<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

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 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

Form C-101 August 1, 2011

Permit 346798

APPLICATION FOR PERMIT TO DRILL	RE-ENTER. DEEPEN	I. PLUGBACK. OR ADD A	ZONE

Operator Name and Address	2. OGRID Number							
MATADOR PRODUCTION COMPANY	228937							
One Lincoln Centre	One Lincoln Centre							
Dallas, TX 75240	Dallas, TX 75240							
4. Property Code	5. Property Name	6. Well No.						
333122	221H							

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	16	22S	28E		855	N	430	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
С	15	22S	28E	С	660	N	2329	W	Eddy

9. Pool Information

98220 PURPLE SAGE;WOLFCAMP (GAS)

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	GAS		State	3085
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	17218	Wolfcamp		5/7/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

■ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	400	380	0
Int1	9.875	7.625	29.7	9172	800	0
Prod	6.75	5.5	20	17218	950	8972

Casing/Cement Program: Additional Comments

Option to drill surface hole with surface setting rig Option to run DV tool and Packer.

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3000	Cameron
Double Ram	10000	5000	Cameron
Pipe	10000	5000	Cameron

knowledge and b	pelief.	is true and complete to the best of my) NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSE	RVATION DIVISION
Printed Name:	Electronically filed by Brett A Je	nnings	Approved By:	Ward Rikala	
Title:	Regulatory Analyst		Title:		
Email Address:	brett.jennings@matadorresoui	ces.com	Approved Date:	8/15/2023	Expiration Date: 8/15/2025
Date:	8/7/2023	Phone: 972-629-2160	Conditions of App	roval Attached	·

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
District IV
1005 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

D

16

22-S

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

AMENDED REPORT

EDDY

WELL LOCATION AND ACREAGE DEDICATION PLAT

i,	API Number	-		² Pool Code		³ Pool Name						
30-	98	3220	F	role	Sage:	Wolfcam.	0 (60	15				
⁴ Property Code ⁵ Property Name						, ,			6V	Vell Number		
333122	BARRY MILLER STATE COM							221H				
⁷ OGRID N	0.				⁸ Operator	Name					⁹ Elevation	
72893	728937 MATADOR PRODUCTION COMPANY							3085				
	¹⁰ Surface Location											
UL or lot no.	Section	ection Township Range Lot Idn Feet from the North/South line Feet from the East/West line					County					

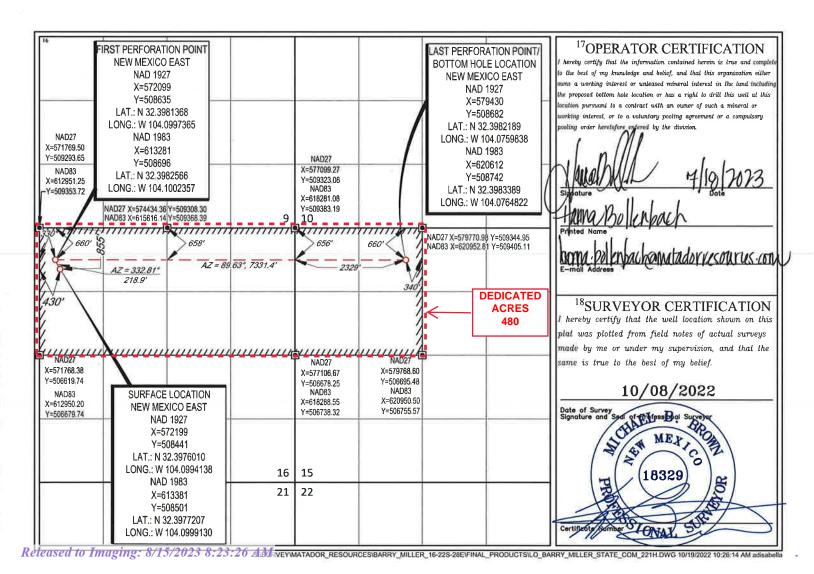
28-E | - | 855' | NORTH |

430

WEST

1172	¹¹ Bottom Hole Location If Different From Surface								
UL or lot no.	Section	Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line Count							County
C	15	22-S	28-E	-	660'	NORTH	2329'	WEST	EDDY
¹² Dedicated Acres 480	¹³ Joint or l	nfill 14Co	onsolidation Co	de ¹⁵ Ord	er No.	*		n.f	

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.



Permit 346798

Form APD Conditions

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MATADOR PRODUCTION COMPANY [228937]	30-015-54056
One Lincoln Centre	Well:
Dallas, TX 75240	BARRY MILLER STATE COM #221H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
ward.rikala	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

Matador Production Company

Rustler Breaks
Barry Miller
Barry Miller State Com #221H

Wellbore #1 BLM Plan #1

Anticollision Report

19 July, 2023

TVD Reference:

MD Reference:

Company: Matador Production Company

Project: Rustler Breaks Reference Site: Barry Miller Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Well Barry Miller State Com #221H KB @ 3113.5usft KB @ 3113.5usft

North Reference: Grid

Minimum Curvature Survey Calculation Method:

Output errors are at 2.00 sigma Database: EDM 5000.14 Server

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: **I**SCWSA

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 7/19/2023 Survey Tool Program

> From То

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

MWD OWSG MWD - Standard 0.0 17,218.0 BLM Plan #1 (Wellbore #1)

ummary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nce Between Ellipses (usft)	Separation Factor	Warning
Barry Miller	(doit)	(uoit)	(ao.t)	(uo.t)		
Barry Miller State Com #121H - Wellbore #1 - Actual	1,224,5	1,229,2	71.5	63.2	8.679	CC, ES, SF
Barry Miller State Com #121H - Wellbore #1 - Altitude Pl	7,495.1	7,491.8	74.8	20.6		Level 3, CC
Barry Miller State Com #121H - Wellbore #1 - Altitude Pl	7,500.0	7,496.7	74.8	20.6		Level 3, ES, SF
Barry Miller State Com #122H - Wellbore #1 - Actual	1,068.6	1,068.1	87.9	80.8	12.410	, ,
Barry Miller State Com #122H - Wellbore #1 - Actual	17,218.0	15,426.4	2,310.6	2,076.9	9.889	
Barry Miller State Com #122H - Wellbore #1 - Altitude Pl	1,000.0	999.0	114.3	107.6	17.052	CC
Barry Miller State Com #122H - Wellbore #1 - Altitude Pl	1,100.0	1,097.4	115.0	107.6	15.542	ES
Barry Miller State Com #122H - Wellbore #1 - Altitude Pl	17,218.7	15,513.6	2,328.4	2,093.5	9.913	SF
Barry Miller State Com #135H - Wellbore #1 - State Plan	1,536.9	1,536.6	17.7	7.3	1.697	CC, ES
Barry Miller State Com #135H - Wellbore #1 - State Plan	1,600.0	1,599.3	18.5	7.6	1.696	SF
Barry Miller State Com #136H - Wellbore #1 - State Plan	1,500.0	1,501.0	42.4	32.1	4.120	CC
Barry Miller State Com #136H - Wellbore #1 - State Plan	1,600.0	1,601.0	42.7	31.7	3.879	ES
Barry Miller State Com #136H - Wellbore #1 - State Plan	1,800.0	1,801.1	45.5	33.1	3.663	SF
Barry Miller State Com #201H - Wellbore #1 - State Plan	1,897.2	1,902.1	39.4	26.3	2.995	CC
Barry Miller State Com #201H - Wellbore #1 - State Plan	1,900.0	1,904.8	39.4	26.3	2.991	ES
Barry Miller State Com #201H - Wellbore #1 - State Plan	2,000.0	2,004.7	40.7	26.8	2.925	SF
Barry Miller State Com #202H - Wellbore #1 - State Plan	0.0	0.0	85.7			
Barry Miller State Com #202H - Wellbore #1 - State Plan	17,218.0	16,711.6	1,145.7	819.5	3.512	SF
Barry Miller State Com #222H - Wellbore #1 - BLM Plan	1,516.9	1,517.2	28.3	17.9	2.734	CC, ES
Barry Miller State Com #222H - Wellbore #1 - BLM Plan	1,600.0	1,600.1	29.3	18.4	2.686	SF

Offset Des	sign	Barry M	iller - Bar	ry Miller Sta	te Com #	121H - Wel	Ibore #1 - Actu	ıal					Offset Site Error:	0.0 usft
Survey Progr	ram: 163-	-MWD											Offset Well Error:	0.0 usft
Refere	ence	Offse	et	Semi Major	Axis				Dista	ance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	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	0.0	0.0	0.0	0.0	179.87	-110.2	0.2	110.2					
100.0	100.0	99.3	99.3	0.1	0.1	179.90	-110.1	0.2	110.1	109.8	0.28	399.505		
200.0	200.0	199.5	199.5	0.5	0.4	179.98	-109.7	0.0	109.7	108.9	0.86	127.775		
300.0	300.0	300.1	300.1	0.8	0.7	-179.84	-109.1	-0.3	109.1	107.5	1.58	69.100		
400.0	400.0	401.4	401.4	1.2	1.1	-179.26	-107.4	-1.4	107.5	105.2	2.30	46.660		
500.0	500.0	502.4	502.3	1.6	1.5	-178.42	-104.6	-2.9	104.7	101.6	3.03	34.589		
600.0	600.0	602.3	602.2	1.9	1.8	-177.35	-101.4	-4.7	101.5	97.8	3.74	27.127		
700.0	700.0	702.5	702.2	2.3	2.2	-176.19	-98.0	-6.5	98.3	93.8	4.46	22.036		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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 Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

2.00 sigma EDM 5000.14 Server

	ram: 160	-M/A/D											Off 4 184	0.0
urvey Prog Refer		-MWD Offse	et	Semi Major	Axis				Dista	ince			Offset Well Error:	0.0 us
leasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor		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		
800.0	800.0	803.1	802.8	2.6	2.5	-174.91	-94.4	-8.4	94.8	89.6	5.18	18.298		
900.0	900.0	904.1	903.7	3.0	2.9	-173.48	-89.5	-10.2	90.2	84.3	5.91	15.267		
1,000.0	1,000.0	1,004.4	1,003.8	3.4	3.3	-172.02	-83.7	-11.7	84.7	78.1	6.62	12.783		
1,100.0	1,100.0	1,104.3	1,103.5	3.7	3.6	-170.74	- 77.8	-12.7	79.0	71.7	7.34	10.759		
1,200.0	1,200.0	1,204.6	1,203.6	4.1	4.0	-169.50	-71.7	-13.3	73.1	65.0	8.06	9.063		
1,224.5	1,224.5	1,229.2	1,228.1	4.2	4.1	-169.26	-70.1	-13.3	71.5	63.2	8.24	8.679 C	C, ES, SF	
1,300.0	1,300.0	1,220.0	1,219.0	4.4	4.1	-169.35	-70.7	-13.3	107.6	100.3	7.29	14.766		
1,400.0	1,400.0	1,220.0	1,219.0	4.8	4.1	-169.35	-70.7	-13.3	193.9	187.3	6.57	29.499		
1,500.0	1,500.0	1,220.0	1,219.0	5.1	4.1	-169.35	-70.7	-13.3	289.1	282.8	6.31	45.782		
1,600.0	1,600.0	1,220.0	1,219.0	5.5	4.1	-101.90	- 70.7	-13.3	386.8	380.6	6.17	62,660		
1,700.0	1,700.0	1,220.0	1,219.0	5.9	4.1	- 95.81	- 70.7	-13.3	485.5	479.4	6.07	79.957		
1,800.0	1,799.9	1,220.0	1,219.0	6.2	4.1	-88.14	- 70.7	-13.3	584.6	578.7	5.99	97,615		
1,900.0	1,899.7	1,220.0	1,219.0	6.6	4.1	-79.14	-70.7	-13.3	684.0	678.1	5.92	115.597		
2,000.0	1,999.4	1,220.0	1,219.0	6.9	4.1	-69.36	-70.7	-13.3	783.6	777.7	5.85	133.864		
2,100.0	2,098.9	1,220.0	1,219.0	7.3	4.1	-59.61	-70.7	-13.3	883.1	877.3	5.80	152.380		
2,200.0	2,198.3	1,220.0	1,219.0	7.6	4.1	-50.60	-70.7	-13.3	982.7	977.0	5.74	171.100		
2,300.0	2,297.4	1,220.0	1,219.0	8.0	4.1	-42.76	-70.7	-13.3	1,082.3	1,076.6	5.70	189.976		
2,400.0	2,396.4	1,220.0	1,219.0	8.4	4.1	-42.76	-70.7	-13.3	1,181.9	1,176.2	5.66	208.939		
2,500.0	2,495.5	1,220.0	1,219.0	8.8	4.1	-42.76	-70.7	-13.3	1,281.6	1,275.9	5.62	227,955		
2,600.0	2,594.5	1,220.0	1,219.0	9.2	4.1	-42.76	-70.7	-13.3	1,381.3	1,375.7	5.59	247.003		
2,700.0	2,693.5	1,220.0	1,219.0	9.5	4.1	-42.76	-70.7	-13.3	1,481.0	1,475.4	5.57	266.024		
2,800.0	2,792.5	1,220.0	1,219.0	9.9	4.1	-42.76	- 70.7	-13.3	1,580.8	1,575.2	5.55	284.949		
2,900.0	2,891.6	1,220.0	1,219.0	10.3	4.1	-42.76	-70.7	-13.3	1,680.6	1,675.1	5.53	303.712		
3,000.0	2,990.6	1,220.0	1,219.0	10.7	4.1	-42.76	-70.7	-13.3	1,780.4	1,774.9	5.53	322.238		
3,100.0	3,089.6	1,220.0	1,219.0	11.1	4.1	-42.76	-70.7	-13.3	1,880.3	1,874.7	5.52	340.457		
3,200.0	3,188.6	1,220.0	1,219.0	11.5	4.1	-42.76	-70.7	-13.3	1,980.1	1,974.6	5,53	358,296		
3,300.0	3,287.7	1,220.0	1,219.0	11.9	4.1	-42.76	-70.7	-13.3	2,080.0	2,074.5	5.54	375,685		
3,400.0	3,386.7	1,220.0	1,219.0	12.3	4.1	-42.76	-70.7	-13.3	2,179.9	2,174.3	5.55	392.560		
3,500.0	3,485.7	1,220.0	1,219.0	12.7	4.1	-42.76	- 70.7	-13.3	2,279.8	2,274.2	5.58	408.861		
3,600.0	3,584.8	1,220.0	1,219.0	13.1	4.1	-42.76	- 70.7	-13.3	2,379.7	2,374.1	5.61	424.536		
3,700.0	3,683.8	1,220.0	1,219.0	13.5	4.1	- 42.76	-70.7	-13.3	2,479.6	2,474.0	5.64	439.542		
3,800.0	3,782.8	1,220.0	1,219.0	13.9	4.1	-42.76	-70.7	-13.3	2,579.5	2,573.8	5.68	453.843		
3,900.0	3,881.8	1,220.0	1,219.0	14.4	4.1	-42.76	-70.7	-13.3	2,679.4	2,673.7	5.73	467.413		
4,000.0	3,980.9	1,220.0	1,219.0	14.8	4.1	-42.76	-70.7	-13.3	2,779.4	2,773.6	5.79	480.236		
4,100.0	4,079.9	1,220.0	1,219.0	15.2	4.1	-42.76	-70.7	-13.3	2,879.3	2,873.5	5.85	492.302		
4,200.0	4,178.9	1,220.0	1,219.0	15.6	4.1	-42.76	-70.7	-13.3	2,979.3	2,973.3	5.92	503.612		
4,300.0	4,277.9	1,220.0	1,219.0	16.0	4.1	-42.76	- 70.7	-13.3	3,079.2	3,073.2	5.99	514.171		
4,400.0	4,377.0	1,220.0	1,219.0	16.4	4.1	-42.76	-70.7	-13.3	3,179.1	3,173.1	6.07	523.992		
4,500.0	4,476.0	1,220.0	1,219.0	16.8	4.1	-42.76	-70.7	-13.3	3,279.1	3,272.9	6.15	533.093		
4,600.0	4,575.0	1,220.0	1,219.0	17.2	4.1	-42.76	-70.7	-13.3	3,379.0	3,372.8	6.24	541.493		
4,698.1	4,672.2	1,220.0	1,219.0	17.6	4.1	-42 .76	- 70.7	-13.3	3,477.1	3,470.8	6.33	549.078		
4,700.0	4,674.0	1,220.0	1,219.0	17.6	4.1	-43.43	- 70.7	-13.3	3,479.0	3,472.7	6.33	549.218		
4,800.0	4,773.3	1,220.0	1,219.0	18.0	4.1	-105.76	-70.7	-13.3	3,579.0	3,572.5	6.43	556,318		
4,900.0	4,872.7	1,220.0	1,219.0	18.4	4.1	-148.91	-70.7	-13.3	3,678.9	3,672.4	6.54	562.885		
5,000.0	4,972.5	1,220.0	1,219.0	18.8	4.1	-161.97	-70.7	-13.3	3,778.8	3,772.2	6.64	568.982		
5,100.0	5,072.4	1,220.0	1,219.0	19.2	4.1	-167.53	- 70.7	-13.3	3,878.6	3,871.8	6.75	574.610		
5,200.0	5,172.3	1,220.0	1,219.0	19.5	4.1	-170.55	-70.7	-13.3	3,978.1	3,971.3	6.86	579.772		
5,231.4	5,203.8	1,220.0	1,219.0	19.6	4.1	125.82	-70.7	-13.3	4,009.4	4,002.5	6.90	581,398		
5,300.0	5,272.3	1,220.0	1,219.0	19.8	4.1	125.82	-70.7	- 13.3	4,077.5	4,070.5	6.98	584.394		
5,400.0	5,372.3	1,220.0	1,219.0	20.2	4.1	125.82	-70.7	-13.3	4,176.9	4,169.8	7.10	588.271		
5,500.0	5,472.3	1,220.0	1,219.0	20.5	4.1	125.82	- 70.7	-13.3	4,276.3	4,269.1	7.23	591.683		
5,600.0	5,572.3	1,220.0	1,219.0	20.8	4.1	125.82	- 70.7	-13.3	4,375.8	4,368.4	7.36	594.656		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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 Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

2.00 sigma EDM 5000.14 Server

Offset Des		Barry Mi	iller - Bar	ry Miller Sta	ite Com #	121H - Well	lbore #1 - Actu	al					Offset Site Error:	0.0 usft
Refere		Offse	t	Semi Major	Axis				Dista	ince			Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	Offset Wellbore +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,700.0	5,672.3	1,220.0	1,219.0	21.2	4.1	125.82	-70.7	-13.3	4,475.3	4,467.8	7.49	597.219		
5,800.0	5,772.3	1,220.0	1,219.0	21.5	4.1	125.82	-70.7	-13.3	4,574.8	4,567.1	7.63	599.397		
5,900.0	5,872.3	1,220.0	1,219.0	21.8	4.1	125.82	-70.7	-13.3	4,674.3	4,666.5	7.77	601.214		
6,000.0	5,972.3	1,220.0	1,219.0	22.2	4.1	125.82	-70.7	-13.3	4,773.8	4,765.9	7.92	602,694		
6,100.0	6,072.3	1,220.0	1,219.0	22.5	4.1	125.82	-70.7	-13.3	4,873.4	4,865.3	8.07	603.859		
6,200.0	6,172.3	1,220.0	1,219.0	22.9	4.1	125.82	-70.7	-13.3	4,973.0	4,964.7	8.22	604.730		
6,300.0	6,272.3	1,220.0	1,219.0	23.2	4.1	125.82	-70.7	-13.3	5,072.6	5,064.2	8.38	605.326		
6,400.0 6,500.0	6,372.3 6,472.3	1,220.0 1,220.0	1,219.0 1,219.0	23.5 23.9	4.1 4.1	125.82 125.82	-70.7 -70.7	-13.3 -13.3	5,172.2 5,271.8	5,163.6 5,263.1	8.54 8.70	605.664 605.764		
6,600.0	6,572.3	1,220.0	1,219.0	24.2	4.1	125.82	-70.7	-13.3	5,371.4	5,362.6	8.87	605.640		
6,700.0	6,672.3	1,220.0	1,219.0	24.2	4.1	125.82	-70.7 -70.7	-13.3	5,471.1	5,462.0	9.04	605.307		
6,800.0	6,772.3	1,220.0	1,219.0	24.9	4.1	125.82	-70.7	-13.3	5,570.7	5,561.5	9.21	604.781		
6,900.0	6,872.3	1,220.0	1,219.0	25.2	4.1	125.82	-70.7	-13.3	5,670.4	5,661.0	9.39	604.073		
7,000.0	6,972.3	1,220.0	1,219.0	25.6	4.1	125.82	-70.7	-13.3	5,770.1	5,760.5	9.57	603.198		
7,100.0	7,072.3	1,220.0	1,219.0	25.9	4.1	125.82	-70.7	-13.3	5,869.8	5,860.1	9.75	602.166		
7,200.0	7,172.3	1,220.0	1,219.0	26.3	4.1	125.82	-70.7	-13.3	5,969.5	5,959.6	9.93	600.988		
7,300.0	7,272.3	1,220.0	1,219.0	26.6	4.1	125.82	-70.7	-13.3	6,069.2	6,059.1	10.12	599.674		
7,400.0	7,372.3	1,220.0	1,219.0	27.0	4.1	125.82	-70.7	-13.3	6,169.0	6,158.6	10.31	598.235		
7,500.0	7,472.3	1,220.0	1,219.0	27.3	4.1	125.82	- 70.7	-13.3	6,268.7	6,258.2	10.51	596,678		
7,600.0	7,572.3	1,220.0	1,219.0	27.7	4.1	125.82	- 70.7	-13.3	6,368.4	6,357.7	10.70	595.014		
7,700.0	7,672.3	1,220.0	1,219.0	28.0	4.1	125.82	-70.7	-13.3	6,468.2	6,457.3	10.90	593.249		
7,800.0	7,772.3	1,220.0	1,219.0	28.3	4.1	125.82	-70.7	-13.3	6,567.9	6,556.8	11.11	591.390		
7,900.0	7,872.3	1,220.0	1,219.0	28.7	4.1	125.82	-70.7	-13.3	6,667.7	6,656.4	11.31	589.446		
8,000.0	7,972.3	1,220.0	1,219.0	29.0	4.1	125.82	-70.7	-13.3	6,767.5	6,756.0	11.52	587.422		
8,100.0	8,072.3	1,220.0	1,219.0	29.4	4.1	125.82	- 70.7	-13.3	6,867.3	6,855.5	11.73	585.325		
8,200.0	8,172.3	1,220.0	1,219.0	29.7	4.1	125.82	-70.7	-13.3	6,967.0	6,955.1	11.95	583,160		
8,300.0	8,272.3	1,220.0	1,219.0	30.1	4.1	125.82	- 70.7	-13.3	7,066.8	7,054.7	12.16	580,932		
8,400.0	8,372.3	1,220.0	1,219.0	30.4	4.1	125.82	- 70.7	-13.3	7,166.6	7,154.2	12.39	578.648		
8,500.0	8,472.3	1,220.0	1,219.0	30.8	4.1	125.82	-70.7	-13.3	7,266.4	7,253.8	12.61	576.311		
8,600.0	8,572.3	1,220.0	1,219.0	31.1	4.1	125.82	-70.7	-13.3	7,366.2	7,353.4	12.83	573.926		
8,700.0	8,672.3	1,220.0	1,219.0	31.5	4.1	125.82	-70.7	-13.3	7,466.1	7,453.0	13.06	571.497		
8,800.0	8,772.3	1,220.0	1,219.0	31.8	4.1	125.82	-70.7	-13.3	7,565.9	7,552.6	13.30	569.028		
8,900.0 9,000.0	8,872.3	1,220.0	1,219.0	32.2	4.1	125.82	-70.7 -70.7	-13.3	7,665.7	7,652.2	13.53	566,524 563,986		
9,000.0	8,972.3 9,072.3	1,220.0 1,220.0	1,219.0 1,219.0	32.5 32.9	4.1 4.1	125.82 125.82	-70.7 -70.7	-13.3 -13.3	7,765.5 7,865.4	7,751.8 7,851.4	13.77 14.01	561.419		
9,200.0	9,172.3	1,220.0	1,219.0	33.2	4.1	125.82	-70.7	-13.3	7,965.2	7,950.9	14.25	558.826		
9,272.2	9,244.5	1,220.0	1,219.0	33.5	4.1	125.82	-70.7	-13.3	8,037.3	8,022.8	14.43	556.940		
9,300.0	9,272.3	1,220.0	1,219.0	33.6	4.1	19.39	- 70.7	-13.3	8,065.0	8,050.5	14.50	556.241		
9,350.0	9,322.1	1,220.0	1,219.0	33.7	4.1	10.36	-70.7	-13.3	8,114.5	8,099.9	14.62	555.070		
9,400.0	9,371.3	1,220.0	1,219.0	33.9	4.1	7.06	-70.7	-13.3	8,163.2	8,148.5	14.73	554,042		
9,450.0	9,419.5	1,220.0	1,219.0	34.0	4.1	5,38	-70.7	-13.3	8,210.8	8,196.0	14.84	553,142		
9,500.0	9,466.4	1,220.0	1,219.0	34.1	4.1	4.36	- 70.7	-13.3	8,256.9	8,242.0	14.95	552.355		
9,550.0	9,511.6	1,220.0	1,219.0	34.2	4.1	3.68	-70.7	-13.3	8,301.3	8,286.2	15.05	551,660		
9,600.0	9,554.7	1,220.0	1,219.0	34.4	4.1	3.21	- 70.7	-13.3	8,343.5	8,328.4	15.14	551.024		
9,650.0	9,595.5	1,220.0	1,219.0	34.5	4.1	2.86	- 70.7	-13.3	8,383.4	8,368.1	15.23	550.404		
9,700.0	9,633.7	1,220.0	1,219.0	34.6	4.1	2.59	-70.7	-13.3	8,420.6	8,405.3	15.32	549.745		
9,750.0	9,668.8	1,220.0	1,219.0	34.7	4.1	2.39	- 70.7	-13.3	8,454.9	8,439.5	15.40	548.981		
9,800.0	9,700.8	1,220.0	1,219.0	34.8	4.1	2.23	-70.7	-13.3	8,486.1	8,470.6	15.48	548.036		
9,850.0	9,729.2	1,220.0	1,219.0	35.0	4.1	2.10	- 70.7	-13.3	8,514.0	8,498.4	15.57	546.834		
9,900.0	9,754.0	1,220.0	1,219.0	35.1	4.1	2.00	-70.7	-13.3	8,538.4 8,550.1	8,522.7	15.66 15.75	545.295		
9,950.0	9,774.9	1,220.0	1,219.0	35.3	4.1	1.92	-70.7	-13.3	8,559.1	8,543.3	15.75	543.345		
10,000.0	9,791.8	1,220.0	1,219.0	35.5	4.1	1.86	-70.7	-13.3	8,576.0	8,560.2	15.85	540.921		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

