575.0 8,575.0	19,436.0 19,479.3	9,965.8 9,964.9	233.0 234.7	234.9 235.9	-179.46 -179.51	-780.7 -781.7	9,016.5 9,059.8	1,391.2 1,390.0	1,235.9 1,234.0	155.28 155.96	8.959 8.912		
18,200.0	8,575.0	19,491.9	9,965.0	235.5	236.2	-179.52	-781.9	9,072.4	1,390.2	1,234.0	156.14	8.903		

Company: Matador Production Company

Project: Ranger/Arrowhead Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Grid

**Survey Calculation Method:** Minimum Curvature

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft KB @ 3377.5usft

Output errors are at 2.00 sigma EDM 5000.14 Single User Db Database:

Offset De	_		Camamile	Fed Com -	Simon C	amamile Fe	d Com #206H	- Wellbore	#1 - Actua	I			Offset Site Error:	0.0 usft
Survey Prog		-MWD											Offset Well Error:	0.0 usft
Refer		Offse		Semi Major					Dista					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
18,300.0	8,575.0	19,538.0	9,966.6	237.9	237.3	-179.52	-781.8	9,118.5	1,393.5	1,236.8	156.72	8.892		
18,400.0	8,575.0	19,637.5	9,971.7	240.3	239.8	-179.50	-781.2	9,217.9	1,398.7	1,240.4	158.27	8.837		
18,500.0	8,575.0	19,731.4	9,976.7	242.8	242.0	-179.47	-780.4	9,311.6	1,404.0	1,244.3	159.72	8.790		
18,600.0	8,575.0	19,807.5	9,981.6	245.2	243.9	-179.43	-779.4	9,387.5	1,410.4	1,249.6	160.79	8.772		
18,700.0	8,575.0	20,002.4	9,988.0	247.6	248.6	-179.66	-784.6	9,582.2	1,413.1	1,249.1	164.03	8.615		
18,800.0	8,575.0	20,093.8	9,988.9	250.1	250.8	-179.86	-789.5	9,673.4	1,414.0	1,248.6	165.39	8.549		
18,900.0	8,575.0	20,229.3	9,988.1	252.5	254.1	179.79	-798.1	9,808.6	1,413.2	1,245.8	167.40	8.442		
18,990.4	8,575.0	20,301.5	9,987.4	254.7	255.9	179.60	-802.5	9,880.7	1,412.5	1,243.9	168.54	8.381		
19,000.0	8,575.0	20,307.6	9,987.4	255.0	256.0	179.59	-802.8	9,886.8	1,412.5	1,243.9	168.64	8.376		
19,100.0	8,575.0	20,379.0	9,988.6	257.4	257.8	179.46	-805.9	9,958.1	1,414.0	1,244.3	169.74	8.331		
19,200.0	8,575.0	20,504.8	9,989.4	259.8	260.8	179.22	-811.8	10,083.7	1,414.6	1,242.9	171.73	8.237		
19,300.0	8,575.0	20,567.0	9,990.6	262.3	262.3	179.13	-813.9	10,145.9	1,416.4	1,243.8	172.69	8.202		
19,400.0	8,575.0	20,623.3	9,993.2	264.7	263.7	179.09	-814.9	10,202.1	1,421.1	1,247.7	173.42	8.195		
19,500.0	8,575.0	20,692.1	9,998.5	267.1	265.4	179.08	-815.2	10,270.7	1,428.7	1,254.4	174.31	8.196		
19,600.0	8,575.0	20,783.2	10,006.4	269.6	267.6	179.12	-814.1	10,361.5	1,437.4	1,261.7	175.66	8.183		
19,700.0	8,575.0	20,884.0	10,015.6	272.0	270.0	179.33	-808.8	10,461.7	1,446.5	1,269.3	177.19	8.163		
19,800.0	8,575.0	21,072.5	10,027.4	274.5	274.6	179.46	-805.5	10,649.7	1,453.1	1,272.6	180.52	8.050		
19,900.0	8,575.0	21,196.1	10,029.7	276.9	277.6	179.47	-805.2	10,773.3	1,454.8	1,272.4	182.46	7.973		
20,000.0	8,575.0	20,000.0	10,028.9	279.3	248.8	179.71	-798.7	10,946.6	1,455.1	1,280.7	174.36	8.345		
20,100.0	8,575.0	21,572.9	10,011.4	281.8	286.7	-179.81	-786.5	11,148.7	1,445.1	1,257.8	187.29	7.716		
20,200.0	8,575.0	21,665.4	10,001.3	284.2	288.9	-179.57	-780.3	11,240.4	1,434.2	1,245.3	188.91	7.592		
20,300.0	8,575.0	21,736.4	9,994.4	286.6	290.6	-179.42	-776.7	11,311.0	1,424.6	1,234.2	190.39	7.482		
20,400.0	8,575.0	21,789.0	9,990.5	289.1	291.8	-179.33	-774.3	11,363.4	1,417.5	1,225.8	191.64	7.396		
20,500.0	8,575.0	21,838.3	9,988.5	291.5	293.0	-179.23	-771.9	11,412.6	1,413.8	1,221.1	192.68	7.338		
20,538.8	8,575.0	21,854.8	9,988.3	292.5	293.4	-179.19	-771.0	11,429.1	1,413.5	1,220.5	192.98	7.324		
20,600.0	8,575.0	21,883.0	9,988.7	294.0	294.1	-179.13	-769.3	11,457.2	1,414.3	1,220.8	193.43	7.311		
20,700.0	8,575.0	21,988.6	9,991.1	296.4	296.7	-178.86	-762.7	11,562.6	1,416.6	1,221.3	195.26	7.255		
20,800.0	8,575.0	22,072.0	9,993.2	298.9	298.7	-178.65	-757.3	11,645.8	1,419.3	1,222.6	196.68	7.216		
20,900.0	8,575.0	22,162.2	9,996.1	301.3	300.9	-178.41	-751.2	11,735.7	1,422.7	1,224.5	198.26	7.176		
21,000.0	8,575.0	22,240.2	9,999.6	303.7	302.7	-178.20	-745.7	11,813.4	1,427.3	1,227.7	199.58	7.152		
21,100.0	8,575.0	22,311.9	10,003.9	306.2	304.5	-177.99	-740.4	11,884.8	1,433.7	1,232.9	200.73	7.142		
21,200.0	8,575.0	22,383.0	10,009.7	308.6	306.2	-177.79	-734.9	11,955.5	1,442.0	1,240.2	201.82	7.145		
21,213.6	8,575.0	22,392.9	10,010.6	309.0	306.4	-177.76	-734.2	11,965.3	1,443.3	1,241.3	201.97	7.146		

Company: Matador Production Company

Project: Ranger/Arrowhead Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

Well Simon Camamile Fed Com #126H TVD Reference: KB @ 3377.5usft

MD Reference: KB @ 3377.5usft

Grid North Reference:

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma EDM 5000.14 Single User Db Database:

urvey Progr Refere		Offse	at .	Semi Major	Δvie				Dista	inco			Offset Well Error:	0.0 ι
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor	e Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	. 40.0.		
0.0	0.0	0.0	0.0	0.0	0.0	-14.51	2,249.3	-582.0	2,323.7					
100.0	100.0	61.0	61.0	0.1	0.1	-14.51	2,249.3	-582.0	2,323.3	2,323.1	0.21	N/A		
200.0	200.0	161.0	161.0	0.5	0.3	-14.51	2,249.3	-582.0	2,323.3	2,322.5	0.83	2,787.638		
300.0	300.0	261.0	261.0	0.8	0.7	-14.51	2,249.3	-582.0	2,323.3	2,321.8	1.55	1,498.557		
400.0	400.0	361.0	361.0	1.2	1.1	-14.51	2,249.3	-582.0	2,323.3	2,321.1	2.27	1,024.705		
500.0	500.0	461.0	461.0	1.6	1.4	-14.51	2,249.3	-582.0	2,323.3	2,320.4	2.98	778.530		
600.0	600.0	561.0	561.0	1.9	1.8	-14.51	2,249.3	-582.0	2,323.3	2,319.6	3.70	627.725		
700.0	700.0	661.0	661.0	2.3	2.1	-14.51	2,249.3	-582.0	2,323.3	2,318.9	4.42	525.863		
800.0	800.0	761.0	761.0	2.6	2.5	-14.51	2,249.3	-582.0	2,323.3	2,318.2	5.14	452.444		
900.0	900.0	861.0	861.0	3.0	2.9	-14.51	2,249.3	-582.0	2,323.3	2,317.5	5.85	397.015		
1,000.0	1,000.0	961.0	961.0	3.4	3.2	-14.51 -14.51	2,249.3	-582.0 -582.0	2,323.3	2,317.5	6.57	353.684 C	C ES	
1,000.0	1,000.0	301.0	501.0	0.4	0.2	-14.01	2,240.0	-002.0	2,020.0	2,010.0	0.01	000.004 0	0, 20	
1,100.0	1,100.0	1,061.0	1,061.0	3.7	3.6	124.70	2,249.3	-582.0	2,324.6	2,317.3	7.27	319.724		
1,200.0	1,199.7	1,160.7	1,160.7	4.0	3.9	124.75	2,249.3	-582.0	2,328.3	2,320.4	7.96	292.419		
1,300.0	1,299.1	1,260.1	1,260.1	4.4	4.3	124.84	2,249.3	-582.0	2,334.6	2,325.9	8.66	269.536		
1,372.0	1,370.4	1,331.4	1,331.4	4.6	4.5	124.93	2,249.3	-582.0	2,340.6	2,331.4	9.17	255.222		
1,400.0	1,398.0	1,359.0	1,359.0	4.7	4.6	125.02	2,249.3	-582.0	2,343.2	2,333.9	9.37	250.063		
1,500.0	1,496.7	1,457.7	1,457.7	5.1	5.0	125.34	2,249.3	-582.0	2,352.6	2,342.5	10.09	233.239		
1,600.0	1,595.4	1,540.6	1,540.6	5.5	5.3	125.60	2,249.4	-582.1	2,362.3	2,342.5	10.09	219.683		
1,700.0	1,694.1				5.5	125.82	2,249.4		2,362.3		11.38	208.523		
		1,611.5	1,611.5	5.9				-582.6		2,361.7				
1,800.0 1,900.0	1,792.7	1,682.3	1,682.2 1,752.8	6.3 6.7	5.8 6.0	126.03 126.24	2,251.7 2,254.0	-583.6 -585.0	2,385.0 2,398.2	2,373.0	12.01 12.64	198.603 189.748		
1,900.0	1,891.4	1,752.9	1,752.8	0.7	0.0	120.24	2,254.0	-585.0	∠,398.2	2,385.6	12.04	109.748		
2,000.0	1,990.1	1,823.4	1,823.2	7.1	6.3	126.43	2,257.0	-586.9	2,412.6	2,399.4	13.27	181.822		
2,100.0	2,088.8	1,900.0	1,899.7	7.5	6.6	126.63	2,261.1	-589.4	2,428.2	2,414.3	13.92	174.397		
2,200.0	2,187.5	1,963.8	1,963.3	7.9	6.8	126.78	2,265.2	-592.0	2,445.0	2,430.4	14.53	168.310		
2,300.0	2,286.2	2,033.7	2,032.9	8.3	7.1	126.95	2,270.3	-595.2	2,462.9	2,447.7	15.15	162.535		
2,400.0	2,384.9	2,100.0	2,098.9	8.8	7.3	127.10	2,275.9	-598.7	2,481.9	2,466.2	15.76	157.459		
2 500 0	0 400 E	0.470.7	0.474.0	0.2	7.6	107.05	2 202 7	602.0	2 502 1	0.405.7	16.40	150 505		
2,500.0	2,483.5	2,172.7	2,171.2	9.2	7.6	127.25	2,282.7	-602.9	2,502.1	2,485.7	16.40	152.585		
2,600.0	2,582.2	2,241.8	2,239.7	9.6	7.8	127.39	2,289.9	-607.5	2,523.5	2,506.4	17.02	148.292		
2,700.0	2,680.9	2,310.6	2,307.9	10.1	8.1	127.51	2,297.8	-612.4	2,545.9	2,528.3	17.63	144.390		
2,800.0	2,779.6	2,379.1	2,375.7	10.5	8.3	127.63	2,306.3	-617.7	2,569.5	2,551.2	18.24	140.836		
2,900.0	2,878.3	2,447.3	2,442.9	10.9	8.6	127.74	2,315.5	-623.5	2,594.1	2,575.2	18.85	137.595		
3,000.0	2,977.0	2,521.5	2,516.1	11.3	8.9	127.85	2,326.2	-630.2	2,619.8	2,600.3	19.49	134.418		
3,100.0	3,075.7	2,617.8	2,611.0	11.8	9.3	127.99	2,340.4	-639.0	2,645.8	2,625.6	20.24	130.734		
3,200.0	3,174.3	2,714.2	2,705.8	12.2	9.6	128.12	2,354.6	-647.9	2,671.9	2,650.9	20.99	127.300		
3,300.0	3,273.0	2,810.5	2,800.7	12.6	10.0	128.26	2,368.8	-656.8	2,697.9	2,676.2	21.74	124.092		
3,400.0	3,371.7	2,906.9	2,895.6	13.1	10.4	128.39	2,383.0	-665.7	2,724.0	2,701.5	22.50	121.090		
3,500.0	3,470.4	3,003.2	2,990.5	13.5	10.8	128.51	2,397.1	-674.5	2,750.1	2,726.8	23.25	118.274		
3,600.0	3,569.1	3,100.4	3,085.4	14.0	11.2	128.64	2,411.3	-683.4	2,776.2	2,752.2	24.01	115.614		
3,700.0	3,667.8	3,204.0	3,180.3	14.4	11.7	128.76	2,425.5	-692.3	2,802.3	2,777.5	24.80	113.000		
3,800.0	3,766.5	3,292.3	3,275.2	14.8	12.0	128.88	2,439.7	-701.2	2,828.4	2,802.9	25.53	110.792		
3,900.0	3,865.1	3,900.0	3,453.4	15.3	14.5	129.13	2,463.7	-716.2	2,853.0	2,824.7	28.33	100.723		
4,000.0	3,963.8	4,000.0	3,756.3	15.7	14.8	129.67	2,488.7	-731.8	2,871.0	2,841.7	29.24	98.178		
4,100.0	4,062.5	4,044.5	4,023.5	16.1	14.9	130.29	2,494.1	-735.2	2,882.4	2,852.6	29.84	96.599		
4,200.0	4,161.2	4,143.2	4,023.3	16.6	15.2	130.29	2,494.1	-735.2 -735.2	2,893.0	2,862.4	30.59	94.574		
	4,161.2		4,122.2	17.0			2,494.1	-735.2 -735.2	2,903.6			92.648		
4,300.0 4,400.0	4,259.9	4,241.9 4,340.6	4,220.9	17.0	15.6 15.9	130.77 131.01	2,494.1	-735.2 -735.2	2,903.6	2,872.2 2,882.1	31.34 32.09	92.648		
., .00.0	.,555.0	.,0.0.0	.,5.0.0				_,	, 55.2	_,02	_,002.1	32.30	23.010		
4,500.0	4,457.3	4,439.3	4,418.3	17.9	16.2	131.25	2,494.1	-735.2	2,924.9	2,892.1	32.84	89.064		
4,600.0	4,555.9	4,538.0	4,516.9	18.3	16.6	131.48	2,494.1	-735.2	2,935.7	2,902.1	33.59	87.396		
4,700.0	4,654.6	4,636.6	4,615.6	18.8	16.9	131.71	2,494.1	-735.2	2,946.5	2,912.2	34.34	85.801		
4,800.0	4,753.3	4,735.3	4,714.3	19.2	17.2	131.95	2,494.1	-735.2	2,957.4	2,922.3	35.09	84.277		
4,900.0	4,852.0	4,834.0	4,813.0	19.7	17.6	132.18	2,494.1	-735.2	2,968.3	2,932.4	35.84	82.818		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

Offset De	_		Camamile	Fed Com -	Simon C	amamile Fe	d Com #224H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Prog Refer	ram: 0-M rence	WD Offse	t	Semi Major	Axis				Dista	ance			Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.0	5,049.4	5,031.4	5,010.4	20.6	18.3	132.63	2,494.1	-735.2	2,990.2	2,952.9	37.34	80.082		
5,200.0	5,148.1	5,130.1	5,109.1	21.0	18.6	132.86	2,494.1	-735.2	3,001.3	2,963.2	38.09	78.797		
5,300.0	5,246.7	5,228.8	5,207.7	21.4	19.0	133.08	2,494.1	-735.2	3,012.4	2,973.5	38.84	77.563		
5,400.0	5,345.4	5,327.4	5,306.4	21.9	19.3	133.30	2,494.1	-735.2	3,023.5	2,983.9	39.59	76.377		
5,500.0	5,444.1	5,426.1	5,405.1	22.3	19.6	133.52	2,494.1	-735.2	3,034.7	2,994.4	40.33	75.238		
5,600.0	5,542.8	5,524.8	5,503.8	22.8	20.0	133.74	2,494.1	-735.2	3,045.9	3,004.8	41.08	74.141		
5,700.0	5,641.5	5,623.5	5,602.5	23.2	20.3	133.96	2,494.1	-735.2	3,057.2	3,015.4	41.83	73.085		
5,800.0	5,740.2	5,722.2	5,701.2	23.7	20.7	134.18	2,494.1	-735.2	3,068.5	3,025.9	42.58	72.067		
5,900.0	5,838.9	5,820.9	5,799.9	24.1	21.0	134.39	2,494.1	-735.2	3,079.9	3,036.5	43.33	71.086		
6,000.0	5,937.5	5,919.6	5,898.5	24.5	21.4	134.60	2,494.1	-735.2	3,091.3	3,047.2	44.07	70.140		
6,100.0	6,036.2	6,018.2	5,997.2	25.0	21.7	134.81	2,494.1	-735.2	3,102.7	3,057.9	44.82	69.226		
6,200.0	6,134.9	6,116.9	6,095.9	25.4	22.0	135.02	2,494.1	-735.2	3,114.2	3,068.6	45.57	68.344		
6,300.0	6,233.6	6,215.6	6,194.6	25.9	22.4	135.23	2,494.1	-735.2	3,125.7	3,079.4	46.31	67.492		
6,400.0	6,332.3 6,431.0	6,314.3 6,413.0	6,293.3 6,392.0	26.3 26.8	22.7 23.1	135.44 135.64	2,494.1 2,494.1	-735.2 -735.2	3,137.3 3,148.9	3,090.2	47.06 47.80	66.668 65.871		
6,500.0 6,600.0	6,529.6	6,511.7	6,490.6	27.2	23.1	135.85	2,494.1	-735.2 -735.2	3,160.6	3,101.1 3,112.0	48.55	65.099		
6,700.0	6,628.3	6,610.4	6,589.3	27.6	23.8	136.05	2,494.1	-735.2	3,172.2	3,122.9	49.29	64.353		
6,800.0	6,727.0	6,709.0	6,688.0	28.1	24.1	136.25	2,494.1	-735.2	3,184.0	3,133.9	50.04	63.629		
6,900.0	6,825.7	6,807.7	6,786.7	28.5	24.5	136.45	2,494.1	-735.2	3,195.7	3,145.0	50.78	62.928		
7,000.0	6,924.4	6,906.4	6,885.4	29.0	24.8	136.65	2,494.1	-735.2	3,207.5	3,156.0	51.53	62.248		
7,100.0	7,023.1	7,005.1	6,984.1	29.4	25.2	136.84	2,494.1	-735.2	3,219.4	3,167.1	52.27	61.589		
7,200.0	7,121.8	7,103.8	7,082.8	29.9	25.5	137.04	2,494.1	-735.2	3,231.3	3,178.2	53.02	60.949		
7,300.0	7,220.4	7,202.5	7,181.4	30.3	25.9	137.23	2,494.1	-735.2	3,243.2	3,189.4	53.76	60.328		
7,400.0	7,319.1	7,301.2	7,280.1	30.7	26.2	137.42	2,494.1	-735.2	3,255.1	3,200.6	54.50	59.725		
7,466.5	7,384.7	7,366.7	7,345.7	31.0	26.4	137.55	2,494.1	-735.2	3,263.1	3,208.1	55.00	59.333		
7,500.0	7,417.8	7,400.1	7,378.8	31.2	26.6	137.65	2,494.1	-735.2	3,267.0	3,211.8	55.25	59.136		
7,600.0	7,516.9	7,501.1	7,477.9	31.6	26.9	137.92	2,494.1	-735.2	3,277.4	3,221.4	55.99	58.539		
7,700.0	7,616.2	7,601.8	7,577.2	32.0	27.3	138.14	2,494.1	-735.2	3,285.9	3,229.2	56.72	57.936		
7,800.0	7,715.8	7,702.2	7,676.8	32.4	27.6	138.31	2,494.1	-735.2	3,292.5	3,235.1	57.43	57.326		
7,900.0	7,815.6	7,802.4	7,776.6	32.8	28.0	138.42	2,494.1	-735.2	3,297.1	3,239.0	58.14	56.709		
8,000.0	7,915.5	7,902.4	7,876.5	33.1	28.3	138.49	2,494.1	-735.2	3,299.8	3,241.0	58.84	56.085		
8,086.5	8,002.0	7,984.0	7,963.0	33.3	28.6	-0.68	2,494.1	-735.2	3,300.5	3,241.1	59.40	55.563		
8,100.0	8,015.5	8,002.4	7,976.5	33.4	28.7	-90.48	2,494.1	-735.2	3,300.5	3,241.0	59.51	55.464		
8,150.0	8,065.4	8,047.4	8,026.4	33.5	28.8	-90.53	2,494.1	-735.2	3,300.6	3,240.8	59.81	55.189		
8,200.0 8,250.0	8,114.8 8,163.3	8,103.2 8,145.4	8,075.8 8,124.3	33.6 33.7	29.0 29.2	-90.66 -90.84	2,494.1 2,494.1	-735.2 -735.2	3,300.6 3,300.8	3,240.5 3,240.4	60.13 60.39	54.895 54.663		
8,300.0	8,210.6	8,207.3	8,171.6	33.8	29.4	-91.08	2,494.1	-735.2	3,301.1	3,240.4	60.70	54.383		
8,350.0	8,256.3	8,238.4	8,217.3	33.8	29.5	-91.35	2,494.1	-735.2	3,301.6	3,240.7	60.90	54.217		
8,400.0	8,300.1	8,282.1	8,261.1	33.9	29.7	-91.65	2,494.1	-735.2	3,302.3	3,241.2	61.13	54.025		
8,450.0	8,341.6	8,323.7	8,302.6	33.9	29.8	-91.94	2,494.1	-735.2	3,303.3	3,242.0	61.34	53.852		
8,500.0	8,380.6	8,362.6	8,341.6	33.9	30.0	-92.22	2,494.1	-735.2	3,304.8	3,243.3	61.55	53.697		
8,550.0	8,416.6	8,401.4	8,377.6	33.9	30.1	-92.45	2,494.1	-735.2	3,306.8	3,245.0	61.75	53.550		
8,600.0	8,449.5	8,431.5	8,410.5	33.9	30.2	-92.63	2,494.1	-735.2	3,309.3	3,247.4	61.93	53.434		
8,650.0	8,479.0	8,461.0	8,440.0	33.9	30.3	-92.72	2,494.1	-735.2	3,312.5	3,250.4	62.12	53.322		
8,700.0	8,504.8	8,486.8	8,465.8	33.9	30.4	-92.71	2,494.1	-735.2	3,316.5	3,254.1	62.32	53.220		
8,750.0	8,526.9	8,508.9	8,487.9	33.8	30.5	-92.58	2,494.1	-735.2	3,321.2	3,258.7	62.52	53.126		
8,800.0	8,544.9	8,526.9	8,505.9	33.8	30.5	-92.31	2,494.1	-735.2	3,326.7	3,264.0	62.72	53.039		
8,850.0	8,558.8	8,540.8	8,519.8	33.8	30.6	-91.90	2,494.1	-735.2	3,333.1	3,270.1	62.94	52.959		
8,900.0	8,568.4	8,550.5	8,529.4	33.7	30.6	-91.34	2,494.1	-735.2	3,340.3	3,277.1	63.16	52.886		
8,950.0 8,986.5	8,573.8 8,575.0	8,555.8 8,557.0	8,534.8 8,536.0	33.7 33.7	30.6 30.6	-90.62 -90.00	2,494.1 2,494.1	-735.2 -735.2	3,348.3 3,354.6	3,284.9 3,291.0	63.39 63.56	52.822 52.782		
8,993.2	8,575.0	8,557.0	8,536.0	33.8	30.6	-90.00	2,494.1	-735.2	3,355.8	3,292.2	63.59	52.776		
5,555.2	5,575.0	0,007.0	0,000.0	55.6	30.0	-30.00	۷,۹۵۹.۱	-135.2	0,000.0	0,202.2	05.58	02.110		

Company: Matador Production Company

Project: Ranger/Arrowhead

Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

Well Simon Camamile Fed Com #126H TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Offset Design Simon Camamile Fed Com - Simon Camamile Fed C							d Com #224H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Progr													Offset Well Error:	0.0 usft
Refere Measured		Offse		Semi Major Reference		Higheide	Offcot Wallbor	o Contro	Dista		Minimum	Congretion		
Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,000.0	8,575.0	8,557.0	8,536.0	33.8	30.6	-90.00	2,494.1	-735.2	3,357.1	3,293.4	63.62	52.769		
9,100.0	8,575.0	8,557.0	8,536.0	33.9	30.6	-90.00	2,494.1	-735.2	3,377.0	3,312.9	64.16	52.632		
9,200.0	8,575.0	8,557.0	8,536.0	34.4	30.6	-90.00	2,494.1	-735.2	3,399.8	3,335.0	64.82	52.446		
9,300.0	8,575.0	8,557.0	8,536.0	35.3	30.6	-90.00	2,494.1	-735.2	3,425.3	3,359.7	65.59	52.225		
9,400.0	8,575.0	8,557.0	8,536.0	36.3	30.6	-90.00	2,494.1	-735.2	3,453.6	3,387.1	66.44	51.981		
9,500.0	8,575.0	8,557.0	8,536.0	37.6	30.6	-90.00	2,494.1	-735.2	3,484.5	3,417.1	67.36	51.726		
9,600.0	8,575.0	8,557.0	8,536.0	38.9	30.6	-90.00	2,494.1	-735.2	3,517.9	3,449.6	68.35	51.473		
9,700.0	8,575.0	8,557.0	8,536.0	40.4	30.6	-90.00	2,494.1	-735.2	3,553.9	3,484.5	69.37	51.229		
9,800.0	8,575.0	11,057.3	9,896.6	41.9	47.3	-112.41	2,495.8	663.9	3,568.7	3,484.7	84.06	42.456		
9,900.0	8,575.0	11,157.3	9,898.2	43.6	48.9	-112.44	2,495.9	763.9	3,569.4	3,482.3	87.11	40.977		
10,000.0	8,575.0	11,257.3	9,899.9	45.3	50.7	-112.46	2,496.0	863.9	3,570.0	3,479.7	90.28	39.542		
10,100.0	8,575.0	11,357.3	9,901.5	47.0	52.5	-112.49	2,496.2	963.8	3,570.6	3,477.1	93.58	38.157		
10,200.0	8,575.0	11,457.2	9,903.2	48.9	54.3	-112.51	2,496.3	1,063.8	3,571.3	3,474.3	96.97	36.828		
10,300.0	8,575.0	11,557.2	9,904.8	50.8	56.2	-112.53	2,496.4	1,163.8	3,571.9	3,471.5	100.46	35.557		
10,400.0 10,500.0	8,575.0 8,575.0	11,657.2 11,757.2	9,906.4 9,908.1	52.7 54.7	58.1 60.1	-112.56 -112.58	2,496.5 2,496.7	1,263.8 1,363.7	3,572.5 3,573.2	3,468.5 3,465.5	104.02 107.67	34.343 33.187		
10,600.0 10,700.0	8,575.0 8,575.0	11,857.2 11,957.2	9,909.7 9,911.4	56.7 58.7	62.1 64.1	-112.61 -112.63	2,496.8	1,463.7 1,563.7	3,573.8 3,574.5	3,462.4 3,459.3	111.38 115.14	32.088 31.043		
10,700.0	8,575.0	12,057.2	9,911.4	60.8	66.2	-112.65	2,496.9 2,497.0	1,663.7	3,574.5	3,456.1	118.97	30.051		
10,800.0	8,575.0	12,057.2	9,913.0	62.9	68.3	-112.68	2,497.0	1,763.6	3,575.7	3,452.9	122.84	29.109		
11,000.0	8,575.0	12,257.1	9,916.3	65.0	70.4	-112.70	2,497.3	1,863.6	3,576.4	3,449.6	126.75	28.215		
11,100.0	8,575.0	12,357.1	9,917.9	67.1	72.5	-112.73	2,497.4	1,963.6	3,577.0	3,446.3	130.71	27.366		
11,200.0	8,575.0	12,457.1	9,919.6	69.3	74.7	-112.75	2,497.5	2,063.5	3,577.7	3,443.0	134.70	26.560		
11,300.0	8,575.0	12,557.1	9,921.2	71.5	76.9	-112.78	2,497.6	2,163.5	3,578.3	3,439.6	138.72	25.794		
11,400.0	8,575.0	12,657.1	9,922.8	73.7	79.1	-112.80	2,497.8	2,263.5	3,578.9	3,436.2	142.78	25.066		
11,500.0	8,575.0	12,757.1	9,924.5	75.9	81.3	-112.82	2,497.9	2,363.5	3,579.6	3,432.7	146.86	24.374		
11,600.0	8,575.0	12,857.1	9,926.1	78.2	83.5	-112.85	2,498.0	2,463.4	3,580.2	3,429.3	150.97	23.715		
11,700.0	8,575.0	12,957.0	9,927.8	80.4	85.7	-112.87	2,498.1	2,563.4	3,580.9	3,425.8	155.10	23.087		
11,800.0	8,575.0	13,057.0	9,929.4	82.7	88.0	-112.90	2,498.2	2,663.4	3,581.5	3,422.3	159.25	22.490		
11,900.0	8,575.0	13,157.0	9,931.0	84.9	90.2	-112.92	2,498.4	2,763.4	3,582.2	3,418.7	163.42	21.920		
12,000.0	8,575.0	13,257.0	9,932.7	87.2	92.5	-112.94	2,498.5	2,863.3	3,582.8	3,415.2	167.61	21.376		
12,100.0	8,575.0	13,357.0	9,934.3	89.5	94.8	-112.97	2,498.6	2,963.3	3,583.4	3,411.6	171.82	20.856		
12,200.0	8,575.0	13,457.0	9,936.0	91.8	97.0	-112.99	2,498.7	3,063.3	3,584.1	3,408.1	176.04	20.360		
12,300.0	8,575.0	13,557.0	9,937.6	94.1	99.3	-113.02	2,498.9	3,163.3	3,584.7	3,404.5	180.27	19.885		
12,400.0	8,575.0	13,656.9	9,939.2	96.4	101.6	-113.04	2,499.0	3,263.2	3,585.4	3,400.9	184.52	19.431		
12,500.0	8,575.0	13,756.9	9,940.9	98.7	103.9	-113.07	2,499.1	3,363.2	3,586.0	3,397.3	188.78	18.996		
12,600.0	8,575.0	13,856.9	9,942.5	101.0	106.3	-113.09	2,499.2	3,463.2	3,586.7	3,393.6	193.05	18.579		
12,700.0	8,575.0	13,956.9	9,944.2	103.4	108.6	-113.11	2,499.3	3,563.1	3,587.3	3,390.0	197.33	18.180		
12,800.0	8,575.0	14,056.9	9,945.8	105.7	110.9	-113.14	2,499.5	3,663.1	3,588.0	3,386.4	201.61	17.796		
12,900.0 13,000.0	8,575.0 8,575.0	14,156.9 14,256.9	9,947.4 9,949.1	108.0 110.4	113.2 115.6	-113.16 -113.19	2,499.6 2,499.7	3,763.1 3,863.1	3,588.6 3,589.3	3,382.7 3,379.1	205.91 210.22	17.428 17.074		
13,100.0	8,575.0	14,356.9	9,950.7	112.7	117.9	-113.21	2,499.8	3,963.0	3,589.9	3,375.4	214.53	16.734		
13,200.0	8,575.0	14,456.8	9,952.4	115.1	120.2	-113.23	2,500.0	4,063.0	3,590.6	3,371.7	218.85	16.406		
13,300.0	8,575.0	14,556.8	9,954.0	117.5	122.6	-113.26	2,500.1	4,163.0	3,591.3	3,368.1	223.18	16.091		
13,400.0	8,575.0	14,656.8	9,955.6	119.8	125.0	-113.28	2,500.2	4,263.0	3,591.9	3,364.4	227.51	15.788		
13,500.0	8,575.0	14,756.8	9,957.3	122.2	127.3	-113.31	2,500.3	4,362.9	3,592.6	3,360.7	231.85	15.495		
13,600.0	8,575.0	14,856.8	9,958.9	124.6	129.7	-113.33	2,500.4	4,462.9	3,593.2	3,357.0	236.20	15.213		
13,700.0	8,575.0	14,956.8	9,960.6	126.9	132.0	-113.35	2,500.6	4,562.9	3,593.9	3,353.3	240.54	14.941		
13,800.0	8,575.0	15,056.8	9,962.2	129.3	134.4	-113.38	2,500.7	4,662.8	3,594.5	3,349.6	244.90	14.678		
13,900.0	8,575.0	15,156.7	9,963.8	131.7	136.8	-113.40	2,500.8	4,762.8	3,595.2	3,345.9	249.25	14.424		
14,000.0	8,575.0	15,256.7	9,965.5	134.1	139.1	-113.43	2,500.9	4,862.8	3,595.8	3,342.2	253.62	14.178		
14,100.0	8,575.0	15,356.7	9,967.1	136.4	141.5	-113.45	2,501.1	4,962.8	3,596.5	3,338.5	257.98	13.941		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

 TVD Reference:
 KB @ 3377.5usft

 MD Reference:
 KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #224H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Prog													Offset Well Error:	0.0 usft
Refer Measured	ence Vertical	Offse Measured	t Vertical	Semi Major Reference	r Axis Offset	Highside	Offset Wellbor	o Contro	Dista Between	ance Between	Minimum	Separation	186 l	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
14,200.0	8,575.0	15,456.7	9,968.8	138.8	143.9	-113.47	2,501.2	5,062.7	3,597.2	3,334.8	262.35	13.711		
14,300.0	8,575.0	15,556.7	9,970.4	141.2	146.3	-113.50	2,501.3	5,162.7	3,597.8	3,331.1	266.72	13.489		
14,400.0	8,575.0	15,656.7	9,972.0	143.6	148.7	-113.52	2,501.4	5,262.7	3,598.5	3,327.4	271.09	13.274		
14,500.0	8,575.0	15,756.7	9,973.7	146.0	151.1	-113.54	2,501.5	5,362.7	3,599.1	3,323.7	275.47	13.065		
14,600.0	8,575.0	15,856.7	9,975.3	148.4	153.4	-113.57	2,501.7	5,462.6	3,599.8	3,320.0	279.85	12.863		
14,700.0	8,575.0	15,956.6	9,977.0	150.8	155.8	-113.59	2,501.8	5,562.6	3,600.5	3,316.2		12.667		
14,800.0	8,575.0	16,056.6	9,978.6	153.2	158.2	-113.62	2,501.9	5,662.6	3,601.1	3,312.5		12.477		
14,900.0	8,575.0	16,156.6	9,980.2	155.6	160.6	-113.64	2,502.0	5,762.5	3,601.8	3,308.8	293.00	12.293		
15,000.0 15,100.0	8,575.0 8,575.0	16,256.6 16,356.6	9,981.9 9,983.5	158.0 160.4	163.0 165.4	-113.66 -113.69	2,502.2 2,502.3	5,862.5 5,962.5	3,602.5 3,603.1	3,305.1 3,301.4	297.39 301.78	12.114 11.940		
15,200.0	8,575.0	16,456.6	9,985.2	162.8	167.8	-113.71	2,502.4	6,062.5	3,603.8	3,297.6	306.17	11.771		
15,300.0	8,575.0	16,556.6	9,986.8	165.2	170.2	-113.74	2,502.5	6,162.4	3,604.5	3,293.9	310.56	11.606		
15,400.0	8,575.0	16,656.5	9,988.4	167.6	170.2	-113.74	2,502.6	6,262.4	3,605.1	3,290.2	314.96	11.446		
15,500.0	8,575.0	16,756.5	9,990.1	170.0	175.0	-113.76	2,502.8	6,362.4	3,605.8	3,286.4	319.35	11.291		
15,600.0	8,575.0	16,856.5	9,991.7	170.0	177.4	-113.70	2,502.9	6,462.4	3,606.5	3,282.7	323.75	11.140		
15,700.0	8,575.0	16,956.5	9,993.4	174.9	179.8	-113.83	2,503.0	6,562.3	3,607.1	3,279.0	328.14	10.993		
15,800.0	8,575.0	17,056.5	9,995.0	177.3	182.2	-113.85	2,503.1	6,662.3	3,607.8	3,275.3	332.54	10.849		
15,900.0	8,575.0	17,156.5	9,996.6	179.7	184.7	-113.88	2,503.3	6,762.3	3,608.5	3,271.5	336.94	10.710		
16,000.0	8,575.0	17,256.5	9,998.3	182.1	187.1	-113.90	2,503.4	6,862.3	3,609.1	3,267.8	341.34	10.574		
16,100.0	8,575.0	17,356.5	9,999.9	184.5	189.5	-113.93	2,503.5	6,962.2	3,609.8	3,264.1	345.73	10.441		
16,200.0	8,575.0	17,456.4	10,001.6	187.0	191.9	-113.95	2,503.6	7,062.2	3,610.5	3,260.4	350.13	10.312		
16,300.0	8,575.0	17,556.4	10,003.2	189.4	194.3	-113.97	2,503.7	7,162.2	3,611.2	3,256.6	354.53	10.186		
16,400.0	8,575.0	17,656.4	10,004.8	191.8	196.7	-114.00	2,503.9	7,262.1	3,611.8	3,252.9	358.93	10.063		
16,500.0	8,575.0	17,756.4	10,006.5	194.2	199.1	-114.02	2,504.0	7,362.1	3,612.5	3,249.2	363.34	9.943		
16,600.0	8,575.0	17,856.4	10,008.1	196.6	201.6	-114.04	2,504.1	7,462.1	3,613.2	3,245.4	367.74	9.825		
16,700.0	8,575.0	17,956.4	10,009.8	199.1	204.0	-114.07	2,504.2	7,562.1	3,613.9	3,241.7	372.14	9.711		
16,800.0	8,575.0	18,056.4	10,011.4	201.5	206.4	-114.09	2,504.3	7,662.0	3,614.5	3,238.0	376.54	9.599		
16,900.0	8,575.0	18,156.3	10,013.1	203.9	208.8	-114.12	2,504.5	7,762.0	3,615.2	3,234.3	380.94	9.490		
17,000.0	8,575.0	18,256.3	10,014.7	206.3	211.2	-114.14	2,504.6	7,862.0	3,615.9	3,230.6	385.34	9.384		
17,100.0 17,200.0	8,575.0 8,575.0	18,356.3 18,456.3	10,016.3 10,018.0	208.8 211.2	213.7 216.1	-114.16 -114.19	2,504.7 2,504.8	7,962.0 8,061.9	3,616.6 3,617.2	3,226.8 3,223.1	389.74 394.14	9.279 9.178		
17,300.0	8,575.0	18,556.3	10,019.6	213.6	218.5	-114.21	2,505.0	8,161.9	3,617.9	3,219.4	398.54	9.078		
17,400.0	8,575.0	18,656.3	10,021.3	216.0	220.9	-114.23	2,505.1	8,261.9	3,618.6	3,215.7	402.94	8.980		
17,500.0	8,575.0	18,756.3	10,022.9	218.5	223.3	-114.26	2,505.2	8,361.8	3,619.3	3,211.9	407.34	8.885		
17,600.0	8,575.0	18,856.2	10,024.5	220.9	225.8	-114.28	2,505.3	8,461.8	3,620.0	3,208.2	411.74	8.792		
17,700.0	8,575.0	18,956.2	10,026.2	223.3	228.2	-114.30	2,505.4	8,561.8	3,620.6	3,204.5	416.14	8.700		
17,800.0	8,575.0	19,056.2	10,027.8	225.8	230.6	-114.33	2,505.6	8,661.8	3,621.3	3,200.8	420.54	8.611		
17,900.0	8,575.0	19,156.2	10,029.5	228.2	233.1	-114.35	2,505.7	8,761.7	3,622.0	3,197.1	424.94	8.524		
18,000.0	8,575.0	19,256.2	10,031.1	230.6	235.5	-114.38	2,505.8	8,861.7	3,622.7	3,193.4	429.34	8.438		
18,100.0	8,575.0	19,356.2	10,032.7	233.0	237.9	-114.40	2,505.9	8,961.7	3,623.4	3,189.6	433.74	8.354		
18,200.0	8,575.0	19,456.2	10,034.4	235.5	240.3	-114.42	2,506.1	9,061.7	3,624.1	3,185.9	438.13	8.272		
18,300.0	8,575.0	19,556.2	10,036.0	237.9	242.8	-114.45	2,506.2	9,161.6	3,624.7	3,182.2	442.53	8.191		
18,400.0	8,575.0	19,656.1	10,037.7	240.3	245.2	-114.47	2,506.3	9,261.6	3,625.4	3,178.5	446.93	8.112		
18,500.0	8,575.0	19,756.1	10,039.3	242.8	247.6	-114.49	2,506.4	9,361.6	3,626.1	3,174.8	451.32	8.034		
18,600.0	8,575.0	19,856.1	10,040.9	245.2	250.1	-114.52	2,506.5	9,461.6	3,626.8	3,171.1	455.72	7.958		
18,700.0	8,575.0	19,956.1	10,042.6	247.6	252.5	-114.54	2,506.7	9,561.5	3,627.5	3,167.4	460.11	7.884		
18,800.0	8,575.0	20,056.1	10,044.2	250.1	254.9	-114.56	2,506.8	9,661.5	3,628.2	3,163.7	464.50	7.811		
18,900.0	8,575.0	20,156.1	10,045.9	252.5	257.3	-114.59	2,506.9	9,761.5	3,628.9	3,160.0	468.90	7.739		
19,000.0	8,575.0	20,256.1	10,047.5	255.0	259.8	-114.61	2,507.0	9,861.4	3,629.6	3,156.3	473.29	7.669		
19,100.0 19,200.0	8,575.0 8,575.0	20,356.0 20,456.0	10,049.1 10,050.8	257.4 259.8	262.2 264.6	-114.63 -114.66	2,507.2 2,507.3	9,961.4 10,061.4	3,630.3 3,630.9	3,152.6 3,148.9	477.68 482.07	7.600 7.532		
19,300.0	8,575.0	20,556.0	10,052.4	262.3	267.1	-114.68	2,507.4	10,161.4	3,631.6	3,145.2		7.465		
10,000.0	0,010.0	20,000.0	10,002.4	202.3	201.1	-114.00	2,001.4	10,101.4	0,001.0	0,140.2	400.40	1.400		

Database:

Company: Matador Production Company

Project: Ranger/Arrowhead Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft KB @ 3377.5usft MD Reference:

Well Simon Camamile Fed Com #126H

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma EDM 5000.14 Single User Db

Offset Des	•		Camamile	Fed Com -	Simon C	amamile Fe	d Com #224H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 usft
Survey Progr Refere		WD Offse		Semi Major	Avio				Dista				Offset Well Error:	0.0 usft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
19,400.0	8,575.0	20,656.0	10,054.1	264.7	269.5	-114.70	2,507.5	10,261.3	3,632.3	3,141.5	490.85	7.400		
19,500.0	8,575.0	20,756.0	10,055.7	267.1	272.0	-114.73	2,507.6	10,361.3	3,633.0	3,137.8	495.24	7.336		
19,600.0	8,575.0	20,856.0	10,057.3	269.6	274.4	-114.75	2,507.8	10,461.3	3,633.7	3,134.1	499.62	7.273		
19,700.0	8,575.0	20,956.0	10,059.0	272.0	276.8	-114.78	2,507.9	10,561.3	3,634.4	3,130.4	504.01	7.211		
19,800.0	8,575.0	21,056.0	10,060.6	274.5	279.3	-114.80	2,508.0	10,661.2	3,635.1	3,126.7	508.40	7.150		
19,900.0	8,575.0	21,155.9	10,062.3	276.9	281.7	-114.82	2,508.1	10,761.2	3,635.8	3,123.0	512.78	7.090		
20,000.0	8,575.0	21,255.9	10,063.9	279.3	284.1	-114.85	2,508.3	10,861.2	3,636.5	3,119.3	517.16	7.032		
20,100.0	8,575.0	21,355.9	10,065.5	281.8	286.6	-114.87	2,508.4	10,961.1	3,637.2	3,115.6	521.55	6.974		
20,200.0	8,575.0	21,455.9	10,067.2	284.2	289.0	-114.89	2,508.5	11,061.1	3,637.9	3,112.0	525.93	6.917		
20,300.0	8,575.0	21,555.9	10,068.8	286.6	291.4	-114.92	2,508.6	11,161.1	3,638.6	3,108.3	530.31	6.861		
20,400.0	8,575.0	21,655.9	10,070.5	289.1	293.9	-114.94	2,508.7	11,261.1	3,639.3	3,104.6	534.69	6.806		
20,500.0	8,575.0	21,755.9	10,072.1	291.5	296.3	-114.96	2,508.9	11,361.0	3,640.0	3,100.9	539.07	6.752		
20,600.0	8,575.0	21,855.8	10,073.7	294.0	298.8	-114.99	2,509.0	11,461.0	3,640.7	3,097.2	543.44	6.699		
20,700.0	8,575.0	21,955.8	10,075.4	296.4	301.2	-115.01	2,509.1	11,561.0	3,641.4	3,093.6	547.82	6.647		
20,800.0	8,575.0	22,055.8	10,077.0	298.9	303.6	-115.03	2,509.2	11,661.0	3,642.1	3,089.9	552.19	6.596		
20,900.0	8,575.0	22,155.8	10,078.7	301.3	306.1	-115.06	2,509.4	11,760.9	3,642.8	3,086.2	556.57	6.545		
21,000.0	8,575.0	22,255.8	10,080.3	303.7	308.5	-115.08	2,509.5	11,860.9	3,643.5	3,082.5	560.94	6.495		
21,100.0	8,575.0	22,355.8	10,081.9	306.2	310.9	-115.10	2,509.6	11,960.9	3,644.2	3,078.9	565.31	6.446		
21,200.0	8,575.0	22,459.4	10,083.2	308.6	313.5	-115.12	2,509.9	12,064.4	3,644.8	3,075.0	569.80	6.397		
21,213.6	8,575.0	22,472.9	10,083.4	309.0	313.8	-115.12	2,509.9	12,078.0	3,644.9	3,074.5	570.40	6.390 SF	=	

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft

KB @ 3377.5usft

# Anticollision Report

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Grid **Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Offset Design Simon Camamile Fed Com - Simon Camamile Fed Com #225H - Wellbore #1 - BLM Plan #1									Offset Site Error:	0.0 usft				
Survey Progr Refere		WD Offse	et	Semi Major	Axis				Dista	ance			Offset Well Error:	0.0 usft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor	e Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	. 40101		
0.0	0.0	0.0	0.0	0.0	0.0	-15.73	2,169.1	-610.9	2,253.8					
100.0	100.0	63.0	63.0	0.1	0.1	-15.73	2,169.1	-610.9	2,253.5	2,253.3	0.21	N/A		
200.0	200.0	163.0	163.0	0.5	0.4	-15.73	2,169.1	-610.9	2,253.5	2,252.6	0.84	2,680.760		
300.0	300.0	263.0	263.0	0.8	0.7	-15.73	2,169.1	-610.9	2,253.5	2,251.9	1.56	1,446.809		
400.0	400.0	363.0	363.0	1.2	1.1	-15.73	2,169.1	-610.9	2,253.5	2,251.2	2.27	990.762		
500.0	500.0	463.0	463.0	1.6	1.4	-15.73	2,169.1	-610.9	2,253.5	2,250.5	2.99	753.311		
600.0	600.0	563.0	563.0	1.9	1.8	-15.73	2,169.1	-610.9	2,253.5	2,249.8	3.71	607.674		
700.0	700.0	663.0	663.0	2.3	2.1	-15.73	2,169.1	-610.9	2,253.5	2,249.1	4.43	509.225		
800.0	800.0	763.0	763.0	2.6	2.5	-15.73	2,169.1	-610.9	2,253.5	2,248.3	5.14	438.228		
900.0	900.0	863.0	863.0	3.0	2.9	-15.73	2,169.1	-610.9	2,253.5	2,247.6	5.86	384.606		
1,000.0	1,000.0	963.0	963.0	3.4	3.2	-15.73	2,169.1	-610.9	2,253.5	2,246.9	6.58	342.676		
1,100.0	1,100.0	1,063.0	1,063.0	3.7	3.6	123.48	2,169.1	-610.9	2,254.7	2,247.4	7.28	309.805		
1,200.0	1,199.7	1,162.7	1,162.7	4.0	3.9	123.54	2,169.1	-610.9	2,258.3	2,250.3	7.97	283.373		
1,300.0	1,299.1	1,262.1	1,262.1	4.4	4.3	123.65	2,169.1	-610.9	2,264.4	2,255.7	8.67	261.214		
1,372.0	1,370.4	1,333.4	1,333.4	4.6	4.5	123.74	2,169.1	-610.9	2,270.2	2,261.1	9.18	247.349		
1,400.0	1,398.0	1,361.0	1,361.0	4.7	4.6	123.84	2,169.1	-610.9	2,272.8	2,263.4	9.38	242.352		
1,500.0	1,496.7	1,459.7	1,459.7	5.1	5.0	124.17	2,169.1	-610.9	2,281.9	2,271.8	10.09	226.046		
1,600.0	1,595.4	1,593.1	1,593.1	5.5	5.5	124.61	2,168.4	-611.0	2,290.7	2,279.7	10.93	209.621		
1,700.0	1,694.1	1,751.4	1,751.3	5.9	6.0	125.09	2,163.6	-611.5	2,297.1	2,285.3	11.82	194.342		
1,800.0	1,792.7	1,910.5	1,910.1	6.3	6.5	125.54	2,154.5	-612.6	2,301.1	2,288.4	12.72	180.888		
1,900.0	1,891.4	2,070.1	2,069.2	6.7	7.1	125.94	2,141.0	-614.1	2,302.6	2,288.9	13.63	168.940		
2,000.0	1,990.1	2,230.0	2,228.1	7.1	7.6	126.31	2,123.0	-616.2	2,301.4	2,286.9	14.54	158.276		
2,100.0	2,088.8	2,356.0	2,352.9	7.5	8.1	126.58	2,106.0	-618.2	2,298.2	2,282.8	15.36	149.660		
2,200.0	2,187.5	2,455.6	2,451.5	7.9	8.4	126.79	2,092.2	-619.8	2,294.6	2,278.5	16.10	142.528		
2,300.0	2,286.2	2,555.2	2,550.1	8.3	8.8	127.00	2,078.5	-621.4	2,291.2	2,274.3	16.85	135.993		
2,400.0	2,384.9	2,654.8	2,648.8	8.8	9.2	127.21	2,064.7	-623.0	2,287.7	2,270.1	17.60	129.989		
2,500.0	2,483.5	2,754.4	2,747.4	9.2	9.6	127.42	2,050.9	-624.7	2,284.3	2,266.0	18.35	124.458		
2,600.0	2,582.2	2,854.0	2,846.0	9.6	10.0	127.63	2,037.2	-626.3	2,280.9	2,261.8	19.11	119.350		
2,700.0	2,680.9	2,953.6	2,944.6	10.1	10.3	127.84	2,023.4	-627.9	2,277.6	2,257.7	19.87	114.619		
2,800.0	2,779.6	3,053.1	3,043.2	10.5	10.7	128.05	2,009.6	-629.5	2,274.2	2,253.6	20.63	110.229		
2,900.0	2,878.3	3,152.7	3,141.8	10.9	11.1	128.27	1,995.9	-631.1	2,271.0	2,249.6	21.40	106.144		
3,000.0	2,977.0	3,252.3	3,240.5	11.3	11.5	128.48	1,982.1	-632.7	2,267.7	2,245.5	22.16	102.336		
3,100.0	3,075.7	3,351.9	3,339.1	11.8	11.9	128.69	1,968.3	-634.3	2,264.5	2,241.5	22.92	98.778		
3,200.0	3,174.3	3,451.5	3,437.7	12.2	12.3	128.91	1,954.6	-635.9	2,261.3	2,237.6	23.69	95.448		
3,300.0	3,273.0	3,551.1	3,536.3	12.6	12.7	129.12	1,940.8	-637.5	2,258.1	2,233.7	24.46	92.324		
3,400.0	3,371.7	3,650.7	3,634.9	13.1	13.1	129.34	1,927.0	-639.1	2,255.0	2,229.8	25.23	89.390		
3,500.0	3,470.4	3,750.3	3,733.5	13.5	13.5	129.56	1,913.3	-640.7	2,251.9	2,225.9	25.99	86.628		
3,600.0	3,569.1	3,849.8	3,832.2	14.0	13.9	129.77	1,899.5	-642.3	2,248.8	2,222.1	26.76	84.025		
3,700.0	3,667.8	3,949.4	3,930.8	14.4	14.3	129.99	1,885.7	-643.9	2,245.8	2,218.2	27.53	81.568		
3,800.0	3,766.5	4,049.0	4,029.4	14.8	14.7	130.21	1,872.0	-645.5	2,242.8	2,214.5	28.30	79.244		
3,900.0	3,865.1	4,148.6	4,128.0	15.3	15.1	130.43	1,858.2	-647.1	2,239.8	2,210.7	29.07	77.044		
4,000.0	3,963.8	4,248.2	4,226.6	15.7	15.5	130.65	1,844.4	-648.7	2,236.9	2,207.0	29.84	74.959		
4,100.0	4,062.5	4,347.8	4,325.2	16.1	15.9	130.87	1,830.7	-650.3	2,234.0	2,203.4	30.61	72.980		
4,200.0	4,161.2	4,447.4	4,423.9	16.6	16.4	131.09	1,816.9	-651.9	2,231.1	2,199.7	31.38	71.098		
4,300.0	4,259.9	4,546.9	4,522.5	17.0	16.8	131.31	1,803.1	-653.6	2,228.3	2,196.1	32.15	69.308		
4,400.0	4,358.6	4,646.5	4,621.1	17.5	17.2	131.53	1,789.4	-655.2	2,225.5	2,192.5	32.92	67.603		
4,500.0	4,457.3	4,746.1	4,719.7	17.9	17.6	131.75	1,775.6	-656.8	2,222.7	2,189.0	33.69	65.978		
4,600.0	4,555.9	4,845.7	4,818.3	18.3	18.0	131.98	1,761.8	-658.4	2,220.0	2,185.5	34.46	64.426		
4,700.0	4,654.6	4,945.3	4,916.9	18.8	18.4	132.20	1,748.1	-660.0	2,217.3	2,182.0	35.23	62.943		
4,800.0	4,753.3	5,044.9	5,015.6	19.2	18.8	132.42	1,734.3	-661.6	2,214.6	2,178.6	36.00	61.525		
4,900.0	4,852.0	5,144.5	5,114.2	19.7	19.2	132.65	1,720.5	-663.2	2,212.0	2,175.2	36.76	60.168		
5,000.0	4,950.7	5,244.0	5,212.8	20.1	19.7	132.87	1,706.8	-664.8	2,209.4	2,171.8	37.53	58.868		
						-	,		,					