North Reference: Grid
Survey Calculation Method: Minimum Curvature

Well Barry Miller State Com #221H

KB @ 3113.5usft

KB @ 3113.5usft

Output errors are at 2.00 sigma

Database: EDM 5000.14 Server

Offset Des	sign	Barry M	iller - Bar	ry Miller Sta	ite Com #	£121H - Well	bore #1 - Actu	al					Offset Site Error:	0.0 usf
Survey Progr Refere		-MWD Offse	st.	Semi Major	Δvis				Dista	ince			Offset Well Error:	0.0 usf
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore	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		
10,050.0	9,804.5	1,220.0	1,219.0	35.8	4.1	1.82	-70.7	-13.3	8,589.0	8,573.1	15.97	537.979		
10,100.0	9,812.9	1,220.0	1,219.0	36.0	4.1	1.79	-70.7	-13.3	8,598.1	8,582.0	16.09	534.494		
10,125.2	9,815.5	1,220.0	1,219.0	36.2	4.1	1.78	-70.7	-13.3	8,601.2	8,585.0	16.15	532.565		
10,200.0	9,820.7	1,220.0	1,219.0	36.7	4.1	1.77	-70.7	-13.3	8,608.0	8,591.7	16.37	525,981		
10,225.5	9,822.0	1,220.0	1,219.0	36.9	4.1	1.77	-70.7	-13.3	8,610.1	8,593.6	16.45	523.566		
10,300.0	9,825.5	1,220.0	1,219.0	37.5	4.1	1.77	- 70.7	-13.3	8,616.2	8,599.5	16.70	516.011		
10,400.0	9,830.2	1,220.0	1,219.0	38.4	4.1	1.77	-70.7	-13.3	8,625.3	8,608.2	17.08	505.022		
10,500.0	9,834.9	1,220.0	1,219.0	39.4	4.1	1.77	- 70.7	-13.3	8,635.6	8,618.1	17.51	493.321		
10,600.0	9,839.7	1,220.0	1,219.0	40.6	4.1	1.77	-70.7	-13.3	8,647.1	8,629.1	17.97	481.166		
10,700.0	9,844.4	1,220.0	1,219.0	41.9	4.1	1.77	- 70.7	-13.3	8,659.7	8,641.2	18.47	468.779		
10,800.0	9,849.1	1,220.0	1,219.0	43.3	4.1	1.77	- 70.7	-13.3	8,673.5	8,654.4	19.01	456.346		
10,900.0	9,853.8	1,220.0	1,219.0	44.7	4.1	1.77	-70.7	-13.3	8,688.3	8,668.8	19.57	444.018		
11,000.0	9,858.5	1,220.0	1,219.0	46.3	4.1	1.77	- 70.7	-13.3	8,704.3	8,684.2	20.15	431.913		
11,100.0	9,863.2	1,220.0	1,219.0	47.9	4.1	1.77	- 70.7	-13.3	8,721.4	8,700.7	20.76	420.119		
11,200.0	9,867.9	1,220.0	1,219.0	49.6	4.1	1.77	- 70.7	-13.3	8,739.6	8,718.3	21.38	408.700		
11,300.0	9,872.6	1,220.0	1,219.0	51.4	4.1	1.77	-70.7	-13.3	8,759.0	8,736.9	22.02	397.699		
11,400.0	9,877.3	1,220.0	1,219.0	53.2	4.1	1.77	-70.7	-13.3	8,779.4	8,756.7	22.68	387.145		
11,500.0	9,882.1	1,220.0	1,219.0	55.1	4.1	1.77	-70.7	-13.3	8,800.9	8,777.6	23.34	377.050		
11,600.0	9,886.8	1,220.0	1,219.0	57.0	4.1	1.77	-70.7	-13.3	8,823.5	8,799.5	24.01	367.420		
11,700.0	9,891.5	1,220.0	1,219.0	58.9	4.1	1.77	-70.7	-13.3	8,847.1	8,822.4	24.70	358.252		
11,800.0	9,896.2	1,220.0	1,219.0	60.9	4.1	1.77	-70.7	-13.3	8,871.9	8,846.5	25.38	349.537		
11,900.0	9,900.9	1,220.0	1,219.0	63.0	4.1	1.77	-70.7	-13.3	8,897.7	8,871.6	26.07	341.263		
12,000.0	9,905.6	1,220.0	1,219.0	65.0	4.1	1.77	-70.7	-13.3	8,924.5	8,897.7	26.77	333.415		
12,100.0	9,910.3	1,220.0	1,219.0	67.1	4.1	1.77	-70.7	-13.3	8,952.3	8,924.9	27.46	325.976		
12,200.0	9,915.0	1,220.0	1,219.0	69.2	4.1	1.77	-70.7	-13.3	8,981.2	8,953.1	28.16	318.928		
12,300.0	9,919.8	1,220.0	1,219.0	71.3	4.1	1.77	-70.7	-13.3	9,011.1	8,982.3	28.86	312,254		
12,400.0	9,924.5	1,220.0	1,219.0	73.5	4.1	1.77	-70.7	-13.3	9,042.1	9,012.5	29.56	305.934		
12,500.0	9,929.2	1,220.0	1,219.0	75.6	4.1	1.77	- 70.7	-13.3	9,074.0	9,043.7	30.25	299.952		
12,600.0	9,933.9	1,220.0	1,219.0	77.8	4.1	1.77	-70.7	-13.3	9,106.9	9,075.9	30.95	294.289		
12,700.0	9,938.6	1,220.0	1,219.0	80.0	4.1	1.77	-70.7	-13.3	9,140.7	9,109.1	31.64	288.928		
12,800.0	9,943.3	1,220.0	1,219.0	82.2	4.1	1.77	-70.7	-13.3	9,175.6	9,143.3	32.33	283.853		
12,900.0	9,948.0	1,220.0	1,219.0	84.4	4.1	1.77	-70.7	-13.3	9,211.4	9,178.4	33.01	279.048		
13,000.0	9,952.7	1,220.0	1,219.0	86.7	4.1	1.77	-70.7	-13.3	9,248.1	9,214.4	33.69	274.500		
13,100.0	9,957.5	1,220.0	1,219.0	88.9	4.1	1.77	-70.7	-13.3	9,285.8	9,251.4	34.37	270,193		
13,200.0	9,962.2	1,220.0	1,219.0	91.2	4.1	1.77	-70.7	-13.3	9,324.4	9,289.3	35.04	266.114		
13,300.0	9,966.9	1,220.0	1,219.0	93.4	4.1	1.77	-70.7	-13.3	9,363.9	9,328.2	35.71	262.251		
13,400.0	9,971.6	1,220.0	1,219.0	95.7	4.1	1.77	-70.7	-13.3	9,404.3	9,367.9	36.37	258.592		
13,500.0	9,976.3	1,220.0	1,219.0	98.0	4.1	1.77	- 70.7	-13.3	9,445.5	9,408.5	37.02	255.127		
13,600.0	9,981.0	1,220.0	1,219.0	100.3	4.1	1.77	-70.7	-13.3	9,487.7	9,450.0	37.67	251.844		
13,700.0	9,985.7	1,220.0	1,219.0	102.6	4.1	1.77	- 70.7	-13.3	9,530.7	9,492.4	38.32	248.734		
13,800.0	9,990.4	1,220.0	1,219.0	104.9	4.1	1.77	-70.7	-13.3	9,574.6	9,535.6	38.95	245.787		
13,900.0	9,995.2	1,220.0	1,219.0	107.2	4.1	1.77	-70.7	-13.3	9,619.3	9,579.7	39.59	242.996		
14,000.0	9,999.9	1,220.0	1,219.0	109.5	4.1	1.77	-70.7	-13.3	9,664.8	9,624.6	40.21	240,352		
14,100.0	10,004.6	1,220.0	1,219.0	111.9	4.1	1.77	-70.7	-13.3	9,711.2	9,670.4	40.83	237.847		
14,200.0	10,009.3	1,220.0	1,219.0	114.2	4.1	1.77	-70.7	-13.3	9,758.3	9,716.9	41.44	235.474		
14,300.0	10,014.0	1,220.0	1,219.0	116.5	4.1	1.77	-70.7	-13.3	9,806.3	9,764.2	42.05	233,227		
14,400.0	10,018.7	1,220.0	1,219.0	118.9	4.1	1.77	-70.7	-13.3	9,855.0	9,812.4	42.64	231.099		
14,500.0	10,018.7	1,220.0	1,219.0	121.2	4.1	1.77	-70.7 -70.7	-13.3	9,904.5	9,861.3	43.24	229.084		
	10,020.4	1,220.0	1,210.0	121.2	7.1	1.77	-10.1	-10.0	5,504.5	5,001.3	40.24	220.004		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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 Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

2.00 sigma EDM 5000.14 Server

Offset Des	_		liller - Bar	ry Miller Sta	ite Com #	121H - Well	lbore #1 - Altitu	ıde Plan #1					Offset Site Error:	0.0 usft
Survey Progr Refere		Offse	et	Semi Major	Axis				Dista	ınce			Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	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	179.87	-110.2	0.2	110.2					
100.0	100.0	101.0	99.0	0.1	0.1	179.87	-110.2	0.2	110.2	110.0	0.26	424.175		
200.0	200.0	201.0	199.0	0.5	0.5	179.87	-110.2	0.2	110.2	109.3	0.98	112.854		
300.0	300.0	301.0	299.0	0.8	0.8	179.87	-110.2	0.2	110.2	108.5	1.69	65,085		
400.0	400.0	401.0	399.0	1.2	1.2	179.87	-110.2	0.2	110.2	107.8	2.41	45.729		
500.0	500.0	501.0	499.0	1.6	1.6	179.87	-110.2	0.2	110.2	107.1	3.13	35.247		
600.0	600.0	601.0	599.0	1.9	1.9	179.87	-110.2	0.2	110.2	106.4	3.84	28.674		
700.0	700.0	701.0	699.0	2.3	2.3	179.87	-110.2	0.2	110.2	105.7	4.56	24.167		
800.0	0.008	801.0	799.0	2.6	2.6	179.87	-110.2	0.2	110.2	105.0	5.28	20.885		
900.0	900.0	901.0	899.0	3.0	3.0	179.87	-110.2	0.2	110.2	104.2	6.00	18.387		
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	179.87	-110.2	0.2	110.2	103.5	6.71	16.423		
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	179.87	-110.2	0.2	110.2	102.8	7.43	14.838		
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	179.87	-110.2	0.2	110.2	102.1	8.15	13.533		
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	179.87	-110.2	0.2	110.2	101.4	8.86	12.438		
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	179.87	-110.2	0.2	110.2	100.7	9.58	11.507		
1,500.0	1,500.0	1,501.0	1,499.0	5.1	5.2	179.87	-110.2	0.2	110.2	99.9	10.30	10.706		
1,600.0	1,600.0	1,601.0	1,599.0	5.5	5.5	-117.57	-110.2	0.2	110.6	99.6	11.01	10.050		
1,700.0	1,700.0	1,699.0	1,699.0	5.9	5.9	-118.75	-110.2	0.2	111.9	100.2	11.71	9.553		
1,800.0	1,799.9	1,800.0	1,800.0	6.2	6.2	-120.31	-109.8	-0.5	113.6	101.1	12.42	9,142		
1,900.0	1,899.7	1,901.1	1,901.0	6.6	6.6	-121.86	-108.4	- 2.8	115.2	102.1	13.13	8.775		
2,000.0	1,999.4	2,002.2	2,002.1	6.9	6.9	-123.39	-106.1	-6.6	116.8	103.0	13.84	8.441		
2,100.0	2,098.9	2,103.5	2,103.1	7.3	7.3	-124.91	-102.9	-11.9	118.4	103.8	14.55	8.136		
2,200.0	2,198.3	2,204.8	2,204.1	7.6	7.7	-126.41	-98.8	-18.8	119.9	104.7	15.27	7.856		
2,300.0	2,297.4	2,306.1	2,305.0	8.0	8.0	-127.91	-93.7	-27.2	121.5	105.5	15.99	7.598		
2,400.0	2,396.4	2,407.1	2,405.3	8.4	8.4	-129.11	-87.8	-37.0	122.5	105.8	16.71	7.328		
2,500.0	2,495.5	2,507.1	2,504.6	8.8	8.8	-130.14	- 81.7	-47.1	123.2	105.8	17.45	7.062		
2,600.0	2,594.5	2,607.0	2,603.9	9.2	9.1	-131.15	- 75.6	-57.2	124.0	105.8	18.18	6.818		
2,700.0	2,693.5	2,707.0	2,703.1	9.5	9.5	-132.15	-69.5	-67.3	124.8	105.9	18.93	6.595		
2,800.0	2,792.5	2,807.0	2,802.4	9.9	9.9	-133.13	-63.4	-77.4	125.7	106.0	19.67	6.390		
2,900.0	2,891.6	2,907.0	2,901.7	10.3	10.3	-134.11	-57.4	-87.5	126.6	106.2	20.41	6.201		
3,000.0	2,990.6	3,006.9	3,001.0	10.7	10.6	-135.06	-51.3	-97.6	127.5	106.3	21.16	6.027		
3,100.0	3,089.6	3,106.9	3,100.2	11.1	11.0	-136.01	-45.2	-107.7	128.5	106.6	21.90	5.866		
3,200.0	3,188.6	3,206.9	3,199.5	11.5	11.4	-136.94	-39.1	-117.8	129.5	106.8	22.65	5.717		
3,300.0	3,287.7	3,306.8	3,298.8	11.9	11.8	-137.85	-33.0	-127.9	130.5	107.1	23,39	5,579		
3,400.0	3,386.7	3,406.8	3,398.1	12.3	12.2	-138.75	-26.9	-138.0	131.6	107.4	24.14	5.451		
3,500.0	3,485.7	3,506.8	3,497.3	12.7	12.6	-139.64	-20.8	-148.1	132.7	107.8	24.88	5.332		
3,600.0	3,584.8	3,606.8	3,596.6	13.1	12.9	-140.51	-14.7	-158.2	133.8	108.2	25.63	5.221		
3,700.0	3,683.8	3,706.7	3,695.9	13.5	13.3	-141.37	-8.7	-168.3	135.0	108.6	26.37	5.118		
3,800.0	3,782.8	3,806.7	3,795.2	13.9	13.7	-142.21	-2.6	-178.4	136.1	109.0	27.11	5.021		
3,900.0	3,881.8	3,906.7	3,894.4	14.4	14.1	-143.04	3.5	-188.5	137.4	109.5	27.86	4.931		
4,000.0	3,980.9	4,006.7	3,993.7	14.8	14.5	-143.85	9.6	-198.6	138.6	110.0	28.60	4.847		
4,100.0	4,079.9	4,106.6	4,093.0	15.2	14.9	-144.65	15.7	-208.7	139.9	110.5	29.34	4.768		
4,200.0	4,178.9	4,206.6	4,192.3	15.6	15.3	-145.43	21.8	-218.8	141.2	111.1	30.08	4.694		
4,300.0	4,277.9	4,306.6	4,291.5	16.0	15.7	-146.20	27.9	-228.9	142.5	111.7	30.82	4.624		
4,400.0	4,377.0	4,406.5	4,390.8	16.4	16.1	-146.95	34.0	-239.0	143.9	112.3	31.56	4.559		
4,500.0	4,476.0	4,506.5	4,490.1	16.8	16.5	-147.69	40.0	-249.1	145.2	112.9	32.30	4.497		
4,600.0	4,575.0	4,606.5	4,589.4	17.2	16.9	-148.42	46.1	-259.2	146.6	113.6	33.03	4.439		
4,698.1	4,672.2	4,704.6	4,686.7	17.6	17.3	-149.12	52.1	-269.2	148.0	114.3	33.76	4.385		
4,700.0	4,674.0	4,706.5	4,688.6	17.6	17.3	-149.13	52.2	-269.4	148.1	114.3	33.77	4.384		
4,800.0	4,773.3	4,806.5	4,787.9	18.0	17.7	-149.57	58.3	- 279.5	148.3	113.8	34.51	4.298		
4,900.0	4,872.7	4,906.4	4,887.2	18.4	18.1	-149.47	64.4	-289.6	146.4	111.1	35.26	4.151		
5,000.0	4,972.5	5,006.3	4,986.4	18.8	18.5	-148.82	70.5	-299.6	142.1	106.1	36.01	3.947		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

North Reference: Survey Calculation Method:

Output errors are at

Database: Offset TVD Reference: Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

2.00 sigma EDM 5000.14 Server

Offset Datum

Oliset Datum

Offset Des	sign	Barry Mi	ller - Bar	ry Miller Sta	te Com #	#121H - Well	bore #1 - Altitu	ide Plan #1					Offset Site Error:	0.0 usf
Survey Progra Refere		WD Offse		Semi Major	Avie				Dista	unco.			Offset Well Error:	0.0 usf
	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore	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	••uiiiiig	
5,100.0	5,072.4	5,106.1	5,085.4	19.2	18.9	-147.53	76.6	-309.7	135.7	98.9	36.78	3.690		
5,200.0	5,172.3	5,205.6	5,184.3	19.5	19.2	-145.44	82.6	-319.8	127.2	89.6	37.57	3.386		
5,231.4	5,203.8	5,236.8	5,215.3	19.6	19.4	152.47	84.5	-322.9	124.1	86.3	37.82	3.282		
5,300.0	5,272.3	5,304.9	5,282.9	19.8	19.6	154.52	88.7	-329.8	117.3	78.9	38.37	3.056		
5,400.0	5,372.3	5,404.2	5,381.5	20.2	20.0	157.98	94.7	-339.9	107.6	68.4	39.20	2.745		
5,500.0	5,472.3	5,503.5	5,480.1	20.5	20.4	162.09	100.8	-349.9	98.4	58.4	40.05	2.457		
5,600.0	5,572.3	5,602.3	5,578.3	20.8	20.8	166.94	106.7	-359.8	89.9	49.0	40.93	2.196		
5,700.0	5,672.3	5,700.4	5,675.8	21.2	21.2	171.68	111.7	-368.0	83.4	41.6	41.80	1.994		
5,800.0	5,772.3	5,798.9	5,774.0	21.5	21.6	175.66	115.3	-374.1	79.0	36.3	42.62 43.39	1.853		
5,900.0 6,000.0	5,872.3 5,972.3	5,897.6 5,996.6	5,872.7 5,971.6	21.8 22.2	21.9 22.3	178.45 179.75	117.7 118.7	-378.0 -379.7	76.4 75.3	33.0 31.2	44.10	1.760 1.708		
6,046.7	6,019.0	6,043.0	6,018.0	22.3	22.4	179.81	118.8	-379.8	75.2	30.8	44.41	1,694		
6,100.0	6,072.3	6,103.7	6,071.3	22.5	22.6	179.81	118.8	-379.8	75.2	30.4	44.80	1.680		
6,200.0 6,300.0	6,172.3 6,272.3	6,203.7 6,303.7	6,171.3 6,271.3	22.9 23.2	23.0 23.3	179.81 179.81	118.8 118.8	-379.8 -379.8	75.2 75.2	29.8 29.1	45.48 46.16	1.655 1.630		
6,400.0	6,372.3	6,403.7	6,371.3	23.2	23.6	179.81	118.8	-379.8 -379.8	75.2 75.2	28.4	46.16	1.606		
6,500.0	6,472.3	6,503.7	6,471.3	23.9	24.0	179.81	118.8	-379.8	75.2	27.7	47.53	1.583		
6,600.0	6,572.3	6,596.3	6,571.3	24.2	24.3	179.81	118.8	-379.8	75.2	27.1	48.19	1.561		
6,700.0	6,672.3	6,696.3	6,671.3	24.6	24.6	179.81	118.8	-379.8	75.2	26.4	48.87	1.540		
6,800.0	6,772.3	6,803.7	6,771.3	24.9	25.0	179.81	118.8	-379.8	75.2	25.7	49.59	1.517		
6,900.0	6,872.3	6,903.7	6,871.3	25.2	25.3	179.81	118.8	-379.8	75.2	25.0	50.27	1.497 เ	∟evel 3	
7,000.0	6,972.3	6,996.3	6,971.3	25.6	25.7	179.81	118.8	-379.8	75.2	24.3	50.94	1.477 l	_evel 3	
7,100.0	7,072.3	7,103.7	7,071.3	25.9	26.0	179.81	118.8	-379.8	75.2	23.6	51.65	1.457 l		
7,200.0	7,172.3	7,196.3	7,171.3	26.3	26.3	179.81	118.8	-379.8	75.2	22.9	52.32	1.438 l		
7,300.0	7,272.3	7,296.3	7,271.3	26.6	26.7	179.81	118.8	-379.8	75.2	22.2	53.01	1.419 l	_evel 3	
7,400.0	7,372.3	7,396.3	7,371.4	27.0	27.0	179.81	118.8	-379.8	75.2	21.5	53.70	1.401 l	_eve 3	
7,495.1	7,467.4	7,491.8	7,466.4	27.3	27.3	173.60	119.7	-371.7	74.8	20.6	54.17	1.381 l	_evel 3, CC	
7,500.0	7,472.3	7,496.7	7,471.2	27.3	27.3	172.96	119.8	-370.9	74.8	20.6	54.18	1.381 l	evel 3, ES, SF	
7,600.0	7,572.3	7,591.2	7,562.4	27.7	27.6	155.07	122.5	-346.8	79.4	25.7	53.72	1.478 เ	_evel 3	
7,700.0	7,672.3	7,675.8	7,639.7	28.0	27.8	135.22	126.3	-312.8	100.5	49.5	51.03	1.970		
7,800.0	7,772.3	7,749.0	7,701.9	28.3	27.9	121.04	130.6	-274.6	141.3	94.3	47.01	3.005		
7,900.0	7,872.3	7,810.9	7,750.4	28.7	28.0	112.37	134.9	-236.3	196.9	153.8	43.13	4.565		
8,000.0	7,972.3	7,863.0	7,787.7	29.0	28.1	107.04	138.9	-200.3	262.8	223.0	39.78	6.606		
8,100.0	8,072.3	7,906.6	7,816.4	29.4	28.2	103,61	142.6	-167.6	335.8	298.9	36.94	9.091		
8,200.0	8,172.3	7,950.0	7,842.3	29.7	28.3	100.90	146.5	-133.0	414.2	379.0	35.20	11.766		
8,300.0	8,272.3	7,974.3	7,855.6	30.1	28.4	99.62	148.7	-112.8	496.3	463.7	32.58	15.232		
8,400.0	8,372.3	8,000.0	7,868.8	30.4	28.5	98.43	151.2	-90.9	581.4	550.5	30.87	18.833		
8,500.0	8,472.3	8,023.6	7,880.0	30.8	28.6	97.45	153.5	-70.3	668.8	639.3	29.55	22.630		
8,600.0	8,572.3	8,050.0	7,891.5	31.1	28.7	96.48	156.1	-46.6	758.2	729.4	28.78	26.340		
8,700.0	8,672.3	8,050.0	7,891.5	31.5	28.7	96.48	156.1	-46.6	849.0	822.0	26.99	31.460		
8,800.0	8,772.3	8,075.6	7,901.6	31.8	28.8	95.64	158.8	-23,3	940.8	914.0	26.71	35,215		
8,900.0	8,872.3	8,100.0	7,910.2	32.2	28.9	94.93	161.3	-0.6	1,033.8	1,007.3	26.51	38.997		
9,000.0	8,972.3	8,100.0	7,910.2	32.5	28.9	94.93	161.3	-0.6	1,127.4	1,101.9	25.55	44.127		
9,100.0	9,072.3	8,100.0	7,910.2	32.9	28.9	94.93	161.3	-0.6	1,222.0	1,197.2	24.82	49.242		
9,200.0	9,172.3	8,121.0	7,916.9	33.2	29.0	94.37	163.5	19.2	1,316.8	1,292.0	24.85	52.995		
9,272.2	9,244.5	8,127.3	7,918.7	33.5	29.0	94.21	164.2	25.2	1,385.7	1,361.0	24.66	56.185		
9,300.0	9,272.3	8,129.8	7,919.4	33.6	29.0	3.75	164.5	27.6	1,412.1	1,387.5	24.59	57.430		
9,350.0	9,322.1	8,150.0	7,924.8	33.7	29.1	2.72	166.6	46.9	1,458.8	1,434.0	24.79	58.847		
9,400.0	9,371.3	8,150.0	7,924.8	33.9	29.1	2.29	166.6	46.9	1,503.5	1,479.1	24.42	61.579		
9,450.0	9,419.5	8,150.0	7,924.8	34.0	29.1	1.98	166.6	46.9	1,546.4	1,522.4	24.01	64.412		
9,500.0	9,466.4	8,150.0	7,924.8	34.1	29.1	1.74	166.6	46.9	1,587.5	1,563.9	23.58	67.321		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