Company: Matador Production Company

Project: Ranger/Arrowhead Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

Well Simon Camamile Fed Com #126H TVD Reference: KB @ 3377.5usft

KB @ 3377.5usft MD Reference: North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

Note   Part	Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #225H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Name					0									Offset Well Error:	0.0 usft
Page					-		Highside	Offset Wellbor	e Centre			Minimum	Separation	Warning	
	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		warmig	
5,000   5,2467   5,5628   5,000   21,4   20,9   133,55   1,665.5   466.6   2,216   2,161.5   3,683   55,276   5,000   5,444   1,472   5,000   2,213   13,74   1,661.7   4,712   2,196.9   2,185.5   41,361   1,101   1,660.0   5,444   1,472   5,000   5,445   1,660.5   2,444   2,146.5   2,145.5   4,136   1,810   1,660.5   2,146.5   4,136   1,810   1,660.5   2,146.5   4,136   1,810   1,660.5   2,146.5   4,136   1,810   1,660.5   2,146.5   4,136   1,810   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1,860.5   1	5,100.0	5,049.4	5,343.6	5,311.4	20.6	20.1	133.10	1,693.0	-666.4	2,206.8	2,168.5	38.30	57.621		
Section   Sect	5,200.0	5,148.1	5,443.2	5,410.0	21.0	20.5	133.32	1,679.2	-668.0	2,204.3	2,165.2	39.07	56.425		
5,000   5,444   5,740   5,708   223   217   134.00   1,879   4,728   2,198   2,198   4,138   33.10	5,300.0	5,246.7	5,542.8	5,508.6	21.4	20.9	133.55	1,665.5	-669.6	2,201.8	2,161.9	39.83	55.276		
Section   Sect															
5,700.0 5,641.5 5,941.1 5,903.1 25.2 22.8 134.46 1,010.4 476.0 2,192.1 2,149.3 42.50 51.05 5,500.0 5,740.2 6,047.7 6,001.7 23.7 25.0 134.09 1,590.6 477.6 2,169.6 2,140.2 45.06 50.105 6,000.0 5,337.5 6,239.0 6,100.0 5,007.8 26.0 51.05 1,000.0 5,337.5 6,239.0 6,100.0 24.5 23.8 135.15 1,590.1 4,590.0 4,590.0 2,150.3 2,140.1 4,511 4,402.4 40,242 6,000.0 5,337.5 6,239.0 6,000.0 24.5 23.8 135.15 1,590.1 4,590.0 4,590.0 2,150.3 2,140.1 4,511 4,402.4 40,242 6,000.0 6,140.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0															
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6,000   6,054   6,399   6,297 6   250   242   153.88   1,555.3   -862.5   2,183.1   2,137.1   4,595   47.999															
6,200															
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6,000         6,2296         6,8374         6,7007         2 / 2         28 3         139.54         1,486.5         -89.05         2,172.5         2,122.8         4,976         43,661           6,700         6,628.3         6,837.0         6,889.3         27.6         26.7         136.77         1,472.7         -69.21         2,172.5         2,172.5         2,173.5         2,128.8         42.290           6,800.0         6,227.7         7,036.6         6,887.9         2,281         272.2         137.04         1,445.2         -89.3         2,168.7         2,114.6         52.04         41.606           7,000.0         7,024.4         7,238.8         7,188.2         2,088.1         137.74         1,445.2         -89.5         2,162.9         2,109.4         53.55         40.387           7,200.0         7,221.8         7,434.9         7,382.4         29.9         28.8         137.94         1,403.9         -700.1         2,161.1         2,106.8         53.55         40.387           7,400.0         7,319.1         7,834.1         7,759.6         30.7         29.7         138.41         1,376.4         -703.3         2,157.6         2,107.5         56.83         38.648           7,500.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															
6,700.0 6,828.3 6,837.0 6,889.3 27.6 28.7 136.77 1,472.7 692.1 2,170.5 2,120.0 50.52 42.965 6,800.0 6,727.0 7,036.6 6,987.9 28.1 27.2 137.00 1,459.0 493.7 2,188.6 2,117.3 51.28 42.290 6,800.0 6,826.7 7,136.2 7,086.5 2.85 27.6 85.2 7.6 137.24 1,452.6 695.3 2,166.7 2,114.6 52.04 41.636 6,900.0 6,824.4 7,235.8 7,165.1 20.0 28.0 137.47 1,431.4 486.9 2,164.8 2,112.0 52.80 41.002 7,100.0 7,023.1 7,335.4 7,283.8 29.4 28.4 137.71 1,471.7 489.5 2,162.9 2,104.8 2,112.0 52.80 41.002 7,100.0 7,023.1 7,335.4 7,283.8 29.4 28.4 137.71 1,471.7 489.5 2,162.9 2,104.8 2,112.0 52.80 41.002 7,200.0 7,121.8 7,434.9 7,382.4 29.9 28.8 137.94 1,403.9 7.00.1 2,161.1 2,106.8 54.31 39.790 7,200.0 7,220.4 7,534.5 7,748.10 30.3 29.2 138.18 1,380.1 7.01.7 2,196.3 2,104.2 55.07 39.211 7,400.0 7,311.7 7,703.3 7,645.1 30.7 29.7 138.41 1,376.4 7.070.3 2,157.6 2,101.7 56.8 33 38.648 7,480.5 7,384.7 7,700.3 7,645.1 31.0 29.9 138.57 1,367.2 7.04.4 2,156.4 2,100.1 56.3 33 38.283 7,500.0 7,417.8 7,733.7 7,782.3 31.6 30.5 138.81 1,380.1 7.04.9 2,156.8 2,099.2 56.58 38.100 7,516.9 7,333.4 7,776.9 31.6 30.5 138.81 1,380.0 7.08.2 1,472.2 2,081.1 58.07 38.100 7,516.9 7,333.4 7,776.9 31.6 30.5 138.81 1,380.0 7.08.2 1,472.2 2,081.1 58.07 38.977 7,200.0 7,516.9 7,333.4 7,776.9 32.8 31.6 30.5 138.81 1,380.0 7.08.2 1,472.2 2,081.1 58.07 38.977 7,200.0 7,516.6 8,132.3 8,072.9 32.8 31.8 138.92 1,335.0 7.08.2 1,472.2 2,081.1 58.07 38.977 7,200.0 7,515.6 8,132.7 7,576.5 32.0 30.9 138.91 1,335.0 7.08.2 1,472.2 2,081.1 58.07 38.977 7,200.0 7,515.6 8,132.3 8,072.9 32.8 31.8 138.92 1,307.5 7,714.2 2,108.8 2,071.3 58.51 38.803 8,200.0 7,515.5 8,315.8 8,237 7,578.2 31.8 138.9 1,335.0 7,000.7 7,114.2 2,108.8 2,071.3 58.51 38.803 8,200.0 7,715.5 8,032.7 7,714.5 8,203.7 7,714.2 2,108.8 2,071.3 58.51 38.803 8,200.0 8,200.0 8,315.5 8,315.8 8,247.7 33.4 32.5 9.94 1,282.2 7,714.3 2,108.7 2,047.7 8,077.3 38.94 39.1 39.1 39.3 31.0 9.4 30.0 1,275.2 7,714.2 2,008.4 2,009.5 61.6 33.3 39.9 33.5 9.6 89 1,125.6 7,714.2 2,084.2 2,005.1 62.0 33.5 11.2 3.5 3.5 3.5 9.6 89 1,125.6 7,714.2															
6,800,0 6,727,0 7,038,6 6,887,9 28,1 27,2 137,00 1,459,0 493,37 2,168,6 2,117,3 51,28 42,290 6,800,0 6,8027 7,130,2 7,086,5 2,165,1 32,24 1,445,2 4,696,3 2,166,2 1,166,5 2,162,4 41,638,9 7,000,0 6,824,4 7,238,6 7,185,1 29,0 28,0 137,47 1,431,4 4,969,9 2,164,8 2,112,0 52,80 4,100,2 7,100,0 7,023,1 7,335,4 7,283,8 29,4 28,4 137,71 1,417,7 4,985,5 2,162,9 1,109,4 53,55 40,387,7 7,200,0 7,121,8 7,449,9 7,382,4 29,9 28,8 137,94 1,431,4 4,969,9 2,164,8 2,112,0 52,80 4,100,2 7,200,0 7,121,8 7,449,9 7,382,4 29,9 28,8 137,94 1,400,1 7,017,0 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,100,1 1,10															
6,900,0         6,829.7         7,196.2         7,086.5         28.5         27.6         137.24         1,446.2         4,963.3         2,166.7         2,114.6         52.04         41,638           7,000,0         7,023.1         7,335.4         7,283.8         29.4         28.4         137.71         1,411.4         -806.5         2,162.9         2,109.4         53.55         40,387           7,000,0         7,223.1         7,335.4         7,283.8         29.4         28.4         137.71         1,411.7         -698.5         2,162.9         2,109.4         53.55         40,387           7,000,0         7,220.4         7,548.9         7,383.4         7,989.0         28.8         137.94         1,403.9         -70.1         2,169.3         2,007.9         39.7         29.7         138.41         1,390.4         -70.1         2,169.2         55.07         39.21         7.449.2         1,586.4         2,101.1         56.83         38.648         7.449.2         1,586.4         2,101.1         56.83         38.838         7.741.2         2,147.7         7.741.2         2,147.7         7.741.3         7.357.7         7.741.3         3.37.7         7.747.3         3.1         30.1         138.64         1,362.6         7.749.4															
7,000         6,924.4         7,235.8         7,185.1         20.0         28.0         137.47         1,431.4         4,969.0         2,164.8         2,112.0         52.80         41.002           7,100.0         7,231.1         7,335.4         7,283.8         29.4         28.4         137.71         1,417.7         4,986.5         2,162.9         2,109.4         53.55         40.387           7,000.0         7,220.4         7,534.5         7,481.0         30.3         29.2         138.18         1,390.1         -70.17         2,163.3         2,104.2         55.07         39.211           7,400.0         7,318.1         7,5834.5         7,481.3         31.79.9         30.7         29.7         138.41         1,376.4         -703.3         2,167.6         2,101.7         56.83         36.48           7,400.0         7,318.1         7,583.4         7,787.8         31.6         30.5         138.64         1,362.6         -704.9         2,156.4         2,100.1         56.33         36.23           7,500.0         7,417.8         7,733.7         7,776.9         31.6         30.5         138.81         1,348.8         -706.5         2,152.4         2,066.1         57.33         37.45           7,															
7,100         7,0231         7,3854         7,2838         29.4         28.4         137.71         1,417.7         -698.5         2,162.9         2,109.4         63.55         40.387           7,200         7,121.8         7,439.9         7,382.4         29.9         28.8         137.94         1,403.9         -70.17         2,169.3         2,104.2         5.607         39.211           7,400         7,220.4         7,534.5         7,819.0         30.3         22.2         138.18         1,390.1         -701.7         2,169.1         2,104.2         5.637         39.211           7,400         7,319.1         7,834.1         7,579.6         30.7         29.7         138.41         1,376.4         -703.3         2,157.6         2,101.7         58.83         38.648           7,500.0         7,417.8         7,733.7         7,678.2         31.2         30.1         138.64         1,386.6         -704.9         2,155.8         2,099.2         56.58         38.100           7,600.0         7,516.9         7,733.1         7,875.6         32.0         30.9         138.91         1,335.0         -708.2         2,147.2         2,089.1         58.07         36.977           7,000.0         7,815.6 <td></td>															
7,200 7,1218 7,434.9 7,382.4 28.9 28.8 137.94 1,403.9 -700.1 2,161.1 2,106.8 54.31 39.790 7,300.0 7,220.4 7,534.5 7,841.0 30.3 29.2 138.18 1,390.1 -701.7 2,159.3 2,104.2 55.07 39.211 7,400.0 7,319.1 7,634.1 7,576.6 30.7 29.7 138.41 1,376.4 -703.3 2,157.6 2,101.7 55.83 38.648 7,466.5 7,384.7 7,703.3 7,645.1 31.0 29.9 138.57 1,387.2 -704.4 2,156.4 2,100.1 56.33 38.283 7,500.0 7,417.8 7,733.7 7,676.2 31.2 30.1 138.64 1,362.6 -704.9 2,155.8 2,099.2 56.56 38.100 7,600.0 7,516.9 7,833.4 7,767.9 31.6 30.5 138.81 1,385.0 -706.5 2,152.4 2,099.1 56.58 38.100 7,700.0 7,616.2 7,933.1 7,876.6 32.0 30.9 138.91 1,335.0 -706.5 2,152.4 2,099.1 56.0 8.03.9 36.977 7,800.0 7,715.8 6,332.3 8,072.9 32.8 31.8 138.92 1,307.5 -711.4 2,130.8 2,710.3 2,911.3 56.0 36.9 36.9 6,700.0 7,815.6 8,132.3 8,072.9 32.8 31.8 138.92 1,307.5 -711.4 2,130.8 2,714.3 56.1 56.0 36.9 36.9 6,700.0 7,815.6 8,132.3 8,072.9 32.8 31.8 138.9 1,307.5 -711.4 2,130.8 2,713.3 56.1 56.0 3.0 36.9 6,700.0 7,815.6 8,132.3 8,072.9 32.8 31.8 138.9 1,307.5 -711.4 2,130.8 2,071.3 56.1 56.0 36.9 6,800.0 7,915.5 8,231.6 8,171.3 33.1 32.2 138.82 1,293.8 -713.0 2,119.6 2,099.4 60.22 35.197 8.066.5 8,002.0 8,300.0 8,300.0 3,331.3 32.5 0-04.8 1,284.3 -714.1 2,106.5 2,099.4 60.22 35.197 8.066.5 8,002.0 8,300.0 8,300.0 3,331.3 32.5 0-04.8 1,284.2 -714.3 2,106.7 2,045.8 60.86 34.613 8,150.0 8,015.5 8,315.8 8,254.7 33.4 32.5 -04.8 1,282.2 -714.3 2,106.7 2,045.8 60.86 43.613 8,100.0 8,015.4 8,379.4 8,3178. 33.6 32.5 -04.8 1,282.2 -714.3 2,106.7 2,045.8 60.86 43.613 8,100.0 8,015.4 8,379.4 8,3178. 33.6 32.5 -04.8 1,282.2 -714.3 2,106.7 2,045.8 60.86 60.8 34.613 8,254.7 33.4 32.5 -04.8 1,282.2 -714.3 2,106.7 2,045.8 60.8 60.8 44.613 8,350.0 8,263.3 8,470.0 8,338.2 33.7 39.9 49.257 1,272.1 -715.5 2,094.4 2,027.8 61.61 33.917 8,339.3 33.5 36.9 40.8 1,282.2 -714.3 2,106.7 2,045.8 60.8 60.8 43.613 33.9 33.5 36.9 40.9 1,282.2 -714.3 2,006.3 2,001.0 62.9 33.521 8,400.0 8,341.5 8,825.6 8,400.0 8,341.5 8,825.6 8,400.0 8,341.5 8,825.6 8,400.0 8,338.2 33.7 36.6 6.2 9.6 4.4 7,175.2 2,094.4 2,027.															
7,300.0         7,220.4         7,534.5         7,481.0         30.3         22.2         138.48         1,390.1         -701.7         2,193.3         2,104.2         56.07         39,211           7,400.0         7,319.1         7,634.1         7,579.6         30.7         29.7         138.41         1,376.4         -704.4         2,156.4         2,100.1         56.33         38.688           7,500.0         7,417.8         7,733.7         7,678.2         312         30.1         138.61         1,362.6         -704.9         2,155.8         2,090.2         56.58         38.100           7,600.0         7,516.9         7,833.1         7,776.0         31.6         30.5         138.81         1,348.8         -706.5         2,152.4         2,096.1         57.33         37.545           7,800.0         7,616.2         7,933.1         7,876.3         31.8         138.91         1,335.0         -708.2         2,147.2         2,086.1         57.33         37.545           7,800.0         7,816.8         8,132.3         8,072.9         32.8         31.8         138.92         1,307.5         -711.4         2,130.8         2,071.3         59.51         35.809           7,900.0         7,815.6 <t< td=""><td></td><td>7,023.1</td><td></td><td></td><td></td><td></td><td>137.71</td><td>1,417.7</td><td></td><td>2,162.9</td><td>2,109.4</td><td></td><td></td><td></td><td></td></t<>		7,023.1					137.71	1,417.7		2,162.9	2,109.4				
7,400.0         7,319.1         7,684.1         7,679.6         30.7         29.7         138.41         1,376.4         -703.3         2,157.6         2,101.7         56.83         38.448           7,486.5         7,384.7         7,703.7         7,678.2         31.2         30.1         138.64         1,387.2         -704.9         2,155.8         2,099.2         56.58         38.100           7,600.0         7,516.9         7,833.4         7,776.9         31.6         30.5         138.81         1,385.0         -706.2         2,152.4         2,095.1         57.33         37.545           7,700.0         7,616.2         7,933.1         7,875.6         32.0         30.9         138.81         1,385.0         -708.2         2,147.2         2,086.1         58.07         36.977           7,900.0         7,816.6         8,132.3         8,072.9         32.2         31.8         138.95         1,307.5         -711.4         2,130.8         2,071.3         59.51         35.80           7,900.0         7,815.6         8,231.8         8,171.3         33.1         32.2         138.82         1,207.5         -711.4         2,130.8         2,071.3         59.51         35.803           8,000.0         8	7,200.0	7,121.8	7,434.9	7,382.4	29.9	28.8	137.94	1,403.9	-700.1	2,161.1	2,106.8	54.31	39.790		
7.486.5         7.384.7         7.700.3         7.645.1         31.0         29.9         138.57         1.367.2         -704.4         2.156.4         2.100.1         56.33         38.283           7.500.0         7.471.8         7.733.7         7.678.2         31.2         30.1         138.64         1.362.6         -704.9         2.155.8         2.099.2         56.58         38.100           7.600.0         7.516.9         7.833.4         7.776.9         31.6         30.5         138.81         1,348.8         -706.2         2.152.4         2.095.1         57.33         37.545           7.600.0         7.516.8         8.032.7         7.974.3         32.4         31.3         138.95         1.321.3         -709.8         2.140.0         2.081.2         56.80         36.967           7.900.0         7.7815.6         8.232.3         8.072.9         32.8         31.8         138.92         1.307.5         7.714.0         2.109.4         2.085.1         58.03         36.967         36.96         36.96         36.96         36.96         36.96         36.96         36.96         36.96         36.96         36.96         36.96         36.96         36.96         36.96         36.96         36.96         36.96 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>138.18</td> <td></td> <td></td> <td>2,159.3</td> <td></td> <td></td> <td></td> <td></td> <td></td>							138.18			2,159.3					
7,500.0 7,417.8 7,733.7 7,678.2 31.2 30.1 138.64 1,362.6 -704.9 2,155.8 2,099.2 56.58 38.100  7,600.0 7,516.9 7,833.4 7,776.9 31.6 30.5 138.81 1,348.8 -706.5 2,152.4 2,095.1 57.33 37.545  7,700.0 7,616.2 7,933.1 7,875.6 32.0 30.9 138.91 1,335.0 -708.2 2,147.2 2,089.1 58.07 36.977  7,800.0 7,715.8 8,032.7 7,974.3 32.4 31.3 138.95 1,321.3 -709.8 2,140.0 2,081.2 58.80 36.366  7,900.0 7,815.6 8,132.3 8,072.9 32.8 31.8 138.92 1,307.5 -711.4 2,130.8 2,071.3 59.51 35.803  8,000.0 7,915.5 8,231.6 8,171.3 33.1 32.2 138.82 1,293.8 -713.0 2,119.8 2,059.4 60.22 35.197  8,086.5 8,002.0 8,300.0 8,230.0 33.3 32.5 -0.49 1,284.3 -714.1 2,108.5 2,047.7 60.77 34.698  8,100.0 8,015.5 8,315.8 8,254.7 33.4 32.5 -90.48 1,282.2 -714.3 2,106.7 2,045.8 60.86 34.613  8,150.0 8,065.4 8,347.8 8,286.4 33.5 32.7 -91.19 1,278.2 -714.8 2,100.4 2,099.3 61.14 34.355  8,250.0 8,163.3 8,400.0 8,338.2 33.7 32.9 -92.57 1,272.1 -715.5 2,089.4 2,027.8 61.61 33.917  8,300.0 8,210.6 8,441.0 8,379.0 33.8 33.0 -93.40 1,267.8 -716.0 2,084.9 2,023.0 61.87 33.698  8,350.0 8,256.3 8,470.4 8,483.1 33.9 33.4 -95.38 1,260.4 -716.0 2,084.9 2,023.0 61.87 33.698  8,450.0 8,381.6 8,525.4 8,483.1 33.9 33.4 -95.38 1,260.4 -716.9 2,076.5 2,014.0 62.48 33.23  8,450.0 8,381.6 8,525.4 8,483.1 33.9 33.4 -95.88 1,260.4 -716.9 2,076.5 2,014.0 62.48 33.23  8,450.0 8,384.6 8,525.4 8,483.1 33.9 33.5 -95.89 1,268.4 -717.1 2,075.8 2,013.1 62.67 33.12  8,550.0 8,384.3 8,552.9 8,490.5 33.9 33.5 -96.89 1,268.4 -717.1 2,075.8 2,013.1 62.67 33.12  8,550.0 8,416.6 8,573.8 8,511.3 33.9 33.5 -96.69 1,255.0 -717.7 2,092.2 2,028.5 63.65 32.881  8,550.0 8,416.6 8,573.8 8,511.3 33.9 33.5 -96.69 1,255.0 -717.7 2,092.2 2,028.5 63.65 32.881  8,750.0 8,584.8 8,657.3 8,651.6 33.8 33.8 -96.65 1,255.9 -717.8 2,099.9 2,036.0 63.88 32.287  8,850.0 8,568.8 8,665.7 8,603.2 33.8 33.8 -96.59 1,255.0 -717.7 2,092.2 2,028.5 63.65 32.881  8,750.0 8,568.8 8,665.7 8,603.2 33.8 33.8 -96.65 1,252.5 -717.8 2,099.9 2,036.0 63.88 32.872  8,850.0 8,568.4 8,671.9 8,609.3 33.7 33.9 -98.08 1,251.8 -717.9 2,131.9 2,055															
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7,700.0 7,616.2 7,933.1 7,875.6 32.0 30.9 138.91 1,335.0 -708.2 2,147.2 2,089.1 58.07 36.977 7,780.0 7,715.8 8,032.7 7,974.3 32.4 31.3 138.95 1,321.3 7.098.2 2,147.2 2,089.1 58.07 36.977 7,800.0 7,715.8 8,032.7 7,974.3 32.4 31.8 138.95 1,321.3 7.098.2 2,140.0 2,081.2 58.80 36.396 7,900.0 7,815.6 8,132.3 8,072.9 32.8 31.8 138.92 1,307.5 -711.4 2,130.8 2,071.3 59.51 35.803 8,000.0 7,915.5 8,231.6 8,171.3 33.1 32.2 138.82 1,293.8 -713.0 2,119.6 2,059.4 60.22 35.197 8,000.0 7,915.5 8,231.6 8,171.3 33.1 32.2 138.82 1,293.8 -713.0 2,119.6 2,059.4 60.22 35.197 8,000.0 8,015.5 8,315.8 8,254.7 33.4 32.5 -90.49 1,284.3 -714.1 2,108.5 2,047.7 60.77 34.698 8,100.0 8,1015.5 8,315.8 8,254.7 33.4 32.5 -90.49 1,284.2 -714.3 2,106.7 2,045.8 60.86 34.613 8,150.0 8,065.4 8,347.8 8,286.4 33.5 32.7 -91.19 1,278.2 -714.8 2,100.4 2,039.3 61.14 34.355 8,200.0 8,114.8 8,379.4 8,317.8 33.6 32.8 -91.92 1,274.4 -715.2 2,094.6 2,033.2 61.40 34.115 8,250.0 8,163.3 8,400.0 8,338.2 33.7 32.9 -92.57 1,272.1 -715.5 2,089.4 2,027.8 61.61 33.917 8,300.0 8,210.6 8,441.0 8,379.0 33.8 33.0 -93.40 1,267.8 -716.0 2,084.9 2,023.0 61.87 33.698 8,350.0 8,266.3 8,470.4 8,408.3 33.8 33.2 -94.80 1,267.4 -716.3 2,081.2 2,019.1 62.09 33.521 8,400.0 8,300.1 8,500.0 8,437.8 33.9 33.4 -95.39 1,260.4 -716.3 2,081.2 2,019.1 62.09 33.521 8,400.0 8,301.8 8,500.0 8,437.8 33.9 33.5 -96.29 1,257.0 -716.3 2,081.2 2,019.1 62.09 33.521 8,500.0 8,380.6 8,550.5 8,488.1 33.9 33.5 -96.29 1,257.0 -717.3 2,076.3 2,014.0 62.49 33.122 8,500.0 8,448.5 8,600.0 8,537.5 33.9 33.6 -96.69 1,256.4 -717.1 2,075.8 2,013.1 62.69 33.112 CC, ES 8,550.0 8,416.6 8,573.8 8,551.6 33.9 33.6 -96.69 1,256.4 -717.1 2,075.8 2,013.1 62.69 33.112 CC, ES 8,550.0 8,466.8 8,573.8 8,651.3 33.9 33.6 -96.69 1,256.4 -717.5 2,086.0 2,022.6 63.44 32.881 8,500.0 8,568.8 8,650.8 8,568.3 33.9 33.6 -96.69 1,255.6 -717.6 2,086.0 2,022.6 63.44 32.881 8,500.0 8,568.8 8,650.8 8,568.3 33.9 93.6 -96.69 1,255.6 -717.8 2,099.2 2,006.0 63.88 32.872 8,500.0 8,568.4 8,671.9 8,609.3 33.7 33.9 -94.23 1,251.9 -717.8 2,119.8 2,05	7,500.0	7,417.8	7,733.7	7,678.2	31.2	30.1	138.64	1,362.6	-704.9	2,155.8	2,099.2	56.58	38.100		
7,800.0         7,715.8         8,032.7         7,944.3         32.4         31.3         138.95         1,321.3         7,000.6         2,140.0         2,081.2         58.80         38.366           7,900.0         7,915.5         8,231.6         8,171.3         32.8         31.8         138.92         1,307.5         -711.4         2,103.8         2,071.3         59.51         35.803           8,000.0         7,915.5         8,231.6         8,171.3         33.1         32.2         138.82         1,307.5         -711.4         2,108.5         2,047.7         60.77         34.698           8,100.0         8,015.5         8,315.8         8,254.7         33.4         32.5         -0.49         1,284.3         -714.1         2,106.7         2,045.8         60.86         34.613           8,150.0         8,065.4         8,347.8         8,286.4         33.5         32.7         -91.19         1,278.2         -714.8         2,100.4         2,033.2         61.40         34.455           8,250.0         8,163.3         8,400.0         8,338.2         33.7         32.9         49.257         1,272.1         -716.5         2,084.0         2,033.2         61.40         34.115           8,350.0	7,600.0	7,516.9	7,833.4	7,776.9	31.6	30.5	138.81	1,348.8	-706.5	2,152.4	2,095.1	57.33	37.545		
7,900 0         7,815.6         8,132.3         8,072.9         32.8         31.8         138.92         1,307.5         -711.4         2,130.8         2,071.3         59.51         35.803           8,000.0         7,915.5         8,231.6         8,171.3         33.1         32.2         138.82         1,293.8         -713.0         2,119.6         2,059.4         60.22         35.197           8,006.5         8,002.0         8,300.0         8,239.9         33.3         32.5         -90.49         1,284.3         -711.4         2,106.7         2,045.8         60.86         34.613           8,150.0         8,065.4         8,347.8         8,286.4         33.5         32.7         -91.19         1,278.2         -714.8         2,100.4         2,039.3         61.14         34.355           8,250.0         8,141.8         8,379.4         8,317.8         33.6         32.8         -91.92         1,274.4         -715.5         2,094.6         2,033.2         61.40         34.115           8,250.0         8,141.6         8,341.6         8,341.6         8,341.6         8,341.6         8,341.6         8,341.6         8,441.0         8,379.0         33.8         33.2         -94.11         1,265.0         -716.0							138.91	1,335.0		2,147.2	2,089.1				
8,000,0       7,915.5       8,231.6       8,171.3       33.1       32.2       138.82       1,293.8       -713.0       2,119.6       2,059.4       60.22       35.197         8,086.5       8,002.0       8,300.0       8,239.0       33.3       32.5       -0.49       1,284.3       -714.1       2,108.5       2,047.7       60.77       34.698         8,100.0       8,015.5       8,315.8       8,254.7       33.4       32.5       -90.48       1,282.2       -714.8       2,100.4       2,039.3       61.14       34.355         8,200.0       8,114.8       8,379.4       8,317.8       33.6       32.8       -91.92       1,274.4       -715.2       2,094.6       2,039.2       61.40       34.115         8,250.0       8,163.3       8,400.0       8,338.2       33.7       32.9       -92.57       1,272.1       -715.5       2,089.4       2,027.8       61.61       33.917         8,350.0       8,266.3       8,441.0       8,379.0       33.8       33.0       -93.40       1,267.8       -716.0       2,084.9       2,023.0       61.87       33.698         8,350.0       8,266.3       8,470.4       8,408.3       33.8       33.2       -94.11       1,265.0       <															
8,086.5         8,002.0         8,300.0         8,239.0         33.3         32.5         -0.49         1,284.3         -714.1         2,108.5         2,047.7         60.77         34,698           8,100.0         8,015.5         8,315.8         8,254.7         33.4         32.5         -90.48         1,282.2         -714.8         2,100.4         2,039.3         61.14         34.355           8,150.0         8,065.4         8,347.8         8,286.4         33.5         32.7         -91.19         1,278.2         -714.8         2,100.4         2,039.3         61.14         34.355           8,200.0         8,141.8         8,379.4         8,317.8         33.6         32.8         -91.92         1,272.1         -715.5         2,089.4         2,027.8         61.61         33.917           8,350.0         8,210.6         8,441.0         8,379.0         33.8         33.0         -93.40         1,272.1         -716.5         2,089.4         2,023.0         61.87         33.698           8,350.0         8,266.3         8,470.4         8,408.3         33.8         33.2         -94.11         1,266.0         -716.0         2,084.9         2,023.0         61.87         33.63           8,450.0         8,															
8,100.0 8,015.5 8,315.8 8,254.7 33.4 32.5 -90.48 1,282.2 -714.3 2,106.7 2,045.8 60.86 34.613 8,150.0 8,066.4 8,347.8 8,286.4 33.5 32.7 -91.19 1,278.2 -714.8 2,100.4 2,039.3 61.14 34.355 8,200.0 8,114.8 8,379.4 8,317.8 33.6 32.8 -91.92 1,274.4 -715.2 2,094.6 2,033.2 61.40 34.115 8,250.0 8,163.3 8,400.0 8,338.2 33.7 32.9 -92.57 1,272.1 -715.5 2,089.4 2,027.8 61.61 33.917  8,300.0 8,210.6 8,441.0 8,379.0 33.8 33.0 -93.40 1,267.8 -716.0 2,084.9 2,023.0 61.87 33.698 8,350.0 8,256.3 8,470.4 8,408.3 33.8 33.2 -94.11 1,265.0 -716.3 2,081.2 2,019.1 62.09 33.521 8,400.0 8,300.1 8,500.0 8,437.8 33.9 33.3 -94.80 1,262.4 -716.6 2,078.3 2,016.0 62.29 33.363 8,450.0 8,341.6 8,525.4 8,463.1 33.9 33.4 -95.38 1,260.4 -716.9 2,076.5 2,014.0 62.48 33.23 8,500.0 8,384.6 8,550.5 8,488.1 33.9 33.5 -95.89 1,258.6 -717.1 2,075.8 2,013.1 62.67 33.122  8,505.0 8,384.3 8,552.9 8,490.5 33.9 33.5 -95.94 1,258.4 -717.1 2,075.8 2,013.1 62.69 33.112 CC, ES 8,550.0 8,449.5 8,600.0 8,537.5 33.9 33.6 -96.66 1,254.6 -717.1 2,075.8 2,013.1 62.69 33.112 CC, ES 8,500.0 8,449.5 8,600.0 8,537.5 33.9 33.6 -96.66 1,254.6 -717.4 2,078.1 2,015.1 63.07 32.951 8,600.0 8,449.5 8,600.0 8,537.5 33.9 33.6 -96.66 1,254.6 -717.5 2,083.3 2,018.1 63.24 32.913 8,750.0 8,564.8 8,630.8 8,568.3 33.9 33.8 -96.59 1,257.0 -717.6 2,006.0 2,022.6 63.44 32.881 8,750.0 8,564.8 8,650.8 8,665.7 8,603.2 33.8 33.8 -96.59 1,253.7 -717.6 2,009.9 2,036.0 63.88 32.872 8,850.0 8,568.8 8,665.7 8,603.2 33.8 33.9 -95.16 1,252.2 -717.8 2,109.1 2,045.0 64.12 32.893 8,850.0 8,568.8 8,665.7 8,603.2 33.8 33.9 -95.16 1,252.2 -717.8 2,109.1 2,045.0 64.12 32.893 8,950.0 8,568.8 8,665.7 8,603.2 33.8 33.9 -95.16 1,252.2 -717.8 2,109.1 2,055.4 64.37 32.931 8,950.0 8,568.8 8,665.7 8,603.2 33.8 33.9 -95.16 1,252.2 -717.8 2,109.1 2,055.4 64.37 32.931															
8,150.0         8,065.4         8,347.8         8,286.4         33.5         32.7         -91.19         1,278.2         -714.8         2,100.4         2,039.3         61.14         34.355           8,200.0         8,114.8         8,379.4         8,317.8         33.6         32.8         -91.92         1,274.4         -715.5         2,094.6         2,033.2         61.40         34.115           8,250.0         8,163.3         8,400.0         8,338.2         33.7         32.9         -92.57         1,272.1         -715.5         2,089.4         2,027.8         61.61         33.917           8,300.0         8,210.6         8,441.0         8,379.0         33.8         33.0         -93.40         1,267.8         -716.0         2,084.9         2,023.0         61.87         33.69         33.51         34.11         1,265.0         -716.3         2,081.2         2,019.1         62.09         33.521         8,350.0         8,365.3         8,470.4         8,408.3         33.9         33.3         -94.80         1,262.4         -716.6         2,076.3         2,016.0         62.29         33.363         8,450.0         8,458.8         8,562.4         8,463.1         33.9         33.5         -95.89         1,258.6         -717.1															
8,200.0       8,114.8       8,379.4       8,317.8       33.6       32.8       -91.92       1,274.4       -715.2       2,094.6       2,033.2       61.40       34.115         8,250.0       8,163.3       8,400.0       8,338.2       33.7       32.9       -92.57       1,272.1       -715.5       2,089.4       2,027.8       61.61       33.917         8,300.0       8,210.6       8,441.0       8,379.0       33.8       33.0       -93.40       1,267.8       -716.0       2,084.9       2,023.0       61.87       33.698         8,350.0       8,256.3       8,470.4       8,408.3       33.8       33.2       -94.11       1,265.0       -716.3       2,081.2       2,019.1       62.09       33.521         8,450.0       8,300.1       8,500.0       8,437.8       33.9       33.3       -94.80       1,262.4       -716.6       2,078.3       2,016.0       62.29       33.63         8,450.0       8,360.0       8,550.5       8,488.1       33.9       33.5       -95.89       1,258.6       -717.1       2,075.8       2,013.1       62.67       33.122         8,550.0       8,341.6       8,573.8       8,511.3       33.9       33.5       -95.94       1,258.4       <															
8,250.0       8,163.3       8,400.0       8,338.2       33.7       32.9       -92.57       1,272.1       -715.5       2,089.4       2,027.8       61.61       33.917         8,300.0       8,210.6       8,441.0       8,379.0       33.8       33.0       -93.40       1,267.8       -716.0       2,084.9       2,023.0       61.87       33.698         8,350.0       8,256.3       8,470.4       8,408.3       33.8       33.2       -94.11       1,265.0       -716.3       2,081.2       2,019.1       62.09       33.521         8,400.0       8,300.1       8,500.0       8,437.8       33.9       33.3       -94.80       1,262.4       -716.6       2,078.3       2,016.0       62.29       33.363         8,450.0       8,341.6       8,555.4       8,463.1       33.9       33.5       -95.89       1,258.6       -717.1       2,075.8       2,013.1       62.67       33.112 CC, ES         8,550.0       8,348.3       8,552.9       8,490.5       33.9       33.5       -96.94       1,258.4       -717.1       2,075.8       2,013.1       62.69       33.112 CC, ES         8,550.0       8,449.5       8,600.0       8,537.5       33.9       33.6       -96.29       1,257															
8,350.0 8,256.3 8,470.4 8,408.3 33.8 33.2 -94.11 1,265.0 -716.3 2,081.2 2,019.1 62.09 33.521 8,400.0 8,300.1 8,500.0 8,437.8 33.9 33.3 -94.80 1,262.4 -716.6 2,078.3 2,016.0 62.29 33.363 8,450.0 8,341.6 8,525.4 8,463.1 33.9 33.4 -95.38 1,260.4 -716.9 2,076.5 2,014.0 62.48 33.233 8,500.0 8,380.6 8,550.5 8,488.1 33.9 33.5 -95.89 1,258.6 -717.1 2,075.8 2,013.1 62.67 33.122  8,505.0 8,384.3 8,552.9 8,490.5 33.9 33.5 -95.94 1,258.4 -717.1 2,075.8 2,013.1 62.69 33.112 CC, ES 8,550.0 8,416.6 8,573.8 8,511.3 33.9 33.5 -96.29 1,257.0 -717.3 2,076.3 2,013.4 62.86 33.032 8,600.0 8,449.5 8,600.0 8,537.5 33.9 33.6 -96.66 1,255.4 -717.4 2,078.1 2,015.1 63.07 32.951 8,650.0 8,479.0 8,614.1 8,551.6 33.9 33.7 -96.66 1,254.6 -717.5 2,081.3 2,018.1 63.24 32.913 8,700.0 8,504.8 8,630.8 8,568.3 33.9 33.8 -96.59 1,253.7 -717.6 2,086.0 2,022.6 63.44 32.881  8,750.0 8,526.9 8,645.1 8,582.6 33.8 33.8 -96.59 1,253.7 -717.6 2,086.0 2,022.6 63.44 32.881  8,750.0 8,558.8 8,665.7 8,603.2 33.8 33.8 -96.58 1,252.2 -717.8 2,099.9 2,036.0 63.88 32.872 8,800.0 8,568.4 8,671.9 8,609.3 33.7 33.9 -94.23 1,251.9 -717.8 2,119.8 2,055.4 64.37 32.931 8,950.0 8,558.8 8,675.3 8,612.7 33.7 33.9 -94.23 1,251.8 -717.9 2,131.9 2,067.3 64.63 32.988															
8,350.0       8,256.3       8,470.4       8,408.3       33.8       33.2       -94.11       1,265.0       -716.3       2,081.2       2,019.1       62.09       33.521         8,400.0       8,300.1       8,500.0       8,437.8       33.9       33.3       -94.80       1,262.4       -716.6       2,078.3       2,016.0       62.29       33.363         8,450.0       8,341.6       8,525.4       8,463.1       33.9       33.4       -95.38       1,260.4       -716.9       2,076.5       2,014.0       62.48       33.233         8,500.0       8,380.6       8,550.5       8,488.1       33.9       33.5       -95.89       1,258.6       -717.1       2,075.8       2,013.1       62.67       33.122         8,505.0       8,384.3       8,552.9       8,490.5       33.9       33.5       -95.94       1,258.4       -717.1       2,075.8       2,013.1       62.69       33.112 CC, ES         8,550.0       8,416.6       8,573.8       8,511.3       33.9       33.5       -96.29       1,257.0       -717.3       2,076.3       2,013.1       62.69       33.112 CC, ES         8,650.0       8,416.6       8,573.8       8,511.3       33.9       33.6       -96.66       1,255	8,300.0	8,210.6	8,441.0	8,379.0	33.8	33.0	-93.40	1,267.8	-716.0	2,084.9	2,023.0	61.87	33.698		
8,400.0 8,300.1 8,500.0 8,437.8 33.9 33.3 -94.80 1,262.4 -716.6 2,078.3 2,016.0 62.29 33.363 8,450.0 8,341.6 8,525.4 8,463.1 33.9 33.4 -95.38 1,260.4 -716.9 2,076.5 2,014.0 62.48 33.233 8,500.0 8,380.6 8,550.5 8,488.1 33.9 33.5 -95.89 1,258.6 -717.1 2,075.8 2,013.1 62.67 33.122 8,505.0 8,384.3 8,552.9 8,490.5 33.9 33.5 -95.94 1,258.4 -717.1 2,075.8 2,013.1 62.69 33.112 CC, ES 8,550.0 8,416.6 8,573.8 8,511.3 33.9 33.5 -96.29 1,257.0 -717.3 2,076.3 2,013.4 62.86 33.032 8,600.0 8,449.5 8,600.0 8,537.5 33.9 33.6 -96.66 1,255.4 -717.4 2,078.1 2,015.1 63.07 32.951 8,650.0 8,479.0 8,614.1 8,551.6 33.9 33.7 -96.66 1,254.6 -717.5 2,081.3 2,018.1 63.24 32.913 8,700.0 8,504.8 8,630.8 8,568.3 33.9 33.8 -96.59 1,253.7 -717.6 2,086.0 2,022.6 63.44 32.881 8,750.0 8,544.9 8,656.8 8,594.2 33.8 33.8 -96.59 1,253.0 -717.7 2,092.2 2,028.5 63.65 32.868 8,800.0 8,544.9 8,656.8 8,594.2 33.8 33.8 -96.59 1,252.5 -717.8 2,099.9 2,036.0 63.88 32.872 8,800.0 8,568.4 8,671.9 8,609.3 33.7 33.9 -94.23 1,251.9 -717.8 2,119.8 2,055.4 64.37 32.931 8,900.0 8,568.4 8,671.9 8,609.3 33.7 33.9 -94.23 1,251.9 -717.8 2,119.8 2,055.4 64.37 32.931 8,950.0 8,573.8 8,675.3 8,675.3 8,612.7 33.7 33.9 -93.08 1,251.8 -717.9 2,131.9 2,067.3 64.63 32.988															
8,450.0       8,341.6       8,525.4       8,463.1       33.9       33.4       -95.38       1,260.4       -716.9       2,076.5       2,014.0       62.48       33.233         8,500.0       8,380.6       8,550.5       8,488.1       33.9       33.5       -95.89       1,258.6       -717.1       2,075.8       2,013.1       62.67       33.122         8,505.0       8,384.3       8,552.9       8,490.5       33.9       33.5       -95.94       1,258.4       -717.1       2,076.8       2,013.1       62.69       33.112 CC, ES         8,550.0       8,416.6       8,573.8       8,511.3       33.9       33.5       -96.29       1,257.0       -717.3       2,076.3       2,013.1       62.69       33.112 CC, ES         8,600.0       8,449.5       8,600.0       8,537.5       33.9       33.6       -96.66       1,255.4       -717.4       2,078.1       2,015.1       63.07       32.951         8,600.0       8,479.0       8,614.1       8,551.6       33.9       33.7       -96.66       1,254.6       -717.5       2,081.3       2,018.1       63.24       32.913         8,750.0       8,526.9       8,645.1       8,582.6       33.8       33.8       -96.59       1,253															
8,505.0 8,384.3 8,552.9 8,490.5 33.9 33.5 -95.94 1,258.4 -717.1 2,075.8 2,013.1 62.69 33.112 CC, ES 8,550.0 8,416.6 8,573.8 8,571.3 33.9 33.5 -96.29 1,257.0 -717.3 2,076.3 2,013.4 62.86 33.032 8,600.0 8,449.5 8,600.0 8,537.5 33.9 33.6 -96.66 1,255.4 -717.4 2,078.1 2,015.1 63.07 32.951 8,650.0 8,479.0 8,614.1 8,551.6 33.9 33.7 -96.66 1,254.6 -717.5 2,081.3 2,018.1 63.24 32.913 8,700.0 8,504.8 8,630.8 8,568.3 33.9 33.8 -96.59 1,253.7 -717.6 2,086.0 2,022.6 63.44 32.881 8,750.0 8,526.9 8,645.1 8,582.6 33.8 33.8 -96.59 1,253.7 -717.6 2,092.2 2,028.5 63.65 32.868 8,800.0 8,544.9 8,656.8 8,594.2 33.8 33.8 -95.85 1,252.5 -717.8 2,099.9 2,036.0 63.88 32.872 8,800.0 8,558.8 8,665.7 8,603.2 33.8 33.9 -95.16 1,252.2 -717.8 2,109.1 2,045.0 64.12 32.893 8,900.0 8,568.4 8,671.9 8,609.3 33.7 33.9 -94.23 1,251.9 -717.8 2,119.8 2,055.4 64.37 32.931 8,950.0 8,573.8 8,675.3 8,612.7 33.7 33.9 -94.23 1,251.8 -717.9 2,131.9 2,067.3 64.63 32.988															
8,550.0       8,416.6       8,573.8       8,511.3       33.9       33.5       -96.29       1,257.0       -717.3       2,076.3       2,013.4       62.86       33.032         8,600.0       8,449.5       8,600.0       8,537.5       33.9       33.6       -96.66       1,255.4       -717.4       2,078.1       2,015.1       63.07       32,951         8,650.0       8,479.0       8,614.1       8,551.6       33.9       33.7       -96.66       1,254.6       -717.5       2,081.3       2,018.1       63.24       32,913         8,700.0       8,504.8       8,630.8       8,568.3       33.9       33.8       -96.59       1,253.7       -717.6       2,086.0       2,022.6       63.44       32.881         8,750.0       8,526.9       8,645.1       8,582.6       33.8       33.8       -96.33       1,253.0       -717.7       2,092.2       2,028.5       63.65       32.868         8,800.0       8,544.9       8,656.8       8,594.2       33.8       33.8       -96.85       1,252.5       -717.8       2,099.9       2,036.0       63.88       32.872         8,850.0       8,558.8       8,665.7       8,603.2       33.8       33.9       -95.16       1,252.2	8,500.0	8,380.6	8,550.5	8,488.1	33.9	33.5	-95.89	1,258.6	-717.1	2,075.8	2,013.1	62.67	33.122		
8,600.0 8,449.5 8,600.0 8,537.5 33.9 33.6 -96.66 1,255.4 -717.4 2,078.1 2,015.1 63.07 32.951 8,650.0 8,479.0 8,614.1 8,551.6 33.9 33.7 -96.66 1,254.6 -717.5 2,081.3 2,018.1 63.24 32.913 8,700.0 8,504.8 8,630.8 8,568.3 33.9 33.8 -96.59 1,253.7 -717.6 2,086.0 2,022.6 63.44 32.881  8,750.0 8,526.9 8,645.1 8,582.6 33.8 33.8 -96.33 1,253.0 -717.7 2,092.2 2,028.5 63.65 32.868 8,800.0 8,544.9 8,656.8 8,594.2 33.8 33.8 -95.85 1,252.5 -717.8 2,099.9 2,036.0 63.88 32.872 8,850.0 8,558.8 8,665.7 8,603.2 33.8 33.9 -95.16 1,252.2 -717.8 2,109.1 2,045.0 64.12 32.893 8,900.0 8,568.4 8,671.9 8,609.3 33.7 33.9 -94.23 1,251.9 -717.8 2,119.8 2,055.4 64.37 32.931 8,950.0 8,573.8 8,675.3 8,612.7 33.7 33.9 -93.08 1,251.8 -717.9 2,131.9 2,067.3 64.63 32.988	8,505.0	8,384.3	8,552.9	8,490.5	33.9	33.5	-95.94	1,258.4	-717.1	2,075.8	2,013.1	62.69	33.112 (	CC, ES	
8,650.0 8,479.0 8,614.1 8,551.6 33.9 33.7 -96.66 1,254.6 -717.5 2,081.3 2,018.1 63.24 32.913 8,700.0 8,504.8 8,630.8 8,568.3 33.9 33.8 -96.59 1,253.7 -717.6 2,086.0 2,022.6 63.44 32.881 8,750.0 8,526.9 8,645.1 8,582.6 33.8 33.8 -96.33 1,253.0 -717.7 2,092.2 2,028.5 63.65 32.868 8,800.0 8,544.9 8,656.8 8,594.2 33.8 33.8 -95.85 1,252.5 -717.8 2,099.9 2,036.0 63.88 32.872 8,850.0 8,558.8 8,665.7 8,603.2 33.8 33.9 -95.16 1,252.2 -717.8 2,109.1 2,045.0 64.12 32.893 8,900.0 8,568.4 8,671.9 8,609.3 33.7 33.9 -94.23 1,251.9 -717.8 2,119.8 2,055.4 64.37 32.931 8,950.0 8,573.8 8,675.3 8,612.7 33.7 33.9 -93.08 1,251.8 -717.9 2,131.9 2,067.3 64.63 32.988	8,550.0	8,416.6	8,573.8	8,511.3	33.9	33.5	-96.29	1,257.0	-717.3	2,076.3	2,013.4	62.86	33.032		
8,700.0 8,504.8 8,630.8 8,568.3 33.9 33.8 -96.59 1,253.7 -717.6 2,086.0 2,022.6 63.44 32.881  8,750.0 8,526.9 8,645.1 8,582.6 33.8 33.8 -96.33 1,253.0 -717.7 2,092.2 2,028.5 63.65 32.868  8,800.0 8,544.9 8,656.8 8,594.2 33.8 33.8 -95.85 1,252.5 -717.8 2,099.9 2,036.0 63.88 32.872  8,850.0 8,558.8 8,665.7 8,603.2 33.8 33.9 -95.16 1,252.2 -717.8 2,109.1 2,045.0 64.12 32.893  8,900.0 8,568.4 8,671.9 8,609.3 33.7 33.9 -94.23 1,251.9 -717.8 2,119.8 2,055.4 64.37 32.931  8,950.0 8,573.8 8,675.3 8,612.7 33.7 33.9 -93.08 1,251.8 -717.9 2,131.9 2,067.3 64.63 32.988	8,600.0	8,449.5	8,600.0	8,537.5	33.9	33.6	-96.66	1,255.4	-717.4	2,078.1	2,015.1	63.07	32.951		
8,750.0 8,526.9 8,645.1 8,582.6 33.8 33.8 -96.33 1,253.0 -717.7 2,092.2 2,028.5 63.65 32.868 8,800.0 8,544.9 8,656.8 8,594.2 33.8 33.8 -95.85 1,252.5 -717.8 2,099.9 2,036.0 63.88 32.872 8,850.0 8,558.8 8,665.7 8,603.2 33.8 33.9 -95.16 1,252.2 -717.8 2,109.1 2,045.0 64.12 32.893 8,900.0 8,568.4 8,671.9 8,609.3 33.7 33.9 -94.23 1,251.9 -717.8 2,119.8 2,055.4 64.37 32,931 8,950.0 8,573.8 8,675.3 8,612.7 33.7 33.9 -93.08 1,251.8 -717.9 2,131.9 2,067.3 64.63 32.988	8,650.0	8,479.0		8,551.6		33.7			-717.5			63.24			
8,800.0       8,544.9       8,656.8       8,594.2       33.8       33.8       -95.85       1,252.5       -717.8       2,099.9       2,036.0       63.88       32.872         8,850.0       8,558.8       8,665.7       8,603.2       33.8       33.9       -95.16       1,252.2       -717.8       2,109.1       2,045.0       64.12       32.893         8,900.0       8,568.4       8,671.9       8,609.3       33.7       33.9       -94.23       1,251.9       -717.8       2,119.8       2,055.4       64.37       32.931         8,950.0       8,573.8       8,675.3       8,612.7       33.7       33.9       -93.08       1,251.8       -717.9       2,131.9       2,067.3       64.63       32.988	8,700.0	8,504.8	8,630.8	8,568.3	33.9	33.8	-96.59	1,253.7	-717.6	2,086.0	2,022.6	63.44	32.881		
8,800.0       8,544.9       8,656.8       8,594.2       33.8       33.8       -95.85       1,252.5       -717.8       2,099.9       2,036.0       63.88       32.872         8,850.0       8,558.8       8,665.7       8,603.2       33.8       33.9       -95.16       1,252.2       -717.8       2,109.1       2,045.0       64.12       32.893         8,900.0       8,568.4       8,671.9       8,609.3       33.7       33.9       -94.23       1,251.9       -717.8       2,119.8       2,055.4       64.37       32.931         8,950.0       8,573.8       8,675.3       8,612.7       33.7       33.9       -93.08       1,251.8       -717.9       2,131.9       2,067.3       64.63       32.988	8,750.0	8,526.9	8,645.1	8,582.6	33.8	33.8	-96.33	1,253.0	-717.7	2,092.2	2,028.5	63.65	32.868		
8,850.0       8,558.8       8,665.7       8,603.2       33.8       33.9       -95.16       1,252.2       -717.8       2,109.1       2,045.0       64.12       32.893         8,900.0       8,568.4       8,671.9       8,609.3       33.7       33.9       -94.23       1,251.9       -717.8       2,119.8       2,055.4       64.37       32.931         8,950.0       8,573.8       8,675.3       8,612.7       33.7       33.9       -93.08       1,251.8       -717.9       2,131.9       2,067.3       64.63       32.988															
8,950.0 8,573.8 8,675.3 8,612.7 33.7 33.9 -93.08 1,251.8 -717.9 2,131.9 2,067.3 64.63 32.988		8,558.8			33.8	33.9			-717.8			64.12	32.893		
	8,900.0	8,568.4	8,671.9	8,609.3	33.7	33.9	-94.23	1,251.9	-717.8	2,119.8	2,055.4	64.37	32.931		
8,986.5 8,575.0 8,675.9 8,613.4 33.7 33.9 -92.10 1,251.7 -717.9 2,141.6 2,076.7 64.82 33.040	8,950.0	8,573.8	8,675.3	8,612.7	33.7	33.9	-93.08	1,251.8	-717.9	2,131.9	2,067.3	64.63	32.988		
	8,986.5	8,575.0	8,675.9	8,613.4	33.7	33.9	-92.10	1,251.7	-717.9	2,141.6	2,076.7	64.82	33.040		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft
MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