North Reference: Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Server

eference: Offset Datum

•	Offset De	sign	Barry M	iller - Bar	ry Miller Sta	te Com #	121H - Well	bore #1 - Altitu	ude Plan #1					Offset Site Error:	0.0 usft
No.	Survey Prog	ram: 0-M	WD											Offset Well Error:	0.0 usft
Page					•		Higheide	Officet Wellhou	o Contro			Minimum	Congretion		
Beach 98547 F.1726 7,800.1 34.4 23.3 12.9 108.1 68.8 1682.6 1682.6 20.11 7,4889 7,4	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		warning	
9.950.0 9.950.8 8.01.3 7.962.0 9.80.8 23.0 1.14 175.1 77.0 1890.7 1673.9 22.34 72.46 9.700.9 9.850.9 1.200.0 9.850.8 1.200.0 7.962.2 36.0 22.4 0.97 172.1 9.50 1.710.5 1736.2 22.7 78.80 9.800.9 1.200.0 9.800.8 1.200.0 7.962.2 36.0 24.4 0.97 172.1 9.50 1.710.5 1736.2 22.7 78.80 9.800.0 9.700.9 8.200.0 1.200.0 8.200.0 7.962.2 36.0 24.4 0.97 172.1 9.50 1.700.0 170.0 1	9,600.0	9,554.7	8,172.6	7,930.1	34.4	29.3	1.29			1,662.8	1,639.6	23.13	71.888		
8,786,															
BABOO 7708.8 B.200.7 7308.2 34.8 20.4 0.87 172.4 95.5 1,782.2 1,780.3 21.50 81.544	9,700.0	9,633.7	8,200.0	7,935.2	34.6	29.4	0.97	172.1	95.5	1,728.1	1,705.4	22.70	76.135		
	9,750.0	9,668.8	8,200.0	7,935.2	34.7	29.4	0.92	172.1	95.5	1,756.5	1,734.2	22,27	78.860		
9,000.0 0,754.0 0,250.0 7,941.3 05.1 28.8 0.61 177.6 144.8 1,824.4 1,802.5 21.88 83.93 9,000.0 0,774.0 9,000.0 7,941.3 35.3 28.8 0.98 177.6 144.8 1,844.4 1,819.7 21.66 80.00 1,000.0 0,000.0	9,800.0	9,700.8	8,200.0	7,935.2	34.8	29.4	0.87	172.1	95.5	1,782.2	1,760.3	21.90	81.364		
9,950,0 0,774,0 8,250,0 7441,3 35.3 28.8 0.99 1776 144,8 1,840,4 1818,7 21,69 8,466 10000 0,864,5 8,771, 744,2 35.6 28.8 0.00 0,46 1776 144,8 1810,5 1832,7 12,13 80,100 100100 3,964,5 8,771, 744,2 35.6 28.8 0.00 0,46 170,5 170,7 180,4 184,1 184,1 21,10 85,44 170,10 1,10 1,10 1,10 1,10 1,10 1,10 1,	9,850.0	9,729.2	8,222.9	7,938.6	35.0	29.6	0.74	174.6	118.0	1,804.6	1,782.7	21.87	82.533		
100000 100000 100000 100000 100000 100000 100000											1,802.5				
10,100 1															
10,126.2															
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107000 9444, 8,888, 7,982, 41,9 37,4 -0,02 200,3 782,3 1,881,3 1,884,7 26,59 70,786 108000 9,853,8 9,087,7 7,986,7 44,7 40,7 -0,02 201,6 882,2 1,884,1 1,855,4 26,69 65,666 110000 9,853,8 9,087,7 7,987,7 44,7 40,7 -0,02 201,6 882,2 1,884,1 1,855,4 26,69 65,666 110000 9,853,8 9,188,7 7,970,0 44,3 42,5 -0,02 202,8 1,882,1 1,865,5 1,857,7 28,81 63,248 11,1000 9,867,9 9,888,6 7,978,8 44,6 46,2 -0,02 202,8 1,820,1 1,820,9 1,886,3 1,856,2 32,16 58,720 11,200,0 9,877,8 9,485,6 7,982,9 51,4 45,1 -0,02 204,8 1,818,8 1,886,7 1,856,5 35,80 56,14 11,400,0 9,773,8 5,865,6 7,982,9 51,4 45,1 -0,02 204,8 1,818,8 1,892,5 1,856,8 35,80 56,14 11,400,0 9,773,8 5,865,6 7,982,9 57,0 54,2 -0,02 205,4 1,881,8 1,892,5 1,856,8 35,80 52,717 11,000,0 9,882,1 9,886,8 7,989,5 60,9 58,5 -0,02 205,4 1,881,8 1,892,5 1,856,8 35,80 50,90 52,717 11,000,0 9,882,6 9,886,8 7,989,5 60,9 58,5 -0,02 205,7 1,881,6 1,886,8 1,866,8 3,854,1 49,219 11,000,9 9,905,6 10,186,8 8,002,8 6,0	10,500.0	9,834.9	8,688.7	7,956.5	39.4	34.4	-0.02	199.0	582.4	1,878.5	1,853.8	24.70	76.055		
10,000 9,849.1 8,088.7 7,086.4 43.3 30.0 -0.02 200.9 88.2.2 1,882.7 1,885.5 27.62 68.172	10,600.0	9,839.7	8,788.7	7,959.8	40.6	35.8	-0.02	199.6	682.4	1,879.9	1,854.3	25.61	73.393		
10,000.0 9,853.8 9,088.7 7,986.7 44.7 40.7 -0.02 201.6 982.2 1,884.1 1,855.4 28.99 65.686 110,000.9 9,855.5 9,188.7 7,973.0 44.3 42.5 -0.02 202.2 1,082.1 1,885.5 1,855.7 29.81 63,246 11,100.0 9,863.2 9,288.6 7,976.3 49.6 49.6 46.2 -0.02 202.8 1,182.0 1,886.9 1,855.0 30.97 60,932 11,200.0 9,867.9 6,386.6 7,982.9 51.4 48.1 -0.02 204.1 1,381.9 1,885.1 1,885.5 1,855.1 32.6 58.61 11,300.0 9,872.8 9,888.6 7,982.2 53.2 50.1 -0.02 204.1 1,381.9 1,889.7 1,855.4 33.3 56.614 11,400.0 9,873.3 5,588.6 7,982.2 53.2 50.1 -0.02 204.1 1,381.9 1,889.7 1,855.6 33.3 56.614 11,500.0 9,886.3 9,788.6 7,982.2 53.2 50.1 -0.02 204.1 1,381.9 1,885.5 1,856.6 35.90 52.717 11,600.0 9,886.3 9,788.6 7,982.3 57.0 54.2 -0.02 205.4 1,581.8 1,882.5 1,856.6 35.90 52.717 11,000.0 9,886.3 9,788.6 7,985.2 59.9 56.3 -0.02 205.4 1,581.8 1,882.5 1,856.8 37.19 59.320 11,700.0 9,886.2 9,988.6 7,989.5 60.9 56.3 -0.02 205.7 1,781.6 1,855.4 1,856.9 39.4 47,606 11,900.0 9,905.8 10,188.6 8,002.8 6,002.8 6.0.0 56.0 -0.02 207.3 1,881.6 1,889.2 1,857.0 4,199.4 4,7606 11,900.0 9,905.8 10,188.6 8,002.8 6,002.8 6.0 6.0 0.02 208.6 1,881.5 1,889.2 1,857.0 4,255 44,640 12,100.0 9,103.1 10,288.5 8,009.4 67.1 65.0 -0.02 208.6 2,081.4 1,899.6 1,857.0 4,255 44,640 12,100.0 9,103.1 10,288.5 8,009.4 67.1 65.0 -0.02 208.6 2,081.4 1,899.6 1,857.0 4,255 44,640 12,100.0 9,103.1 10,288.5 8,009.4 67.1 69.2 67.2 -0.02 209.9 2,281.3 1,900.4 1,857.1 46,72 40,749 12,000.0 9,103.1 10,288.5 8,009.4 67.1 69.2 67.2 -0.02 209.9 2,281.3 1,900.4 1,857.0 40,55 34,479 12,000.0 9,103.1 10,885.5 8,012.7 7,8 72.2 -0.02 211.6 2,281.1 1,900.8 1,857.0 40,55 34,479 12,000.0 9,103.1 10,885.5 8,009.5 7,8 73.9 74.6 -0.02 211.5 2,381.2 1,900.3 1,857.0 40,55 34,499 12,200.0 9,103.1 10,885.5 8,012.7 7,8 72.2 -0.02 211.6 2,381.2 1,900.3 1,857.0 40,55 34,499 12,200.0 9,103.1 10,885.5 8,012.7 7,8 72.2 -0.02 211.6 2,381.2 1,900.3 1,857.0 40,55 34,499 12,400.0 9,103.1 10,885.5 8,000.7 7,8 70.0 -0.02 211.4 2,881.0 1,900.8 1,857.0 40,55 34,499 12,400.0 9,103.1 10,885.5 8,000.7 7,8 70.0 -0.02 211.6 3,380.8 1,911.8	10,700.0	9,844.4	8,888.7	7,963.1	41.9	37.4	-0.02	200,3	782.3	1,881.3	1,854.7	26.59	70,756		
11,000	10,800.0	9,849.1	8,988.7	7,966.4	43.3	39.0	-0.02	200.9	882.2	1,882.7	1,855.1	27.62	68.172		
11 100.0 9 8863.2 9.2886 7,3976.3 47,9 44,3 -0.02 202.8 1,182.0 1,886,9 1,856,0 30,97 60,832 11200.0 9,872.8 9,886.6 7,976.6 48,6 48,2 -0.02 203.5 1,282.0 1,886,7 1,556.4 33,38 56,614 11400.0 9,872.8 9,886.6 7,976.2 53.2 50,1 -0.02 204.1 1,381.9 1,891.7 1,556.4 33,38 56,614 11400.0 9,872.8 9,886.6 7,986.2 53.2 50,1 -0.02 204.8 1,481.8 1,891.1 1,565.5 34,63 54,614 11500.0 9,882.1 9,688.6 7,989.6 55,1 52.2 -0.02 205.4 1,581.8 1,892.5 1,556.8 37,19 50,707 11600.0 9,881.5 9,886.6 7,999.5 65,0 57.0 64.2 -0.02 206.0 1,581.7 1,894.0 1,556.8 37,19 50,920 11700.0 9,881.5 9,886.6 7,999.5 60,9 58.5 -0.02 206.0 1,581.7 1,894.0 1,556.8 35,19 50,920 11700.0 9,891.5 9,886.6 7,999.5 60,9 58.5 -0.02 206.7 1,761.6 1,894.0 1,556.8 35,19 50,920 11700.0 9,903.0 10,086.6 8,002.8 63.0 60.6 -0.02 206.0 1,881.5 1,892.2 1,857.0 41.19 46.083 11,900.0 9,905.5 10,188.5 8,000.4 67.1 65.0 60.2 206.0 1,881.5 1,892.2 1,857.0 41.19 46.083 11,900.0 9,905.8 10,188.5 8,000.4 67.1 65.0 -0.02 206.0 1,981.5 1,892.2 1,857.0 41.19 46.083 11,200.0 9,910.3 10,288.5 8,010.7 71.6 65.0 -0.02 206.2 206.8 2,081.4 1,899.6 1,857.0 42.55 44.640 12,000.0 9,910.3 10,288.5 8,010.7 71.6 65.0 -0.02 206.2 206.1 1,981.5 1,982.4 1,857.0 44.39 43,273 12,200.0 9,910.3 10,288.5 8,010.3 73.5 71.6 -0.02 209.2 2,181.4 1,900.8 1,857.1 48,32 41,977 12,300.0 9,919.8 10,488.5 8,010.3 73.5 71.6 -0.02 209.2 2,181.4 1,903.8 1,857.1 48,32 40,749 12,400.0 9,933.6 10,888.5 8,012.6 75.6 73.9 -0.02 211.8 2,581.1 1,906.6 1,857.0 50.98 37.428 12,500.0 9,933.6 10,888.5 8,012.5 97.7 8 76.2 -0.02 209.2 2,181.4 1,900.8 1,857.0 50.98 37.428 12,500.0 9,933.6 10,888.5 8,012.5 97.7 8 76.2 -0.02 211.8 2,581.1 1,906.6 1,857.0 50.98 37.428 12,500.0 9,933.6 10,888.5 8,012.5 97.7 8 76.2 -0.02 211.8 2,581.1 1,906.6 1,857.0 50.98 37.428 12,500.0 9,933.6 10,888.5 8,012.5 97.7 8 76.2 -0.02 214.4 2,581.0 1,906.6 1,857.0 50.98 37.428 12,500.0 9,933.6 10,888.5 8,022.2 80.7 76.6 70.02 213.1 2,781.0 1,906.6 1,857.0 50.98 37.428 12,500.0 9,933.6 10,888.5 8,022.2 80.7 76.0 2 21.5 3 3,800.8 1,917.8 1,856.7 55.8 3.	10,900.0	9,853.8	9,088.7	7,969.7	44.7	40.7	-0.02	201.6	982.2	1,884.1	1,855.4	28.69	65.666		
11200.0 9,887.6 9,388.6 7,982.9 51.4 48.1 -0.02 204.1 1,381.9 1,885.1 1,866.2 32.16 58.70 11300.0 9,877.3 9,886.6 7,982.9 51.4 48.1 -0.02 204.1 1,381.9 1,885.7 1,886.4 33.38 56,614 11400.0 9,877.3 9,886.6 7,982.9 53.2 50.1 -0.02 204.8 1,481.8 1,891.1 1,886.5 34.63 54,614 11,500.0 9,882.1 9,686.6 7,986.6 55.1 52.2 -0.02 205.4 1,581.8 1,892.5 1,886.6 35.90 52,717 11,600.0 9,886.3 9,786.6 7,982.9 57.0 54.2 -0.02 206.0 1,881.7 1,884.0 1,896.8 37.19 50,920 11,700.0 9,886.5 7,988.6 7,982.5 58.9 56.3 -0.02 206.0 1,881.7 1,884.0 1,886.8 38.51 49,219 11,800.0 9,886.2 9,988.6 7,999.5 60.9 58.5 -0.02 207.3 1,881.8 1,892.5 1,886.9 38.4 47.608 11,900.0 9,800.9 10,088.6 8,002.8 63.0 60.8 -0.02 207.3 1,881.8 1,896.2 1,887.0 41.19 46.083 11,900.0 9,900.9 10,088.6 8,002.8 63.0 60.8 -0.02 208.6 2,081.4 1,898.6 1,865.9 38.4 47.608 12,000.0 9,910.3 10,288.5 8,009.4 67.1 65.0 -0.02 208.6 2,081.4 1,899.6 1,857.0 41.19 46.083 12,000.0 9,910.3 10,288.5 8,012.7 69.2 67.2 -0.02 209.9 2,2181.4 1,901.0 1,857.0 43.93 43.273 12,000.0 9,910.3 10,288.5 8,012.7 69.2 67.2 -0.02 209.9 2,2181.4 1,901.0 1,857.0 43.93 43.273 12,000.0 9,991.8 10,488.5 8,016.0 71.3 69.4 -0.02 209.9 2,281.3 1,502.4 1,857.1 46.72 40,749 12,000.0 9,934.5 10,588.5 8,019.3 73.5 71.6 -0.02 211.8 2,581.1 1,906.6 1,857.0 49.55 33.449 12,500.0 9,933.9 10,788.5 8,022.6 75.8 73.9 -0.02 211.8 2,581.1 1,906.6 1,857.0 49.55 33.449 12,500.0 9,933.9 10,788.5 8,022.6 75.8 73.9 -0.02 211.8 2,581.1 1,906.6 1,857.0 49.55 33.479 12,600.0 9,933.6 10,888.5 8,029.2 80.0 78.4 -0.02 213.1 2,781.0 1,906.6 1,857.0 49.55 33.479 12,600.0 9,933.6 10,888.5 8,029.2 80.0 78.4 -0.02 213.1 2,781.0 1,906.6 1,857.0 49.55 33.479 12,600.0 9,934.5 11,884.8 8,045.5 84.8 99.0 9.02 214.4 2,800.8 1,913.8 1,857.0 49.55 33.479 12,800.0 9,943.3 10,888.5 8,035.9 84.4 8.0 -0.02 215.6 3,080.8 1,913.8 1,857.0 52.8 33.479 12,800.0 9,943.3 10,888.5 8,035.9 84.4 8.0 -0.02 215.6 3,080.8 1,913.8 1,856.7 56.6 33.3 32,800 13,000.0 9,960.9 11,488.4 8,042.5 88.9 90.0 78.4 -0.02 215.6 3,080.8 1,913.8 1,866.7 56.9 32,106 13,300.	11,000.0	9,858.5	9,188.7	7,973.0	46.3	42.5	-0.02	202.2	1,082.1	1,885.5	1,855.7	29.81	63.248		
11,300.0 9,872,6 9,488,6 7,982,9 51,4 48,1 -0.02 204,8 1,481,8 1,891,7 1,856,6 33,38 56,614 11,400.0 9,877,3 9,588,6 7,986,2 53,2 50,1 -0.02 204,8 1,481,8 1,891,1 1,856,6 34,63 54,614 11,500.0 9,882,1 9,588,6 7,986,2 55,1 52,2 -0.02 205,4 1,581,8 1,891,5 1,856,6 35,90 52,717 11,500.0 9,886,8 9,788,6 7,999,9 57,0 54,2 -0.02 206,0 1,681,7 1,894,0 1,856,8 37,19 50,920 11,700.0 9,891,5 9,888,6 7,999,2 58,9 56,3 -0.02 206,7 1,891,6 1,895,4 1,856,8 33,51 49,219 11,800.0 9,800,2 9,808,6 7,999,5 60,9 58,5 -0.02 207,3 1,881,6 1,895,4 1,856,8 38,51 49,219 11,900.0 9,900,9 10,088,6 8,002,8 63,0 60,6 -0.02 208,0 1,981,5 1,898,2 1,857,0 41,19 46,083 12,000,0 9,905,6 10,188,6 8,006,1 65,0 62,8 -0.02 208,0 1,981,5 1,898,2 1,857,0 41,19 46,083 12,000,0 9,905,8 10,188,6 8,006,1 65,0 62,8 -0.02 208,6 2,081,4 1,891,5 1,892,2 1,857,0 41,19 46,083 12,000,0 9,915,0 10,388,5 8,016,7 7,16 65,0 -0.02 209,2 2,181,4 1,901,0 1,857,0 43,93 43,273 12,300,0 9,915,8 10,488,5 8,016,0 71,3 66,4 -0.02 210,5 2,381,2 1,903,8 1,857,1 48,73 48,72 40,749 12,400,0 9,924,5 10,588,5 8,016,0 71,3 66,4 -0.02 210,5 2,381,2 1,903,8 1,857,1 48,72 40,749 12,500,0 9,933,9 10,788,5 8,025,9 77,8 76,2 -0.02 211,8 2,581,1 1,906,6 1,857,0 50,98 37,428 12,500,0 9,933,9 10,788,5 8,025,9 77,8 76,2 -0.02 211,8 2,581,1 1,906,6 1,857,0 50,98 37,428 12,500,0 9,933,9 10,788,5 8,025,9 77,8 76,2 -0.02 213,7 2,890,8 1,912,2 1,855,9 55,31 34,574 13,000,0 9,943,0 10,988,5 8,025,2 80,0 76,4 -0.02 213,7 2,890,8 1,913,6 1,856,9 55,31 34,574 13,000,0 9,957,5 11,88,4 8,045,5 91,2 89,9 -0.02 216,3 3,800,6 1,917,8 1,856,8 58,3 3,2 9,804 13,500,0 9,967,3 11,88,4 8,045,1 93,4 92,3 -0.02 218,4 3,607,5 1,919,6 1,855,3 64,28 2,863 13,500,0 9,967,3 11,915,6 8,067,3 10,26 80,70 94,00 94,00 11,919,6 1,855,3 64,28 2,863 13,500,0 9,967,5 11,918,6 8,067,3 10,26 80,0 97,6 -0.02 216,3 3,807,5 1,919,6 1,855,3 64,28 2,863 13,500,0 9,967,5 11,915,6 8,067,3 10,26 80,0 97,6 -0.02 219,0 3,707,4 1,919,6 1,855,3 64,28 2,863 13,500,0 9,967,5 11,915,6 8,067,3 10,26 80,0 97,6 -0.02 219,0 3,707,4 1,919,6 1,85	11,100.0	9,863.2	9,288.6	7,976.3	47.9	44.3	-0.02	202.8	1,182.0	1,886.9	1,856.0	30.97	60.932		
11,400,0 9,877,3 9,588,6 7,886,2 53,2 50,1 -0,02 204,8 1,481,8 1,891,1 1,856,5 34,63 54,614 11,500,0 9,882,1 9,888,6 7,889,6 55,1 52,2 -0,02 205,4 1,581,8 1,892,5 1,856,6 35,90 52,717 11,500,0 9,882,1 9,888,6 7,892,9 57,0 54,2 -0,02 206,0 1,881,7 1,894,0 1,895,8 37,19 50,920 11,700,0 9,891,5 9,888,6 7,892,5 65,3 -0,02 206,0 1,881,7 1,894,0 1,856,8 35,1 42,19 11,800,0 9,892,2 9,988,6 7,892,5 60,9 86,5 -0,02 207,3 1,881,6 1,886,8 18,56,9 38,84 47,608 11,900,0 9,900,9 10,088,6 8,002,8 63,0 60,8 -0,02 208,0 1,981,5 1,892,2 1,857,0 41,19 46,083 12,000,0 9,905,6 10,188,6 8,002,8 63,0 60,8 -0,02 208,0 1,981,5 1,892,2 1,857,0 41,19 46,083 12,000,0 9,910,3 10,288,5 8,012,7 69,2 67,2 -0,02 209,2 2,181,4 1,901,0 1,857,0 42,55 44,640 12,100,0 9,910,3 10,288,5 8,012,7 69,2 67,2 -0,02 209,9 2,281,3 1,902,4 1,857,1 45,32 41,977 12,200,0 9,918,8 10,488,5 8,016,0 71,3 68,4 -0,02 201,5 2,381,5 1,903,8 1,857,1 45,32 41,977 12,300,0 9,924,5 10,588,5 8,019,3 73,5 71,6 -0,02 211,2 2,481,2 1,905,2 1,857,1 48,13 39,584 12,500,0 9,933,9 10,788,5 8,025,9 77,8 76,2 -0,02 212,4 2,881,0 1,908,0 1,857,0 59,8 34,79 12,600,0 9,933,0 10,88,5 8,025,9 77,8 76,2 -0,02 212,4 2,881,0 1,908,0 1,857,0 59,8 34,79 12,600,0 9,943,3 10,985,5 8,032,6 82,2 80,7 -0,02 214,4 2,900,8 1,912,2 1,857,0 59,8 37,428 12,000,0 9,943,3 10,985,5 8,032,6 82,2 80,7 -0,02 214,4 2,900,8 1,912,2 1,856,9 55,3 33,457 13,000,0 9,952,7 11,185,5 8,039,2 86,7 85,3 -0,02 215,6 3,180,7 1,915,6 1,856,9 55,3 33,457 13,000,0 9,952,7 11,185,5 8,039,2 86,7 85,3 -0,02 215,6 3,180,7 1,915,6 1,856,9 55,3 32,195 13,500,0 9,960,9 11,484,4 8,045,8 91,2 80,9 -0,02 216,9 3,300,6 1,916,4 1,856,7 50,89 32,105 13,500,0 9,960,9 11,484,4 8,045,8 91,2 80,9 -0,02 216,9 3,300,6 1,916,4 1,856,7 50,89 32,105 13,500,0 9,960,9 11,484,4 8,045,8 91,2 80,9 -0,02 216,9 3,300,6 1,916,4 1,856,7 50,89 32,105 13,500,0 9,967,3 11,185,6 8,067,9 98,0 97,6 -0,02 216,9 3,300,7 1,915,5 1,856,8 66,75 27,922 13,500,0 9,965,7 11,856,8 8,072,0 104,9 104,6 -0,02 203,3 3,007,2 1,915,5 1,850,8 66,75 27,92	11,200.0	9,867.9	9,388.6	7,979.6	49.6	46.2	-0.02	203.5	1,282.0	1,888.3	1,856.2	32.16	58.720		
11,500.0 9,882.1 9,888.6 7,989.6 55.1 52.2 -0.02 205.4 1,581.8 1,892.5 1,856.6 35.90 52.717 11,600.0 9,886.8 9,788.6 7,992.9 57.0 54.2 -0.02 206.0 1,881.7 1,894.0 1,856.8 37.19 50,920 11,700.0 9,891.5 9,886.6 7,992.5 58.9 56.3 -0.02 206.7 1,761.6 1,895.4 1,856.8 38.51 49.219 11,800.0 9,806.2 9,886.5 7,999.5 60.9 58.5 -0.02 207.3 1,881.6 1,896.8 1,856.9 38.51 49.219 11,900.0 9,900.0 9,900.0 10,888.6 8,002.8 63.0 60.6 -0.02 208.0 1,981.5 1,899.2 1,857.0 41.19 46.083 12,000.0 9,905.6 10,188.6 8,002.4 67.1 65.0 -0.02 208.0 1,981.5 1,899.6 1,857.0 42.55 44,640 12,100.0 9,910.3 10,288.5 8,009.4 67.1 65.0 -0.02 208.0 2,281.3 1,902.4 1,857.1 45.32 41,977 12,300.0 9,915.0 10,388.5 8,012.7 69.2 67.2 -0.02 209.9 2,281.3 1,902.4 1,857.1 45.32 41,977 12,300.0 9,915.8 10,488.5 8,016.0 71.3 69.4 -0.02 210.5 2,381.2 1,903.8 1,857.1 46.72 40,749 12,600.0 9,922.2 10,688.5 8,019.3 73.5 71.6 -0.02 211.5 2,381.2 1,903.8 1,857.1 46.72 40,749 12,500.0 9,933.9 10,788.5 8,025.9 77.8 76.2 -0.02 211.8 2,581.1 1,906.6 1,857.0 49.55 38.479 12,500.0 9,933.9 10,788.5 8,025.9 77.8 76.2 -0.02 211.8 2,581.1 1,908.6 1,857.0 50.89 37.428 12,700.0 9,944.3 10,988.5 8,032.6 82.2 80.7 7.0 0.02 211.8 2,581.1 1,908.6 1,857.0 50.89 37.428 12,700.0 9,944.0 11,088.5 8,025.9 77.8 76.2 -0.02 212.4 2,881.0 1,908.0 1,857.0 50.89 37.428 12,700.0 9,944.3 10,988.5 8,032.6 82.2 80.7 -0.02 213.7 2,880.9 1,910.8 1,857.0 50.89 37.428 12,700.0 9,945.0 11,888.6 8,035.9 84.4 83.0 -0.02 214.4 2,881.0 1,909.4 1,857.0 50.89 37.428 13,000.0 9,952.7 11,188.5 8,035.9 84.4 83.0 -0.02 214.5 3,380.6 1,918.6 1,856.9 56.76 33.712 13,000.0 9,962.2 11,388.4 8,045.5 89.9 67.6 -0.02 214.5 3,380.6 1,918.6 1,856.9 56.76 33.712 13,000.0 9,962.7 11,188.4 8,045.5 89.9 67.6 -0.02 215.6 3,380.6 1,918.6 1,856.9 56.76 33.712 13,000.0 9,962.7 11,188.4 8,045.5 89.9 67.6 -0.02 215.6 3,380.6 1,918.6 1,856.9 56.76 22.818 13,000.0 9,960.1 11,488.4 8,045.5 89.9 9.0 0.02 215.6 3,380.6 1,919.6 1,855.3 64.28 2,863 13,000.0 9,960.1 11,488.4 8,045.5 89.9 9.0 0.02 219.0 3,707.4 1,919.6 1,855.3 64.28 2,863	11,300.0	9,872.6	9,488.6	7,982.9	51.4	48.1	-0.02	204.1	1,381.9	1,889.7	1,856.4	33.38	56.614		
11,600.0 9,886.8 9,786.6 7,992.9 57.0 54.2 -0.02 206.0 1,881.7 1,894.0 1,856.8 37.19 50.920 11,700.0 9,895.2 9,886.6 7,996.2 56.9 56.3 -0.02 206.7 1,781.6 1,895.4 1,856.8 38.51 49.219 11,800.0 9,896.2 9,986.6 7,996.5 60.9 58.5 -0.02 207.3 1,881.6 1,896.8 1,856.9 38.61 47.608 11,900.0 9,900.9 10,086.6 8,002.8 63.0 60.6 -0.02 208.0 1,981.5 1,896.2 1,857.0 41.19 46,083 12,000.0 9,905.8 10,188.6 8,006.1 65.0 62.8 -0.02 208.6 2,081.4 1,899.6 1,857.0 42.55 44,640 12,100.0 9,915.0 10,388.5 8,009.4 67.1 65.0 -0.02 209.2 2,181.4 1,901.0 1,857.0 43.93 43.273 12,200.0 9,915.0 10,388.5 8,012.7 69.2 67.2 -0.02 209.9 2,281.3 1,902.4 1,857.1 45,32 41,977 12,300.0 9,915.0 10,388.5 8,016.0 71.3 69.4 -0.02 210.5 2,381.2 1,903.8 1,857.1 46,72 40,749 12,400.0 9,924.5 10,585.5 8,019.3 73.5 71.6 -0.02 211.2 2,481.2 1,903.8 1,857.1 46,72 40,749 12,500.0 9,929.2 10,885.5 8,022.6 75.6 73.9 -0.02 211.8 2,581.1 1,906.6 1,857.0 50.98 37.428 12,500.0 9,933.9 10,785.5 8,025.9 77.8 76.2 -0.02 212.4 2,681.0 1,906.0 1,857.0 50.98 37.428 12,500.0 9,933.9 10,785.5 8,025.9 77.8 76.2 -0.02 212.4 2,681.0 1,906.0 1,857.0 50.98 37.428 12,500.0 9,943.3 10,985.5 8,032.6 82.2 80.7 -0.02 213.1 2,781.0 1,906.4 1,857.0 50.98 37.428 12,500.0 9,945.0 11,885.5 8,035.9 84.4 83.0 -0.02 213.1 2,781.0 1,906.4 1,857.0 50.98 37.428 12,500.0 9,945.3 10,885.5 8,035.9 84.4 83.0 -0.02 213.1 2,781.0 1,906.4 1,857.0 50.98 37.428 12,500.0 9,945.0 11,885.8 8,035.9 84.4 83.0 -0.02 213.1 2,781.0 1,906.4 1,857.0 50.98 37.428 13,000.0 9,957.5 11,288.4 8,045.1 99.4 90.3 87.6 -0.02 213.4 2,980.8 1,913.6 1,856.9 56.76 33.712 13,000.0 9,957.5 11,288.4 8,045.1 99.5 98.9 97.6 -0.02 215.0 3,080.8 1,913.6 1,856.9 56.76 33.712 13,000.0 9,960.9 11,884.8 8,045.1 99.4 90.3 99.9 -0.02 216.0 3,380.6 1,915.0 1,856.6 62.64 30,638 13,000.0 9,960.9 11,816.6 8,067.3 102.6 102.3 -0.02 215.0 3,080.8 1,913.6 1,855.3 64.28 29.863 13,000.0 9,980.4 12,156.8 8,072.0 104.9 104.6 -0.02 220.3 3,907.2 1,919.5 1,856.6 62.64 30,638	11,400.0	9,877.3	9,588.6	7,986.2	53,2	50.1	-0.02	204.8	1,481.8	1,891.1	1,856.5	34,63	54,614		
11,700.0 9,891.5 9,888.6 7,996.2 58.9 56.3 -0.02 206.7 1,781.6 1,895.4 1,856.8 38.51 49.219 11,800.0 9,896.2 9,988.6 7,999.5 60.9 58.5 -0.02 207.3 1,816.6 1,896.8 1,856.9 39.84 47,608 11,900.0 9,900.9 10,088.6 8,002.8 63.0 60.6 -0.02 208.6 1,881.5 1,898.2 1,857.0 41.19 46,083 12,000.0 9,905.6 10,188.6 8,006.1 65.0 62.8 -0.02 208.6 2,081.4 1,899.6 1,857.0 42,55 44,640 12,100.0 9,910.3 10,288.5 8,009.4 67.1 65.0 -0.02 209.2 2,181.4 1,901.0 1,857.0 43,93 43,273 12,200.0 9,915.0 10,388.5 8,012.7 66.2 67.2 -0.02 209.9 2,281.3 1,902.4 1,857.1 45,32 41,977 12,300.0 9,919.8 10,488.5 8,019.3 73.5 71.6 -0.02 210.5 2,381.2 1,903.8 1,857.1 46,72 40,749 12,400.0 9,924.5 10,588.5 8,019.3 73.5 71.6 -0.02 211.2 2,481.2 1,903.8 1,857.1 46,72 40,749 12,500.0 9,933.9 10,788.5 8,019.3 73.5 71.6 -0.02 211.8 2,581.1 1,966.6 1,857.0 49,55 38,479 12,500.0 9,933.9 10,788.5 8,022.6 75.6 73.9 -0.02 211.8 2,581.1 1,906.6 1,857.0 49,55 38,479 12,600.0 9,933.9 10,788.5 8,029.2 80.0 78.4 -0.02 213.1 2,781.0 1,908.0 1,857.0 50.88 37,428 12,700.0 9,948.0 11,088.5 8,029.2 80.0 78.4 -0.02 213.1 2,781.0 1,908.0 1,857.0 50.88 37,428 12,900.0 9,943.3 10,988.5 8,032.6 82.2 80.7 -0.02 214.4 2,880.8 1,912.2 1,856.9 55,31 34,574 13,000.0 9,952.7 11,188.5 8,039.2 86.7 85.3 -0.02 215.0 3,080.8 1,913.6 1,856.9 56,76 33,712 13,100.0 9,952.7 11,188.5 8,039.2 86.7 85.3 -0.02 215.0 3,080.8 1,913.6 1,856.9 56,76 33,712 13,100.0 9,952.7 11,188.4 8,042.5 88.9 87.6 -0.02 215.6 3,180.7 1,915.0 1,856.8 58,23 32,890 13,200.0 9,966.9 11,488.4 8,042.5 88.9 87.6 -0.02 215.6 3,180.7 1,915.0 1,856.8 58,23 32,890 13,200.0 9,967.3 11,588.4 8,042.5 88.9 87.6 -0.02 215.6 3,180.7 1,915.0 1,856.8 58,23 32,890 13,200.0 9,967.3 11,715.6 8,057.9 98.0 97.6 -0.02 215.6 3,180.7 1,919.6 1,855.3 64.28 2,863 13,600.0 9,961.0 11,815.6 8,062.6 100.3 99.9 -0.02 216.6 3,480.5 1,919.6 1,855.3 64.28 2,863 13,600.0 9,961.0 11,815.6 8,062.6 100.3 99.9 -0.02 219.0 3,707.4 1,919.6 1,855.3 64.28 2,863 13,600.0 9,961.1 11,515.6 8,062.6 100.3 99.9 -0.02 219.0 3,707.4 1,919.6 1,855.3 64.28 2,983 13,	11,500.0	9,882.1	9,688.6	7,989.6	55.1	52.2	-0.02	205.4	1,581.8	1,892.5	1,856.6	35.90	52.717		