Offset De	sign	Simon C	Camamile	Fed Com -	Simon C	amamile Fe	d Com #225H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 usft
Survey Prog				0	A! -				Di-4-				Offset Well Error:	0.0 usft
Refer Measured	rence Vertical	Offse Measured	et Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	e Centre	Dista Between	ance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
8,993.2	8,575.0	8,675.9	8,613.3	33.8	33.9	-92.10	1,251.7	-717.9	2,143.4	2,078.6	64.85	33.051		
9,000.0	8,575.0	8,675.9	8,613.3	33.8	33.9	-92.10	1,251.8	-717.9	2,145.3	2,080.4	64.89	33.062		
9,100.0	8,575.0	8,675.6	8,613.0	33.9	33.9	-92.09	1,251.8	-717.9	2,175.7	2,110.2	65.47	33.232		
9,200.0	8,575.0	8,675.3	8,612.7	34.4	33.9	-92.08	1,251.8	-717.9	2,210.1	2,144.0	66.13	33.420		
9,300.0	8,575.0	8,675.0	8,612.4	35.3	33.9	-92.07	1,251.8	-717.9	2,248.5	2,181.7	66.86	33.632		
9,400.0	8,575.0	8,674.7	8,612.1	36.3	33.9	-92.07	1,251.8	-717.9	2,290.6	2,223.0	67.62	33.873		
9,500.0	8,575.0	8,674.4	8,611.8	37.6	33.9	-92.06	1,251.8	-717.9	2,336.3	2,267.9	68.42	34.146		
9,600.0 9,700.0	8,575.0 8,575.0	8,674.1 11,042.6	8,611.5 9,949.0	38.9 40.4	33.9 46.7	-92.05 -125.48	1,251.8 1,176.3	-717.9 566.2	2,385.2 2,431.2	2,316.0 2,355.2	69.23 76.04	34.454 31.974		
9,800.0	8,575.0	11,142.6	9,950.6	41.9	48.2	-125.46	1,176.4	666.2	2,431.2	2,353.5	78.63	30.933		
9,900.0	8,575.0	11,242.6	9,952.1	43.6	49.8	-125.54	1,176.6	766.2	2,433.0	2,351.7	81.34	29.913		
10,000.0	8,575.0	11,342.6	9,953.6	45.3	51.5	-125.57	1,176.7	866.1	2,433.9	2,349.8	84.15	28.922		
10,100.0		11,442.6	9,955.2	47.0	53.3	-125.60	1,176.8	966.1	2,434.8	2,347.8	87.07	27.964		
10,200.0	8,575.0	11,542.6	9,956.7	48.9	55.1	-125.63	1,176.9	1,066.1	2,435.7	2,345.7	90.08	27.040		
10,300.0		11,642.6	9,958.3	50.8	56.9	-125.66	1,177.0	1,166.1	2,436.6	2,343.5	93.16	26.155		
10,400.0	8,575.0	11,742.6	9,959.8	52.7	58.8	-125.69	1,177.2	1,266.0	2,437.5	2,341.2	96.32	25.307		
10,500.0	8,575.0	11,842.6	9,961.3	54.7	60.8	-125.71	1,177.3	1,366.0	2,438.4	2,338.9	99.54	24.497		
10,600.0	8,575.0	11,942.5	9,962.9	56.7	62.8	-125.74	1,177.4	1,466.0	2,439.3	2,336.5	102.82	23.725		
10,700.0	8,575.0	12,042.5	9,964.4	58.7	64.8	-125.77	1,177.5	1,566.0	2,440.2	2,334.1	106.15	22.989		
10,800.0	8,575.0	12,142.5	9,966.0	60.8	66.8	-125.80	1,177.6	1,665.9	2,441.1	2,331.6	109.53	22.288		
10,900.0	8,575.0	12,242.5	9,967.5	62.9	68.9	-125.83	1,177.8	1,765.9	2,442.0	2,329.1	112.95	21.621		
11,000.0	8,575.0	12,342.5	9,969.0	65.0	71.0	-125.86	1,177.9	1,865.9	2,443.0	2,326.5	116.41	20.986		
11,100.0	8,575.0	12,442.5	9,970.6	67.1	73.1	-125.89	1,178.0	1,965.9	2,443.9	2,324.0	119.90	20.382		
11,200.0	8,575.0	12,542.5	9,972.1	69.3	75.2	-125.92	1,178.1	2,065.9	2,444.8	2,321.3	123.43	19.807		
11,300.0	8,575.0	12,642.5	9,973.6	71.5	77.4	-125.95	1,178.2	2,165.8	2,445.7	2,318.7	126.98	19.260		
11,400.0	8,575.0	12,742.4	9,975.2	73.7	79.5	-125.98	1,178.3	2,265.8	2,446.6	2,316.0	130.56	18.739		
11,500.0	8,575.0	12,842.4	9,976.7	75.9	81.7	-126.01	1,178.5	2,365.8	2,447.5	2,313.3	134.17	18.242		
11,600.0	8,575.0	12,942.4	9,978.3	78.2	83.9	-126.04	1,178.6	2,465.8	2,448.4	2,310.6	137.80	17.768		
11,700.0	8,575.0	13,042.4	9,979.8	80.4	86.1	-126.06	1,178.7	2,565.7	2,449.3	2,307.9	141.44	17.317		
11,800.0 11,900.0	8,575.0 8,575.0	13,142.4 13,242.4	9,981.3 9,982.9	82.7 84.9	88.4 90.6	-126.09 -126.12	1,178.8 1,178.9	2,665.7 2,765.7	2,450.2 2,451.1	2,305.1 2,302.3	145.11 148.79	16.886 16.474		
12,000.0	8,575.0	13,342.4	9,984.4	87.2	92.9	-126.15	1,179.1	2,865.7	2,452.0	2,299.5	152.49	16.080		
12,100.0	8,575.0	13,442.4	9,986.0	89.5	95.1	-126.18	1,179.2	2,965.6	2,452.9	2,296.7	156.20	15.704		
12,200.0	8,575.0	13,542.4	9,987.5	91.8	97.4	-126.21	1,179.3	3,065.6	2,453.9	2,293.9	159.92	15.344		
12,300.0 12,400.0	8,575.0 8,575.0	13,642.3 13,742.3	9,989.0 9,990.6	94.1 96.4	99.7 102.0	-126.24 -126.27	1,179.4 1,179.5	3,165.6 3,265.6	2,454.8 2,455.7	2,291.1 2,288.3	163.65 167.40	15.000 14.669		
12,500.0	8,575.0	13,842.3	9,992.1	98.7	104.3	-126.30	1,179.7	3,365.5	2,456.6	2,285.4	171.16	14.353		
12,600.0	8,575.0	13,942.3	9,993.7	101.0	106.6	-126.33	1,179.8	3,465.5	2,457.5	2,282.6	174.92	14.049		
12,700.0	8,575.0	14,042.3	9,995.2	103.4	108.9	-126.35	1,179.9	3,565.5	2,458.4	2,279.7	178.70	13.758		
12,800.0		14,142.3	9,996.7	105.7	111.2	-126.38	1,180.0	3,665.5	2,459.3	2,276.9	182.48	13.478		
12,900.0	8,575.0	14,242.3	9,998.3	108.0	113.5	-126.41	1,180.1	3,765.5	2,460.3	2,274.0	186.26	13.208		
13,000.0	8,575.0	14,342.3	9,999.8	110.4	115.8	-126.44	1,180.2	3,865.4	2,461.2	2,271.1	190.06	12.950		
13,100.0	8,575.0	14,442.2	10,001.3	112.7	118.2	-126.47	1,180.4	3,965.4	2,462.1	2,268.2	193.86	12.700		
13,200.0	8,575.0	14,542.2	10,002.9	115.1	120.5	-126.50	1,180.5	4,065.4	2,463.0	2,265.3	197.66	12.461		
13,300.0	8,575.0	14,642.2	10,004.4	117.5	122.8	-126.53	1,180.6	4,165.4	2,463.9	2,262.4	201.47	12.229		
13,400.0	8,575.0	14,742.2	10,006.0	119.8	125.2	-126.56	1,180.7	4,265.3	2,464.8	2,259.6	205.29	12.007		
13,500.0	8,575.0	14,842.2	10,007.5	122.2	127.5	-126.58	1,180.8	4,365.3	2,465.8	2,256.7	209.11	11.792		
13,600.0		14,942.2	10,009.0	124.6	129.9	-126.61	1,181.0	4,465.3	2,466.7	2,253.8	212.93	11.584		
13,700.0		15,042.2	10,010.6	126.9	132.2	-126.64	1,181.1	4,565.3	2,467.6	2,250.8	216.76	11.384		
13,800.0 13,900.0	8,575.0 8,575.0	15,142.2 15,242.1	10,012.1 10,013.7	129.3 131.7	134.6 137.0	-126.67 -126.70	1,181.2 1,181.3	4,665.2 4,765.2	2,468.5 2,469.4	2,247.9 2,245.0	220.59 224.42	11.191 11.004		
14,000.0	8,575.0	15,342.1	10,015.2	134.1	139.3	-126.73	1,181.4	4,865.2	2,470.4	2,242.1	228.25	10.823		

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft

KB @ 3377.5usft

# Anticollision Report

Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com Reference Site:

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft Wellbore #1 Reference Wellbore Reference Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma EDM 5000.14 Single User Db Database:

Offset De	sign	Simon C	amamile	Fed Com -	Simon C	amamile Fe	d Com #225H	- Wellbore	#1 - BLM I	Plan #1			Offset Site Error:	0.0 usft
Survey Progr													Offset Well Error:	0.0 usft
Refero Measured	ence Vertical	Offse Measured	t Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	o Contro	Dista Between	ance Between	Minimum	Separation		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
14,100.0	8,575.0	15,442.1	10,016.7	136.4	141.7	-126.76	1,181.6	4,965.2	2,471.3	2,239.2	232.09	10.648		
14,200.0	8,575.0	15,542.1	10,018.3	138.8	144.1	-126.78	1,181.7	5,065.1	2,472.2	2,236.3	235.93	10.479		
14,300.0	8,575.0	15,642.1	10,019.8	141.2	146.5	-126.81	1,181.8	5,165.1	2,473.1	2,233.4	239.77	10.315		
14,400.0	8,575.0	15,742.1	10,021.3	143.6	148.8	-126.84	1,181.9	5,265.1	2,474.1	2,230.5	243.61	10.156		
14,500.0	8,575.0	15,842.1	10,022.9	146.0	151.2	-126.87	1,182.0	5,365.1	2,475.0	2,227.5	247.46	10.002		
14,600.0	8,575.0	15,942.1	10,024.4	148.4	153.6	-126.90	1,182.1	5,465.0	2,475.9	2,224.6	251.30	9.852		
14,700.0	8,575.0	16,042.1	10,026.0	150.8	156.0	-126.93	1,182.3	5,565.0	2,476.8	2,221.7	255.15	9.708		
14,800.0	8,575.0	16,142.0	10,027.5	153.2	158.4	-126.95	1,182.4	5,665.0	2,477.8	2,218.8	258.99	9.567		
14,900.0 15,000.0	8,575.0 8,575.0	16,242.0 16,342.0	10,029.0 10,030.6	155.6 158.0	160.8 163.2	-126.98 -127.01	1,182.5 1,182.6	5,765.0 5,865.0	2,478.7 2,479.6	2,215.9 2,212.9	262.84 266.69	9.430 9.298		
15,100.0	8,575.0	16,442.0	10,030.0	160.4	165.6	-127.01	1,182.7	5,964.9	2,480.6	2,210.0	270.54	9.169		
15,200.0	8,575.0	16,542.0	10,033.7	162.8	168.0	-127.07	1,182.9	6,064.9	2,481.5	2,207.1	274.39	9.044		
15,300.0	8,575.0	16,642.0	10,035.7	165.2	170.3	-127.10	1,183.0	6,164.9	2,482.4	2,204.2	278.24	8.922		
15,400.0	8,575.0	16,742.0	10,036.7	167.6	172.7	-127.12	1,183.1	6,264.9	2,483.4	2,201.3	282.09	8.804		
15,500.0	8,575.0	16,842.0	10,038.3	170.0	175.1	-127.15	1,183.2	6,364.8	2,484.3	2,198.4	285.94	8.688		
15,600.0	8,575.0	16,941.9	10,039.8	172.5	177.6	-127.18	1,183.3	6,464.8	2,485.2	2,195.4	289.79	8.576		
15,700.0	8,575.0	17,041.9	10,041.4	174.9	180.0	-127.21	1,183.5	6,564.8	2,486.2	2,192.5	293.63	8.467		
15,800.0	8,575.0	17,141.9	10,042.9	177.3	182.4	-127.24	1,183.6	6,664.8	2,487.1	2,189.6	297.48	8.360		
15,900.0	8,575.0	17,241.9	10,044.4	179.7	184.8	-127.27	1,183.7	6,764.7	2,488.0	2,186.7	301.33	8.257		
16,000.0	8,575.0	17,341.9	10,046.0	182.1	187.2	-127.29	1,183.8	6,864.7	2,489.0	2,183.8	305.18	8.156		
16,100.0	8,575.0	17,441.9	10,047.5	184.5	189.6	-127.32	1,183.9	6,964.7	2,489.9	2,180.9	309.03	8.057		
16,200.0	8,575.0	17,541.9	10,049.0	187.0	192.0	-127.35	1,184.1	7,064.7	2,490.8	2,178.0	312.87	7.961		
16,300.0	8,575.0	17,641.9	10,050.6	189.4	194.4	-127.38	1,184.2	7,164.6	2,491.8	2,175.0	316.72	7.867		
16,400.0	8,575.0	17,741.9	10,052.1	191.8	196.8	-127.41	1,184.3	7,264.6	2,492.7	2,172.1	320.56	7.776		
16,500.0	8,575.0	17,841.8	10,053.7	194.2	199.2	-127.43	1,184.4	7,364.6	2,493.6	2,169.2	324.41	7.687		
16,600.0	8,575.0	17,941.8	10,055.2	196.6	201.6	-127.46	1,184.5	7,464.6	2,494.6	2,166.3	328.25	7.600		
16,700.0	8,575.0	18,041.8	10,056.7	199.1	204.1	-127.49	1,184.6	7,564.5	2,495.5	2,163.4	332.09	7.515		
16,800.0	8,575.0	18,141.8	10,058.3	201.5	206.5	-127.52	1,184.8	7,664.5	2,496.5	2,160.5	335.94	7.431		
16,900.0	8,575.0	18,241.8	10,059.8	203.9	208.9	-127.55	1,184.9	7,764.5	2,497.4	2,157.6	339.78	7.350		
17,000.0 17,100.0	8,575.0 8,575.0	18,341.8 18,441.8	10,061.4 10,062.9	206.3 208.8	211.3 213.7	-127.57 -127.60	1,185.0 1,185.1	7,864.5 7,964.5	2,498.3 2,499.3	2,154.7 2,151.8	343.61 347.45	7.271 7.193		
17,200.0	8,575.0	18,541.8	10,064.4	211.2	216.1	-127.63	4 405 0	8,064.4	2,500.2	2,148.9	351.29	7.117		
17,200.0	8,575.0	18,641.7	10,066.0	211.2	218.6	-127.66	1,185.2 1,185.4	8,164.4	2,500.2	2,146.9	355.13	7.117		
17,400.0	8,575.0	18,741.7	10,067.5	216.0	221.0	-127.68	1,185.5	8,264.4	2,501.2	2,143.2	358.96	6.970		
17,500.0	8,575.0	18,841.7	10,069.0	218.5	223.4	-127.71	1,185.6	8,364.4	2,503.1	2,140.3	362.79	6.899		
17,600.0	8,575.0	18,941.7	10,070.6	220.9	225.8	-127.74	1,185.7	8,464.3	2,504.0	2,137.4	366.62	6.830		
17,700.0	8,575.0	19,041.7	10,072.1	223.3	228.3	-127.77	1,185.8	8,564.3	2,504.9	2,134.5	370.45	6.762		
17,800.0	8,575.0	19,141.7	10,073.7	225.8	230.7	-127.80	1,186.0	8,664.3	2,505.9	2,131.6	374.28	6.695		
17,900.0	8,575.0	19,241.7	10,075.2	228.2	233.1	-127.82	1,186.1	8,764.3	2,506.8	2,128.7	378.11	6.630		
18,000.0	8,575.0	19,341.7	10,076.7	230.6	235.5	-127.85	1,186.2	8,864.2	2,507.8	2,125.8	381.94	6.566		
18,100.0	8,575.0	19,441.7	10,078.3	233.0	238.0	-127.88	1,186.3	8,964.2	2,508.7	2,123.0	385.76	6.503		
18,200.0	8,575.0	19,541.6	10,079.8	235.5	240.4	-127.91	1,186.4	9,064.2	2,509.7	2,120.1	389.58	6.442		
18,300.0	8,575.0	19,641.6	10,081.4	237.9	242.8	-127.93	1,186.5	9,164.2	2,510.6	2,117.2	393.40	6.382		
18,400.0	8,575.0	19,741.6	10,082.9	240.3	245.2	-127.96	1,186.7	9,264.1	2,511.6	2,114.4	397.22	6.323		
18,500.0	8,575.0	19,841.6	10,084.4	242.8	247.7	-127.99	1,186.8	9,364.1	2,512.5	2,111.5	401.04	6.265		
18,600.0	8,575.0	19,941.6	10,086.0	245.2	250.1	-128.02	1,186.9	9,464.1	2,513.5	2,108.6	404.86	6.208		
18,700.0	8,575.0	20,041.6	10,087.5	247.6	252.5	-128.04	1,187.0	9,564.1	2,514.4	2,105.8	408.67	6.153		
18,800.0	8,575.0	20,141.6	10,089.1	250.1	255.0	-128.07	1,187.1	9,664.0	2,515.4	2,102.9	412.49	6.098		
18,900.0	8,575.0	20,241.6	10,090.6	252.5	257.4	-128.10	1,187.3	9,764.0	2,516.3	2,100.0	416.30	6.045		
19,000.0	8,575.0	20,341.5	10,092.1	255.0	259.8	-128.13	1,187.4	9,864.0	2,517.3	2,097.2	420.11	5.992		
19,100.0	8,575.0	20,441.5	10,093.7	257.4	262.2	-128.15	1,187.5	9,964.0	2,518.2	2,094.3	423.91	5.940		
19,200.0	8,575.0	20,541.5	10,095.2	259.8	264.7	-128.18	1,187.6	10,064.0	2,519.2	2,091.5	427.72	5.890		

Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: KB @ 3377.5usft MD Reference: KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

**Database:** EDM 5000.14 Single User Db

Offset De	•		Camamile	Fed Com -	Simon C	amamile Fe	d Com #225H	- Wellbore	#1 - BLM F	Plan #1			Offset Site Error:	0.0 ust
Survey Progr Refer	ence	Offse		Semi Major					Dista	ınce			Offset Well Error:	0.0 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,300.0	8,575.0	20,641.5	10,096.7	262.3	267.1	-128.21	1,187.7	10,163.9	2,520.1	2,088.6	431.52	5.840		
19,400.0	8,575.0	20,741.5	10,098.3	264.7	269.5	-128.24	1,187.9	10,263.9	2,521.1	2,085.8	435.33	5.791		
19,500.0	8,575.0	20,841.5	10,099.8	267.1	272.0	-128.26	1,188.0	10,363.9	2,522.1	2,082.9	439.13	5.743		
19,600.0	8,575.0	20,941.5	10,101.4	269.6	274.4	-128.29	1,188.1	10,463.9	2,523.0	2,080.1	442.92	5.696		
19,700.0	8,575.0	21,041.5	10,102.9	272.0	276.8	-128.32	1,188.2	10,563.8	2,524.0	2,077.3	446.72	5.650		
19,800.0	8,575.0	21,141.5	10,104.4	274.5	279.3	-128.35	1,188.3	10,663.8	2,524.9	2,074.4	450.52	5.605		
19,900.0	8,575.0	21,241.4	10,106.0	276.9	281.7	-128.37	1,188.4	10,763.8	2,525.9	2,071.6	454.31	5.560		
20,000.0	8,575.0	21,341.4	10,107.5	279.3	284.1	-128.40	1,188.6	10,863.8	2,526.8	2,068.7	458.10	5.516		
20,100.0	8,575.0	21,441.4	10,109.1	281.8	286.6	-128.43	1,188.7	10,963.7	2,527.8	2,065.9	461.89	5.473		
20,200.0	8,575.0	21,541.4	10,110.6	284.2	289.0	-128.46	1,188.8	11,063.7	2,528.8	2,063.1	465.67	5.430		
20,300.0	8,575.0	21,641.4	10,112.1	286.6	291.5	-128.48	1,188.9	11,163.7	2,529.7	2,060.3	469.46	5.389		
20,400.0	8,575.0	21,741.4	10,113.7	289.1	293.9	-128.51	1,189.0	11,263.7	2,530.7	2,057.4	473.24	5.348		
20,500.0	8,575.0	21,841.4	10,115.2	291.5	296.3	-128.54	1,189.2	11,363.6	2,531.6	2,054.6	477.02	5.307		
20,600.0	8,575.0	21,941.4	10,116.7	294.0	298.8	-128.56	1,189.3	11,463.6	2,532.6	2,051.8	480.80	5.267		
20,700.0	8,575.0	22,041.3	10,118.3	296.4	301.2	-128.59	1,189.4	11,563.6	2,533.6	2,049.0	484.58	5.228		
20,800.0	8,575.0	22,141.3	10,119.8	298.9	303.6	-128.62	1,189.5	11,663.6	2,534.5	2,046.2	488.35	5.190		
20,900.0	8,575.0	22,241.3	10,121.4	301.3	306.1	-128.65	1,189.6	11,763.6	2,535.5	2,043.4	492.13	5.152		
21,000.0	8,575.0	22,341.3	10,122.9	303.7	308.5	-128.67	1,189.8	11,863.5	2,536.5	2,040.6	495.90	5.115		
21,100.0	8,575.0	22,441.3	10,124.4	306.2	311.0	-128.70	1,189.9	11,963.5	2,537.4	2,037.8	499.67	5.078		
21,200.0	8,575.0	22,541.3	10,126.0	308.6	313.4	-128.73	1,190.0	12,063.5	2,538.4	2,035.0	503.43	5.042		
21,213.6	8,575.0	22,554.9	10,126.2	309.0	313.7	-128.73	1,190.0	12,077.0	2,538.5	2,034.6	503.94	5.037 SF	:	

Company: Matador Production Company

Project: Ranger/Arrowhead Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well:

Well Error: 0.0 usft Reference Wellbore Wellbore #1 Reference Design:

Simon Camamile Fed Com #126H

BLM Plan #1

Local Co-ordinate Reference: Well Simon Camamile Fed Com #126H

**TVD Reference:** KB @ 3377.5usft KB @ 3377.5usft

MD Reference: North Reference: Grid

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Single User Db Database:

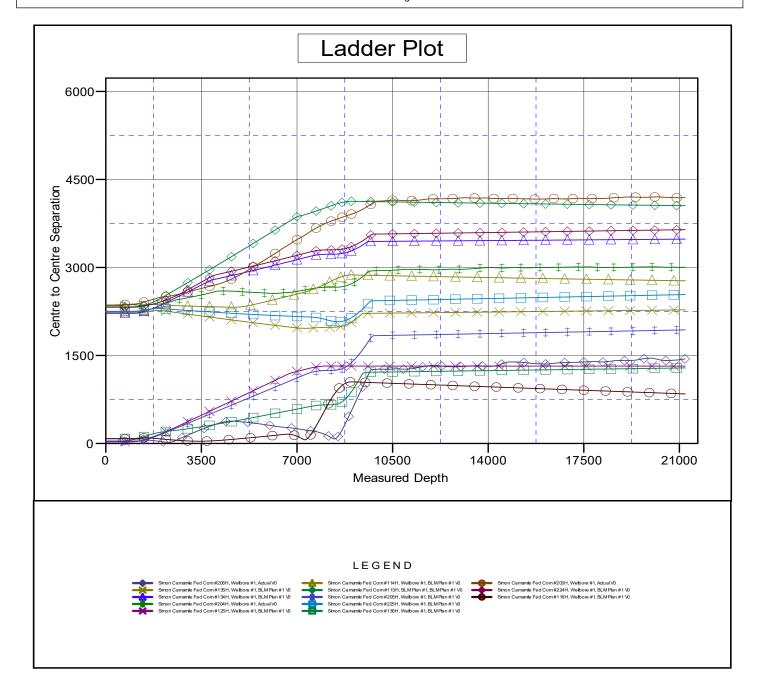
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 3377.5usft Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Simon Camamile Fed Com #126H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.15°