11,800.0 9,896.2 9,988.6 7,999.5 60.9 58.5 -0.02 207.3 1,881.6 1,896.8 1,856.9 39.84 47.608 11,900.0 9,900.9 10,088.6 8,002.8 63.0 60.6 -0.02 208.0 1,981.5 1,898.2 1,857.0 41.19 46.083 12,000.0 9,905.6 10,188.6 8,002.8 63.0 60.6 -0.02 208.0 1,981.5 1,898.2 1,857.0 41.19 46.083 12,000.0 9,910.3 10,288.5 8,009.4 67.1 65.0 -0.02 209.9 2,281.3 1,902.4 1,857.1 43,93 43,273 12,200.0 9,915.0 10,388.5 8,012.7 69.2 67.2 -0.02 209.9 2,281.3 1,902.4 1,857.1 45,32 41,977 12,300.0 9,919.3 10,488.5 8,016.0 71.3 66.4 -0.02 210.5 2,381.2 1,903.8 1,857.1 46.72 40,749 12,400.0 9,924.5 10,588.5 8,016.0 71.3 66.4 -0.02 211.2 2,481.2 1,903.8 1,857.1 46.72 40,749 12,400.0 9,929.2 10,688.5 8,025.9 77.8 76.2 -0.02 211.4 2,581.1 1,906.6 1,857.0 49.55 38.479 12,600.0 9,933.9 10,788.5 8,025.9 77.8 76.2 -0.02 211.4 2,581.1 1,906.6 1,857.0 49.55 38.479 12,600.0 9,933.9 10,788.5 8,025.9 77.8 76.2 -0.02 212.4 2,681.0 1,908.0 1,857.0 50.98 37.428 12,600.0 9,948.0 11,088.5 8,035.9 84.4 83.0 -0.02 213.1 2,781.0 1,909.4 1,857.0 52.41 36.429 12,800.0 9,948.0 11,088.5 8,035.9 84.4 83.0 -0.02 213.1 2,781.0 1,909.4 1,857.0 53.86 35.479 12,900.0 9,948.0 11,088.5 8,035.9 84.4 83.0 -0.02 215.6 3,808.8 1,912.2 1,856.9 55.31 34.574 13,000.0 9,952.7 11,188.5 8,039.2 86.7 85.3 -0.02 215.6 3,808.8 1,912.2 1,856.9 55.31 34.574 13,000.0 9,952.7 11,188.4 8,049.1 93.4 92.3 -0.02 215.6 3,808.8 1,913.6 1,856.9 56.76 33.712 13,000.0 9,962.2 11,388.4 8,049.1 93.4 92.3 -0.02 215.6 3,800.5 1,919.6 1,855.3 64.28 29.863 13,000.0 9,966.9 11,488.4 8,049.1 93.4 92.3 -0.02 215.6 3,800.5 1,919.5 1,856.6 62.64 30.638 13,000.0 9,961.5 11,588.4 8,049.1 93.4 92.3 -0.02 215.6 3,800.5 1,919.6 1,855.3 64.28 29.863 13,000.0 9,961.5 11,588.4 8,049.1 93.4 92.3 -0.02 215.6 3,800.5 1,919.5 1,856.6 62.64 30.638 13,000.0 9,961.5 11,588.4 8,049.1 93.4 92.3 -0.02 215.6 3,800.5 1,919.5 1,856.6 62.64 30.638 13,000.0 9,961.5 11,588.4 8,049.1 93.4 92.3 -0.02 215.6 3,800.5 1,919.5 1,856.8 62.6 2,863 30.600.0 9,961.0 11,515.6 8,062.6 100.3 99.9 -0.02 219.0 3,077.4 1,919.6 1,855.3 64.28 29.863 13	11,600.0	9,886.8	9,788.6	7,992.9	57.0	54.2	-0.02	206.0	1,681.7	1,894.0	1,856.8	37.19	50.920		
11,900.0 9,900.9 10,088.6 8,002.8 63.0 60.6 -0.02 208.0 1,981.5 1,898.2 1,857.0 41.19 46.083 12,000.0 9,905.6 10,188.6 8,006.1 65.0 62.8 -0.02 208.6 2,081.4 1,899.6 1,857.0 42.55 44.640 12,100.0 9,910.3 10,288.5 8,009.4 67.1 65.0 -0.02 209.2 2,181.4 1,901.0 1,857.0 43.93 43.273 12,200.0 9,915.0 10,388.5 8,012.7 69.2 67.2 -0.02 209.9 2,281.3 1,902.4 1,857.1 45.32 41.977 12,300.0 9,919.8 10,485.5 8,016.0 71.3 69.4 -0.02 210.5 2,381.2 1,903.8 1,857.1 46.72 40.749 12,400.0 9,924.5 10,588.5 8,019.3 73.5 71.6 -0.02 211.2 2,481.2 1,905.2 1,857.1 48.13 39.584 12,500.0 9,932.7 10,688.5 8,022.6 75.6 73.9 -0.02 211.8 2,581.1 1,906.6 1,857.0 49.55 38.479 12,500.0 9,933.9 10,788.5 8,025.9 77.8 76.2 -0.02 212.4 2,681.0 1,908.0 1,857.0 50.48 12,700.0 9,933.6 10,888.5 8,032.6 80.22 80.0 78.4 -0.02 213.7 2,880.9 1,910.8 1,857.0 52.41 36.29 12,800.0 9,943.3 10,985.5 8,032.6 82.2 80.7 -0.02 213.7 2,880.9 1,910.8 1,857.0 53.86 35.479 12,900.0 9,948.0 11,088.5 8,035.9 84.4 83.0 -0.02 214.4 2,980.8 1,912.2 1,856.9 55.31 34.574 13,000.0 9,952.7 11,188.5 8,039.2 86.7 85.3 -0.02 214.4 2,980.8 1,912.2 1,856.9 55.31 34.574 13,000.0 9,962.2 11,388.4 8,045.8 91.2 89.9 -0.02 216.9 3,380.6 1,913.6 1,856.7 61.17 31.355 13,000.0 9,966.9 11,488.4 8,045.1 93.4 92.3 -0.02 216.9 3,380.6 1,913.6 1,856.7 61.17 31.355 13,000.0 9,966.9 11,488.4 8,045.1 93.4 92.3 -0.02 216.9 3,380.6 1,917.8 1,856.7 61.17 31.355 13,000.0 9,966.9 11,488.4 8,045.1 93.4 92.3 -0.02 216.9 3,380.6 1,917.8 1,856.7 61.17 31.355 13,000.0 9,966.9 11,488.4 8,045.1 93.4 92.3 -0.02 216.9 3,380.6 1,917.8 1,856.7 61.17 31.355 13,000.0 9,967.3 11,156. 8,067.9 98.0 97.6 -0.02 216.9 3,380.6 1,919.5 1,859.3 64.28 29.863 13,500.0 9,980.4 12,516.6 8,070.0 104.9 104.6 -0.02 220.3 3,807.5 1,919.5 1,849.3 70.24 27.327	11,700.0	9,891.5	9,888.6	7,996.2	58.9	56.3	-0.02	206.7	1,781.6	1,895.4	1,856.8	38.51	49.219		
12,000.0 9,905.6 10,188.6 8,006.1 65.0 62.8 -0.02 208.6 2,081.4 1,899.6 1,857.0 42.55 44.640 12,100.0 9,910.3 10,288.5 8,009.4 67.1 65.0 -0.02 209.2 2,181.4 1,901.0 1,857.0 43.93 43.273 12,200.0 9,915.0 10,388.5 8,012.7 69.2 67.2 -0.02 209.9 2,281.3 1,902.4 1,857.1 45.32 41,977 12,300.0 9,918.8 10,488.5 8,016.0 71.3 69.4 -0.02 210.5 2,381.2 1,903.8 1,857.1 46.72 40,749 12,400.0 9,924.5 10,588.5 8,019.3 73.5 71.6 -0.02 211.2 2,481.2 1,905.2 1,857.1 48.13 39.584 12,500.0 9,929.2 10,688.5 8,022.6 75.6 73.9 -0.02 211.8 2,581.1 1,906.6 1,857.0 49.55 38.479 12,500.0 9,933.9 10,788.5 8,022.6 75.6 73.9 -0.02 211.8 2,581.1 1,906.6 1,857.0 50.98 37.428 12,700.0 9,938.6 10,888.5 8,029.2 80.0 78.4 -0.02 213.1 2,781.0 1,909.4 1,857.0 53.86 35.479 12,800.0 9,943.3 10,988.5 8,032.6 82.2 80.7 -0.02 213.7 2,880.9 1,910.8 1,857.0 53.86 35.479 12,800.0 9,948.0 11,088.5 8,032.6 82.2 80.7 -0.02 214.4 2,881.0 1,908.4 1,857.0 53.86 35.479 12,800.0 9,948.0 11,088.5 8,032.6 82.2 80.7 -0.02 214.4 2,880.9 1,910.8 1,857.0 53.86 35.479 12,800.0 9,948.0 11,088.5 8,039.2 86.7 85.3 -0.02 214.4 2,880.8 1,912.2 1,856.9 55.31 34.574 13,000.0 9,957.5 11,288.4 8,042.5 88.9 87.6 -0.02 215.6 3,180.7 1,915.0 1,856.9 56.76 33.712 13,100.0 9,957.5 11,288.4 8,045.8 91.2 89.9 -0.02 215.6 3,180.7 1,915.0 1,856.9 56.76 33.712 13,100.0 9,962.2 11,388.4 8,045.8 91.2 89.9 -0.02 215.6 3,180.7 1,915.0 1,856.7 59.69 32.105 13,300.0 9,960.9 11,488.4 8,049.1 93.4 92.3 -0.02 216.9 3,380.6 1,916.4 1,856.7 59.69 32.105 13,300.0 9,961.9 11,488.4 8,045.8 91.2 89.9 -0.02 216.9 3,380.6 1,917.8 1,856.7 59.69 32.105 13,300.0 9,971.6 11,588.4 8,049.1 93.4 92.3 -0.02 216.9 3,380.6 1,916.4 1,856.7 59.69 32.105 13,300.0 9,981.0 11,185.6 8,057.9 98.0 97.6 -0.02 216.9 3,380.6 1,916.4 1,856.7 59.69 32.105 13,300.0 9,981.0 11,185.8 8,062.6 100.3 99.9 -0.02 216.9 3,380.5 1,919.5 1,856.8 68.75 29.863 13,500.0 9,981.0 11,185.6 8,067.9 104.6 -0.02 217.7 3,807.3 1,919.6 1,855.3 64.28 29.663 13,500.0 9,990.4 12,015.6 8,072.0 104.9 104.6 -0.02 220.3 3,907.2 1,919.5 1,850.8 68.75 27.922 1	11,800.0	9,896.2	9,988.6	7,999.5	60.9	58.5	-0.02	207.3	1,881.6	1,896.8	1,856.9	39.84	47.608		
12,100.0 9,910.3 10,288.5 8,009.4 67.1 65.0 -0.02 209.2 2,181.4 1,901.0 1,857.0 43,93 43,273 12,200.0 9,915.0 10,388.5 8,012.7 69.2 67.2 -0.02 209.9 2,281.3 1,902.4 1,857.1 45.32 41,977 12,300.0 9,919.8 10,488.5 8,016.0 71.3 69.4 -0.02 210.5 2,381.2 1,903.8 1,857.1 46.72 40,749 12,400.0 9,924.5 10,588.5 8,019.3 73.5 71.6 -0.02 211.2 2,481.2 1,905.2 1,857.1 48.13 39,564 12,500.0 9,929.2 10,688.5 8,022.6 75.6 73.9 -0.02 211.8 2,581.1 1,906.6 1,857.0 49.55 38.479 12,600.0 9,933.9 10,788.5 8,025.9 77.8 76.2 -0.02 212.4 2,681.0 1,908.0 1,857.0 50.98 37.428 12,500.0 9,933.9 10,788.5 8,022.6 80.0 78.4 -0.02 213.1 2,781.0 1,909.4 1,857.0 50.98 37.428 12,500.0 9,943.3 10,988.5 8,022.6 82.2 80.0 78.4 -0.02 213.1 2,781.0 1,909.4 1,857.0 52.41 36.429 12,800.0 9,943.3 10,988.5 8,032.6 82.2 80.7 -0.02 214.4 2,980.8 1,912.2 1,856.9 55.31 34.574 13,000.0 9,952.7 11,188.5 8,039.2 86.7 85.3 -0.02 214.4 2,980.8 1,912.2 1,856.9 55.31 34.574 13,000.0 9,952.7 11,188.5 8,039.2 86.7 85.3 -0.02 215.0 3,080.8 1,913.6 1,856.9 56.76 33,712 13,100.0 9,962.2 11,388.4 8,042.5 88.9 87.6 -0.02 215.6 3,180.7 1,915.0 1,856.8 58.23 32,880 13,200.0 9,962.2 11,388.4 8,045.8 91.2 89.9 -0.02 216.3 3,280.6 1,916.4 1,856.7 59.69 32.105 13,300.0 9,961.3 11,715.6 8,057.9 98.0 97.6 -0.02 216.9 3,380.6 1,917.8 1,856.7 59.69 32.105 13,500.0 9,976.3 11,715.6 8,057.9 98.0 97.6 -0.02 218.4 3,607.5 1,919.6 1,855.3 64.28 29.663 13,500.0 9,981.0 11,815.6 8,067.3 102.6 100.3 99.9 -0.02 219.0 3,707.4 1,919.6 1,855.3 64.28 29.663 13,500.0 9,985.7 11,915.6 8,067.3 102.6 102.3 -0.02 219.7 3,807.3 1,919.5 1,850.8 68.75 27.922 13,000.0 9,995.5 11,215.6 8,067.3 102.6 102.3 -0.02 219.7 3,807.3 1,919.5 1,850.8 68.75 27.922 13,000.0 9,995.2 12,115.6 8,076.8 107.2 107.0 -0.02 220.9 4,007.1 1,919.5 1,849.3 70.24 27.327	11,900.0	9,900.9	10,088.6	8,002.8	63.0	60.6	-0.02	208.0	1,981.5	1,898.2	1,857.0	41.19	46.083		
12,200.0 9,915.0 10,388.5 8,012.7 69.2 67.2 -0.02 209.9 2,281.3 1,902.4 1,857.1 45.32 41,977 12,300.0 9,919.8 10,488.5 8,016.0 71.3 69.4 -0.02 210.5 2,381.2 1,903.8 1,857.1 46.72 40,749 12,400.0 9,924.5 10,588.5 8,019.3 73.5 71.6 -0.02 211.2 2,481.2 1,905.2 1,857.1 48.13 39.584 12,500.0 9,929.2 10,688.5 8,022.6 75.6 73.9 -0.02 211.8 2,581.1 1,906.6 1,857.0 49.55 38.479 12,500.0 9,933.9 10,788.5 8,025.9 77.8 76.2 -0.02 212.4 2,681.0 1,908.0 1,857.0 50.98 37.428 12,700.0 9,934.3 10,988.5 8,032.6 82.2 80.7 -0.02 213.7 2,880.9 1,910.8 1,857.0 53.86 35.479 12,900.0 9,948.0 11,088.5 8,035.9 84.4 83.0 -0.02 215.0 <	12,000.0	9,905.6	10,188.6	8,006.1	65.0	62.8	-0.02	208.6	2,081.4	1,899.6	1,857.0	42.55	44.640		
12,300.0 9,919.8 10,488.5 8,016.0 71.3 69.4 -0.02 210.5 2,381.2 1,903.8 1,857.1 46.72 40.749 12,400.0 9,924.5 10,588.5 8,019.3 73.5 71.6 -0.02 211.2 2,481.2 1,905.2 1,857.1 48.13 39.584 12,500.0 9,929.2 10,688.5 8,022.6 75.6 73.9 -0.02 211.8 2,581.1 1,906.6 1,857.0 49.55 38.479 12,500.0 9,933.9 10,788.5 8,022.6 75.6 73.9 -0.02 212.4 2,681.0 1,908.0 1,857.0 50.98 37.428 12,700.0 9,938.6 10,888.5 8,029.2 80.0 78.4 -0.02 213.1 2,781.0 1,909.4 1,857.0 52.41 36.429 12,800.0 9,948.0 11,088.5 8,035.9 84.4 83.0 -0.02 214.4 2,980.8 1,912.2 1,856.9 55.31 34.574 13,000.0 9,952.7 11,188.5 8,039.2 86.7 85.3 -0.02 215.0 <	12,100.0	9,910.3	10,288.5	8,009.4	67.1	65.0	-0.02	209.2	2,181.4	1,901.0	1,857.0	43.93	43,273		
12,400.0 9,924.5 10,588.5 8,019.3 73.5 71.6 -0.02 211.2 2,481.2 1,905.2 1,857.1 48.13 39.584 12,500.0 9,929.2 10,688.5 8,022.6 75.6 73.9 -0.02 211.8 2,581.1 1,906.6 1,857.0 49.55 38.479 12,600.0 9,933.9 10,788.5 8,025.9 77.8 76.2 -0.02 212.4 2,681.0 1,908.0 1,857.0 50.98 37.428 12,700.0 9,938.6 10,888.5 8,029.2 80.0 78.4 -0.02 213.1 2,781.0 1,909.4 1,857.0 52.41 36.429 12,800.0 9,943.3 10,988.5 8,032.6 82.2 80.7 -0.02 213.7 2,880.9 1,910.8 1,857.0 53.86 35.479 12,900.0 9,948.0 11,088.5 8,035.9 84.4 83.0 -0.02 214.4 2,980.8 1,912.2 1,856.9 55.31 34.574 13,000.0 9,952.7 11,188.5 8,039.2 86.7 85.3 -0.02 215.0 3,080.8 1,913.6 1,856.9 56.76 33.712 13,100.0 9,957.5 11,288.4 8,042.5 88.9 87.6 -0.02 215.6 3,180.7 1,915.0 1,856.8 58.23 32.890 13,200.0 9,962.2 11,388.4 8,045.8 91.2 89.9 -0.02 216.3 3,280.6 1,914.4 1,856.7 59.69 32.105 13,300.0 9,966.9 11,488.4 8,049.1 93.4 92.3 -0.02 216.9 3,380.6 1,917.8 1,856.7 61.17 31.355 13,400.0 9,971.6 11,588.4 8,052.4 95.7 94.6 -0.02 217.6 3,480.5 1,919.2 1,856.6 62.64 30.638 13,500.0 9,976.3 11,715.6 8,057.9 98.0 97.6 -0.02 217.6 3,480.5 1,919.2 1,856.6 62.64 30.638 13,500.0 9,985.7 11,915.6 8,062.6 100.3 99.9 -0.02 219.0 3,707.4 1,919.6 1,855.3 64.28 29.863 13,600.0 9,985.7 11,915.6 8,067.3 102.6 102.3 -0.02 219.7 3,807.3 1,919.5 1,850.8 63.75 27.922 13,900.0 9,995.2 12,115.6 8,076.8 107.2 107.0 -0.02 220.9 4,007.1 1,919.5 1,849.3 70.24 27.327	12,200.0	9,915.0	10,388.5	8,012.7	69.2	67.2	-0.02	209.9	2,281.3	1,902.4	1,857.1	45.32	41.977		
12,500.0 9,929.2 10,688.5 8,022.6 75.6 73.9 -0.02 211.8 2,581.1 1,906.6 1,857.0 49.55 38.479 12,600.0 9,933.9 10,788.5 8,025.9 77.8 76.2 -0.02 212.4 2,681.0 1,908.0 1,857.0 50.98 37.428 12,700.0 9,938.6 10,888.5 8,029.2 80.0 78.4 -0.02 213.1 2,781.0 1,909.4 1,857.0 52.41 36.429 12,800.0 9,943.3 10,988.5 8,032.6 82.2 80.7 -0.02 213.7 2,880.9 1,910.8 1,857.0 53.86 35.479 12,900.0 9,948.0 11,088.5 8,035.9 84.4 83.0 -0.02 214.4 2,980.8 1,912.2 1,856.9 55.31 34.574 13,000.0 9,952.7 11,188.5 8,039.2 86.7 85.3 -0.02 215.0 3,080.8 1,913.6 1,856.9 56.76 33.712 13,100.0 9,957.5 11,288.4 8,042.5 88.9 87.6 -0.02 215.6 3,180.7 1,915.0 1,856.8 58.23 32,890 13,200.0 9,962.2 11,388.4 8,045.8 91.2 89.9 -0.02 216.3 3,280.6 1,916.4 1,856.7 59.69 32.105 13,300.0 9,966.9 11,488.4 8,049.1 93.4 92.3 -0.02 216.9 3,380.6 1,917.8 1,856.7 59.69 32.105 13,400.0 9,971.6 11,588.4 8,052.4 95.7 94.6 -0.02 217.6 3,480.5 1,919.2 1,856.6 62.64 30.638 13,500.0 9,976.3 11,715.6 8,057.9 98.0 97.6 -0.02 218.4 3,607.5 1,919.6 1,855.3 64.28 29.863 13,600.0 9,981.0 11,815.6 8,062.6 100.3 99.9 -0.02 219.0 3,707.4 1,919.6 1,855.3 64.28 29.863 13,700.0 9,985.7 11,915.6 8,067.3 102.6 102.3 -0.02 219.7 3,807.3 1,919.6 1,855.3 67.25 28.542 13,800.0 9,990.4 12,015.6 8,072.0 104.9 104.6 -0.02 220.3 3,907.2 1,919.5 1,850.8 68.75 27.922 13,900.0 9,995.2 12,115.6 8,076.8 107.2 107.0 -0.02 220.9 4,007.1 1,919.5 1,850.8 68.75 27.922	12,300.0	9,919.8	10,488.5	8,016.0	71.3	69.4	-0.02	210.5	2,381.2	1,903.8	1,857.1	46.72	40.749		
12,600.0 9,933.9 10,788.5 8,025.9 77.8 76.2 -0.02 212.4 2,681.0 1,908.0 1,857.0 50.98 37.428 12,700.0 9,938.6 10,888.5 8,029.2 80.0 78.4 -0.02 213.1 2,781.0 1,909.4 1,857.0 52.41 36.429 12,800.0 9,943.3 10,988.5 8,032.6 82.2 80.7 -0.02 213.7 2,880.9 1,910.8 1,857.0 53.86 35.479 12,900.0 9,948.0 11,088.5 8,035.9 84.4 83.0 -0.02 214.4 2,980.8 1,912.2 1,856.9 55.31 34.574 13,000.0 9,952.7 11,188.5 8,039.2 86.7 85.3 -0.02 215.0 3,080.8 1,913.6 1,856.9 56.76 33.712 13,100.0 9,957.5 11,288.4 8,042.5 88.9 87.6 -0.02 215.6 3,180.7 1,915.0 1,856.8 58.23 32,890 13,200.0 9,966.9 11,488.4 8,044.8 92.3 -0.02 216.3 3,280.6	12,400.0	9,924.5	10,588.5	8,019.3	73.5	71.6	-0.02	211.2	2,481.2	1,905.2	1,857.1	48.13	39.584		
12,700.0 9,938.6 10,888.5 8,029.2 80.0 78.4 -0.02 213.1 2,781.0 1,909.4 1,857.0 52.41 36.429 12,800.0 9,943.3 10,988.5 8,032.6 82.2 80.7 -0.02 213.7 2,880.9 1,910.8 1,857.0 53.86 35.479 12,900.0 9,948.0 11,088.5 8,035.9 84.4 83.0 -0.02 214.4 2,980.8 1,912.2 1,856.9 55.31 34,574 13,000.0 9,952.7 11,188.5 8,039.2 86.7 85.3 -0.02 215.0 3,080.8 1,913.6 1,856.9 56.76 33.712 13,100.0 9,957.5 11,288.4 8,042.5 88.9 87.6 -0.02 215.6 3,180.7 1,915.0 1,856.8 58.23 32.890 13,200.0 9,962.2 11,388.4 8,045.8 91.2 89.9 -0.02 216.3 3,280.6 1,916.4 1,856.7 59.69 32.105 13,300.0 9,966.9 11,488.4 8,049.1 93.4 92.3 -0.02 216.9 <	12,500.0	9,929.2	10,688.5	8,022.6	75.6	73.9	-0.02	211.8	2,581.1	1,906.6	1,857.0	49.55	38.479		
12,800.0 9,943.3 10,988.5 8,032.6 82.2 80.7 -0.02 213.7 2,880.9 1,910.8 1,857.0 53.86 35.479 12,900.0 9,948.0 11,088.5 8,035.9 84.4 83.0 -0.02 214.4 2,980.8 1,912.2 1,856.9 55.31 34.574 13,000.0 9,952.7 11,188.5 8,039.2 86.7 85.3 -0.02 215.0 3,080.8 1,913.6 1,856.9 56.76 33.712 13,100.0 9,957.5 11,288.4 8,042.5 88.9 87.6 -0.02 215.6 3,180.7 1,915.0 1,856.8 58.23 32.890 13,200.0 9,962.2 11,388.4 8,045.8 91.2 89.9 -0.02 216.3 3,280.6 1,916.4 1,856.7 59.69 32.105 13,300.0 9,966.9 11,488.4 8,049.1 93.4 92.3 -0.02 216.9 3,380.6 1,917.8 1,856.7 61.17 31.355 13,400.0 9,971.6 11,588.4 8,057.9 98.0 97.6 -0.02 217.6 <	12,600.0	9,933.9	10,788.5	8,025.9	77.8	76.2	-0.02	212.4	2,681.0	1,908.0	1,857.0	50.98	37.428		
12,900.0 9,948.0 11,088.5 8,035.9 84.4 83.0 -0.02 214.4 2,980.8 1,912.2 1,856.9 55.31 34,574 13,000.0 9,952.7 11,188.5 8,039.2 86.7 85.3 -0.02 215.0 3,080.8 1,913.6 1,856.9 56.76 33,712 13,100.0 9,957.5 11,288.4 8,042.5 88.9 87.6 -0.02 215.6 3,180.7 1,915.0 1,856.8 58.23 32,890 13,200.0 9,962.2 11,388.4 8,045.8 91.2 89.9 -0.02 216.3 3,280.6 1,916.4 1,856.7 59.69 32,105 13,300.0 9,966.9 11,488.4 8,049.1 93.4 92.3 -0.02 216.9 3,380.6 1,917.8 1,856.7 61.17 31.355 13,400.0 9,971.6 11,588.4 8,052.4 95.7 94.6 -0.02 217.6 3,480.5 1,919.2 1,856.6 62.64 30.638 13,500.0 9,981.0 11,815.6 8,062.6 100.3 99.9 -0.02 218.4	12,700.0	9,938.6	10,888.5	8,029.2	80.0	78.4	-0.02	213.1	2,781.0	1,909.4	1,857.0	52.41	36.429		
13,000,0 9,952,7 11,188,5 8,039,2 86,7 85,3 -0.02 215,0 3,080,8 1,913,6 1,856,9 56,76 33,712 13,100,0 9,957,5 11,288,4 8,042,5 88,9 87,6 -0.02 215,6 3,180,7 1,915,0 1,856,8 58,23 32,890 13,200,0 9,962,2 11,388,4 8,045,8 91,2 89,9 -0.02 216,3 3,280,6 1,916,4 1,856,7 59,69 32,105 13,300,0 9,966,9 11,488,4 8,049,1 93,4 92,3 -0.02 216,9 3,380,6 1,917,8 1,856,7 61,17 31,355 13,400,0 9,971,6 11,588,4 8,052,4 95,7 94,6 -0.02 217,6 3,480,5 1,919,2 1,856,6 62,64 30,638 13,500,0 9,976,3 11,715,6 8,057,9 98,0 97,6 -0.02 218,4 3,607,5 1,919,6 1,855,3 64,28 29,863 13,600,0 9,981,0 11,815,6 8,062,6 100,3 99,9 -0.02 219,0	12,800.0	9,943.3	10,988.5	8,032.6	82.2	80.7	-0.02	213.7	2,880.9	1,910.8	1,857.0	53.86	35.479		
13,100.0 9,957.5 11,288.4 8,042.5 88,9 87,6 -0.02 215,6 3,180.7 1,915.0 1,856.8 58,23 32,890 13,200.0 9,962.2 11,388.4 8,045.8 91.2 89,9 -0.02 216.3 3,280.6 1,916.4 1,856.7 59,69 32,105 13,300.0 9,966.9 11,488.4 8,049.1 93.4 92.3 -0.02 216.9 3,380.6 1,917.8 1,856.7 61.17 31.355 13,400.0 9,971.6 11,588.4 8,052.4 95.7 94.6 -0.02 217.6 3,480.5 1,919.2 1,856.6 62.64 30.638 13,500.0 9,976.3 11,715.6 8,057.9 98.0 97.6 -0.02 218.4 3,607.5 1,919.6 1,855.3 64.28 29.863 13,600.0 9,981.0 11,815.6 8,062.6 100.3 99.9 -0.02 219.0 3,707.4 1,919.6 1,853.8 65,76 29.188 13,700.0 9,995.7 11,915.6 8,067.3 102.6 102.3 -0.02 219.7	12,900.0	9,948.0	11,088.5	8,035.9	84.4	83.0	-0.02	214.4	2,980.8	1,912.2	1,856.9	55.31	34.574		
13,100.0 9,957.5 11,288.4 8,042.5 88,9 87.6 -0.02 215.6 3,180.7 1,915.0 1,856.8 58,23 32,890 13,200.0 9,962.2 11,388.4 8,045.8 91.2 89.9 -0.02 216.3 3,280.6 1,916.4 1,856.7 59,69 32,105 13,300.0 9,966.9 11,488.4 8,049.1 93.4 92.3 -0.02 216.9 3,380.6 1,917.8 1,856.7 61.17 31,355 13,400.0 9,971.6 11,588.4 8,052.4 95.7 94.6 -0.02 217.6 3,480.5 1,919.2 1,856.6 62.64 30.638 13,500.0 9,976.3 11,715.6 8,057.9 98.0 97.6 -0.02 218.4 3,607.5 1,919.6 1,855.3 64.28 29.863 13,600.0 9,981.0 11,815.6 8,062.6 100.3 99.9 -0.02 219.0 3,707.4 1,919.6 1,853.8 65,76 29.188 13,700.0 9,985.7 11,915.6 8,067.3 102.6 102.3 -0.02 219.7	13,000.0	9,952.7	11,188.5	8,039.2	86.7	85.3	-0.02	215.0	3,080.8	1,913.6	1,856.9	56.76	33.712		
13,200.0 9,962.2 11,388.4 8,045.8 91.2 89.9 -0.02 216.3 3,280.6 1,916.4 1,856.7 59.69 32.105 13,300.0 9,966.9 11,488.4 8,049.1 93.4 92.3 -0.02 216.9 3,380.6 1,917.8 1,856.7 61.17 31.355 13,400.0 9,971.6 11,588.4 8,052.4 95.7 94.6 -0.02 217.6 3,480.5 1,919.2 1,856.6 62.64 30.638 13,500.0 9,976.3 11,715.6 8,057.9 98.0 97.6 -0.02 218.4 3,607.5 1,919.6 1,855.3 64.28 29.863 13,600.0 9,981.0 11,815.6 8,062.6 100.3 99.9 -0.02 219.0 3,707.4 1,919.6 1,853.8 65.76 29.188 13,700.0 9,985.7 11,916.6 8,067.3 102.6 102.3 -0.02 219.7 3,807.3 1,919.6 1,852.3 67.25 28.542 13,800.0 9,990.4 12,015.6 8,072.0 104.9 104.6 -0.02 220.3				8,042.5					3,180.7						
13,300.0 9,966.9 11,488.4 8,049.1 93.4 92.3 -0.02 216.9 3,380.6 1,917.8 1,856.7 61.17 31.355 13,400.0 9,971.6 11,588.4 8,052.4 95.7 94.6 -0.02 217.6 3,480.5 1,919.2 1,856.6 62.64 30.638 13,500.0 9,976.3 11,715.6 8,057.9 98.0 97.6 -0.02 218.4 3,607.5 1,919.6 1,855.3 64.28 29.863 13,600.0 9,981.0 11,815.6 8,062.6 100.3 99.9 -0.02 219.0 3,707.4 1,919.6 1,853.8 65.76 29.188 13,700.0 9,985.7 11,915.6 8,067.3 102.6 102.3 -0.02 219.7 3,807.3 1,919.6 1,852.3 67.25 28.542 13,800.0 9,990.4 12,015.6 8,072.0 104.9 104.6 -0.02 220.3 3,907.2 1,919.5 1,850.8 68.75 27.922 13,900.0 9,995.2 12,115.6 8,076.8 107.2 107.0 -0.02 220.9															
13,400.0 9,971.6 11,588.4 8,052.4 95.7 94.6 -0.02 217.6 3,480.5 1,919.2 1,856.6 62.64 30.638 13,500.0 9,976.3 11,715.6 8,057.9 98.0 97.6 -0.02 218.4 3,607.5 1,919.6 1,855.3 64.28 29.863 13,600.0 9,981.0 11,815.6 8,062.6 100.3 99.9 -0.02 219.0 3,707.4 1,919.6 1,853.8 65.76 29.188 13,700.0 9,985.7 11,915.6 8,067.3 102.6 102.3 -0.02 219.7 3,807.3 1,919.6 1,852.3 67.25 28.542 13,800.0 9,990.4 12,015.6 8,072.0 104.9 104.6 -0.02 220.3 3,907.2 1,919.5 1,850.8 68.75 27.922 13,900.0 9,995.2 12,115.6 8,076.8 107.2 107.0 -0.02 220.9 4,007.1 1,919.5 1,849.3 70.24 27.327															
13,600.0 9,981.0 11,815.6 8,062.6 100.3 99.9 -0.02 219.0 3,707.4 1,919.6 1,853.8 65.76 29,188 13,700.0 9,985.7 11,915.6 8,067.3 102.6 102.3 -0.02 219.7 3,807.3 1,919.6 1,852.3 67.25 28.542 13,800.0 9,990.4 12,015.6 8,072.0 104.9 104.6 -0.02 220.3 3,907.2 1,919.5 1,850.8 68.75 27.922 13,900.0 9,995.2 12,115.6 8,076.8 107.2 107.0 -0.02 220.9 4,007.1 1,919.5 1,849.3 70.24 27.327		9,971.6	11,588.4					217.6	3,480.5				30.638		
13,600.0 9,981.0 11,815.6 8,062.6 100.3 99.9 -0.02 219.0 3,707.4 1,919.6 1,853.8 65,76 29,188 13,700.0 9,985.7 11,915.6 8,067.3 102.6 102.3 -0.02 219.7 3,807.3 1,919.6 1,852.3 67.25 28.542 13,800.0 9,990.4 12,015.6 8,072.0 104.9 104.6 -0.02 220.3 3,907.2 1,919.5 1,850.8 68.75 27.922 13,900.0 9,995.2 12,115.6 8,076.8 107.2 107.0 -0.02 220.9 4,007.1 1,919.5 1,849.3 70.24 27.327	13,500.0	9,976.3	11,715.6	8,057.9	98.0	97.6	-0.02	218.4	3,607.5	1,919.6	1,855.3	64.28	29.863		
13,700.0 9,985.7 11,915.6 8,067.3 102.6 102.3 -0.02 219.7 3,807.3 1,919.6 1,852.3 67.25 28.542 13,800.0 9,990.4 12,015.6 8,072.0 104.9 104.6 -0.02 220.3 3,907.2 1,919.5 1,850.8 68.75 27.922 13,900.0 9,995.2 12,115.6 8,076.8 107.2 107.0 -0.02 220.9 4,007.1 1,919.5 1,849.3 70.24 27.327															
13,800.0 9,990.4 12,015.6 8,072.0 104.9 104.6 -0.02 220.3 3,907.2 1,919.5 1,850.8 68.75 27.922 13,900.0 9,995.2 12,115.6 8,076.8 107.2 107.0 -0.02 220.9 4,007.1 1,919.5 1,849.3 70.24 27.327															
13,900.0 9,995.2 12,115.6 8,076.8 107.2 107.0 -0.02 220.9 4,007.1 1,919.5 1,849.3 70.24 27.327															
14,000.0 9,999.9 12,215.6 8,081.5 109.5 109.4 -0.02 221.6 4,106.9 1,919.5 1,847.8 71.74 26,756															
	14,000.0	9,999.9	12,215.6	8,081.5	109.5	109.4	-0.02	221.6	4,106.9	1,919.5	1,847.8	71.74	26.756		

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

TVD Reference: MD Reference: North Reference: KB @ 3113.5usft KB @ 3113.5usft

Well Barry Miller State Com #221H

Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Server Database: Offset TVD Reference: Offset Datum

Offset Des	sign	Barry M	iller - Bar	ry Miller Sta	te Com #	121H - Well	lbore #1 - Altitu	ıde Plan #1					Offset Site Error:	0.0 usft
Survey Progr													Offset Well Error:	0.0 usft
Refere		Offse	et Vertical	Semi Major		Historials	Office A Moulth and	- 0		ance	Minimum	Commention		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	Offset Wellbor	+E/-W	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Separation Factor	Warning	
							(usft)	(usft)						
14,100.0	10,004.6	12,315.6	8,086.2	111.9	111.7	-0.02	222.2	4,206.8	1,919.5	1,846.3	73.24	26.207		
14,200.0	10,009.3	12,415.6	8,090.9	114.2	114.1	-0.02	222.9	4,306.7	1,919.5	1,844.8	74.75	25.680		
14,300.0 14,400.0	10,014.0 10,018.7	12,515.6 12,615.6	8,095.6 8,100.4	116.5 118.9	116.5 118.9	-0.02	223.5 224.1	4,406.6 4,506.5	1,919.5 1,919.5	1,843.2 1,841.7	76.26 77.77	25.172 24.683		
14,400.0	10,018.7	12,715.6	8,105.1	121.2	121.2	-0.02 -0.02	224.1	4,606.4	1,919.5	1,840.2	79.28	24.003		
14,600.0	10,023.4	12,715.6	8,109.8	121.2	121.2	-0.02	224.6	4,706.3	1,919.5	1,838.7	80.79	23.759		
14,000.0	10,020.1	12,013.0	0,109.0	123.0	123.0	-0.02	225.4	4,700.3	1,515.5	1,030.7	00.79	23.739		
14,700.0	10,032.8	12,915.6	8,114.5	125.9	126.0	-0.02	226.1	4,806.2	1,919.5	1,837.2	82.31	23.321		
14,800.0	10,037.6	13,015.6	8,119.2	128.3	128.4	-0.02	226.7	4,906.0	1,919.5	1,835.6	83.82	22.898		
14,900.0	10,042.3	13,115.6	8,124.0	130.7	130.8	-0.02	227.3	5,005.9	1,919.4	1,834.1	85.34	22.491		
15,000.0	10,047.0	13,215.6	8,128.7	133.0	133.2	-0.02	228.0	5,105.8	1,919.4	1,832.6	86.87	22.097		
15,100.0	10,051.7	13,315.6	8,133.4	135.4	135.6	-0.02	228.6	5,205.7	1,919.4	1,831.0	88.39	21.716		
15,200.0	10,056.4	13,415.6	8,138.1	137.8	138.0	-0.02	229.3	5,305.6	1,919.4	1,829.5	89.91	21,347		
15,300.0	10,061.1	13,515.6	8,142.9	140.1	140.4	-0.02	229.9	5,405.5	1,919.4	1,828.0	91.44	20.991		
15,400.0	10,065.8	13,615.6	8,147.6	142.5	142.8	-0.02	230.5	5,505.4	1,919.4	1,826.4	92.97	20.646		
15,500.0	10,070.5	13,715.6	8,152.3	144.9	145.2	-0.02	231.2	5,605.2	1,919.4	1,824.9	94.50	20.312		
15,600.0	10,075.3	13,815.6	8,157.0	147.3	147.6	-0.02	231.8	5,705.1	1,919.4	1,823.4	96.03	19.988		
15,700.0	10,080.0	13,915.6	8,161.7	149.7	150.0	-0.02	232.5	5,805.0	1,919.4	1,821.8	97.56	19.674		
15,800.0	10,084.7	14,015.6	8,166.5	152.0	152.4	-0.02	233.1	5,904.9	1,919.4	1,820.3	99.09	19.370		
15,900.0	10,089.4	14,115.6	8,171.2	154.4	154.8	-0.02	233.7	6,004.8	1,919.4	1,818.7	100.62	19.075		
16,000.0	10,094.1	14,215.6	8,175.9	156.8	157.2	-0.02	234.4	6,104.7	1,919.3	1,817.2	102.16	18.788		
16,100.0	10,098.8	14,315.6	8,180.6	159.2	159.6	-0.02	235.0	6,204.6	1,919.3	1,815.6	103.69	18.510		
16,200.0	10,103.5	14,415.6	8,185.3	161.6	162.0	-0.02	235.7	6,304.5	1,919.3	1,814.1	105.23	18.239		
16,300.0	10,108.2	14,515.6	8,190.1	164.0	164.4	-0.02	236.3	6,404.3	1,919.3	1,812.6	106.77	17.977		
16,400.0	10,113.0	14,615.6	8,194.8	166.4	166.9	-0.02	236.9	6,504.2	1,919.3	1,811.0	108.31	17.721		
16,500.0	10,117.7	14,715.6	8,199.5	168.8	169.3	-0.02	237.6	6,604.1	1,919.3	1,809.5	109.84	17.473		
16,600.0	10,122.4	14,815.6	8,204.2	171.2	171.7	-0.02	238.2	6,704.0	1,919.3	1,807.9	111.38	17,231		
16,700.0	10,127,1	14,915.6	8,208,9	173.6	174.1	-0.02	238.9	6,803.9	1,919.3	1,806.4	112.93	16,996		
16,800.0	10,131.8	15,015.6	8,213.7	176.0	176.5	-0.02	239.5	6,903.8	1,919.3	1,804.8	114.47	16.767		
16,900.0	10,136.5	15,115.6	8,218.4	178.4	178.9	-0.02	240.1	7,003.7	1,919.3	1,803.3	116.01	16.544		
17,000.0	10,141.2	15,215.6	8,223.1	180.8	181.4	-0.02	240.8	7,103.5	1,919.3	1,801.7	117.55	16.327		
17,100.0	10,145.9	15,315.6	8,227.8	183.2	183.8	-0.02	241.4	7,203.4	1,919.2	1,800.2	119.10	16.115		
17,200.0	10,150.7	15,415.6	8,232.6	185.6	186.2	-0.02	242.1	7,303.3	1,919.2	1,798.6	120.64	15,909		
17,200.0	10,151.5	15,433.5	8,233.4	186.1	186.6	-0.02	242.2	7,321.3	1,919.2	1,798.3	120.92	15.872		
17,218.7	10,151.5	15,434.3	8,233.4	186.1	186.7	-0.02	242.2	7,322.0	1,919.2	1,798.3	120.93	15.871		
17,210.7	10,101,0	10,707.0	0,200.4	100,1	100.7	0.02	272,2	1,022.0	1,010.2	1,700.0	120,00	10,071		

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

TVD Reference: KB @ 3113.5usft KB @ 3113.5usft MD Reference: Grid North Reference:

Survey Calculation Method: Minimum Curvature

Well Barry Miller State Com #221H

Output errors are at 2.00 sigma EDM 5000.14 Server Database:

urvey Prog	ram: 163	-MWD											Offset Well Error:	0.0 us
Refer		Offse	et	Semi Major	Axis				Dista	ince				
leasured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Too l face	Offset Wellbor +N/-S	+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	164.69	-110.3	30.2	114.3					
100.0	100.0	99.3	99.3	0.1	0.1	164.79	-110.2	30.0	114.2	113.9	0.28	414.418		
200.0	200.0	200.2	200.2	0.5	0.4	165.08	-109.9	29.3	113.7	112.9	0.86	131.728		
300.0	300.0	301.3	301.3	0.8	0.7	165.39	-108.5	28.3	112.1	110.5	1.59	70,659		
400.0	400.0	402.0	402.0	1.2	1.1	165.67	-106.2	27.1	109.7	107.4	2.31	47.557		
500.0	500.0	502.7	502.6	1.6	1.5	166.20	-103.5	25.4	106.7	103.6	3.03	35.251		
600.0	600.0	603.0	602.9	1.9	1.8	166.74	-100.3	23.6	103.1	99.3	3.74	27.529		
700.0	700.0	703.2	702.9	2.3	2.2	167.43	-96.8	21.6	99.2	94.8	4.46	22.241		
800.0	800.0	803.7	803.3	2.6	2.5	168.49	-93.1	19.0	95.1	89.9	5.18	18.351		
900.0	900.0	902.3	901.8	3.0	2.9	169.50	-89.1	16.5	90.7	84.8	5.89	15.388		
1,000.0	1,000.0	1,001.0	1,000.5	3.4	3.3	170.09	-87.4	15.3	88.8	82.2	6.61	13.440		
1,068.6	1,068.6	1,068.1	1,067.6	3.6	3.5	170.27	-86.6	14.9	87.9	80.8	7.08	12.410 CC	, ES	
1,100.0	1,100.0	1,098.1	1,097.6	3.7	3.6	170.29	-86.9	14.9	88.2	80.9	7.30	12.080		
1,200.0	1,200.0	1,195.8	1,195.2	4.1	3.9	170.23	-89.9	15.5	91.3	83.4	7.97	11.454		
1,300.0	1,300.0	1,295.6	1,295.0	4.4	4.2	170.07	-94.2	16.5	95.7	87.0	8.66	11.047		
1,400.0	1,400.0	1,392.6	1,391.8	4.8	4.6	169.60	-99.2	18.2	101.1	91.8	9.33	10.839		
4 500 5	4 500 5	4 400 5	4 400 =			400.00	100 =	20.5	100 :	20.1	10.01	40.000		
1,500.0	1,500.0	1,490.8	1,489.7	5.1	4.9	169.39	-106.8	20.0	109.1	99.1	10.01	10.903		
1,600.0	1,600.0	1,587.8	1,586.2	5.5	5.2	-127.16	-116.3	20.2	119.2	108.6	10.67	11.171		
1,700.0	1,700.0	1,687.8	1,685.6	5.9	5.6	-126.43	-127.2	18.6	131.3	120.0	11.37	11.548		
1,800.0	1,799.9	1,783.3	1,780.4	6.2	5.9	-126.00	-138.7	16.3	145.3	133.3	12.03	12.082		
1,900.0	1,899.7	1,880.3	1,876.4	6.6	6.3	-126.05	-152.0	14.1	162.1	149.4	12.70	12.761		
2,000.0	1,999.4	1,979.1	1,974.3	6.9	6.7	-127.24	-165.6	14.2	180.3	166.9	13.41	13.445		
2,100.0	2,098.9	2,065.9	2,059.8	7.3	7.0	-127.70	-180.4	12.4	202.5	188.5	13.97	14.493		
2,200.0	2,198.3	2,157.4	2,149.0	7.6	7.4	-127.26	-200.1	7.1	229.2	214.6	14.60	15.701		
2,300.0	2,297.4	2,253.6	2,242.5	8.0	7.8	-126.93	-221.9	0.7	258.0	242.7	15.31	16.849		
2,400.0	2,396.4	2,347.8	2,333.9	8.4	8.2	-126.85	-243.5	-6.2	287.4	271.4	16.01	17,953		
_,	_,	_,	_,				,-	-,-				,		
2,500.0	2,495.5	2,445.1	2,428.1	8.8	8.6	-126.40	-266.1	-15.3	316.9	300.1	16.76	18,908		
2,600.0	2,594.5	2,545.3	2,525.2	9.2	9.1	-125.99	-288.5	-25.0	345.4	327.8	17.55	19.683		
2,700.0	2,693.5	2,643.7	2,620.9	9.5	9.5	-125.67	-309.6	-34.6	373.0	354.7	18.32	20.363		
2,800.0	2,792.5	2,738.0	2,712.5	9.9	10.0	-125.42	-329.8	-43.8	400.6	381.5	19.04	21.035		
2,900.0	2,891.6	2,834.8	2,806.6	10.3	10.4	-125.20	-350.6	-53.1	428.3	408.5	19.80	21.626		
3,000.0	2,990.6	2,935.7	2,904.9	10.7	10.9	-125.07	-371.5	-62.3	455.3	434.7	20.61	22.090		
3,100.0	3,089.6	3,034.8	3,001.7	11.1	11.4	-125.08	-391.2	-70.6	481.5	460.1	21.40	22,502		
3,200.0	3,188.6	3,131.4	3,096.1	11.5	11.8	-125.17	-410.0	- 78.0	507.6	485.4	22.16	22,904		
3,300.0	3,287.7	3,227.5	3,190.2	11.9	12.3	-125.32	-428.5	-84.8	533.5	510.6	22.92	23.276		
3,400.0	3,386.7	3,319.5	3,280.0	12.3	12.7	- 125.30	-447.1	-92.5	560.2	536.5	23.64	23.692		
3,500.0	2 495 7	2 /17 /	3,375.5	12.7	12.2	-125.28	-467.0	-100.8	586.9	562.4	24.42	24.022		
	3,485.7	3,417.4			13.2						24.43			
3,600.0	3,584.8	3,509.3	3,465.1	13.1	13.6	-125.34 125.33	-485.6	-107.8	613.6	588.5	25.15	24.394		
3,700.0 3,800.0	3,683.8 3,782.8	3,590.7	3,544.1	13.5 13.9	14.0	-125.22 124.95	-503.7 -525.3	-115.5 -125.5	642.1 672.1	616.4	25.77 26.48	24.918		
		3,680.5 3,776.8	3,630.7		14.5 15.0	-124.95 -124.66				645.6 675.2		25.380 25.755		
3,900.0	3,881.8	3,776.8	3,723.5	14.4	15.0	-124.66	-548.8	-136.2	702.4	675.2	27,27	25,755		
4,000.0	3,980.9	3,878.2	3,821.3	14.8	15.5	-124.43	-573.0	-147.2	732.3	704.2	28.12	26.039		
4,100.0	4,079.9	3,981.9	3,921.8	15.2	16.1	-124.27	-596.7	-157.7	761.3	732.3	28.99	26,258		
4,200.0	4,178.9	4,089.6	4,026.4	15.6	16.6	-124.15	-619.8	-168.6	788.9	759.0	29.90	26.388		
4,300.0	4,277.9	4,188.0	4,122.2	16.0	17.1	-124.07	-639.9	-178.2	815.6	784.9	30.70	26.564		
4,400.0	4,377.0	4,280.7	4,212.5	16.4	17.6	-124.03	-659.1	-187.0	842.6	811.1	31.46	26.786		
1, 400.0	.,011.0	1,200.7	1,212.5	10.4	17.5	124.00	-000.1	.107.0	072.0	011.1	31.70	20.700		
4,500.0	4,476.0	4,375.2	4,304.4	16.8	18.1	-123.94	-679.0	-196.5	869.8	837.6	32.23	26,990		
4,600.0	4,575.0	4,470.7	4,397.3	17.2	18.5	-123.85	-699.3	-206.2	897.3	864.2	33.01	27,179		
4,698.1	4,672.2	4,565.6	4,489.5	17.6	19.0	-123.80	-719.4	-215.4	924.1	890.3	33.79	27.347		
4,700.0	4,674.0	4,567.5	4,491.3	17.6	19.0	-123.80	-719.8	-215.6	924.7	890.8	33.81	27.350		
4,800.0	4,773.3	4,667.1	4,588.3	18.0	19.5	-124.07	-740.6	-224.5	951.2	916.6	34.62	27.474		
4,900.0	4,872.7	4,771.9	4,690.6	18.4	20.0	-124.21	-761.8	-233.0	975.7	940.3	35.46	27.513		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