Company: Matador Production Company

Project: Ranger/Arrowhead
Reference Site: Simon Camamile Fed Com

Site Error: 0.0 usft

Reference Well: Simon Camamile Fed Com #126H

Well Error: 0.0 usft
Reference Wellbore Wellbore #1
Reference Design: BLM Plan #1

Local Co-ordinate Reference: Well Simon Camamile Fed Com #126H

TVD Reference: KB @ 3377.5usft
MD Reference: KB @ 3377.5usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Database: EDM 5000.14 Single User Db

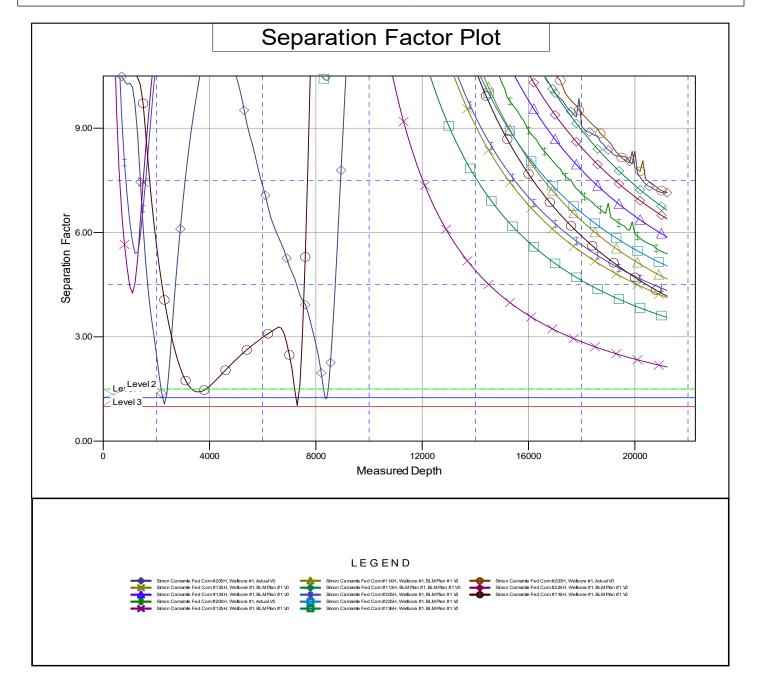
Offset TVD Reference: Offset Datum

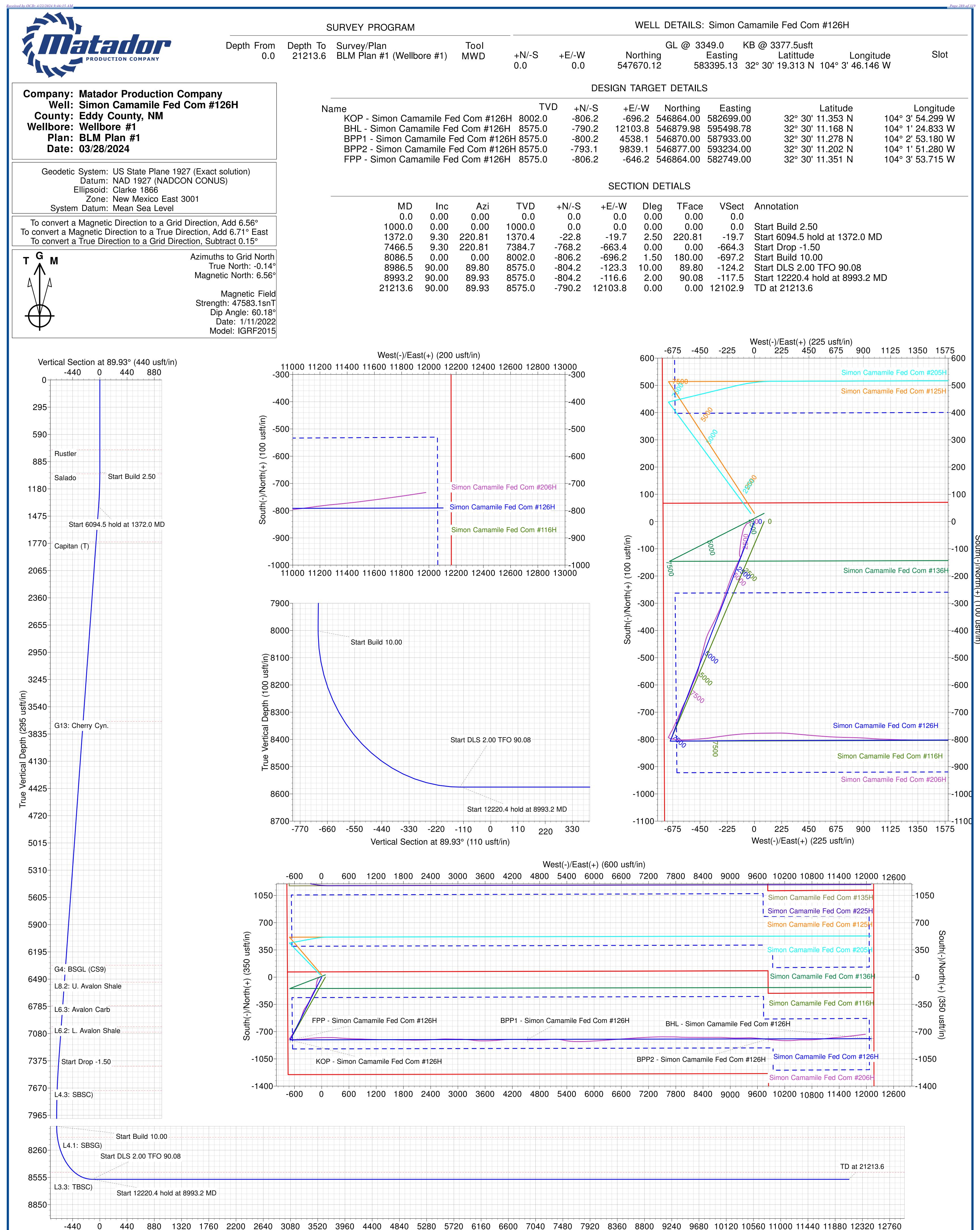
Reference Depths are relative to KB @ 3377.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Simon Camamile Fed Com #126H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.15°





Vertical Section at 89.93° (440 usft/in)

# **Matador Production Company**

Ranger/Arrowhead Simon Camamile Fed Com Simon Camamile Fed Com #126H

Wellbore #1

Plan: BLM Plan #1

# **Standard Planning Report**

28 March, 2024

EDM 5000.14 Single User Db Database: Company: Matador Production Company

Project: Ranger/Arrowhead Site: Simon Camamile Fed Com Well: Simon Camamile Fed Com #126H

Wellbore: Wellbore #1 BLM Plan #1 Design:

**Local Co-ordinate Reference:** 

TVD Reference: MD Reference: North Reference: **Survey Calculation Method:** 

KB @ 3377.5usft

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft Grid

Minimum Curvature

Project Ranger/Arrowhead

US State Plane 1927 (Exact solution) Map System: NAD 1927 (NADCON CONUS) Geo Datum:

New Mexico East 3001 Map Zone:

System Datum: Mean Sea Level

Using geodetic scale factor

Simon Camamile Fed Com Site

Northing: 547,700.30 usft Site Position: Latitude: 32° 30' 19.609 N From: Lat/Long Easting: 583,475.03 usft Longitude: 104° 3' 45.212 W **Position Uncertainty:** 0.0 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.15

Well Simon Camamile Fed Com #126H

**Well Position** +N/-S -30.2 usft Northing: 547,670.12 usft Latitude: 32° 30' 19.313 N +E/-W -79.9 usft Easting: 583,395.13 usft Longitude: 104° 3' 46.146 W

**Position Uncertainty** 0.0 usft Wellhead Elevation: **Ground Level:** 3,349.0 usft

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (°) (°) (nT) IGRF2015 1/11/2022 6.71 60.18 47,583.07799402

BLM Plan #1 Design Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 89.93

**Plan Survey Tool Program** Date 3/28/2024

**Depth From** Depth To

(usft) (usft) Survey (Wellbore) **Tool Name** Remarks

0.0 21,213.6 BLM Plan #1 (Wellbore #1) MWD

OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,372.0	9.30	220.81	1,370.4	-22.8	-19.7	2.50	2.50	0.00	220.81	
7,466.5	9.30	220.81	7,384.7	-768.2	-663.4	0.00	0.00	0.00	0.00	
8,086.5	0.00	0.00	8,002.0	-806.2	-696.2	1.50	-1.50	0.00	180.00	KOP - Simon Camam
8,986.5	90.00	89.80	8,575.0	-804.2	-123.3	10.00	10.00	0.00	89.80	
8,993.2	90.00	89.93	8,575.0	-804.2	-116.6	2.00	0.00	2.00	90.08	
21,213.6	90.00	89.93	8,575.0	-790.2	12,103.8	0.00	0.00	0.00	0.00	BHL - Simon Camami

EDM 5000.14 Single User Db Database: Company: Matador Production Company

Project: Ranger/Arrowhead Simon Camamile Fed Com Site: Well: Simon Camamile Fed Com #126H

Wellbore: Wellbore #1 Design: BLM Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Grid **Survey Calculation Method:** 

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft KB @ 3377.5usft

Minimum Curvature

ınned Suı	rvey									
D	asured lepth usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
	200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
	300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
	400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
		0.00		400.0		0.0		0.00		0.00
	500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
	600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
	700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
	756.1	0.00	0.00	756.1	0.0	0.0	0.0	0.00	0.00	0.00
Ru	ıstler									
110	800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
							0.0			
	900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Sta	art Build 2.	.50								
	1,016.7	0.42	220.81	1,016.7	0.0	0.0	0.0	2.50	2.50	0.00
Sa	lado			,		2.3		,		
Ja	1,100.0	2.50	220.81	1,100.0	-1.7	-1.4	-1.4	2.50	2.50	0.00
				,						
	1,200.0	5.00	220.81	1,199.7	-6.6	-5.7	-5.7	2.50	2.50	0.00
	1,300.0	7.50	220.81	1,299.1	-14.8	-12.8	-12.8	2.50	2.50	0.00
	1,372.0	9.30	220.81	1,370.4	-22.8	-19.7	-19.7	2.50	2.50	0.00
C+		hold at 1372.0 M		.,0.0				2.00	2.00	0.00
310	1,400.0	9.30	220.81	1,398.0	-26.2	-22.6	-22.7	0.00	0.00	0.00
	1,500.0	9.30	220.81	1,496.7	-38.5	-33.2	-33.3	0.00	0.00	0.00
	1,600.0	9.30	220.81	1,595.4	-50.7	-43.8	-43.8	0.00	0.00	0.00
	1,700.0	9.30	220.81	1,694.1	-62.9	-54.3	-54.4	0.00	0.00	0.00
	1,762.0	9.30	220.81	1,755.2	-70.5	-60.9	-61.0	0.00	0.00	0.00
0-		3.00	220.01	1,700.2	-70.0	-00.5	-01.0	0.00	0.00	0.00
Ca	pitan (T)	0.00	000.04	4 700 7	75.4	04.0	CF 0	0.00	0.00	0.00
	1,800.0	9.30	220.81	1,792.7	-75.1	-64.9	-65.0	0.00	0.00	0.00
	1,900.0	9.30	220.81	1,891.4	-87.4	-75.5	-75.6	0.00	0.00	0.00
	2,000.0	9.30	220.81	1,990.1	-99.6	-86.0	-86.1	0.00	0.00	0.00
	2,100.0	9.30	220.81	2,088.8	-111.8	-96.6	-96.7	0.00	0.00	0.00
	2,200.0	9.30	220.81	2,187.5	-124.1	-107.1	-107.3	0.00	0.00	0.00
	2,300.0	9.30	220.81	2,286.2	-136.3	-117.7	-117.9	0.00	0.00	0.00
	2,400.0	9.30	220.81	2,384.9	-148.5	-117.7	-117.9	0.00	0.00	0.00
	2,500.0	9.30	220.81	2,483.5	-160.8	-138.8	-139.0	0.00	0.00	0.00
	2,600.0	9.30	220.81	2,582.2	-173.0	-149.4	-149.6	0.00	0.00	0.00
	2,700.0	9.30	220.81	2,680.9	-185.2	-160.0	-160.2	0.00	0.00	0.00
	2,800.0	9.30	220.81	2,779.6	-197.5	-170.5	-170.8	0.00	0.00	0.00
	2,900.0	9.30	220.81	2,878.3	-209.7	-181.1	-181.3	0.00	0.00	0.00
	3,000.0	9.30	220.81	2,977.0	-221.9	-191.6	-191.9	0.00	0.00	0.00
	3,100.0	9.30	220.81	3,075.7	-234.2	-202.2	-202.5	0.00	0.00	0.00
	3,200.0	9.30	220.81	3,174.3	-246.4	-212.8	-213.1	0.00	0.00	0.00
	3,300.0	9.30	220.81	3,273.0	-258.6	-223.3	-223.6	0.00	0.00	0.00
	3,400.0	9.30	220.81	3,371.7	-270.8	-233.9	-234.2	0.00	0.00	0.00
	3,500.0	9.30	220.81	3,470.4	-283.1	-244.5	-244.8	0.00	0.00	0.00
	3,600.0	9.30	220.81	3,569.1	-295.3	-255.0	-255.4	0.00	0.00	0.00
	3,700.0	9.30	220.81	3,667.8	-307.5	-265.6	-266.0	0.00	0.00	0.00
	3,732.8	9.30	220.81	3,700.1	-311.5	-269.0	-269.4	0.00	0.00	0.00
G1	3: Cherry	Cyn.								
	3,800.0	9.30	220.81	3,766.5	-319.8	-276.1	-276.5	0.00	0.00	0.00
	3,900.0	9.30	220.81	3,865.1	-332.0	-286.7	-287.1	0.00	0.00	0.00
	4,000.0	9.30	220.81	3,963.8	-344.2	-297.3	-297.7	0.00	0.00	0.00
	4,100.0	9.30	220.81	4,062.5	-356.5	-307.8	-308.3	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Simon Camamile Fed Com
Well: Simon Camamile Fed Com #126H

Wellbore: Wellbore #1

Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft KB @ 3377.5usft

Grid Minimum Curvature

Design:	BLM Plan #1								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,200.0	9.30	220.81	4,161.2	-368.7	-318.4	-318.8	0.00	0.00	0.00
4,300.0	9.30	220.81	4,259.9	-380.9	-329.0	-329.4	0.00	0.00	0.00
4,400.0	9.30	220.81	4,358.6	-393.2	-339.5	-340.0	0.00	0.00	0.00
4,500.0	9.30	220.81	4,457.3	-405.4	-350.1	-350.6	0.00	0.00	0.00
4,600.0	9.30	220.81	4,555.9	-417.6	-360.6	-361.1	0.00	0.00	0.00
4,700.0	9.30	220.81	4,654.6	-429.9	-371.2	-371.7	0.00	0.00	0.00
4,800.0	9.30	220.81	4,753.3	-442.1	-381.8	-382.3	0.00	0.00	0.00
4,900.0	9.30	220.81	4,852.0	-454.3	-392.3	-392.9	0.00	0.00	0.00
5,000.0	9.30	220.81	4,950.7	-466.5	-402.9	-403.5	0.00	0.00	0.00
5,100.0	9.30	220.81	5,049.4	-478.8 404.0	-413.4	-414.0	0.00	0.00	0.00
5,200.0 5,300.0	9.30 9.30	220.81 220.81	5,148.1 5,246.7	-491.0 -503.2	-424.0 -434.6	-424.6 -435.2	0.00 0.00	0.00 0.00	0.00 0.00
5,400.0	9.30	220.81	5,246.7 5,345.4	-503.2 -515.5	-434.6 -445.1	-435.2 -445.8	0.00	0.00	0.00
5,500.0	9.30	220.81	5,444.1	-527.7	-455.7	-456.3	0.00	0.00	0.00
5,600.0	9.30	220.81	5,542.8	-539.9	-466.3	-466.9	0.00	0.00	0.00
5,700.0	9.30	220.81	5,641.5	-552.2	-476.8	-477.5	0.00	0.00	0.00
5,800.0	9.30	220.81	5,740.2	-564.4	-487.4	-488.1	0.00	0.00	0.00
5,900.0	9.30	220.81	5,838.9	-576.6	-497.9	-498.7	0.00	0.00	0.00
6,000.0	9.30	220.81	5,937.5	-588.9	-508.5	-509.2	0.00	0.00	0.00
6,100.0	9.30	220.81	6,036.2	-601.1	-519.1	-519.8	0.00	0.00	0.00
6,200.0	9.30	220.81	6,134.9	-613.3	-529.6	-530.4	0.00	0.00	0.00
6,300.0	9.30	220.81	6,233.6	-625.5	-540.2	-541.0	0.00	0.00	0.00
6,400.0	9.30	220.81	6,332.3	-637.8	-550.8	-551.5	0.00	0.00	0.00
6,408.2	9.30	220.81	6,340.4	-638.8	-551.6	-552.4	0.00	0.00	0.00
G4: BSGL (C	S9)								
6,500.0	9.30	220.81	6,431.0	-650.0	-561.3	-562.1	0.00	0.00	0.00
6,592.9	9.30	220.81	6,522.6	-661.4	-571.1	-571.9	0.00	0.00	0.00
L8.2: U. Aval	on Shale								
6,600.0	9.30	220.81	6,529.6	-662.2	-571.9	-572.7	0.00	0.00	0.00
6,700.0	9.30	220.81	6,628.3	-674.5	-582.4	-583.3	0.00	0.00	0.00
6,800.0	9.30	220.81	6,727.0	-686.7	-593.0	-593.8	0.00	0.00	0.00
6,850.1	9.30	220.81	6,776.5	-692.8	-598.3	-599.1	0.00	0.00	0.00
L6.3: Avalon			5,110.0	302.0	555.5	300.1	0.00	0.00	3.00
6,900.0	9.30	220.81	6,825.7	-698.9	-603.6	-604.4	0.00	0.00	0.00
7,000.0	9.30	220.81	6,924.4	-711.2	-614.1	-615.0	0.00	0.00	0.00
7,082.2	9.30	220.81	7,005.5	-721.2	-622.8	-623.7	0.00	0.00	0.00
L6.2: L. Aval			,						
		000.01	7.000 1	700 1	2017	205.2	0.00	0.00	0.00
7,100.0	9.30	220.81	7,023.1	-723.4	-624.7	-625.6	0.00	0.00	0.00
7,142.6	9.30	220.81	7,065.1	-728.6	-629.2	-630.1	0.00	0.00	0.00
L5.3: FBSC)	0.00	000.04	7 404 0	705.0	005.0	000.0	0.00	0.00	0.00
7,200.0 7,300.0	9.30	220.81 220.81	7,121.8 7,220.4	-735.6	-635.3	-636.2	0.00	0.00 0.00	0.00
7,300.0	9.30 9.30	220.81	7,220.4 7,319.1	-747.9 -760.1	-645.8 -656.4	-646.7 -657.3	0.00 0.00	0.00	0.00 0.00
			,						
7,466.5	9.30	220.81	7,384.7	-768.2	-663.4	-664.3	0.00	0.00	0.00
Start Drop -1									
7,500.0	8.80	220.81	7,417.8	-772.2	-666.8	-667.8	1.50	-1.50	0.00
7,514.1	8.59	220.81	7,431.8	-773.8	-668.2	-669.2	1.50	-1.50	0.00
L5.1: FBSG)									
7,600.0	7.30	220.81	7,516.9	-782.8	-676.0	-677.0	1.50	-1.50	0.00
7,700.0	5.80	220.81	7,616.2	-791.4	-683.4	-684.4	1.50	-1.50	0.00
7,782.0	4.57	220.81	7,697.9	-797.0	-688.3	-689.3	1.50	-1.50	0.00
L4.3: SBSC)									
7,800.0	4.30	220.81	7,715.8	-798.1	-689.2	-690.2	1.50	-1.50	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Simon Camamile Fed Com
Well: Simon Camamile Fed Com #126H

Wellbore: Wellbore #1

Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft KB @ 3377.5usft

Grid

Minimum Curvature

•	DLIVI FIAIT#1								
ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,900.0 8,000.0 8,086.5	1.30	220.81 220.81 0.00	7,815.6 7,915.5 8,002.0	-802.8 -805.5 -806.2	-693.2 -695.6 -696.2	-694.2 -696.6 -697.2	1.50 1.50 1.50	-1.50 -1.50 -1.50	0.00 0.00 160.99
	1 10.00 - KOP - Sim			-000.2	-030.2	-031.2	1.50	-1.50	100.99
8,100.0	1.35	89.80	8,015.5	-806.2	-696.1	-697.0	10.00	10.00	663.13
8,200.0 8,205.1 <b>L4.1: SBS</b>	) 11.35 1 11.86	89.80 89.80	8,114.8 8,119.8	-806.2 -806.2	-685.0 -684.0	-686.0 -685.0	10.00 10.00	10.00 10.00	0.00 0.00
8,300.0 8,400.0		89.80 89.80	8,210.6 8,300.1	-806.1 -805.9	-656.9 -612.5	-657.9 -613.5	10.00 10.00	10.00 10.00	0.00 0.00
8,500.0 8,567.1		89.80 89.80	8,380.6 8,428.2	-805.7 -805.6	-553.3 -506.2	-554.3 -507.2	10.00 10.00	10.00 10.00	0.00 0.00
	on Camamile Fed (	Com #126H							
8,600.0 8,691.1		89.80 89.80	8,449.5 8,500.5	-805.5 -805.2	-481.1 -405.7	-482.1 -406.7	10.00 10.00	10.00 10.00	0.00 0.00
L3.3: TBS	•								
8,700.0		89.80	8,504.8	-805.2	-397.9	-398.9	10.00	10.00	0.00
8,800.0		89.80	8,544.9	-804.9	-306.4	-307.4	10.00	10.00	0.00
8,900.0 8,986.5	90.00	89.80 89.80	8,568.4 8,575.0	-804.5 -804.2	-209.4 -123.3	-210.4 -124.2	10.00 10.00	10.00 10.00	0.00 0.00
Start DLS 8,993.2	<b>2.00 TFO 90.08</b> 90.00	89.93	8,575.0	-804.2	-116.6	-117.5	2.00	0.00	2.00
	0.4 hold at 8993.2		0,373.0	-004.2	-110.0	-111.3	2.00	0.00	2.00
9,000.0		89.93	8,575.0	-804.2	-109.7	-110.7	0.00	0.00	0.00
9,100.0		89.93	8,575.0	-804.1	-9.7	-10.7	0.00	0.00	0.00
9,200.0		89.93 89.93	8,575.0 8,575.0	-804.0 803.8	90.3 190.3	89.3 189.3	0.00	0.00	0.00
9,300.0 9,400.0		89.93 89.93	8,575.0 8,575.0	-803.8 -803.7	190.3 290.3	189.3 289.3	0.00 0.00	0.00 0.00	0.00 0.00
9,500.0		89.93	8,575.0	-803.6	390.3	389.3	0.00	0.00	0.00
9,600.0		89.93	8,575.0	-803.5	490.3	489.3	0.00	0.00	0.00
9,700.0		89.93	8,575.0	-803.4	590.3	589.3	0.00	0.00	0.00
9,800.0		89.93	8,575.0	-803.3	690.3	689.3	0.00	0.00	0.00
9,900.0 10,000.0		89.93 89.93	8,575.0 8,575.0	-803.2 -803.0	790.3 890.3	789.3 889.3	0.00 0.00	0.00 0.00	0.00 0.00
10,100.0		89.93	8,575.0	-802.9	990.3	989.3	0.00	0.00	0.00
10,200.0		89.93	8,575.0	-802.8	1,090.3	1,089.3	0.00	0.00	0.00
10,300.0		89.93	8,575.0	-802.7	1,190.3	1,189.3	0.00	0.00	0.00
10,400.0 10,500.0		89.93 89.93	8,575.0 8,575.0	-802.6 -802.5	1,290.3 1,390.3	1,289.3 1,389.3	0.00 0.00	0.00 0.00	0.00 0.00
10,600.0		89.93	8,575.0	-802.4	1,490.3	1,489.3	0.00	0.00	0.00
10,700.0		89.93	8,575.0	-802.2	1,590.3	1,589.3	0.00	0.00	0.00
10,800.0		89.93	8,575.0	-802.1	1,690.3	1,689.3	0.00	0.00	0.00
10,900.0 11,000.0		89.93 89.93	8,575.0 8,575.0	-802.0 -801.9	1,790.3 1,890.3	1,789.3 1,889.3	0.00 0.00	0.00 0.00	0.00 0.00
11,100.0		89.93	8,575.0	-801.8	1,990.3	1,989.3	0.00	0.00	0.00
11,200.0		89.93	8,575.0 8,575.0	-801.7	2,090.3	2,089.3	0.00	0.00	0.00
11,300.0 11,400.0		89.93 89.93	8,575.0 8,575.0	-801.5 -801.4	2,190.3 2,290.3	2,189.3 2,289.3	0.00 0.00	0.00 0.00	0.00 0.00
11,500.0		89.93	8,575.0	-801.3	2,390.3	2,389.3	0.00	0.00	0.00
11,600.0		89.93	8,575.0	-801.2	2,490.3	2,489.3	0.00	0.00	0.00
11,700.0		89.93	8,575.0	-801.1	2,590.3	2,589.3	0.00	0.00	0.00
11,800.0	90.00	89.93	8,575.0	-801.0	2,690.3	2,689.3	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Simon Camamile Fed Com
Well: Simon Camamile Fed Com #126H

Wellbore: Wellbore #1
Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Frence: KB @ 3377 Susft