2.00 sigma EDM 5000.14 Server

Name	Offset De			iller - Bar	rry Miller Sta	ite Com #	122H - Well	lbore #1 - Actu	al					Offset Site Error:	0.0 usft
				t	Semi Major	Axis				Dista	ınce			Offset Well Error:	0.0 usft
5,000 5,0724	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		Warning	
Second S	5,000.0	4,972.5	4,878.7	4,795.1	18.8	20.6	-124.23	-782.4	-241.3	997.9	961.6	36.30	27.490		
0.2314 0.2018 0.1447 0.0008 19.6 21.7 172.44 -1247 -267.8 1.0004 1.0132 30.14 27.200															
5,000, 5,722, 3, 170, 2, 5,000, 4, 19, 8, 22, 0, 172, 40, 48, 2, 26, 11, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1															
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56000 56723 54001 53858 20.0 22.4 174.83 -487.8															
5,700.0 5,872.3 5,886.0 5,486.6 21.2 23.9 178.38 -406.7 -201.2 1,118.6 1,077.3 4,144 25,986 5,900.0 5,972.3 5,986.5 5,965.5 24.8 24.9 178.40 -444.9 -400.7 1,180.7 1,187.7 4,20 2,783 -4,783 5,986.5 2,783 5,986.5 2,881 -4,882 -															
5,800.0 5,72.3 5,905.0 5,006.2 21.5 24.4 17.602 4.227 4.000.2 1.136.0 1.002.8 42.22 28.881															
5,000.0 5,072.3 5,076.3 5,096.3 21.8 24.9 178.40 -448.9 -409.7 1,107.7 1,107.7 4,000 26,783 6,000.0 5,072.3 5,096.0 5,000.2 22.2 26.4 177.61 -469.7 -3,22.6 1,177.7 1,107.7 4,000 26,787 -4,000.0 6,072.3 6,096.1 5,096.0 22.9 26.1 177.61 -469.7 -3,22.6 1,177.7 1,107.7 4,000 26,577 -4,000.0 6,072.3 6,196.0 6,000.0 6,272.3 6,196.0 6,000.0 6,272.3 6,196.0 6,196.0 29.2 27.4 177.61 -462.7 -3,22.6 1,176.8 4,196.0 6,000.0 6,00															
6 1000 6 0723 5 5.9941 5 ,886.5 22.6 26.7 177.18															
6 2000 6 1723 6 0.0831 5 0.980.0 22.9 28.1 177.51 -980.7 -229.9 1,196.9 1,151.9 44.90 28.651 6.000.0 6.372.3 6 127.0 6,116.5 23.2 28.5 177.51 -980.3 -336.4 1,214.3 1,187.8 44.05 28.653 6.000.0 6.372.3 6,227.0 6,116.5 23.5 28.9 178.24 -1.013.3 -242.3 123.9 1,187.8 44.05 28.796 6.000.0 6.372.3 6,237.0 6,216.9 23.9 27.4 178.64 -1.093.5 -280.0 1,273.5 1,226.7 47.60 28.04 1.000.0 6.372.3 6,805.0 6,400.1 24.6 28.7 178.64 -1.093.5 -280.0 1,273.5 1,226.7 47.60 28.04 1.000.0 6.372.3 6,805.0 6,400.1 24.6 28.7 178.64 -1.082.3 -288.1 1,289.1 1,240.3 48.55 28.389 6.000.0 6,372.3 6,805.0 6,400.1 24.6 28.7 178.64 -1.082.3 -288.1 1,289.1 1,240.3 48.55 28.389 6.000.0 6,372.3 6,850.4 6,733.5 25.2 22.7 178.69 -1.111.8 -377.5 1,313.1 1,282.6 95.53 28.885 7.000.0 6,372.3 6,850.4 6,733.5 25.2 22.7 178.69 -1.111.8 -377.5 1,313.1 1,282.6 95.53 28.885 7.000.0 6,372.3 7,383.7 6,965.7 28.9 30.6 -178.69 -1.111.8 -377.5 1,313.1 1,282.6 95.53 28.885 7.000.0 7,772.3 7,383.7 6,965.7 7.000.0 7,772.3 7,383.7 6,965.7 7.000.0 7,772.3 7,383.7 6,965.7 7.000.0 7,772.3 7,383.7 6,965.7 7.000.0 7,772.3 7,383.7 6,965.7 7.000.0 7,772.3 7,383.7 6,965.7 7.000.0 7,772.3 7,383.7 7,480.0 7,313.3 27.0 31.9 1,783.9 1,183.9 1,383.2 1,286.3 1,286.1 1,286.	6,000.0	5,972.3	5,910.9	5,809.2	22.2	25.4	176.87	-958.3	-317.0	1,165.4	1,121.6	43.83	26,591		
6.300.0 6.272,3 6.276,0 6.195,5 23.5 28.9 178,21 1-1013,3 -346,2 1214,3 1,168,6 45,58 26,644 6.400.0 6.72,3 6.300.0 6.195,5 23.5 28.9 178,21 1-1013,3 -342,3 1233,6 1,167,6 40,0 26,795 6.800.0 6.72,3 6.600.2 6.347,3 24.2 28.0 178,0 8 1-1059,5 360.0 1273,5 1,225,7 47.80 26,644 6.800.0 6.72,3 6.600.0 6.490,1 24.6 28.7 178,46 1-1059,5 360.0 1273,5 1,225,7 47.80 26,644 6.800.0 6.72,3 6.600.0 6.490,1 24.0 28.2 178,73 1-1068,8 374.0 13,02.0 1,262,3 40,74 26,139,6 6.800.0 6.72,3 6.600,4 6.733,5 52.2 28.7 178,89 1-1118,8 37.7 5,1313,1 1,262.6 50,53 25,985 7,700.0 6.072,3 6.600,4 6.733,5 52.2 28.7 178,89 1-1118,8 37.7 5,1313,1 1,262.6 50,53 25,985 7,700.0 7.072,3 7.083,7 6.965,7 29.0 30.6 -178,89 1-133,7 -362,5 13,19 1,279,8 20,00 2,557,1 7,200.0 7.72,3 7.083,7 6.965,7 29.0 30.6 -178,89 1-133,7 -362,5 13,19 1,279,8 20,00 2,557,1 7,200.0 7.72,3 7.300.2 7.781,7 26.6 31,4 -178,78 1-144,2 365,9 1.335,9 1.285,0 2.524,2 7,300.0 7.272,3 7.300.2 7.781,7 26.6 31,4 -178,78 1-144,2 365,9 1.335,9 1.285,0 2.524,2 2.540,0 7.700.0 7.723,3 7.000,7 7.733,3 7.000,7	6,100.0	6,072.3	5,989.1	5,886.5	22.5	25.7	177.18	- 969.7	-322.6	1,179.7	1,135.3	44.39	26.577		
6.500.0 6.472.3 6.230.0 6.219.9 23.9 27.4 178.64 - 1.034.6 - 350.8 1254.4 1,207.6 46.91 26.795 6.500.0 6.572.3 6.402.5 6.347.3 24.2 28.0 178.08 - 1.095.5 - 360.0 1273.5 1.255.7 47.80 26.641 6.700.0 6.672.3 6.505.0 6.409.1 24.6 28.7 179.46 - 1.092.3 - 368.1 12.99.1 1.240.3 48.5 26.399 6.500.0 6.772.3 6.733.1 6.617.0 24.0 29.2 170.73 - 1.098.5 - 374.0 1302.0 1262.3 49.74 26.179 6.500.0 6.772.3 6.733.1 6.617.0 24.0 29.2 170.73 - 1.008.8 - 374.0 1302.0 1262.3 49.74 26.179 6.500.0 6.772.3 6.733.1 6.617.0 24.0 29.2 170.73 - 1.108.8 1.374.0 1302.0 1262.3 49.74 26.179 6.500.0 6.772.3 6.850.4 6.733.5 25.2 29.7 170.89 1.1118 - 377.5 1313.1 1.262.6 50.33 25.985 7.500.0 6.672.3 6.860.4 6.733.5 25.2 29.7 170.89 1.1118 - 377.5 1313.1 1.262.6 50.33 25.985 7.500.0 7.702.3 7.681.7 6.965.7 2.69 30.6 170.83 1.132.1 - 380.2 1323.1 1.271.8 51.20 25.571 7.200.0 7.722.3 7.502.2 7.081.9 28.3 31.0 1.78.83 1.1422. 383.9 13.99.2 1.286.3 25.24 25.342 7.300.0 7.272.3 7.500.0 7.313.3 27.0 31.7 170.96 1.156.1 380.9 13.99.2 1.286.3 25.40 25.144 7.400.0 7.372.3 7.400.0 7.313.3 27.0 31.7 170.96 1.156.1 380.9 13.503 1.296.1 54.21 24.908 7.500.0 7.672.3 7.673.7 7.781.4 7.671.8 20.0 32.4 173.55 1.177.9 2.249 1.381.7 1.391.7 1.392.4 58.30 24.597 7.700.0 7.672.3 7.781.4 7.671.8 20.0 32.4 173.55 1.177.9 2.249 1.381.7 1.392.4 58.30 24.591 7.500.0 7.672.3 7.674.0 7.771.1 28.0 32.5 188.90 1.171.9 1.186.7 1.393.3 1.392.9 57.42 24.268 8.000.0 8.723.3 6.952.7 7.854.0 7.785.1 28.7 32.5 188.90 1.117.9 1.186.7 1.393.3 1.393.9 57.42 24.268 8.000.0 8.723.3 7.690.0 7.785.1 28.7 32.5 188.90 1.117.9 1.108.0 1.108.0 1.393.3 1.399.9 57.42 24.268 8.000.0 8.723.3 8.001.0 7.884.4 30.8 32.5 188.90 1.117.9 1.108.0 1.108.0 1.394.9 1.394.2 55.00 24.591 8.000.0 8.723.3 8.281.0 7.785.1 28.7 32.5 188.10 1.117.9 1.186.9 1.189.3 1.393.3 1.395.9 57.42 24.268 8.000.0 8.723.3 8.281.0 7.785.1 32.5 188.0 1.118.9 1.118.9 1.118.9 1.118.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394.9 1.394	6,200.0	6,172.3	6,063.1	5,959.0	22.9	26.1	177.51	-982.7	-328.9	1,196.8	1,151.9	44.90	26.651		
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9,100,0 9,072,3 8,281,0 7,914,8 32,9 32,4 158,21 -1,155,2 159,3 1,857,1 1,804,6 52,53 35,356 9,200,0 9,172,3 8,281,0 7,914,8 33,2 32,4 158,21 -1,155,2 159,3 1,921,0 1,869,5 51,49 37,311 9,272,2 9,244,5 8,281,0 7,914,8 33,5 32,4 158,21 -1,155,2 159,3 1,968,9 1,918,2 50,75 38,798 9,300,0 9,272,3 8,315,1 7,924,9 33,6 32,4 64,89 -1,150,5 191,6 1,986,6 1,935,7 50,82 39,090 9,350,0 9,322,1 8,319,7 7,926,1 33,7 32,4 60,88 -1,149,8 195,9 2,019,3 1,969,0 50,34 40,115 9,400,0 9,371,3 8,325,0 7,927,4 33,9 32,4 57,18 -1,149,1 201,0 2,051,1 2,001,3 49,86 41,141 9,450,0 9,419,5 8,331,0 7,928,8 34,0 32,4 53,82 -1,148,2 206,7 2,081,8 2,032,4 49,38 42,159 9,500,0 9,466,4 8,337,6 7,930,3 34,1 32,4 50,79 -1,147,2 213,1 2,111,1 2,062,1 48,91 43,162 9,550,0 9,511,6 8,377,0 7,937,0 34,2 32,3 47,40 -1,141,0 251,5 2,139,8 2,091,1 48,75 43,897	8,900.0	8,872.3	8,275.8	7,913.0	32,2	32.4	158.40	-1,155.9	154.5	1,739.6	1,685.0	54.56	31.884		
9,200.0 9,172.3 8,281.0 7,914.8 33.2 32.4 158.21 -1,155.2 159.3 1,921.0 1,869.5 51.49 37.311 9,272.2 9,244.5 8,281.0 7,914.8 33.5 32.4 158.21 -1,155.2 159.3 1,968.9 1,918.2 50.75 38.798 9,300.0 9,272.3 8,315.1 7,924.9 33.6 32.4 64.89 -1,150.5 191.6 1,986.6 1,935.7 50.82 39.090 9,350.0 9,322.1 8,319.7 7,926.1 33.7 32.4 60.88 -1,149.8 195.9 2,019.3 1,969.0 50.34 40.115 9,400.0 9,371.3 8,325.0 7,927.4 33.9 32.4 57.18 -1,149.1 201.0 2,051.1 2,001.3 49.86 41.141 9,450.0 9,419.5 8,331.0 7,928.8 34.0 32.4 53.82 -1,148.2 206.7 2,081.8 2,032.4 49.38 42.159 9,500.0 9,466.4 8,337.6 7,930.3 34.1 32.4 50.79 -1,147.2 213.1 2,111.1 2,062.1 48.91 43.162 9,550.0 9,511.6 8,377.0 7,937.0 34.2 32.3 47.40 -1,141.0 251.5 2,139.8 2,091.1 48.75 43.897	9,000.0	8,972.3	8,281.0	7,914.8	32.5	32.4	158.21	-1,155.2	159.3	1,796.5	1,743.0	53.57	33,533		
9,272.2 9,244.5 8,281.0 7,914.8 33.5 32.4 158.21 -1,155.2 159.3 1,968.9 1,918.2 50.75 38.798 9,300.0 9,272.3 8,315.1 7,924.9 33.6 32.4 64.89 -1,150.5 191.6 1,986.6 1,935.7 50.82 39.090 9,350.0 9,322.1 8,319.7 7,926.1 33.7 32.4 60.88 -1,149.8 195.9 2,019.3 1,969.0 50.34 40.115 9,400.0 9,371.3 8,325.0 7,927.4 33.9 32.4 57.18 -1,149.1 201.0 2,051.1 2,001.3 49.86 41.141 9,450.0 9,419.5 8,331.0 7,928.8 34.0 32.4 53.82 -1,148.2 206.7 2,081.8 2,032.4 49.38 42.159 9,500.0 9,466.4 8,337.6 7,930.3 34.1 32.4 50.79 -1,147.2 213.1 2,111.1 2,062.1 48.91 43.162 9,550.0 9,511.6 8,377.0 7,937.0 34.2 32.3 47.40 -1,141.0 251.5 2,139.8 2,091.1 48.75 43.897	9,100.0	9,072.3	8,281.0	7,914.8	32.9	32.4	158.21	-1,155.2	159.3	1,857.1	1,804.6	52,53	35,356		
9,300.0 9,272.3 8,315.1 7,924.9 33.6 32.4 64.89 -1,150.5 191.6 1,986.6 1,935.7 50.82 39.090 9,350.0 9,322.1 8,319.7 7,926.1 33.7 32.4 60.88 -1,149.8 195.9 2,019.3 1,969.0 50.34 40.115 9,400.0 9,371.3 8,325.0 7,927.4 33.9 32.4 57.18 -1,149.1 201.0 2,051.1 2,001.3 49.86 41.141 9,450.0 9,419.5 8,331.0 7,928.8 34.0 32.4 53.82 -1,148.2 206.7 2,081.8 2,032.4 49.38 42.159 9,500.0 9,466.4 8,337.6 7,930.3 34.1 32.4 50.79 -1,147.2 213.1 2,111.1 2,062.1 48.91 43.162 9,550.0 9,511.6 8,377.0 7,937.0 34.2 32.3 47.40 -1,141.0 251.5 2,139.8 2,091.1 48.75 43.897									159.3		1,869.5	51.49			
9,350.0 9,322.1 8,319.7 7,926.1 33.7 32.4 60.88 -1,149.8 195.9 2,019.3 1,969.0 50.34 40,115 9,400.0 9,371.3 8,325.0 7,927.4 33.9 32.4 57.18 -1,149.1 201.0 2,051.1 2,001.3 49.86 41.141 9,450.0 9,419.5 8,331.0 7,928.8 34.0 32.4 53.82 -1,148.2 206.7 2,081.8 2,032.4 49.38 42.159 9,500.0 9,466.4 8,337.6 7,930.3 34.1 32.4 50.79 -1,147.2 213.1 2,111.1 2,062.1 48.91 43.162 9,550.0 9,511.6 8,377.0 7,937.0 34.2 32.3 47.40 -1,141.0 251.5 2,139.8 2,091.1 48.75 43.897															
9,400.0 9,371.3 8,325.0 7,927.4 33.9 32.4 57.18 -1,149.1 201.0 2,051.1 2,001.3 49.86 41,141 9,450.0 9,419.5 8,331.0 7,928.8 34.0 32.4 53.82 -1,148.2 206.7 2,081.8 2,032.4 49.38 42.159 9,500.0 9,466.4 8,337.6 7,930.3 34.1 32.4 50.79 -1,147.2 213.1 2,111.1 2,062.1 48.91 43.162 9,550.0 9,511.6 8,377.0 7,937.0 34.2 32.3 47.40 -1,141.0 251.5 2,139.8 2,091.1 48.75 43.897	9,300.0	9,272.3	8,315.1	7,924.9	33.6	32.4	64.89	-1,150.5	191.6	1,986.6	1,935.7	50.82	39.090		
9,450.0 9,419.5 8,331.0 7,928.8 34.0 32.4 53.82 -1,148.2 206.7 2,081.8 2,032.4 49.38 42.159 9,500.0 9,466.4 8,337.6 7,930.3 34.1 32.4 50.79 -1,147.2 213.1 2,111.1 2,062.1 48.91 43.162 9,550.0 9,511.6 8,377.0 7,937.0 34.2 32.3 47.40 -1,141.0 251.5 2,139.8 2,091.1 48.75 43.897															
9,500.0 9,466.4 8,337.6 7,930.3 34.1 32.4 50.79 -1,147.2 213.1 2,111.1 2,062.1 48.91 43.162 9,550.0 9,511.6 8,377.0 7,937.0 34.2 32.3 47.40 -1,141.0 251.5 2,139.8 2,091.1 48.75 43.897															
9,550.0 9,511.6 8,377.0 7,937.0 34.2 32.3 47.40 -1,141.0 251.5 2,139.8 2,091.1 48.75 43.897															
	9,600.0	9,554.7	8,377.0	7,937.0	34.4	32.3	45.25	-1,141.0	251.5	2,165.4	2,117.1	48.23	44.894		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Local Co-ordinate Reference:

TVD Reference: KB @ 3113.5usft
MD Reference: KB @ 3113.5usft
North Reference: Grid

orth Reference:

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

Database: EDM 5000.14 Server

Well Barry Miller State Com #221H

		MWD Offse		Comi Maion									Offset Well Error:	0.0 usft
Measured V		Olise			Avie				Dista	nco			Oliset Well Life.	0.0 usit
		Measured	Vertica l	Semi Major Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
•	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	-	
9,650.0	9,595.5	8,377.0	7,937.0	34.5	32.3	43.36	-1,141.0	251.5	2,189.2	2,141.4	47.74	45.852		
9,700.0	9,633.7	8,377.0	7,937.0	34.6	32.3	41.72	-1,141.0	251.5	2,211.0	2,163.7	47.28	46.761		
9,750.0	9,668.8	8,377.0	7,937.0	34.7	32.3	40.30	- 1,141.0	251.5	2,230.8	2,184.0	46.86	47.607		
9,800.0	9,700.8	8,410.0	7,941.0	34.8	32.3	38.70	-1,135.5	283.7	2,248.2	2,201.5	46.76	48.082		
9,850.0	9,729.2	8,441.8	7,944.5	35.0	32.3	37.41	-1,130.0	314.9	2,262.8	2,216.1	46.67	48.483		
9,900.0	9,754.0	8,471.0	7,947.3	35.1	32.3	36.40	-1,124.8	343.5	2,274.4	2,227.8	46.59	48.822		
9,950.0	9,774.9	8,471.0	7,947.3	35.3	32.3	35.86	-1,124.8	343.5	2,283.4	2,237.0	46.36	49.255		
10,000.0	9,791.8	8,509.7	7,950.5	35.5	32.3	35.22	-1,118.1	381.4	2,289.1	2,242.6	46.49	49.238		
10,050.0	9,804.5	8,528.6	7,951.8	35.8	32.4	34.93	-1,115.0 1,100.3	400.0	2,292.2	2,245.6	46.53	49.258		
10,100.0 10,125.2	9,812.9 9,815.5	8,566.0 8,566.0	7,953.7 7,953.7	36.0 36.2	32.6 32.6	34.75 34.82	-1,109.3 -1,109.3	437.0 437.0	2,292.6 2,291.4	2,245.8 2,244.6	46.77 46.79	49.013 48.973		
10,200.0	9,820.7	8,566.0	7,953.7	36.7	32.6	34.88	-1,109.3 1,105.5	437.0	2,287.5	2,240.6	46.93	48.747		
10,225.5 10,300.0	9,822.0 9,825.5	8,594.1 8,621.0	7,954.7 7,955.2	36.9 37.5	32.9 33.2	34.81 34.74	-1,105.5 -1,102.2	464.8 491.5	2,286.0 2,282.8	2,238.8	47.19 47.65	48.437 47.910		
10,300.0	9,830.2	8,660.0	7,955.2	38.4	33.6	34.74	-1,102.2	530.3	2,280.9	2,235.1 2,232.5	48.39	47.135		
10,400.0	9,830.8	8,660.0	7,955.3	38.5	33.6	34.64	-1,096.3	530.3	2,280.9	2,232.4	48.47	47.056		
10,500.0	9,834.9	8,690.5	7,955.0	39.4	34.0	34.57	1 006 1	560.7	2,281.9	2 222 7	49.24	46.346		
10,500.0	9,839.7	8,723.5	7,955.0	40.6	34.5	34.52	-1,096.1 -1,094.9	593.6	2,281.9	2,232.7 2,235.6	50.23	45.507		
10,700.0	9,844.4	8,941.0	7,954.2	41.9	37.6	34.71	-1,104.3	810.5	2,290.6	2,237.5	53.15	43.097		
10,700.0	9,849.1	9,000.2	7,967.3	43.3	38.6	34.82	-1,107.8	869.3	2,291.3	2,236.6	54.73	41.864		
10,900.0	9,853.8	10,900.0	7,972.8	44.7	71.3	34.96	-1,113.2	961.2	2,294.0	2,217.8	76.18	30.113		
11,000.0	9,858.5	9,214.3	7,980.1	46.3	42.3	35.10	-1,118.4	1,082.8	2,295.7	2,236.5	59.18	38.792		
11,100.0	9,863.2	9,378.2	7,990.4	47.9	45.3	35.22	-1,120.9	1,246.3	2,295.6	2,233.5	62.13	36.946		
11,200.0	9,867.9	9,474.9	7,996.7	49.6	47.1	35.25	-1,120.7	1,342.9	2,294.4	2,230.0	64.39	35.632		
11,300.0	9,872.6	9,573.3	8,002.0	51.4	49.0	35.24	-1,119.1	1,441.1	2,293.2	2,226.6	66.69	34.389		
11,400.0	9,877.3	9,668.4	8,006.1	53.2	50.9	35.19	-1,116.3	1,536.1	2,292.2	2,223.3	68.96	33,241		
11,500.0	9,882.1	9,767.6	8,010.7	55.1	52.9	35.16	-1,114.2	1,635.1	2,291.5	2,220.1	71.35	32.117		
11,600.0	9,886.8	9,853.8	8,014.3	57.0	54.6	35.11	-1,111.8	1,721.2	2,290.7	2,217.1	73.62	31.116		
11,700.0	9,891.5	10,050.9	8,023.4	58.9	58.7	34.97	-1,103.6	1,917.9	2,289.2	2,212.1	77.06	29.706		
11,800.0	9,896.2	10,145.2	8,028.9	60.9	60.7	34.87	-1,097.6	2,011.8	2,284.9	2,205.4	79.43	28.764		
11,900.0	9,900.9	10,234.8	8,033.1	63.0	62.6	34.74	-1,090.5	2,101.1	2,280.8	2,199.0	81.72	27.908		
12,000.0	9,905.6	10,327.6	8,036.3	65.0	64.6	34.57	-1,082.6	2,193.5	2,277.3	2,193.3	84.02	27.105		
12,100.0	9,910.3	10,443.8	8,042.0	67.1	67.1	34.42	-1,074.5	2,309.2	2,273.5	2,186.9	86.62	26.247		
12,200.0	9,915.0	10,535.2	8,046.3	69.2	69.1	34.28	-1,067.3	2,400.2	2,269.4	2,180.5	88.97	25,507		
12,300.0	9,919.8	10,649.1	8,051.5	71.3	71.6	34.11	-1,058.6	2,513.7	2,265.7	2,174.1	91.54	24.752		
12,400.0	9,924.5	10,770.4	8,060.5	73.5	74.3	34.04	-1,052.2	2,634.5	2,260.8	2,166.4	94.35	23.962		
12,500.0	9,929.2	10,853.2	8,067.3	75.6	76.2	34.02	-1,048.7	2,716.9	2,255.9	2,159.1	96.83	23.297		
12,600.0	9,933.9	10,945.2	8,074.1	77.8	78.3	33.98	- 1,044.6	2,808.6	2,251.5	2,152.1	99.40	22.652		
12,700.0	9,938.6	10,996.6	8,077.4	80.0	79.4	33.96	-1,042.7	2,859.9	2,248.3	2,146.8	101.54	22.141		
12,795.3 12,800.0	9,943.1 9,943.3	11,046.0 11,046.0	8,080.2 8,080.2	82.1 82.2	80.5 80.5	33.96 33.96	-1,042.2 -1,042.2	2,909.2 2,909.2	2,247.4 2,247.4	2,143.8 2,143.7	103.62 103.69	21.689 21.674		
12,900.0	9,948.0	11,113.1	8,083.3	84.4	82.1	33.98	-1,042.8	2,976.2	2,248.3	2,142.2	106.08	21.194		
13,000.0	9,952.7	11,113.1	8,085.9	86.7	83.7	34.01	-1,042.0	3,047.0	2,250.7	2,142.1	108.54	20.736		
13,100.0	9,957.5	11,260.4	8,087.5	88.9	85.5	34.03	-1,045.6	3,123.4	2,254.2	2,143.1	111.05	20.299		
13,200.0	9,962.2	11,345.9	8,088.3	91.2	87.4	34.02	-1,047.0	3,208.9	2,258.5	2,144.9	113.64	19.875		
13,300.0	9,966.9	11,436.7	8,088.9	93.4	89.5	34.02	-1,048.8	3,299.7	2,263.4	2,147.1	116.32	19.458		
13,400.0	9,971.6	11,538.6	8,089.4	95.7	91.9	34.02	-1,051.1	3,401.6	2,268.5	2,149.3	119.18	19.035		
13,500.0	9,976.3	11,657.7	8,091.6	98.0	94.7	34.05	-1,054.2	3,520.5	2,272.6	2,150.3	122.35	18.575		
13,600.0	9,981.0	11,745.1	8,093.0	100.3	96.7	34.07	-1,056.4	3,607.9	2,277.1	2,152.0	125.06	18.207		
13,700.0	9,985.7	11,845.1	8,094.0	102.6	99.1	34.08	-1,058.8	3,707.9	2,281.8	2,153.8	127.95	17.834		
13,800.0	9,990.4	11,949.9	8,095.4	104.9	101.5	34.10	-1,061.4	3,812.6	2,286.3	2,155.4	130.92	17.463		
13,900.0	9,995.2	12,045.1	8,096.0	107.2	103.8	34.08	-1,062.5	3,907.8	2,290.7	2,157.1	133.68	17.136		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Local Co-ordinate Reference:

TVD Reference: KB @ 3113.5usft
MD Reference: KB @ 3113.5usft
North Reference: Grid

orth Reference:

Survey Calculation Method: Minimum Curvature

Well Barry Miller State Com #221H

Output errors are at 2.00 sigma

Database: EDM 5000.14 Server

14,100.0 10,000 14,200.0 10,001 14,300.0 10,001 14,400.0 10,001 14,500.0 10,002 14,600.0 10,002 14,600.0 10,003 14,700.0 10,004 15,000.0 10,004 15,100.0 10,005 15,200.0 10,006 15,400.0 10,006 15,500.0 10,007 15,600.0 10,008 15,600.0 10,008 15,900.0 10,008 16,100.0 10,008 16,100.0 10,008 16,100.0 10,008 16,100.0 10,008 16,100.0 10,008 16,100.0 10,101 16,500.0 10,11 16,500.0 10,11 16,500.0 10,11 16,500.0 10,12 16,600.0 10,12 16,600.0 10,12 16,600.0 10,12 16,600.0 10,12 16,600.0 10,12 16,600.0 10,12 16,600.0 10,12 16,600.0 10,12 16,600.0 10,12 16,600.0 10,12 16,600.0 10,12	rtical epth usft) 9,999.9 0,004.6 0,009.3 0,018.7 0,023.4 0,028.1 0,032.8 0,037.6 0,042.3 0,047.0 0,051.7 0,056.4 0,061.1	Measured Depth (usft) 12,135.0 12,238.3 12,340.4 12,513.7 12,613.5 12,725.0 12,858.9 12,882.5 12,938.0 13,025.0 13,112.6 13,199.1 13,296.3 13,1412.3 13,532.6	Vertical Depth (usft) 8,096.1 8,097.6 8,099.4 8,103.4 8,107.7 8,112.4 8,123.9 8,128.5 8,135.2 8,141.4 8,146.8 8,152.3	Semi Major Reference (usft) 109.5 111.9 114.2 116.5 118.9 121.2 123.6 124.3 125.9 128.3 130.7	Offset (usft) 105.9 108.3 110.7 114.9 117.2 119.9 123.1 123.6 125.0 127.0 129.1	Highside Toolface (°) 34.06 34.10 34.15 34.17 34.21 34.25 34.41 34.44 34.54	Offset Wellbor +N/-S (usft) -1,063.6 -1,067.5 -1,071.1 -1,073.8 -1,075.3 -1,077.0 -1,081.6 -1,082.7	+E/-W (usft) 3,997.7 4,100.9 4,203.0 4,376.2 4,475.9 4,587.3 4,720.8	Dista Between Centres (usft) 2,295.6 2,300.8 2,305.5 2,308.8 2,310.3 2,311.9 2,312.2	Between Ellipses (usft) 2,159.3 2,161.3 2,163.1 2,162.4 2,160.9 2,159.3 2,155.8	Minimum Separation (usft) 136.35 139.41 142.45 146.42 149.42 152.61	16.836 16.504 16.185 15.769 15.461 15.149	Warning	
14,100.0 10,000 14,200.0 10,001 14,300.0 10,001 14,400.0 10,001 14,500.0 10,002 14,630.4 10,002 14,630.4 10,002 14,600.0 10,003 14,900.0 10,004 15,100.0 10,005 15,200.0 10,006 15,400.0 10,006 15,500.0 10,007 15,600.0 10,007 15,700.0 10,008 15,900.0 10,008 16,100.0 10,008 16,100.0 10,008 16,100.0 10,008 16,100.0 10,108 16,000.0 10,108 16,400.0 10,110 16,500.0 10,111 16,500.0 10,111 16,500.0 10,112	0,004.6 0,009.3 0,014.0 0,018.7 0,023.4 0,028.1 0,029.6 0,032.8 0,037.6 0,042.3 0,047.0 0,051.7 0,056.4 0,061.1	12,238.3 12,340.4 12,513.7 12,613.5 12,725.0 12,858.9 12,882.5 12,938.0 13,025.0 13,112.6 13,199.1 13,296.3 13,412.3	8,097.6 8,099.4 8,103.4 8,107.7 8,112.4 8,121.9 8,123.9 8,128.5 8,135.2 8,141.4 8,146.8 8,152.3	111.9 114.2 116.5 118.9 121.2 123.6 124.3 125.9 128.3 130.7	108.3 110.7 114.9 117.2 119.9 123.1 123.6 125.0 127.0	34.10 34.15 34.17 34.21 34.25 34.41 34.44 34.54	-1,067.5 -1,071.1 -1,073.8 -1,075.3 -1,077.0 -1,081.6 -1,082.7	4,100.9 4,203.0 4,376.2 4,475.9 4,587.3	2,300.8 2,305.5 2,308.8 2,310.3 2,311.9	2,161.3 2,163.1 2,162.4 2,160.9 2,159.3	139.41 142.45 146.42 149.42	16.504 16.185 15.769 15.461		
14,200.0 10,000 14,300.0 10,01 14,400.0 10,01 14,500.0 10,02 14,630.4 10,02 14,700.0 10,03 14,900.0 10,04 15,000.0 10,05 15,200.0 10,06 15,500.0 10,06 15,500.0 10,06 15,500.0 10,06 15,500.0 10,06 15,500.0 10,06 15,500.0 10,06 15,500.0 10,06 15,500.0 10,06 15,500.0 10,06 15,500.0 10,06 15,500.0 10,06 15,500.0 10,06 15,500.0 10,06 15,500.0 10,06 16,500.0 10,06 16,000.0 10,06 16,000.0 10,10 16,500.0 10,11 16,500.0 10,11 16,500.0 10,12 16,600.0 10,12 16,600.0 10,12 16,600.0 10,12	0,009.3 0,014.0 0,018.7 0,023.4 0,028.1 0,029.6 0,032.8 0,037.6 0,042.3 0,047.0 0,051.7 0,056.4 0,061.1	12,340.4 12,513.7 12,613.5 12,725.0 12,858.9 12,882.5 12,938.0 13,025.0 13,112.6 13,199.1 13,296.3 13,412.3	8,099,4 8,103,4 8,107,7 8,112,4 8,121,9 8,123,9 8,128,5 8,135,2 8,141,4 8,146,8 8,152,3	114.2 116.5 118.9 121.2 123.6 124.3 125.9 128.3 130.7	110.7 114.9 117.2 119.9 123.1 123.6 125.0 127.0	34.15 34.17 34.21 34.25 34.41 34.44 34.54	-1,071.1 -1,073.8 -1,075.3 -1,077.0 -1,081.6 -1,082.7	4,203.0 4,376.2 4,475.9 4,587.3	2,305.5 2,308.8 2,310.3 2,311.9	2,163.1 2,162.4 2,160.9 2,159.3	142.45 146.42 149.42	16.185 15.769 15.461		
14,300.0 10,01 14,400.0 10,01 14,500.0 10,02 14,630.4 10,02 14,700.0 10,03 14,800.0 10,04 15,000.0 10,05 15,200.0 10,06 15,400.0 10,06 15,500.0 10,06 15,500.0 10,07 15,700.0 10,08 15,800.0 10,08 15,800.0 10,08 15,800.0 10,08 16,000.0 10,09 16,100.0 10,09 16,100.0 10,09 16,400.0 10,10 16,300.0 10,10 16,500.0 10,10 16,300.0 10,11 16,500.0 10,12 16,600.0 10,12 16,600.0 10,12 16,600.0 10,12 16,600.0 10,12 16,600.0 10,12 16,700.0 10,12	0,014.0 0,018.7 0,023.4 0,028.1 0,029.6 0,032.8 0,037.6 0,042.3 0,047.0 0,051.7 0,056.4 0,061.1	12,513.7 12,613.5 12,725.0 12,858.9 12,882.5 12,938.0 13,025.0 13,112.6 13,199.1 13,296.3 13,412.3	8,103.4 8,107.7 8,112.4 8,121.9 8,123.9 8,128.5 8,135.2 8,141.4 8,146.8 8,152.3	116.5 118.9 121.2 123.6 124.3 125.9 128.3 130.7	114.9 117.2 119.9 123.1 123.6 125.0 127.0	34.17 34.21 34.25 34.41 34.44 34.54	-1,073.8 -1,075.3 -1,077.0 -1,081.6 -1,082.7	4,376.2 4,475.9 4,587.3 4,720.8	2,308.8 2,310.3 2,311.9	2,162.4 2,160.9 2,159.3	146.42 149.42	15,769 15,461		
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14,500.0 10,02 14,600.0 10,02 14,630.4 10,02 14,700.0 10,03 14,800.0 10,04 15,100.0 10,05 15,200.0 10,06 15,400.0 10,07 15,600.0 10,08 15,800.0 10,08 15,900.0 10,08 16,100.0 10,08 16,100.0 10,08 16,100.0 10,08 16,100.0 10,10 16,300.0 10,10 16,300.0 10,10 16,300.0 10,11 16,500.0 10,11 16,500.0 10,11 16,500.0 10,11	0,023.4 0,028.1 0,029.6 0,032.8 0,037.6 0,042.3 0,047.0 0,051.7 0,056.4 0,061.1	12,725.0 12,858.9 12,882.5 12,938.0 13,025.0 13,112.6 13,199.1 13,296.3 13,412.3	8,112.4 8,121.9 8,123.9 8,128.5 8,135.2 8,141.4 8,146.8 8,152.3	121.2 123.6 124.3 125.9 128.3 130.7	119.9 123.1 123.6 125.0 127.0	34.25 34.41 34.44 34.54	-1,077.0 -1,081.6 -1,082.7	4,587.3 4,720.8	2,311.9	2,159.3				
14,600.0 10,02 14,630.4 10,02 14,630.4 10,02 14,800.0 10,03 14,900.0 10,04 15,100.0 10,05 15,200.0 10,06 15,400.0 10,07 15,600.0 10,07 15,700.0 10,08 15,900.0 10,08 16,100.0 10,08 16,100.0 10,09 16,200.0 10,09 16,200.0 10,10 16,300.0 10,10 16,300.0 10,10 16,400.0 10,11 16,500.0 10,11 16,500.0 10,11 16,500.0 10,11 16,500.0 10,11 16,500.0 10,11 16,500.0 10,12 16,700.0 10,12 16,700.0 10,12 16,700.0 10,12	0,028.1 0,029.6 0,032.8 0,037.6 0,042.3 0,047.0 0,051.7 0,056.4 0,061.1	12,858.9 12,882.5 12,938.0 13,025.0 13,112.6 13,199.1 13,296.3 13,412.3	8,121.9 8,123.9 8,128.5 8,135.2 8,141.4 8,146.8 8,152.3	123.6 124.3 125.9 128.3 130.7	123.1 123.6 125.0 127.0	34.41 34.44 34.54	-1,081.6 -1,082.7	4,720.8			152.61	15.149		
14,630.4 10,02 14,700.0 10,03 14,800.0 10,03 14,900.0 10,04 15,000.0 10,05 15,200.0 10,06 15,300.0 10,07 15,600.0 10,07 15,700.0 10,08 15,800.0 10,07 15,700.0 10,08 16,100.0 10,08 16,100.0 10,08 16,100.0 10,08 16,100.0 10,08 16,200.0 10,10 16,200.0 10,10 16,300.0 10,10 16,300.0 10,10 16,400.0 10,11 16,500.0 10,11 16,500.0 10,12 16,700.0 10,12 16,700.0 10,12 16,700.0 10,12	0,029.6 0,032.8 0,037.6 0,042.3 0,047.0 0,051.7 0,056.4 0,061.1	12,882.5 12,938.0 13,025.0 13,112.6 13,199.1 13,296.3 13,412.3	8,123.9 8,128.5 8,135.2 8,141.4 8,146.8 8,152.3	124.3 125.9 128.3 130.7	123.6 125.0 127.0	34.44 34.54	-1,082.7		2,312.2	0.455.0				
14,700.0 10,03 14,800.0 10,03 14,900.0 10,04 15,000.0 10,04 15,100.0 10,05 15,200.0 10,06 15,400.0 10,07 15,700.0 10,07 15,700.0 10,07 15,700.0 10,08 15,900.0 10,08 16,100.0 10,09 16,100.0 10,09 16,100.0 10,10 16,300.0 10,10 16,300.0 10,11 16,500.0 10,11 16,500.0 10,12 16,600.0 10,12 16,600.0 10,12 16,700.0 10,12 16,700.0 10,12 16,800.0 10,13	0,032.8 0,037.6 0,042.3 0,047.0 0,051.7 0,056.4 0,061.1	12,938.0 13,025.0 13,112.6 13,199.1 13,296.3 13,412.3	8,128.5 8,135.2 8,141.4 8,146.8 8,152.3	125.9 128.3 130.7	125.0 127.0	34.54				2,100.0	156.40	14.784		
14,800.0 10,03 14,900.0 10,04 15,100.0 10,04 15,100.0 10,05 15,200.0 10,05 15,300.0 10,06 15,400.0 10,07 15,600.0 10,07 15,700.0 10,08 15,900.0 10,08 16,100.0 10,09 16,100.0 10,09 16,200.0 10,10 16,300.0 10,11 16,500.0 10,11 16,500.0 10,11	0,037.6 0,042.3 0,047.0 0,051.7 0,056.4 0,061.1	13,025.0 13,112.6 13,199.1 13,296.3 13,412.3	8,135.2 8,141.4 8,146.8 8,152.3	128.3 130.7	127.0		4.005.5	4,744.3	2,312.1	2,154.8	157.31	14.698		
14,900.0 10,04 15,000.0 10,04 15,100.0 10,05 15,200.0 10,05 15,300.0 10,06 15,400.0 10,07 15,500.0 10,07 15,700.0 10,08 15,900.0 10,08 16,100.0 10,08 16,200.0 10,10 16,300.0 10,11 16,500.0 10,12 16,500.0 10,12 16,500.0 10,12 16,500.0 10,12 16,500.0 10,12 16,500.0 10,12 16,500.0 10,12 16,500.0 10,12 16,500.0 10,12 16,500.0 10,12 16,500.0 10,12	0,042.3 0,047.0 0,051.7 0,056.4 0,061.1	13,112.6 13,199.1 13,296.3 13,412.3	8,141.4 8,146.8 8,152.3	130.7			-1,085.5	4,799.5	2,312.4	2,152.9	159.45	14.502		
15,000.0 10,04 15,100.0 10,05 15,200.0 10,05 15,300.0 10,06 15,400.0 10,06 15,500.0 10,07 15,600.0 10,07 15,600.0 10,08 15,900.0 10,08 16,000.0 10,08 16,200.0 10,10 16,300.0 10,11 16,500.0 10,11 16,500.0 10,11 16,500.0 10,12 16,700.0 10,12 16,700.0 10,12 16,700.0 10,12	0,047.0 0,051.7 0,056.4 0,061.1	13,199.1 13,296.3 13,412.3	8,146.8 8,152.3		129.1	34.68	-1,090.3	4,886.1	2,313.3	2,150.7	162.65	14.222		
15,100.0 10,05 15,200.0 10,05 15,300.0 10,06 15,400.0 10,07 15,500.0 10,07 15,600.0 10,07 15,700.0 10,08 15,800.0 10,08 16,100.0 10,08 16,100.0 10,08 16,200.0 10,10 16,300.0 10,11 16,500.0 10,11 16,500.0 10,12 16,600.0 10,12 16,700.0 10,12 16,700.0 10,12	0,051.7 0,056.4 0,061.1	13,296.3 13,412.3	8,152.3	133.0		34.82	-1,094.9	4,973.3	2,314.8	2,148.9	165.85	13.957		
15,100.0 10,05 15,200.0 10,05 15,300.0 10,06 15,400.0 10,07 15,500.0 10,07 15,600.0 10,07 15,700.0 10,08 15,800.0 10,08 16,100.0 10,08 16,100.0 10,08 16,200.0 10,10 16,300.0 10,11 16,500.0 10,11 16,500.0 10,12 16,600.0 10,12 16,700.0 10,12 16,700.0 10,12	0,051.7 0,056.4 0,061.1	13,296.3 13,412.3	8,152.3		131.2	34.94	-1,099.4	5,059.6	2,316.8	2,147.8	169.01	13,708		
15,200.0 10,05 15,300.0 10,06 15,400.0 10,06 15,500.0 10,07 15,600.0 10,07 15,700.0 10,08 15,900.0 10,08 16,100.0 10,08 16,100.0 10,08 16,200.0 10,10 16,300.0 10,10 16,400.0 10,11 16,500.0 10,12 16,500.0 10,12 16,700.0 10,12 16,700.0 10,12	0,056.4 0,061.1	13,412.3		135.4	133.5	35.06	-1,104.2	5,156.4	2,319.2	2,146.9	172.33	13.458		
15,300.0 10,06 15,400.0 10,07 15,500.0 10,07 15,600.0 10,07 15,700.0 10,08 15,900.0 10,08 16,100.0 10,08 16,200.0 10,10 16,300.0 10,11 16,500.0 10,11 16,500.0 10,12 16,700.0 10,12 16,700.0 10,12	0,061.1		8,158.8	137.8	136.3	35.19	-1,109.2	5,272.2	2,321.4	2,145.4	175.95	13.194		
15,400.0 10,000 15,500.0 10,007 15,600.0 10,007 15,700.0 10,008 15,800.0 10,008 15,900.0 10,008 16,100.0 10,100 16,200.0 10,10 16,300.0 10,11 16,500.0 10,11 16,600.0 10,12 16,700.0 10,12 16,700.0 10,12			8,165.6	140.1	139.2	35.29	-1,112.7	5,392.2	2,322.6	2,143.1	179.54	12.937		
15,600.0 10,07 15,700.0 10,08 15,800.0 10,08 15,900.0 10,08 16,100.0 10,09 16,100.0 10,10 16,200.0 10,10 16,300.0 10,11 16,500.0 10,11 16,600.0 10,12 16,700.0 10,12 16,800.0 10,13	0,000.0	13,645.2	8,171.2	142.5	141.9	35.33	-1,113.6	5,504.7	2,323.3	2,140.5	182.83	12.707		
15,600.0 10,07 15,700.0 10,08 15,800.0 10,08 15,900.0 10,08 16,100.0 10,09 16,100.0 10,10 16,200.0 10,10 16,300.0 10,11 16,500.0 10,11 16,600.0 10,12 16,700.0 10,12 16,800.0 10,13	0.070.5	13,748.7	8,175.3	144.9	144.4	35.31	-1,112.2	5,608.1	2,323.5	2,137.6	185.81	12.504		
15,700.0 10,08 15,800.0 10,08 15,900.0 10,08 16,000.0 10,08 16,100.0 10,10 16,200.0 10,10 16,300.0 10,11 16,500.0 10,11 16,600.0 10,12 16,700.0 10,12 16,800.0 10,13	,	13,746.7	6,175.3 8,178.7	144.9	144.4	35.31		5,711.2	2,323.5		188,67	12,316		
15,800.0 10,08 15,900.0 10,08 16,000.0 10,09 16,100.0 10,09 16,200.0 10,10 16,300.0 10,11 16,500.0 10,11 16,600.0 10,12 16,700.0 10,12 16,800.0 10,13	,	13,950,5		147.3			-1,109.8	5,711.2	2,323.7	2,135.0				
15,900.0 10,08 16,000.0 10,09 16,100.0 10,09 16,200.0 10,10 16,300.0 10,11 16,400.0 10,11 16,600.0 10,12 16,700.0 10,13 16,800.0 10,13			8,181.3 8.183.5		149.2 151.2	35.16	-1,106.4			2,132.3	191.39	12.141 11.981		
16,000.0 10,09 16,100.0 10,09 16,200.0 10,10 16,300.0 10,10 16,400.0 10,11 16,500.0 10,12 16,600.0 10,12 16,700.0 10,13	0,084.7	14,034.7 14,124.0	8,185.3	152.0 154.4	151.2	35.10 35.03	-1,103.8 -1,101.6	5,893.9 5,983.1	2,324.1 2,325.2	2,130.1 2,128.6	193.98 196.62	11.826		
16,100.0 10,05 16,200.0 10,10 16,300.0 10,10 16,400.0 10,11 16,500.0 10,11 16,600.0 10,12 16,700.0 10,12 16,800.0 10,13														
16,200.0 10,10 16,300.0 10,10 16,400.0 10,11 16,500.0 10,11 16,600.0 10,12 16,700.0 10,12 16,800.0 10,13	0,094.1	14,240.6	8,187.3	156.8	156.2	34.93	-1,098.1	6,099.6	2,326.3	2,126.8	199.46	11.663		
16,300.0 10,10 16,400.0 10,11 16,500.0 10,11 16,600.0 10,12 16,700.0 10,12 16,800.0 10,13	0,098.8	14,339.2	8,188.7	159.2	158.5	34.80	-1,093.5	6,198.1	2,326.8	2,124.8	202.00	11.519		
16,400.0 10,11 16,500.0 10,11 16,600.0 10,12 16,700.0 10,12 16,800.0 10,13	0,103.5	14,430.0	8,189.1	161.6	160.7	34.66	-1,088.7	6,288.8	2,327.6	2,123.2	204.36	11.389		
16,500.0 10,11 16,600.0 10,12 16,700.0 10,12 16,800.0 10,13	0,108.2	14,522.1	8,189.8	164.0	162.9	34.54	-1,084.8	6,380.8	2,328.8	2,122.0	206.81	11.260		
16,600.0 10,12 16,700.0 10,12 16,800.0 10,13	10,113.0	14,739.3	8,201.4	166.4	168.1	34,56	-1,083.2	6,597.6	2,328.8	2,117.7	211.18	11.028		
16,700.0 10,12 16,800.0 10,13	10,117.7	14,844.4	8,211.2	168.8	170.7	34.63	-1,082.8	6,702.3	2,325.3	2,110.8	214.50	10.841		
16,800.0 10,13	0,122.4	14,952.7	8,221.4	171.2	173.3	34.69	-1,081.4	6,810.0	2,321.0	2,103.2	217.80	10.657		
	0,127.1	15,041.4	8,228.9	173.6	175.4	34.71	-1,079.5	6,898.5	2,317.0	2,096.2	220.79	10.494		
	0,131.8	15,131.3	8,235.8	176.0	177.6	34.71	-1,077.1	6,988.0	2,313.4	2,089.7	223.70	10.342		
16,900.0 10,13	0,136.5	15,199.0	8,240.1	178.4	179.2	34.68	-1,074.8	7,055.6	2,310.6	2,084.3	226.30	10.210		
17,000.0 10,14	0,141.2	15,270.4	8,243.3	180.8	180.9	34.63	-1,071.9	7,126.9	2,309.0	2,080.2	228.77	10.093		
	0.143.3	15,299.3	8,244.0	181.9	181,6	34.60	-1,070.7	7,155.7	2,308.9	2,079.1	229.81	10.047		
	0,145,9	15,339.8	8,244.7	183.2	182,6	34,55	-1,068.8	7,196.2	2,309,0	2,078,0	231.07	9.993		
		15,413.2	8,244.9	185.6	184.3	34.44	-1,065.3	7,269.5	2,310.2	2,077.0	233.26	9.904		
	0.150.7	15,426.4	8,244.8	186.1	184.7	34.42	-1,064.6	7,282.7	2,310.6	2,076.9	233.64	9.889 SI	=	
17,218.7 10,15	0,150.7 0,151.5	15,427.0	8,244.8	186.1	184.7	34.42	-1,064.6	7,283.2	2,310.6	2,077.0	233.64	9.890		