KB @ 3377.5usft KB @ 3377.5usft Grid

Minimum Curvature

Well Simon Camamile Fed Com #126H

ooigii.										
Planned Su	ırvey									
	-									
Me	easured			Vertical			Vertical	Dogleg	Build	Turn
	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
	-			•						
(	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	12,000.0	90.00	89.93	8,575.0	-800.7	2,890.3	2,889.3	0.00	0.00	0.00
					222.2			0.00		
	12,100.0	90.00	89.93	8,575.0	-800.6	2,990.3	2,989.3	0.00	0.00	0.00
	12,200.0	90.00	89.93	8,575.0	-800.5	3,090.3	3,089.3	0.00	0.00	0.00
	12,300.0	90.00	89.93	8,575.0	-800.4	3,190.3	3,189.3	0.00	0.00	0.00
	12,400.0	90.00	89.93	8,575.0	-800.3	3,290.3	3,289.3	0.00	0.00	0.00
	12,500.0	90.00	89.93	8,575.0	-800.2	3,390.3	3,389.3	0.00	0.00	0.00
	12,600.0	90.00	89.93	8,575.0	-800.1	3,490.3	3,489.3	0.00	0.00	0.00
	12,700.0	90.00	89.93	8,575.0	-799.9	3,590.3	3,589.3	0.00	0.00	0.00
	12,800.0	90.00	89.93	8,575.0	-799.8	3,690.3	3,689.3	0.00	0.00	0.00
	12,900.0	90.00	89.93	8,575.0	-799.7	3,790.3	3,789.3	0.00	0.00	0.00
	13,000.0	90.00	89.93	8,575.0	-799.6	3,890.3	3,889.3	0.00	0.00	0.00
	13,100.0	90.00	89.93	8,575.0	-799.5	3,990.3	3,989.3	0.00	0.00	0.00
	13,200.0	90.00	89.93	8,575.0	-799.4	4,090.3	4,089.3	0.00	0.00	0.00
	13,300.0	90.00	89.93	8,575.0	-799.3	4,190.3	4,189.3	0.00	0.00	0.00
	13,400.0	90.00	89.93	8,575.0	-799.1	4,290.3	4,289.3	0.00	0.00	0.00
	13,500.0	90.00	89.93	8,575.0	-799.0	4,390.3	4,389.3	0.00	0.00	0.00
	13,600.0	90.00	89.93	8,575.0	-798.9	4,490.3	4,489.3	0.00	0.00	0.00
	13,647.9	90.00	89.93	8,575.0	-798.9	4,538.1	4,537.2	0.00	0.00	0.00
				0,575.0	-190.9	4,550.1	4,337.2	0.00	0.00	0.00
		n Camamile Fed		0.575.0	700.0	4.500.0	4.500.0	0.00	0.00	0.00
	13,700.0	90.00	89.93	8,575.0	-798.8	4,590.3	4,589.3	0.00	0.00	0.00
	13,800.0	90.00	89.93	8,575.0	-798.7	4,690.3	4,689.3	0.00	0.00	0.00
	13,900.0	90.00	89.93	8,575.0	-798.6	4,790.3	4,789.3	0.00	0.00	0.00
	14,000.0	90.00	89.93	8,575.0	-798.4	4,890.3	4,889.3	0.00	0.00	0.00
	14,100.0	90.00	89.93	8,575.0	-798.3	4,990.3	4,989.3	0.00	0.00	0.00
	14,200.0	90.00	89.93	8,575.0	-798.2	5,090.3	5,089.3	0.00	0.00	0.00
	14,300.0	90.00	89.93	8,575.0	-798.1	5,190.3	5,189.3	0.00	0.00	0.00
	14,400.0	90.00	89.93	8,575.0	-798.0	5,290.3	5,289.3	0.00	0.00	0.00
	14,500.0	90.00	89.93	8,575.0	-797.9	5,390.3	5,389.3	0.00	0.00	0.00
	14,600.0	90.00	89.93	8,575.0	-797.8	5,490.3	5,489.3	0.00	0.00	0.00
	14,700.0	90.00	89.93	8,575.0	-797.6	5,590.3	5,589.3	0.00	0.00	0.00
	14,800.0	90.00	89.93	8,575.0	-797.5	5,690.3	5,689.3	0.00	0.00	0.00
	14,900.0	90.00	89.93	8,575.0	-797.4	5,790.3	5,789.3	0.00	0.00	0.00
	15,000.0	90.00	89.93	8,575.0	-797.3	5,890.3	5,889.3	0.00	0.00	0.00
	15,100.0	90.00	89.93	8,575.0	-797.2	5,990.3	5,989.3	0.00	0.00	0.00
	15,200.0	90.00	89.93	8,575.0	-797.1	6,090.3	6,089.3	0.00	0.00	0.00
	15,200.0	90.00	89.93	8,575.0	-797.0	6,190.3	6,189.3	0.00	0.00	0.00
				,						
	15,400.0	90.00	89.93	8,575.0	-796.8	6,290.3	6,289.3	0.00	0.00	0.00
	15,500.0	90.00	89.93	8,575.0	-796.7	6,390.3	6,389.3	0.00	0.00	0.00
	15,600.0	90.00	89.93	8,575.0	-796.6	6,490.3	6,489.3	0.00	0.00	0.00
	15,700.0	90.00	89.93	8,575.0	-796.5	6,590.3	6,589.3	0.00	0.00	0.00
	15,800.0	90.00	89.93	8,575.0	-796.4	6,690.3	6,689.3	0.00	0.00	0.00
	15,800.0	90.00	89.93	8,575.0	-796.4 -796.3	6,790.3	6,789.3	0.00	0.00	0.00
	10,900.0	90.00	09.93	0,373.0	-190.3	0,790.3		0.00	0.00	0.00
	16,000.0	90.00	89.93	8,575.0	-796.1	6,890.3	6,889.3	0.00	0.00	0.00
	16,100.0	90.00	89.93	8,575.0	-796.0	6,990.3	6,989.3	0.00	0.00	0.00
	16,200.0	90.00	89.93	8,575.0	-795.9	7,090.3	7,089.3	0.00	0.00	0.00
	16,300.0	90.00	89.93	8,575.0	-795.8	7,190.3	7,189.3	0.00	0.00	0.00
	16,400.0	90.00	89.93	8,575.0	-795.7	7,130.3	7,189.3	0.00	0.00	0.00
	,									
	16,500.0	90.00	89.93	8,575.0	-795.6	7,390.3	7,389.3	0.00	0.00	0.00
	16,600.0	90.00	89.93	8,575.0	-795.5	7,490.3	7,489.3	0.00	0.00	0.00
	16,700.0	90.00	89.93	8,575.0	-795.3	7,590.3	7,589.3	0.00	0.00	0.00
	16,800.0	90.00	89.93	8,575.0	-795.2	7,690.3	7,689.3	0.00	0.00	0.00
	16,900.0	90.00	89.93	8,575.0	-795.1	7,790.3	7,789.3	0.00	0.00	0.00
							,			
	17,000.0	90.00	89.93	8,575.0	-795.0	7,890.3	7,889.3	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Simon Camamile Fed Com
Well: Simon Camamile Fed Com #126H

Wellbore: Wellbore #1

Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Simon Camamile Fed Com #126H

KB @ 3377.5usft KB @ 3377.5usft

Grid Minimum Curvature

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,100.0	90.00	89.93	8,575.0	-794.9	7,990.3	7,989.3	0.00	0.00	0.00
17,200.0	90.00	89.93	8,575.0	-794.8	8,090.3	8,089.3	0.00	0.00	0.00
17,300.0	90.00	89.93	8,575.0	-794.7	8,190.3	8,189.3	0.00	0.00	0.00
17,400.0	90.00	89.93	8,575.0	-794.5	8,290.3	8,289.3	0.00	0.00	0.00
17,500.0	90.00	89.93	8,575.0	-794.4	8,390.3	8,389.3	0.00	0.00	0.00
17,600.0	90.00	89.93	8,575.0	-794.3	8,490.3	8,489.3	0.00	0.00	0.00
17,700.0	90.00	89.93	8,575.0	-794.2	8,590.3	8,589.3	0.00	0.00	0.00
17,800.0	90.00	89.93	8,575.0	-794.1	8,690.3	8,689.3	0.00	0.00	0.00
17,900.0	90.00	89.93	8,575.0	-794.0	8,790.3	8,789.3	0.00	0.00	0.00
18,000.0	90.00	89.93	8,575.0	-793.8	8,890.3	8,889.3	0.00	0.00	0.00
18,100.0	90.00	89.93	8,575.0	-793.7	8,990.3	8,989.3	0.00	0.00	0.00
18,200.0	90.00	89.93	8,575.0	-793.6	9,090.3	9,089.3	0.00	0.00	0.00
18,300.0	90.00	89.93	8,575.0	-793.5	9,190.3	9,189.3	0.00	0.00	0.00
18,400.0	90.00	89.93	8,575.0	-793.4	9,290.3	9,289.3	0.00	0.00	0.00
18,500.0	90.00	89.93	8,575.0	-793.3	9,390.3	9,389.3	0.00	0.00	0.00
18,600.0	90.00	89.93	8,575.0	-793.2	9,490.3	9.489.3	0.00	0.00	0.00
18,700.0	90.00	89.93	8,575.0	-793.0	9,590.3	9,589.3	0.00	0.00	0.00
18.800.0	90.00	89.93	8,575.0	-792.9	9,690.3	9,689.3	0.00	0.00	0.00
18,900.0	90.00	89.93	8,575.0	-792.8	9,790.3	9,789.3	0.00	0.00	0.00
18,948.8	90.00 n Camamile Fed	89.93	8,575.0	-792.8	9,839.1	9,838.1	0.00	0.00	0.00
19,000.0	90.00	89.93	8,575.0	-792.7	9,890.3	9,889.3	0.00	0.00	0.00
19,100.0	90.00	89.93	8,575.0	-792.6	9,990.3	9,989.3	0.00	0.00	0.00
19,200.0	90.00	89.93	8,575.0	-792.5	10,090.3	10,089.3	0.00	0.00	0.00
19,300.0	90.00	89.93	8,575.0	-792.4	10,190.3	10,189.3	0.00	0.00	0.00
19,400.0	90.00	89.93	8,575.0	-792.2	10,290.3	10,289.3	0.00	0.00	0.00
19,500.0	90.00	89.93	8,575.0	-792.1	10,290.3	10,289.3	0.00	0.00	0.00
19,600.0	90.00	89.93	8,575.0	-792.1 -792.0	10,390.3	10,369.3	0.00	0.00	0.00
19,700.0	90.00	89.93	8,575.0	-791.9	10,490.3	10,469.3	0.00	0.00	0.00
19,800.0	90.00	89.93	8,575.0	-791.8	10,590.3	10,569.3	0.00	0.00	0.00
19,900.0	90.00	89.93	8,575.0	-791.7	10,790.3	10,789.3	0.00	0.00	0.00
20,000.0	90.00	89.93	8,575.0	-791.5	10,890.3	10,889.3	0.00	0.00	0.00
20,100.0	90.00	89.93	8,575.0	-791.4	10,990.3	10,989.3	0.00	0.00	0.00
20,200.0	90.00	89.93	8,575.0	-791.3	11,090.3	11,089.3	0.00	0.00	0.00
20,300.0	90.00	89.93	8,575.0	-791.2	11,190.3	11,189.3	0.00	0.00	0.00
20,400.0	90.00	89.93	8,575.0	-791.1	11,290.3	11,289.3	0.00	0.00	0.00
20,500.0	90.00	89.93	8,575.0	-791.0	11,390.3	11,389.3	0.00	0.00	0.00
20,600.0	90.00	89.93	8,575.0	-790.9	11,490.3	11,489.3	0.00	0.00	0.00
20,700.0	90.00	89.93	8,575.0	-790.7	11,590.3	11,589.3	0.00	0.00	0.00
20,800.0	90.00	89.93	8,575.0	-790.6	11,690.3	11,689.3	0.00	0.00	0.00
20,900.0	90.00	89.93	8,575.0	-790.5	11,790.3	11,789.3	0.00	0.00	0.00
21,000.0	90.00	89.93	8,575.0	-790.4	11,890.3	11,889.3	0.00	0.00	0.00
21,100.0	90.00	89.93	8,575.0	-790.3	11,990.3	11,989.3	0.00	0.00	0.00
21,200.0	90.00	89.93	8,575.0	-790.2	12,090.3	12,089.3	0.00	0.00	0.00
21,213.6	90.00	89.93	8,575.0	-790.2	12,103.8	12,102.9	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Matador Production Company

Project: Ranger/Arrowhead
Site: Simon Camamile Fed Com
Well: Simon Camamile Fed Com #126H

Wellbore: Wellbore #1
Design: BLM Plan #1

Local Co-ordinate Reference:

**Survey Calculation Method:** 

TVD Reference: MD Reference: North Reference: Well Simon Camamile Fed Com #126H KB @ 3377.5usft

KB @ 3377.5usft Grid

Minimum Curvature

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP - Simon Camamile - plan hits target cent - Point	0.00 ter	0.01	8,002.0	-806.2	-696.2	546,864.00	582,699.00	32° 30' 11.353 N	104° 3' 54.299 W
BPP1 - Simon Camamile - plan misses target o - Point	0.00 center by 1.3u	0.00 usft at 13647.	8,575.0 9usft MD (8	-800.2 575.0 TVD, -7	4,538.1 98.9 N, 4538.	546,870.00 1 E)	587,933.00	32° 30' 11.278 N	104° 2' 53.180 W
BHL - Simon Camamile - plan hits target cent - Point	0.00 ter	0.00	8,575.0	-790.2	12,103.8	546,879.98	595,498.79	32° 30' 11.168 N	104° 1' 24.833 W
BPP2 - Simon Camamile - plan misses target e - Point	0.00 center by 0.4u	0.00 usft at 18948	8,575.0 8usft MD (8	-793.1 575.0 TVD, -7	9,839.1 92.8 N, 9839.	546,877.00 1 E)	593,234.00	32° 30' 11.202 N	104° 1' 51.280 W
FPP - Simon Camamile - plan misses target of the control of the co	0.00 center by 202	0.00 9usft at 856	8,575.0 7.1usft MD (	-806.2 (8428.2 TVD, -	-646.2 805.6 N, -506	546,864.00 .2 E)	582,749.00	32° 30' 11.351 N	104° 3' 53.715 W

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	756.1	755.1	Rustler			
	1,016.7	1,015.7	Salado			
	1,762.0	1,754.2	Capitan (T)			
	3,732.8	3,699.1	G13: Cherry Cyn.			
	6,408.2	6,339.4	G4: BSGL (CS9)			
	6,592.9	6,521.6	L8.2: U. Avalon Shale			
	6,850.1	6,775.5	L6.3: Avalon Carb			
	7,082.2	7,004.5	L6.2: L. Avalon Shale			
	7,142.6	7,064.1	L5.3: FBSC)			
	7,514.1	7,430.8	L5.1: FBSG)			
	7,782.0	7,696.9	L4.3: SBSC)			
	8,205.1	8,118.8	L4.1: SBSG)			
	8,691.1	8,499.5	L3.3: TBSC)			

Plan Annotation	ns				
	Measured	Vertical	Local Coor	dinates	
	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
			, ,	, ,	
	1,000.0	1,000.0	0.0	0.0	Start Build 2.50
	1,372.0	1,370.4	-22.8	-19.7	Start 6094.5 hold at 1372.0 MD
	7,466.5	7,384.7	-768.2	-663.4	Start Drop -1.50
	8,086.5	8,002.0	-806.2	-696.2	Start Build 10.00
	8,986.5	8,575.0	-804.2	-123.3	Start DLS 2.00 TFO 90.08
	8,993.2	8,575.0	-804.2	-116.6	Start 12220.4 hold at 8993.2 MD
	21,213.6	8,575.0	-790.2	12,103.8	TD at 21213.6

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 Prione: (5/5) /48-1283 Fax: (5/5) /48-9/20 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

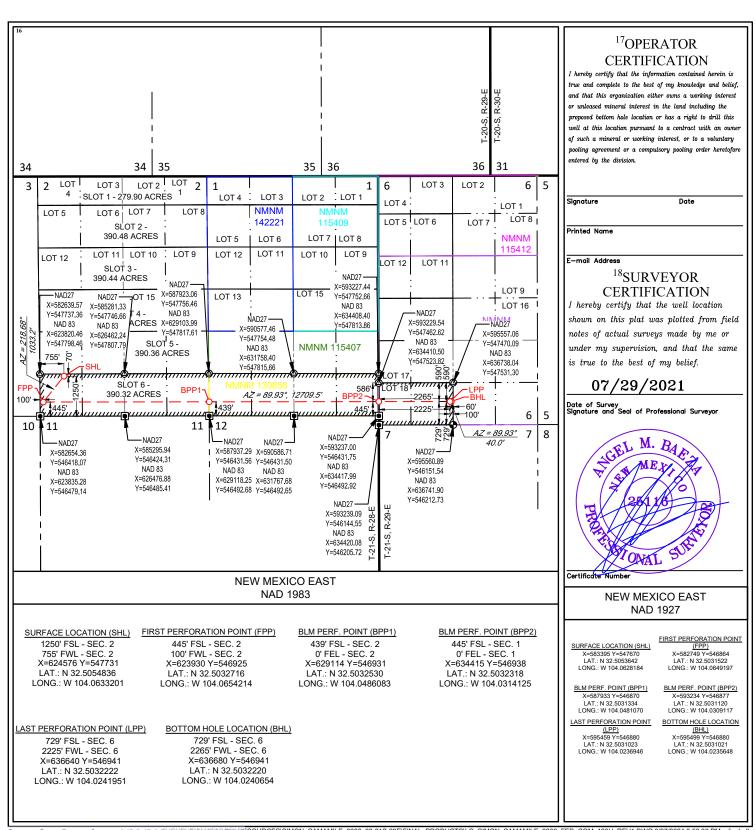
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

FORM C-102 Revised August 1, 2011 Submit one copy to appropriate **District Office** 

X AMENDED REPORT

		W	ELL LO	OCATIO.	N AND ACR	EAGE DEDIC	ATION PLA	Γ				
	API Number	r		<sup>2</sup> Pool Code			<sup>3</sup> Pool Na	me				
3	0-025-	_										
<sup>4</sup> Property C	ode				<sup>5</sup> Property N		<sup>6</sup> Well Number					
			S	SIMON	N CAMAMILE 0206 FED COM 126H							
<sup>7</sup> OGRID N	No.			Name			9	Elevation				
7377	7377 MATADOR PRODUCTION COMPANY											
<sup>10</sup> Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	West line	County		
M	2	21-S	28-E	-	1250'	SOUTH	755'	WEST	Г	EDDY		
			<sup>11</sup> E	Bottom Ho	le Location If D	Different From Sur	face		•			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County		
N	6   21-S   29-E   -   729'   SOUTH   2265'   WEST   EDDY											
<sup>12</sup> Dedicated Acres 390.32	<sup>13</sup> Joint or 1	Infill 14Co	nsolidation Cod	le <sup>15</sup> Ord	er No.							

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



9:46:15 AM

19

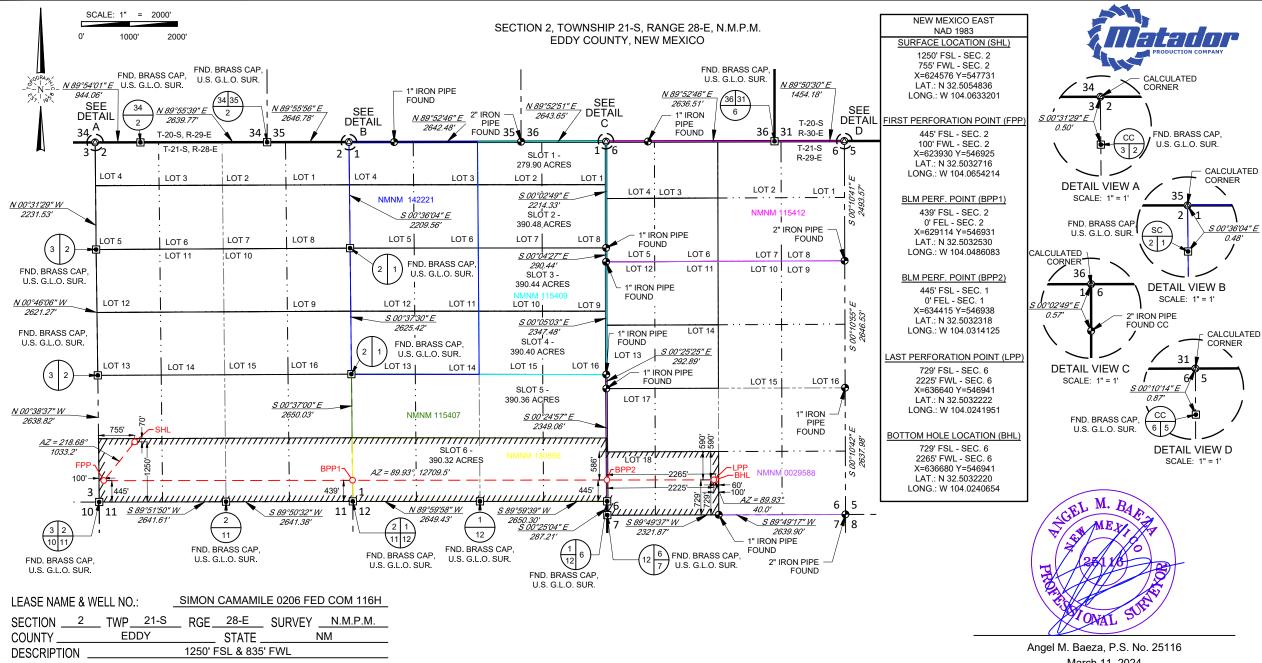
DISTANCE & DIRECTION

FROM INT. OF HWY-285, & US-180 E/US-62 E HEAD EAST ON US-180

E/US-62 E ±11.9 MILES, THENCE SOUTH (RIGHT) ON A LEASE RD

±0.7 MILES, THENCE SOUTHWEST (RIGHT) ON A PROPOSED RD

±85 FEET TO A POINT ±479 FEET NORTHEAST OF THE LOCATION.



March 11, 2024



481 WINNSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554 TEXAS FIRM REGISTRATION NO. 10042504 WWW TOPOGRAPHIC COM

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON

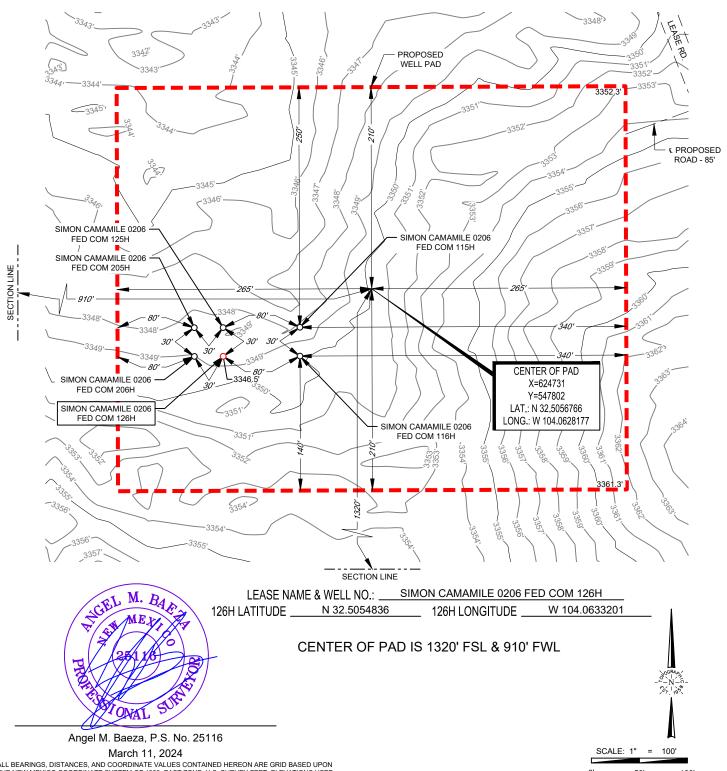
# **LEGEND** PROPOSED ROAD

ROAD WAY



SECTION 2, TOWNSHIP 21-S, RANGE 28-E, N.M.P.M. EDDY COUNTY, NEW MEXICO

DETAIL VIEW SCALE: 1" = 100'



ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

481 WINNSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554 TEXAS FIRM REGISTRATION NO. 10042504 WWW.TOPOGRAPHIC.COM

Simon Camamile 0206 Fed Com 126H SHL: 1250' FSL & 755' FWL Section 2 BHL: 729' FSL & 2265' FWL Section 6

Township/Range: 21S 28E

**Elevation Above Sea Level: 3347** 

#### **Sundry Request**

Matador request the option to amend the well design of the Simon Camamile 0206 Fed Com #226H and make the following changes to the current APD:

- Change the well name from Simon Camamile 0206 Fed Com #226H to the Simon Camamile 0206 Fed Com #126H
- Change BHL from 1389' FSL & 2268' FWL to 729' FSL & 2265' FWL. All perforations will be within the setback requirements as previously approved.
- Shallow target formation from Wolfcamp to Second Bone Spring
- Amend casing and cementing plan by changing 9.625" Int 2 string to 8.625" and revising set depths as described below

#### **Drilling Operation Plan**

Proposed Drilling Depth: 21213' MD / 8575' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.5032716 N / -104.0654214 W TD Lat/Long (NAD83): 32.5032220 N / -104.0240654 W

#### 1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	595	595	420	Anhydrite	Barren
Salado (Top of Salt)	1,016	1,015	739	Salt	Barren
Capitan	1,762	1,754	2,155	Limestone	Barren
Cherry Canyon	3,942	3,909	1,039	Sandstone	Oil/Natural Gas
Brushy Canyon	4,996	4,948	1,391	Sandstone	Oil/Natural Gas
Bone Spring Lime	6,408	6,339	1,091	Limestone	Oil/Natural Gas
1st Bone Spring Sand	7,514	7,430	266	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	7,782	7,696	422	Carbonate	Oil/Natural Gas
КОР	8,086	8,002	-	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	8,205	8,118	-	Sandstone	Oil/Natural Gas
TD	21,213	8,575	-	Sandstone	Oil/Natural Gas

#### 2. Notable Zones

Second Bone Spring is the goal. All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 50'.

#### **Drill Plan**

#### 3. Pressure Control

#### Equipment

Matador requests a variance for a 2M annular to be installed after running 20" casing.

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface casing to TD. See attachments for BOP and choke manifold diagrams.

An accumulator complying with Title 43 CFR 3172 requirements for the pressure rating of the BOP stack will be present. A rotating head will also be installed as needed.

#### **Testing Procedure**

BOP will be inspected and operated as required in Title 43 CFR 3172. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs.

After setting surface casing, a minimum 5M BOPE system will be installed. Test pressures will be 250 psi low and 5000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below surface shoe. In the event that the rig drills multiple wells on the pad and any seal subject to test pressures are broken, a full BOP test will be performed when the rig returns and the 5M BOPE system is re-installed.

#### Variance Request

Matador requests a variance to have the option of running a multi-bowl wellhead assembly for setting the Intermediate 1, Intermediate 2, and Production Strings. The BOPs will not be tested again unless any flanges are separated.

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

Matador requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, the wellbore will be secured with a blind flange of like pressure. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test.

Matador requests a variance for the use of a diverter along with a 2000-psi annular to be installed after running 20" casing.

Matador request the option to offline cement surface casing. The "Offline Cementing - Surface Casing" Procedure is attached for review. No changes in cement program are necessary.

Matador request the option to offline cement intermediate casing. The "Offline Cementing - Intermediate Casing" Procedure is attached for review. No changes in cement program are necessary.

Matador request the option to break test the BOP during batch drilling operations. The "Modified BOP Testing Procedure for Batch Drilling" Procedure is attached for review.

Matador request the option to utilize a spudder rig for setting surface and intermediate 1 casing strings.

#### 4. Casing & Cement

All casing will be API and new. See attached casing assumption worksheet.

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 665	0 - 665	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 1650	0 - 1650	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 3992	0 - 3959	8.625	32	P110	Hunting TLW	1.125	1.125	1.8
Production	7.875	0 - 21213	0 - 8575	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

- All casing strings will be tested in accordance with Title 43 CFR 3172.7(b)(8)
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed
- All non-API joint connections will be of like or greater quality, and as run specification sheets will be on location for

#### Variance Request

Matador request a variance to wave the centralizer requirement for the 5-1/2" SF/Flush casing in the 7-7/8" hole.

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above the current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review. Option to cancel 2nd stage cement if cement is circulated on 1st stage.

Primary Cement Design - DV/Packer 2-Stage Cement

	mary comone zooign zwi donor z otago comone								
String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
Surface	Lead	480	1.72	823	13.5	50%	0	С	5% NaCl + LCM
Surface	Tail	550	1.38	757	14.8	50%	365	С	5% NaCl + LCM
	Stg 2 Tail	400	1.78	716	13.5	10%	0	С	5% NaCl + LCM
Intermediate 1 w/ DV @ 715'	Stg 1 Lead	770	1.84	1410	12.5	50%	0	С	5% NaCl + LCM
	Stg 1 Tail	280	1.33	379	14.8	50%	1320	С	5% NaCl + LCM
	Stg 2 Tail	440	1.78	785	13.5	10%	0	С	5% NaCl + LCM
Intermediate 2 w/ DV @ 1700'	Stg 1 Lead	210	3.66	752	10.3	35%	0	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Stg 1 Tail	320	1.38	445	13.2	35%	3194	A/C	5% NaCl + LCM
Production	Lead	250	3.66	922	12.5	25%	3792	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
FIOUUCION	Tail	2110	1.35	2843	13.2	25%	8086	A/C	Fluid Loss + Dispersant + Retarder

#### 5. Mud Program

An electronic Pason mud monitoring system complying with Title 43 CFR 3172 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	26	Spud Mud	0 - 665	8.4 - 8.8	28-30	NC
Intermediate 1	17.5	Brine	665 - 1650	9.8 - 10.2	28-30	NC
Intermediate 2	12.25	Fresh Water	1650 - 3992	8.4 - 8.8	28-30	NC
Production	7.875	OBM/Cut Brine	3992 - 21213	8.6 - 9.4	50-65	<20

#### 6. Cores, Test, & Logs

No core or drill stem test is planned.

No electric logs are planned at this time. GR will be collected through the MWD tools from Intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to top of curve. We will be running a Neutron log on one of the wells on

#### 7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 4191 psi. Maximum anticipated surface pressure is 2305 psi. Expected bottom hole temperature is 131 F.

In accordance with Title 43 CFR 3176, Matador does not anticipate that there will be enough H2S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H2S safety package on all wells, attached is an "H2S Drilling Operations Plan". Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Form 3160-5 (June 2019)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM	1 APPROVED
OMB	No. 1004-0137
Expires:	October 31, 202

<ol><li>Lease Serial N</li></ol>	Ň
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BORDITO OF EFFICE WITH VIOLENCE VI			
SUNDRY NOTICES AND REPORTS ON V Do not use this form for proposals to drill or to abandoned well. Use Form 3160-3 (APD) for su	o re-enter an	6. If Indian, Allottee or	Tribe Name
SUBMIT IN TRIPLICATE - Other instructions on page	ge 2	7. If Unit of CA/Agreen	nent, Name and/or No.
1. Type of Well	<u>,                                      </u>	_	
Oil Well Gas Well Other		8. Well Name and No.	
2. Name of Operator		9. API Well No.	
3a. Address 3b. Phone No.	(include area code)	10. Field and Pool or Ex	ploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, S	tate
12. CHECK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NOT	TICE, REPORT OR OTHE	ER DATA
TYPE OF SUBMISSION	TYPE OF AC	CTION	
	raulic Fracturing Rec	duction (Start/Resume)	Water Shut-Off Well Integrity
Subsequent Report		complete nporarily Abandon	Other
		ter Disposal	
completed. Final Abandonment Notices must be filed only after all requiremen is ready for final inspection.)	is, including reclamation, have	ve been completed and the	operator has detennined that the site
4. I hereby certify that the foregoing is true and correct. Name ( <i>Printed/Typed</i> )	Title		
Signature	Date		
THE SPACE FOR FED	ERAL OR STATE OF	FICE USE	
Approved by			
	Title	Da	ite
Conditions of approval, if any, are attached. Approval of this notice does not warrar certify that the applicant holds legal or equitable title to those rights in the subject leads to which would entitle the applicant to conduct operations thereon.		'	
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for a uny false, fictitious or fraudulent statements or representations as to any matter with		llfully to make to any depart	artment or agency of the United States

(Instructions on page 2)

#### **GENERAL INSTRUCTIONS**

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

#### SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

#### **NOTICES**

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

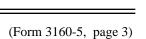
**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

#### **Additional Information**

#### **Location of Well**

0. SHL: SWSW / 1280 FSL / 755 FWL / TWSP: 21S / RANGE: 28E / SECTION: 02 / LAT: 32.5055661 / LONG: -104.0633202 ( TVD: 0 feet, MD: 0 feet ) PPP: NWSW / 1759 FSL / 0 FWL / TWSP: 21S / RANGE: 28E / SECTION: 01 / LAT: 32.5068815 / LONG: -104.048643 ( TVD: 7590 feet, MD: 12600 feet ) PPP: LOT 17 / 1765 FSL / 0 FWL / TWSP: 21S / RANGE: 29E / SECTION: 6 / LAT: 32.5068602 / LONG: -104.0314315 ( TVD: 7695 feet, MD: 17900 feet ) BHL: NESW / 2049 FSL / 2271 FWL / TWSP: 21S / RANGE: 29E / SECTION: 6 / LAT: 32.5068504 / LONG: -104.0240655 ( TVD: 7739 feet, MD: 20136 feet )



From: Paula M. Vance
To: McClure, Dean, EMNRD

Subject: RE: [EXTERNAL] Matador Expedite Updated Spreadsheet / Simon Camamile Action ID: 335919

**Date:** Friday, May 31, 2024 5:32:24 PM

Attachments: <u>image002.png</u>

r-22654 05 02 2023 11 21 01.pdf r-22650 04 24 2023 08 18 01.pdf

#### Dean,

Thank you. Attached are the approved orders for the NSPs. I'll follow-up with Matador regarding the feedback below.

#### **Paula Vance**

Associate, Holland & Hart LLP

pmvance@hollandhart.com | T: (505) 954-7286 | M: (337) 280-9055



CONFIDENTIALITY NOTICE: This message is confidential and may be privileged. If you believe that this email has been sent to you in error, please reply to the sender that you received the message in error; then please delete this email.

From: McClure, Dean, EMNRD < Dean. McClure@emnrd.nm.gov>

**Sent:** Friday, May 31, 2024 5:16 PM

To: Paula M. Vance < PMVance@hollandhart.com>

Subject: RE: [EXTERNAL] Matador Expedite Updated Spreadsheet / Simon Camamile Action ID: 335919



#### Paula,

Thank you; those are correct and the assorted changes have been made to the wells.

I rejected the change of HSU requests for the wells below due to Matador's failure to include the defining well or NSP and the submission not being on an approved 3160-5. However, we should be able to proceed with review of the surface commingling application provided the proposed CAs are correct based on the spacing below.

	G: G "1 0206	12345678	1-21S-28E	
30-015-54098	Simon Camamile 0206	12345678	2-21S-28E	98315
	Federal Com #201H	3 4 5 6	6-21S-29E	
	S' G 1. 0206	12345678	1-21S-28E	_
30-015-54099	Simon Camamile 0206 Federal Com #202H	12345678	2-21S-28E	98315
		3 4 5 6	6-21S-29E	
		9 10 11 12	1-21S-28E	
	Simon Camamile 0206	13 14 15 16	1-215-26E	98315
30-015-54303		9 10 11 12	2-21S-28E	
	Federal Com #203H	13 14 15 16	2-215-28E	
		11 12 13 14	6-21S-29E	

		9 10 11 12 13 14 15 16	1-21S-28E	
30-015-54366	Simon Camamile 0206 Federal Com #204H	9 10 11 12	2-21S-28E	98315
	rederal Colli #204H	13 14 15 16	2-215-20E	
		11 12 13 14	6-21S-29E	

I apologize for the unusualness of this email chain as typically I would like to reach out all at once after an initial review has been concluded, but due to time constraints, I am attempting to provide additional time for your responses by giving you the heads up as issues are identified. I will be concluding my review either this weekend or the beginning of next week.

Dean McClure

Petroleum Engineer, Oil Conservation Division New Mexico Energy, Minerals and Natural Resources Department (505) 469-8211

From: Paula M. Vance < <a href="mailto:PMVance@hollandhart.com">PMVance@hollandhart.com</a>>

**Sent:** Friday, May 31, 2024 3:36 PM

To: McClure, Dean, EMNRD < Dean. McClure@emnrd.nm.gov >

Subject: RE: [EXTERNAL] Matador Expedite Updated Spreadsheet / Simon Camamile Action ID: 335919

Dean,

The APIs should be as follows:

Simon Camamile 0206 Fed Com #125H (30-015-54312) Simon Camamile 0206 Fed Com #126H (30-015-53730)

Attached are the approved BLM sundries. I'm confirming that these have been submitted to the OCD for approval.

#### Paula Vance

Associate, Holland & Hart LLP

pmvance@hollandhart.com | T: (505) 954-7286 | M: (337) 280-9055

# CELEBRATE PRIDE

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From: McClure, Dean, EMNRD < Dean. McClure@emnrd.nm.gov >

**Sent:** Friday, May 31, 2024 1:46 PM

To: Paula M. Vance < PMVance@hollandhart.com>

Subject: RE: [EXTERNAL] Matador Expedite Updated Spreadsheet / Simon Camamile Action ID: 335919

**External Email** 

Paula,

Do you know the API numbers for the proposed wells below? These are included within the proposed Simon Camamile commingling project.

N/2 S/2	1-21S-28E	
N/2 S/2	2-21S-28E	97995
N/2 SW/4	6-21S-29E	
S/2 S/2	1-21S-28E	
S/2 S/2	2-21S-28E	97995
S/2 SW/4	6-21S-29E	
-	N/2 S/2 N/2 SW/4 S/2 S/2 S/2 S/2	N/2 S/2 2-21S-28E N/2 SW/4 6-21S-29E S/2 S/2 1-21S-28E S/2 S/2 2-21S-28E

Dean McClure
Petroleum Engineer, Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
(505) 469-8211

From: Paula M. Vance < PMVance@hollandhart.com>

**Sent:** Friday, May 31, 2024 11:14 AM

To: McClure, Dean, EMNRD < Dean.McClure@emnrd.nm.gov >

Subject: [EXTERNAL] Matador Expedite Updated Spreadsheet / Simon Camamile Action ID: 335919

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dean,

Attached is Matador's updated expedite sheet. I previously submitted one mid-April, and was wondering if you might have any updated on the Simon Camamile Amendment application Action ID: 335919.

Thank you in advance for your time and consideration.



Paula Vance Associate

**HOLLAND & HART LLP** 

110 North Guadalupe Street, Suite 1, Santa Fe, NM 87501

pmvance@hollandhart.com | T: (505) 954-7286 | M: (337) 280-9055

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# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

# APPLICATION FOR SURFACE COMMINGLING SUBMITTED BY MATADOR PRODUCTION COMPANY

ORDER NO. PLC-935

#### **ORDER**

The Director of the New Mexico Oil Conservation Division ("OCD"), having considered the application and the recommendation of the OCD Engineering Bureau, issues the following Order.

#### **FINDINGS OF FACT**

- 1. Matador Production Company ("Applicant") submitted a complete application to surface commingle the oil and gas production from the pools, leases, and wells identified in Exhibit A ("Application").
- 2. Applicant proposed a method to allocate the oil and gas production to the pools, leases, and wells to be commingled.
- 3. To the extent that ownership is diverse, Applicant provided notice of the Application to all persons owning an interest in the oil and gas production to be commingled, including the owners of royalty and overriding royalty interests, regardless of whether they have a right or option to take their interests in kind, and those persons either submitted a written waiver or did not file an objection to the Application.
- 4. Applicant provided notice of the Application to the Bureau of Land Management ("BLM") or New Mexico State Land Office ("NMSLO"), as applicable.
- 5. Applicant certified the commingling of oil and gas production from the pools, leases, and wells will not in reasonable probability reduce the value of the oil and gas production to less than if it had remained segregated.
- 6. Applicant in the notice for the Application stated that it sought authorization to prospectively include additional pools, leases, and wells in accordance with 19.15.12.10.C.(4)(g) NMAC.
- 7. Applicant stated that it sought authorization to surface commingle and off-lease measure, as applicable, oil and gas production from wells which have not yet been approved to be drilled, but will produce from a pool and lease identified in Exhibit A.
- 8. Applicant submitted or intends to submit one or more proposed communitization agreement(s) ("Proposed Agreement(s)") to the BLM or NMSLO, as applicable, identifying the acreage of each lease to be consolidated into a single pooled area ("Pooled Area"), as described in Exhibit B.

Order No. PLC-935

#### **CONCLUSIONS OF LAW**

- 9. OCD has jurisdiction to issue this Order pursuant to the Oil and Gas Act, NMSA 1978, §§ 70-2-6, 70-2-11, 70-2-12, 70-2-16, and 70-2-17, 19.15.12. NMAC, and 19.15.23. NMAC.
- 10. Applicant satisfied the notice requirements for the Application in accordance with 19.15.12.10.A.(2) NMAC, 19.15.12.10.C.(4)(c) NMAC, and 19.15.12.10.C.(4)(e) NMAC, as applicable.
- 11. Applicant satisfied the notice requirements for the Application in accordance with 19.15.23.9.A.(5) NMAC and 19.15.23.9.A.(6) NMAC, as applicable.
- 12. Applicant's proposed method of allocation, as modified herein, complies with 19.15.12.10.B.(1) NMAC or 19.15.12.10.C.(1) NMAC, as applicable.
- 13. Commingling of oil and gas production from state, federal, or tribal leases shall not commence until approved by the BLM or NMSLO, as applicable, in accordance with 19.15.12.10.B.(3) NMAC and 19.15.12.10.C.(4)(h) NMAC.
- 14. Applicant satisfied the notice requirements for the subsequent addition of pools, leases, and wells in the notice for the Application, in accordance with 19.15.12.10.C.(4)(g) NMAC. Subsequent additions of pools, leases, and wells within Applicant's defined parameters, as modified herein, will not, in reasonable probability, reduce the commingled production's value or otherwise adversely affect the interest owners in the production to be added.
- 15. By granting the Application with the conditions specified below, this Order prevents waste and protects correlative rights, public health, and the environment.

#### **ORDER**

1. Applicant is authorized to surface commingle oil and gas production from the pools, leases, and wells identified in Exhibit A.

Applicant is authorized to store and measure oil and gas production off-lease from the pools, leases, and wells identified in Exhibit A at a central tank battery or gas title transfer meter described in Exhibit A.

Applicant is authorized to surface commingle oil and gas production from wells not included in Exhibit A but that produce from a pool and lease identified in Exhibit A.

Applicant is authorized to store and measure oil and gas production off-lease from wells not included in Exhibit A but that produce from a pool and lease identified in Exhibit A at a central tank battery or gas title transfer meter described in Exhibit A.

- 2. This Order supersedes Order CTB-1102.
- 3. For each Pooled Area described in Exhibit B, Applicant shall submit a Proposed Agreement to the BLM or NMSLO, as applicable, prior to commencing oil and gas production. If Applicant fails to submit the Proposed Agreement, this Order shall terminate on the following day.

Order No. PLC-935 Page 2 of 4

No later than sixty (60) days after the BLM or NMSLO approves or denies a Proposed Agreement, Applicant shall submit a Form C-103 to OCD with a copy of the decision and a description of the approved lands, as applicable. If Applicant withdraws or the BLM or NMSLO denies a Proposed Agreement, this Order shall terminate on the date of such action, and Applicant shall cease commingling the production from the Pooled Area. If the BLM or NMSLO approves but modifies the Proposed Agreement(s), Applicant shall comply with the approved Agreement(s), and no later than sixty (60) days after such decision, Applicant shall submit a new surface commingling application to OCD to conform this Order with the approved Agreement(s). If Applicant fails to submit the new surface commingling application or OCD denies the new surface commingling application, this Order shall terminate on the date of such action.

Applicant shall allocate the oil and gas production to each lease within a Pooled Area in proportion to the acreage that each lease bears to the entire acreage of the Pooled Area described in Exhibit B until the Proposed Agreement which includes the Pooled Area is approved. After the Proposed Agreement is approved, the oil and gas production from the Pooled Area shall be allocated as required by the BLM's or NMSLO's, as applicable, approval of the Agreement, including any production that had been allocated previously in accordance with this Order.

- 4. The allocation of oil and gas production to wells not included in Exhibit A but that produce from a pool and lease identified in Exhibit A shall be determined in the same manner as to wells identified in Exhibit A that produce from that pool and lease, provided that if more than one allocation method is being used or if there are no wells identified in Exhibit A that produce from the pool and lease, then allocation of oil and gas production to each well not included in Exhibit A shall be determined by OCD prior to commingling production from it with the production from another well.
- 5. The oil and gas production for each well identified in Exhibit A shall be separated and metered prior to commingling it with production from another well.
- 6. Applicant shall measure and market the commingled oil at a central tank battery described in Exhibit A in accordance with this Order and 19.15.18.15. NMAC or 19.15.23.8. NMAC.
- 7. Applicant shall measure and market the commingled gas at a well pad, central delivery point, central tank battery, or gas title transfer meter described in Exhibit A in accordance with this Order and 19.15.19.9. NMAC, provided however that if the gas is vented or flared, and regardless of the reason or authorization pursuant to 19.15.28.8.B. NMAC for such venting or flaring, Applicant shall measure or estimate the gas in accordance with 19.15.28.8.E. NMAC.
- 8. Applicant shall calibrate the meters used to measure or allocate oil and gas production in accordance with 19.15.12.10.C.(2) NMAC.
- 9. If the commingling of oil and gas production from any pool, lease, or well reduces the value of the commingled oil and gas production to less than if it had remained segregated, no later

Order No. PLC-935 Page 3 of 4

than sixty (60) days after the decrease in value has occurred Applicant shall submit a new surface commingling application to OCD to amend this Order to remove the pool, lease, or well whose oil and gas production caused the decrease in value. If Applicant fails to submit a new application, this Order shall terminate on the following day, and if OCD denies the application, this Order shall terminate on the date of such action.

- 10. Applicant may submit an application to amend this Order to add pools, leases, and subsequently drilled wells with spacing units adjacent to or within the tracts commingled by this Order by submitting a Form C-107-B in accordance with 19.15.12.10.C.(4)(g) NMAC, provided the pools, leases, and subsequently drilled wells are within the identified parameters included in the Application.
- 11. If a well is not included in Exhibit A but produces from a pool and lease identified in Exhibit A, then Applicant shall submit Forms C-102 and C-103 to the OCD Engineering Bureau after the well has been approved to be drilled and prior to off-lease measuring or commingling oil or gas production from it with the production from another well. The Form C-103 shall reference this Order and identify the well, proposed method to determine the allocation of oil and gas production to it, and the location(s) that commingling of its production will occur.
- 12. Applicant shall not commence commingling oil or gas production from state, federal, or tribal leases until approved by the BLM or NMSLO, as applicable.
- 13. If OCD determines that Applicant has failed to comply with any provision of this Order, OCD may take any action authorized by the Oil and Gas Act or the New Mexico Administrative Code (NMAC).
- 14. OCD retains jurisdiction of this matter and reserves the right to modify or revoke this Order as it deems necessary.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

DYLANM, FUGE

**DIRECTOR (ACTING)** 

**DATE:** 6/28/2024

Order No. PLC-935 Page 4 of 4

### State of New Mexico Energy, Minerals and Natural Resources Department

## Exhibit A

Order: PLC-935

**Operator: Matador Production Company (228937)** 

Central Tank Battery: Simon Camamile South Tank Battery

Central Tank Battery Location: UL L, Section 2, Township 21 South, Range 28 East Gas Title Transfer Meter Location: UL L, Section 2, Township 21 South, Range 28 East

#### **Pools**

Pool NamePool CodeWC-015 G-05 S202935P; BONE SPRING97995WC BURTON FLAT UPPER WOLFCAMP EAST98315

## Leases as defined in 19.15.12.7(C) NMAC

Leases as defined in 17.1	13.12.7(0) 1111111	
Lease	UL or Q/Q	S-T-R
VB 0183 0003	All	2-21S-28E
NMNM 105679579 (115407)	N/2 S/2	1-21S-28E
NMNM 105381804 (130856)	S/2 S/2	1-21S-28E
NMNM 105417600 (0029588)	SW/4, 11 12 13 14	6-21S-29E
NMNM 105519828 (142221)	3 4 5 6 11 12 13 14	1-21S-28E
NMNM 105680597 (115409)	1 2 7 8 9 10 15 16	1-21S-28E
NMNM 105680600 (115412)	3 4 5 6	6-21S-29E

#### Wells

Well API	Well Name	UL or Q/Q	S-T-R	Pool
	Simon Camamile 0206 Federal Com	N/2 S/2	1-21S-28E	
30-015-53728	#205H	N/2 S/2	2-21S-28E	98315
	#205 <b>H</b>	N/2 SW/4	6-21S-29E	
	Simon Camamile 0206 Federal Com	S/2 S/2	1-21S-28E	
30-015-53729		S/2 S/2	2-21S-28E	98315
	#206H	S/2 SW/4	6-21S-29E	
	Simon Camamile 0206 Federal Com	12345678	1-21S-28E	
30-015-54098		12345678	2-21S-28E	98315
	#201H	3 4 5 6	6-21S-29E	
	Simon Camamile 0206 Federal Com	12345678	1-21S-28E	
30-015-54099		12345678	2-21S-28E	98315
	#202H	3 4 5 6	6-21S-29E	
		9 10 11 12	1-21S-28E	
30-015-54303	Simon Camamile 0206 Federal Com	13 14 15 16	1-215-26E	
		9 10 11 12	2-21S-28E	98315
	#203H	13 14 15 16	2-215-28E	
		11 12 13 14	6-21S-29E	

30-015-54366	Simon Camamile 0206 Federal Com	9 10 11 12	1-21S-28E	
		13 14 15 16	1 210 202	
	#204H	9 10 11 12	2-21S-28E	98315
	#20 <b>4</b> 11	13 14 15 16	2-215-26E	
		11 12 13 14	6-21S-29E	
	Simon Camamile 0206 Federal Com #125H	N/2 S/2	1-21S-28E	
30-015-54312		N/2 S/2	2-21S-28E	97995
		N/2 SW/4	6-21S-29E	
	Simon Camamile 0206 Federal Com	S/2 S/2	1-21S-28E	
30-015-53730	#126H	S/2 S/2	2-21S-28E	97995
		S/2 SW/4	6-21S-29E	

## State of New Mexico Energy, Minerals and Natural Resources Department

# **Exhibit B**

Order: PLC-935

**Operator: Matador Production Company (228937)** 

P	ooled Areas			
Pooled Area	UL or Q/Q	S-T-R	Acres	Pooled Area II
	N/2 S/2	1-21S-28E		
CA Wolfcamp NMNM 106350357	N/2 S/2	2-21S-28E	390.36	A
CA Wolfcamp NMNM 106350357  CA Wolfcamp NMNM 106350358  CA Bone Spring NMNM 106377495	N/2 SW/4	6-21S-29E		
	S/2 S/2	1-21S-28E		
CA Wolfcamp NMNM 106350358	S/2 S/2	2-21S-28E	390.32	В
	S/2 SW/4	6-21S-29E		
	N/2 S/2	1-21S-28E		
CA Bone Spring NMNM 106377495	N/2 S/2	2-21S-28E	390.36	$\mathbf{C}$
	N/2 SW/4	6-21S-29E		
	S/2 S/2	1-21S-28E		
CA Bone Spring NMNM 106377500	S/2 S/2	2-21S-28E	390.32	D
	S/2 SW/4	6-21S-29E		
	12345678	1-21S-28E		
CA Wolfcamp NMNM 106350361	12345678	2-21S-28E	670.38	E
•	3 4 5 6	6-21S-29E		
	9 10 11 12	1 21C 20E		
	13 14 15 16	1-21S-28E		
CA Wolfcamp NMNM 106350011	9 10 11 12	2 210 200	780.84	$\mathbf{F}$
•	13 14 15 16	2-21S-28E		
	11 12 13 14	6-21S-29E		

## **Leases Comprising Pooled Areas**

Lease	UL or Q/Q	S-T-R	Acres	Pooled Area ID
VB 0183 0003	N/2 S/2	2-21S-28E	160	A
NMNM 105679579 (115407)	N/2 S/2	1-21S-28E	160	A
NMNM 105417600 (0029588)	N/2 SW/4	6-21S-29E	70.36	A
VB 0183 0003	S/2 S/2	2-21S-28E	160	В
NMNM 105381804 (130856)	S/2 S/2	1-21S-28E	160	В
NMNM 105417600 (0029588)	S/2 SW/4	6-21S-29E	70.32	В
VB 0183 0003	N/2 S/2	2-21S-28E	160	С
NMNM 105679579 (115407)	N/2 S/2	1-21S-28E	160	С
NMNM 105417600 (0029588)	N/2 SW/4	6-21S-29E	70.36	C
VB 0183 0003	S/2 S/2	2-21S-28E	160	D
NMNM 105381804 (130856)	S/2 S/2	1-21S-28E	160	D
NMNM 105417600 (0029588)	S/2 SW/4	6-21S-29E	70.32	D
VB 0183 0003	12345678	2-21S-28E	268.2	E

NMNM 105519828 (142221)	3 4 5 6	1-21S-28E	134.09	E
NMNM 105680597 (115409)	1278	1-21S-28E	134.31	E
NMNM 105680600 (115412)	3 4 5 6	6-21S-29E	133.78	E
VB 0183 0003	9 10 11 12	2-21S-28E	320	Tr.
V B 0183 0003	13 14 15 16			Г
NMNM 105519828 (142221)	11 12 13 14	1-21S-28E	160	F
NMNM 105680597 (115409)	9 10 15 16	1-21S-28E	160	$\overline{\mathbf{F}}$
NMNM 105417600 (0029588)	11 12 13 14	6-21S-29E	140.84	F

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 335919

#### **CONDITIONS**

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	335919
	Action Type:
	[C-107] Surface Commingle or Off-Lease (C-107B)

#### CONDITIONS

Created By	Condition	Condition Date
dmcclure	Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me.	6/28/2024