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

2.00 sigma EDM 5000.14 Server

Offset Des	sign	Barry M	iller - Bar	ry Miller Sta	te Com #	122H - Well	bore #1 - Altitu	ıde Plan #1					Offset Site Error:	0.0 usft
Survey Progra				Comi Maior	Avia				Diete				Offset Well Error:	0.0 usft
Refere Measured	Vertical	Offse Measured	vertical	Semi Major Reference	Offset	Highside	Offset Wellbor	e Centre	Dista 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	
0.0	0.0	1.0	-1.0	0.0	0.0	164.69	-110.3	30.2	114.3					
100.0	100.0	101.0	99.0	0.1	0.1	164.69	-110.3	30.2	114.3	114.1	0.26	439.947		
200.0	200.0	201.0	199.0	0.5	0.5	164.69	-110.3	30.2	114.3	113.4	0.98	117.050		
300.0	300.0	301.0	299.0	0.8	0.8	164.69	-110.3	30.2	114.3	112.6	1.69	67.505		
400.0	400.0	401.0	399.0	1.2	1.2	164.69	-110.3	30.2	114.3	111.9	2.41	47.429		
500.0	500.0	501.0	499.0	1.6	1.6	164.69	-110.3	30.2	114.3	111.2	3.13	36.557		
600.0	600.0	601.0	599.0	1.9	1.9	164.69	-110.3	30.2	114.3	110.5	3.84	29.740		
700.0	700.0	701.0	699.0	2.3	2.3	164.69	-110.3	30.2	114.3	109.8	4.56	25.066		
800.0	0.008	801.0	799.0	2.6	2.6	164.69	-110.3	30.2	114.3	109.1	5.28	21.661		
900.0 1,000.0	900.0 1,000.0	901.0 999.0	899.0 999.0	3.0 3.4	3.0 3.4	164.69	-110.3 -110.3	30.2 30.2	114.3	108.3 107.6	6.00 6.71	19.071 17.052 C	0	
						164.69			114.3					
1,100.0	1,100.0	1,097.4	1,097.4	3.7	3.7	164.94	-111.1	29.9	115.0	107.6	7.40	15.542 E	5	
1,200.0 1,300.0	1,200.0 1,300.0	1,195.8 1,294.1	1,195.8 1,293.9	4.1 4.4	4.0 4.3	165.69 166.87	-113.4 -117.3	28.9 27.4	117.1 120.5	109.0 111.8	8.08 8.76	14.486 13.753		
1,400.0	1,400.0	1,392.2	1,391.8	4.4	4.3	168.41	-117.3 -122.7	25.2	120.5	116.0	9.45	13.753		
1,500.0	1,500.0	1,490.0	1,489.4	5.1	5.0	170.22	-129.7	22.3	132.0	121.8	10.14	13.020		
1,600.0	1,600.0	1,587.6	1,586.5	5.5	5.4	-125.06	-138.2	18.9	140.5	129.7	10.81	12.995		
1,700.0	1,700.0	1,684.7	1,683.1	5.9	5.7	-123.71	-148.2	14.9	151.7	140.2	11.49	13.201		
1,800.0	1,799.9	1,781.4	1,779.0	6.2	6.1	-122.74	-159.6	10.3	165.3	153.1	12.16	13,589		
1,900.0	1,899.7	1,877.5	1,874.1	6.6	6.4	-122.11	-172.5	5.1	181.4	168.5	12.84	14.126		
2,000.0	1,999.4	1,973.0	1,968.3	6.9	6.8	-121.75	-186.7	-0.7	199.8	186.3	13.51	14.787		
2,100.0	2,098.9	2,067.7	2,061.5	7.3	7.2	-121.59	-202.3	-6.9	220.6	206.4	14.18	15.551		
2,200.0	2,198.3	2,161.6	2,153.7	7.6	7.6	-121.58	-219.1	-13.7	243.7	228.8	14.86	16.402		
2,300.0	2,297.4	2,254.9	2,244.9	8.0	8.0	-121.68	-237.2	-21.0	269.1	253.6	15.54	17.321		
2,400.0	2,396.4	2,351.3	2,339.0	8.4	8.4	-122.04	-256.5	-28.8	295.5	279.3	16.26	18,172		
2,500.0	2,495.5	2,447.7	2,433.2	8.8	8,8	-122,35	-275.8	-36.6	322.0	305.0	17.00	18.944		
2,600.0	2,594.5	2,544.2	2,527.3	9.2	9.2	-122.60	-295.2	-44.4	348.5	330.7	17.74	19.646		
2,700.0	2,693.5	2,640.6	2,621.5	9.5	9.7	-122.82	-314.5	-52.2	375.0	356.5	18.48	20.287		
2,800.0	2,792.5	2,737.0	2,715.6	9.9	10.1	-123.01	-333.8	-60.0	401.4	382.2	19.23	20.873		
2,900.0	2,891.6	2,833.4	2,809.8	10.3	10.6	-123.18	-353.1	-67.8	427.9	407.9	19.99	21.412		
3,000.0	2,990.6	2,929.9	2,903.9	10.7	11.0	-123.33	-372.5	-75.6	454.4	433.7	20.74	21.907		
3,100.0	3,089.6	3,026.3	2,998.0	11.1	11.5	-123.46	-391.8	-83.4	480.9	459.4	21.50	22.365		
3,200.0	3,188.6	3,122.7	3,092.2	11.5	11.9	-123.58	-411.1	-91.2	507.4	485.1	22.27	22.788		
3,300.0	3,287.7	3,219.1	3,186.3	11.9	12.4	-123.69	-430.4	- 99.0	533,9	510.9	23.03	23,181		
3,400.0	3,386.7	3,315.5	3,280.5	12.3	12.8	-123.78	-449.7	-106.8	560.4	536.6	23.80	23.546		
3,500.0	3,485.7	3,412.0	3,374.6	12.7	13.3	-123.87	-469.1	-114.6	586.9	562.3	24.57	23.887		
3,600.0	3,584.8	3,508.4	3,468.8	13.1	13.7	-123.95	-488.4	-122.4	613.4	588.0	25.34	24.205		
3,700.0	3,683.8	3,604.8	3,562.9	13.5	14.2	-124.02	-507.7	-130.2	639.9	613.8	26.12	24.502		
3,800.0	3,782.8	3,701.2	3,657.0	13.9	14.7	-124.09	-527.0	-138.0	666.4	639.5	26.89	24.781		
3,900.0	3,881.8	3,802.4	3,751.2	14.4	15.2	-124.15	-546.3	-145.8	692.9	665.2	27.69	25.026		
4,000.0	3,980.9	3,905.9	3,845.3	14.8	15.7	-124.21	-565.7	-153.6	719.4	690.9	28.49	25.247		
4,100.0	4,079.9	4,009.5	3,939.5	15.2	16.2	-124.26	-585.0	-161.4	745.9	716.6	29.30	25.454		
4,200.0	4,178.9	4,086.9	4,033.6	15.6	16.5	-124.31	-604.3	-169.2	772.4	742.4	30.01	25.741		
4,300.0	4,277.9	4,183.3	4,127.8	16.0	17.0	-124.36	-623.6	-177.0	798.9	768.1	30.79	25.948		
4,400.0	4,377.0	4,279.8	4,221.9	16.4	17.5	-124.40	-642.9	-184.8	825.4	793.8	31.57	26.144		
4,500.0	4,476.0	4,376.2	4,316.1	16.8	18.0	-124.45	-662.3	-192.6	851.9	819.6	32.35	26,330		
4,600.0	4,575.0	4,472.6	4,410.2	17.2	18.4	-124.48	-681.6	-200.4	878.4	845.3	33.14	26.507		
4,698.1	4,672.2	4,567.2	4,502.5	17.6	18.9	-124.52	-700.5	-208.1	904.4	870.5	33.91	26.671		
4,700.0	4,674.0	4,569.0	4,504.3	17.6	18.9	-124.53	- 700.9	-208.2	904.9	871.0	33.93	26.674		
4,800.0	4,773.3	4,665.6	4,598.7	18.0	19.4	-124.82	- 720.3	- 216.0	930.7	896.0	34.70	26.817		
4,900.0	4,872.7	4,762.6	4,693.3	18.4	19.9	-124.96	-739.7	-223.9	955.0	919.5	35.47	26.923		
5,000.0	4,972.5	4,859.8	4,788.3	18.8	20.3	-124.96	-759.2	-231.7	977.9	941.6	36.23	26.994		

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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 Server Database:

Well Barry Miller State Com #221H

KB @ 3113.5usft

KB @ 3113.5usft

Offset Des	-		iller - Bar	ry Miller Sta	te Com #	‡122H - Well	lbore #1 - Altiti	ude Plan #1					Offset Site Error:	0.0 usft
Survey Progr Refere		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 Too l face (°)	Offset Wellbor +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.0	5,072.4	4,957.3	4,883.4	19.2	20.8	-124.83	-778.7	-239.6	999.3	962.4	36.97	27.033		
5,200.0	5,172.3	5,054.8	4,978.7	19.5	21.3	-124.57	-798.2	-247.5	1,019.4	981.7	37.69	27.044		
5,231.4	5,203.8	5,085.5	5,008.6	19.6	21.4	172.58	-804.4	-250.0	1,025.4	987.5	37.92	27.042		
5,300.0	5,272.3	5,152.5	5,074.0	19.8	21.8	172.98	-817.8	-255.4	1,038.4	1,000.0	38.41	27.037		
5,400.0	5,372.3	5,250.1	5,169.3	20.2	22.3	173.54	-837.4	-263.3	1,057.4	1,018.3	39.12	27.031		
5,500.0	5,472.3	5,347.7	5,264.7	20.5	22.7	174.09	-856.9	-271.2	1,076.6	1,036.8	39.83	27.028		
5,600.0	5,572.3	5,445.4	5,360.0	20.8	23.2	174.61	- 876.5	-279.1	1,095.8	1,055.3	40.54	27.028		
5,700.0	5,672.3	5,543.0	5,455.3	21.2	23.7	175.12	-896.1	-287.0	1,115.2	1,073.9	41.26	27.030		
5,800.0	5,772.3	5,640.7	5,550.7	21.5	24.2	175.61	-915.6	-294.9	1,134.6	1,092.6	41.97	27.033		
5,900.0	5,872.3	5,738.3	5,646.0	21.8	24.7	176.09	-935.2	-302.8	1,154.1	1,111.4	42.68	27.039		
6,000.0	5,972.3	5,835.9	5,741.3	22.2	25.2	176.54	-954.8	- 310.7	1,173.6	1,130.2	43.39	27.045		
6,100.0	6,072.3	5,933.6	5,836.7	22.5	25.6	176.99	-974.3	-318.6	1,193.3	1,149.1	44.11	27.053		
6,200.0	6,172.3	6,031.2	5,932.0	22.9	26.1	177.42	-993.9	-326.5	1,213.0	1,168.1	44.82	27.063		
6,300.0	6,272.3	6,128.8	6,027.3	23.2	26.6	177.83	-1,013.5	-334.4	1,232.7	1,187.2	45.53	27.073		
6,400.0	6,372.3	6,226.5	6,122.6	23.5	27.1	178.24	-1,033.0	-342.3	1,252.5	1,206.3	46.25	27.084		
6,500.0	6,472.3	6,343.8	6,237.3	23.9	27.7	178.69	-1,056.0	-351.5	1,272.1	1,225.0	47.13	26.992		
6,600.0	6,572.3	6,486.1	6,377.3	24.2	28.3	179.15	-1,080.0	-361.2	1,288.8	1,240.6	48.18	26.751		
6,700.0	6,672.3	6,630.3	6,519.9	24.6	28.9	179.51	-1,099.3	-369.0	1,302.2	1,253.0	49.17	26.482		
6,800.0	6,772.3	6,775.9	6,664.6	24.9	29.5	179.77	-1,113.7	-374.8	1,312.1	1,262.0	50.10	26.187		
6,900.0	6,872.3	6,922.4	6,810.8	25.2	30.0	179.94	-1,123.0	-378.6	1,318.4	1,267.5	50.96	25.870		
7,000.0	6,972.3	7,069.4	6,957.8	25.6	30.5	-179.99	-1,127.1	-380.2	1,321.2	1,269.5	51.75	25.531		
7,100.0	7,072.3	7,183.0	7,071.3	25.9	30.8	-179.99	-1,127.4	-380.3	1,321.4	1,269.0	52.43	25.204		
7,200.0	7,172.3	7,283.0	7,171.3	26.3	31.1	-179.99	-1,127.4	-380.3	1,321.4	1,268.3	53.08	24.895		
7,300.0	7,272.3	7,383.0	7,271.3	26.6	31.3	-179.99	-1,127.4	-380.3	1,321.4	1,267.6	53.73	24.592		
7,400.0	7,372.3	7,483.2	7,371.5	27.0	31.6	-179.99	-1,127.4	-380.2	1,321.4	1,267.0	54.39	24.296		
7,489.2	7,461.5	7,572.7	7,460.5	27.3	31,8	179.63	-1,127.3	-371.5	1,321.3	1,266.4	54.96	24.040		
7,500.0	7,472.3	7,583.3	7,470.9	27.3	31.9	179.55	-1,127.3	-369.5	1,321.3	1,266.3	55.03	24.010		
7,600.0	7,572.3	7,677.1	7,561.0	27.7	32.0	178.44	-1,127.1	-344.0	1,321.7	1,266.0	55.66	23.746		
7,700.0	7,672.3	7,760.7	7,636.9	28.0	32.2	176.93	-1,126.9	-309.1	1,323.3	1,267.0	56.26	23.521		
7,800.0	7,772.3	7,832.7	7,697.7	28.3	32.2	175.26	-1,126.7	-270.4	1,327.3	1,270.4	56.80	23.365		
7,900.0	7,872.3	7,893.7	7,744.9	28.7	32.3	173.60	-1,126.4	-232.0	1,334.7	1,277.4	57.26	23.311		
8,000.0	7,972.3	7,944.8	7,781.3	29.0	32.3	172.07	-1,126.2	-196.0	1,346.4	1,288.9	57.57	23.388		
8,100.0	8,072.3	7,987.7	7,809.1	29.4	32.3	170.68	-1,126.0	-163.5	1,363.1	1,305.4	57.71	23.620		
8,200.0	8,172.3	8,023.7	7,830.6	29.7	32,3	169.46	-1,125.8	-134.5	1,385.0	1,327.3	57.65	24.023		
8,300.0	8,272.3	8,050.0	7,845.1	30.1	32.3	168.55	-1,125.6	-112.6	1,412.3	1,354.9	57.36	24.620		
8,400.0	8,372.3	8,080.3	7,860.6	30.4	32.3	167.46	-1,125.5	-86.5	1,445.0	1,388.0	56.96	25.366		
8,500.0	8,472.3	8,100.0	7,869.9	30.8	32.3	166.74	-1,125.4	-69.2	1,482.9	1,426.6	56.34	26.323		
8,600.0	8,572.3	8,122.2	7,879.6	31.1	32.3	165.93	-1,125.2	-49.3	1,525.9	1,470.2	55.63	27.429		
8,700.0	8,672.3	8,150.0	7,890.8	31.5	32.3	164.89	-1,125.1	-23.8	1,573.6	1,518.7	54.90	28.664		
8,800.0	8,772.3	8,150.0	7,890.8	31.8	32.3	164.89	-1,125.1	-23.8	1,625.5	1,571.7	53.82	30,200		
8,900.0	8,872.3	8,167.2	7,897.0	32,2	32,3	164.24	-1,125.0	-7.8	1,681.5	1,628.6	52,90	31.787		
9,000.0	8,972.3	8,178.9	7,901.0	32.5	32.3	163.80	-1,124.9	3.3	1,741.3	1,689.4	51.91	33,546		
9,100.0	9,072.3	8,200.0	7,907.6	32.9	32.3	163.00	-1,124.8	23.3	1,804.5	1,753.4	51.02	35,370		
9,200.0	9,172.3	8,200.0	7,907.6	33.2	32.3	163.00	-1,124.8	23.3	1,870.5	1,820.6	49.93	37.466		
9,272.2	9,244.5	8,200.0	7,907.6	33.5	32.3	163.00	-1,124.8	23.3	1,920.0	1,870.8	49.16	39.058		
9,300.0	9,272.3	8,200.0	7,907.6	33.6	32.3	70.64	-1,124.8	23.3	1,939.3	1,890.5	48.86	39.690		
9,350.0	9,322.1	8,200.0	7,907.6	33.7	32.3	66.24	-1,124.8	23.3	1,973.7	1,925.4	48.32	40.845		
9,400.0	9,371.3	8,218.9	7,912.9	33.9	32.2	61.56	-1,124.6	41.4	2,007.2	1,959.2	47.98	41.834		
9,450.0	9,419.5	8,225.8	7,914.7	34.0	32.2	57.64	-1,124.6	48.0	2,039.9	1,992.3	47.51	42.934		
9,500.0	9,466.4	8,250.0	7,920.3	34.1	32.2	53.71	-1,124.4	71.6	2,071.6	2,024.4	47.22	43.870		
9,550.0	9,511.6	8,250.0	7,920.3	34.2	32.2	50.75	-1,124.4	71.6	2,101.6	2,054.9	46.71	44.994		
9,600.0	9,554.7	8,250.0	7,920.3	34.4	32.2	48.12	-1,124.4	71.6	2,130.1	2,083.9	46.21	46.090		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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 @ 3113.5usft KB @ 3113.5usft

Well Barry Miller State Com #221H

Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

 Database:
 EDM 5000.14 Server

 Offset TVD Reference:
 Offset Datum

Offset Des	sign	Barry M	iller - Bar	ry Miller Sta	te Com #	#122H - Well	bore #1 - Altitu	ude Plan #1					Offset Site Error:	0.0 usft
Survey Progra Refere		WD Offse		Semi Major	Avie				Dista	-neo			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		
9,650.0	9,595.5	8,250.0	7,920.3	34.5	32.2	45.79	-1,124.4	71.6	2,157.0	2,111.2	45.75	47.144		
9,700.0	9,633.7	8,269.2	7,924.0	34.6	32.2	43.51	-1,124.3	90.5	2,181.7	2,136.2	45.50	47.952		
9,750.0	9,668.8	8,279.3	7,925.7	34.7	32.2	41.66	-1,124.3	100.4	2,204.5	2,159.3	45.20	48.774		
9,800.0	9,700.8	8,300.0	7,928.7	34.8	32.2	39.99	-1,124.1	120.9	2,225.2	2,180.2	45.03	49.418		
9,850.0	9,729.2	8,300.0	7,928.7	35.0	32.2	38.75	-1,124.1	120.9	2,243.4	2,198.6	44.74	50.138		
9,900.0	9,754.0	8,300.0	7,928.7	35.1	32.2	37.71	-1,124.1	120.9	2,259.3	2,214.8	44.53	50.741		
9,950.0	9,774.9	8,322.7	7,931.1	35.3	32.2	36.75	-1,124.0	143.5	2,272.5	2,228.0	44.54	51.021		
10,000.0	9,791.8	8,347.1	7,932.7	35.5	32.2	36.00	-1,123.8	167.8	2,283.4	2,238.8	44.62	51.171		
10,050.0	9,804.5	8,347.1	7,932.7	35.8	32.2	35.54	-1,123.8	167.8	2,291.3	2,246.7	44.62	51.351		
10,100.0	9,812.9	8,409.8	7,934.5	36.0	32.2	35.16	-1,123.5	210.9	2,296.3	2,251.3	45.08	50.940		
10,125.2	9,815.5	8,415.3	7,935.6	36.2	32.2	35.07	-1,123.4	235.9	2,297.6	2,252.4	45.19	50.843		
10,200.0	9,820.7	8,509.9	7,938.9	36.7	32.3	35.03	-1,122.9	310.7	2,299.0	2,253.0	46.08	49.894		
10,225.5	9,822.0	8,515.6	7,940.0	36.9	32.4	35.03	-1,122.7	336.1	2,299.2	2,253.0	46.23	49.732		
10,300.0	9,825.5	8,609.9	7,943.2	37.5	33.0	35.02	-1,122.3	410.6	2,299.4	2,252.2	47.28	48.632		
10,400.0	9,830.2	8,709.9	7,947.5	38.4	34.2	35.02	-1,121.6	510.5	2,299.8	2,251.1	48.65	47.268		
10,500.0	9,834.9	8,809.9	7,951.9	39.4	35.5	35.01	-1,121.0	610.4	2,300.1	2,249.9	50.18	45.840		
10,600.0	9,839.7	8,909.9	7,956.2	40.6	36.9	35.01	-1,120.3	710.3	2,300.4	2,248.5	51.84	44.378		
10,700.0	9,844.4	9,009.9	7,960.5	41.9	38.5	35.00	-1,119.7	810.2	2,300.7	2,247.1	53.62	42.906		
10,800.0	9,849.1	9,090.1	7,964.9	43.3	39.8	34.99	-1,119.0	910.1	2,301.0	2,245.7	55.31	41.600		
10,900.0	9,853.8	9,209.9	7,969.2	44.7	41.8	34.99	-1,118.4	1,010.0	2,301.3	2,243.8	57.52	40.008		
11,000.0	9,858.5	9,309.9	7,973.5	46.3	43.6	34.98	-1,117.7	1,109.9	2,301.6	2,242.0	59.61	38.609		
11,100.0	9,863.2	9,409.9	7,977.8	47.9	45.4	34.98	-1,117.1	1,209.8	2,301.9	2,240.1	61.79	37.255		
11,200.0	9,867.9	9,509.9	7,982.2	49.6	47.3	34.97	-1,116.5	1,309.7	2,302.2	2,238.2	64.04	35.951		
11,300.0	9,872.6	9,609.9	7,986.5	51.4	49.3	34.97	-1,115.8	1,409.6	2,302.5	2,236.2	66.35	34.701		
11,400.0	9,877.3	9,709.9	7,990.8	53.2	51.3	34.96	-1,115.2	1,509.5	2,302.8	2,234.1	68.73	33.507		
11,500.0	9,882.1	9,790.1	7,995.2	55.1	52.9	34.96	-1,114.5	1,609.4	2,303.2	2,232.2	70.90	32.482		
11,600.0	9,886.8	9,890.1	7,999.5	57.0	55.0	34.95	-1,113.9	1,709.3	2,303.5	2,230.1	73.38	31.392		
11,700.0	9,891.5	10,059.1	8,006.8	58.9	58.5	34.85	-1,108.4	1,878.0	2,302.3	2,225.7	76.53	30.083		
11,800.0	9,896.2	10,158.9	8,011.1	60.9	60.6	34.74	-1,102.5	1,977.6	2,299.6	2,220.7	78.94	29.130		
11,900.0	9,900.9	10,258.8	8,015.5	63.0	62.7	34.63	-1,096.7	2,077.2	2,296.9	2,215.6	81.38	28.225		
12,000.0	9,905.6	10,358.7	8,019.8	65.0	64.9	34.51	-1,090.8	2,176.8	2,294.3	2,210.4	83.83	27.367		
12,100.0	9,910.3	10,458.5	8,024.1	67.1	67.0	34.40	-1,084.9	2,276.4	2,291.6	2,205.3	86.31	26.552		
12,200.0	9,915.0	10,558.4	8,028.4	69.2	69.2	34.29	-1,079.1	2,376.0	2,289.0	2,200.2	88.79	25.778		
12,300.0	9,919.8	10,658.3	8,032.7	71.3	71.4	34.17	-1,073.2	2,475.6	2,286.3	2,195.0	91.29	25,044		
12,400.0	9,924.5	10,758.1	8,037.1	73.5	73.6	34.06	-1,067.3	2,575.2	2,283.7	2,189.9	93.80	24.346		
12,500.0	9,929.2	10,858.0	8,041.4	75.6	75.9	33.94	-1,061.5	2,674.8	2,281.1	2,184.8	96.32	23.682		
12,600.0	9,933.9	10,946.4	8,045.2	77.8	77.8	33.85	-1,056.4	2,763.0	2,278.6	2,179.8	98.74	23.076		
12,700.0	9,938.6	11,015.6	8,048.2	80.0	79.4	33.80	-1,053.8	2,832.1	2,277.2	2,176.1	101.04	22.537		
12,755.7	9,941.2	11,054.2	8,049.9	81.2	80.3	33.78	-1,053.1	2,870.7	2,277.0	2,174.6	102.35	22.247		
12,800.0	9,943.3	11,085.0	8,051.2	82.2	81.0	33.78	-1,052.9	2,901.4	2,277.1	2,173.7	103.40	22,021		
12,900.0	9,948.0	11,154.3	8,054.2	84.4	82,6	33.80	-1,053.6	2,970.6	2,278.4	2,172.5	105.84	21,527		
13,000.0	9,952.7	11,220.1	8,057.1	86.7	84.1	33.86	-1,055.9	3,036.4	2,281.0	2,172.7	108.28	21.065		
13,100.0	9,957.5	11,309.7	8,060.3	88.9	86.2	33.94	-1,060.0	3,125.7	2,284.8	2,173.7	111.10	20,564		
13,200.0	9,962.2	11,409.5	8,063.8	91.2	88.5	34.03	-1,064.5	3,225.4	2,288.7	2,174.6	114.10	20.059		
13,300.0	9,966.9	11,509.4	8,067.4	93.4	90.8	34.12	-1,069.1	3,325.1	2,292.6	2,175.5	117.11	19.577		
13,400.0	9,971.6	11,609.2	8,070.9	95.7	93.1	34.22	-1,073.7	3,424.8	2,296.5	2,176.4	120.14	19.115		
13,500.0	9,976.3	11,709.1	8,074.4	98.0	95.5	34.31	-1,078.3	3,524.5	2,300.4	2,177.2	123.19	18.674		
13,600.0	9,981.0	11,808.9	8,077.9	100.3	97.8	34.40	-1,082.9	3,624.2	2,304.3	2,178.1	126,26	18.251		
13,700.0	9,985.7	11,908.8	8,081.4	102.6	100.1	34.49	-1,087.4	3,723.9	2,308.3	2,178.9	129.34	17.846		
13,800.0	9,990.4	12,008.7	8,084.9	104.9	102.5	34.58	-1,092.0	3,823.6	2,312.2	2,179.8	132.44	17.458		
13,900.0	9,995.2	12,121.5	8,088.9	107.2	105.2	34.68	-1,097.1	3,936.2	2,316.1	2,180.4	135.76	17.061		
14,000.0	9,999.9	12,277.2	8,094.4	109.5	108.8	34.70	-1,098.6	4,091.8	2,317.9	2,178.4	139.45	16.622		

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

TVD Reference: MD Reference: North Reference: KB @ 3113.5usft KB @ 3113.5usft

Well Barry Miller State Com #221H

Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

EDM 5000.14 Server Database:

Offset Des	•	•	iller - Bar	ry Miller Sta	ate Com #	122H - Well	lbore #1 - Altite	ude Plan #1					Offset Site Error:	0.0 usft
Survey Progr Refere		WD Offse	at	Semi Major	Δvis				Dist	ance			Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,100.0	10,004.6	12,377.2	8,097.9	111.9	111.2	34.68	-1,098.0	4,191.7	2,318.9	2,176.5	142.33	16.292		
14,200.0	10,009.3	12,477.2	8,101.4	114.2	113.6	34.67	-1,097.3	4,291.7	2,319.9	2,174.6	145.22	15.975		
14,300.0	10,014.0	12,577.2	8,104.9	116.5	115.9	34.65	-1,096.7	4,391.6	2,320.8	2,172.7	148.10	15.670		
14,400.0	10,018.7	12,677.2	8,108.4	118.9	118.3	34.63	-1,096.0	4,491.5	2,321.8	2,170.8	151.00	15,377		
14,500.0	10,023.4	12,805.1	8,113.1	121.2	121.3	34.62	-1,095.2	4,609.2	2,322.4	2,168.2	154.27	15.054		
14,600.0	10,028.1	12,905.1	8,117.6	123.6	123.7	34.62	-1,094.6	4,709.1	2,322.6	2,165.4	157.21	14.774		
14,700.0	10,032.8	13,005.1	8,122.0	125.9	126.1	34.61	-1,094.0	4,809.0	2,322.9	2,162.7	160.15	14.504		
14,800.0	10,037.6	13,105.1	8,126.4	128.3	128.5	34.61	-1,093.3	4,908.9	2,323.1	2,160.0	163.09	14.244		
14,900.0	10,042.3	13,205.1	8,130.9	130.7	130.9	34.61	-1,092.7	5,008.8	2,323.3	2,157.3	166.04	13.992		
15,000.0	10,047.0	13,305.1	8,135.3	133.0	133.3	34.60	-1,092.1	5,108.7	2,323.5	2,154.5	168.99	13.749		
15,100.0	10,051.7	13,394.9	8,139.8	135.4	135.4	34.60	-1,091.4	5,208.6	2,323.7	2,151.9	171.80	13.526		
15,200.0	10,056,4	13,494,9	8,144,2	137.8	137.8	34.59	-1,090,8	5,308.4	2,324.0	2,149.2	174.75	13,298		
15,300.0	10,061.1	13,594.9	8,148.7	140.1	140.2	34.59	-1,090.1	5,408.3	2,324.2	2,146.5	177.71	13.078		
15,400.0	10,065.8	13,694.9	8,153.1	142.5	142.6	34.59	-1,089.5	5,508.2	2,324.4	2,143.7	180.68	12.865		
15,500.0	10,070.5	13,794.9	8,157.6	144.9	145.0	34.58	-1,088.9	5,608.1	2,324.6	2,141.0	183.64	12.658		
15,600.0	10,075.3	13,905.1	8,162.0	147.3	147.6	34.58	-1,088.2	5,708.0	2,324.8	2,138.1	186.76	12.448		
15,700.0	10,080.0	14,005.1	8,166.5	149.7	150.0	34.58	-1,087.6	5,807.9	2,325.1	2,135.3	189.73	12.254		
15,800.0	10,084.7	14,105.1	8,170.9	152.0	152.4	34.57	-1,087.0	5,907.8	2,325.3	2,132.6	192.70	12.067		
15,900.0	10,089.4	14,205.1	8,175.3	154.4	154.8	34.57	-1,086.3	6,007.7	2,325.5	2,129.8	195.68	11,884		
16,000.0	10,094.1	14,305.1	8,179.8	156.8	157.2	34.56	-1,085.7	6,107.6	2,325.7	2,127.1	198.65	11.707		
16,100.0	10,098.8	14,405.1	8,184.2	159.2	159.6	34.56	-1,085.0	6,207.5	2,325.9	2,124.3	201.63	11.536		
16,200.0	10,103.5	14,505.1	8,188.7	161.6	162.1	34.56	-1,084.4	6,307.4	2,326.2	2,121.6	204.61	11.369		
16,300.0	10,108.2	14,605.1	8,193.1	164.0	164.5	34.55	-1,083.8	6,407.3	2,326.4	2,118.8	207.59	11.207		
16,400.0	10,113.0	14,705.1	8,197.6	166.4	166.9	34.55	-1,083.1	6,507.2	2,326.6	2,116.0	210.57	11.049		
16,500.0	10,117.7	14,805.1	8,202.0	168.8	169.3	34.55	-1,082.5	6,607.1	2,326.8	2,113.3	213.56	10.896		
16,600.0	10,122.4	14,894.9	8,206.5	171.2	171.5	34.54	-1,081.8	6,707.0	2,327.0	2,110.7	216.39	10.754		
16,700.0	10,127.1	15,005.1	8,210.9	173.6	174.1	34.54	-1,081.2	6,806.9	2,327.3	2,107.7	219.53	10,601		
16,800.0	10,131.8	15,105.1	8,215.4	176.0	176.5	34.53	- 1,080.6	6,906.8	2,327.5	2,105.0	222.52	10.460		
16,900.0	10,136.5	15,205.1	8,219.8	178.4	179.0	34.53	-1,079.9	7,006.7	2,327.7	2,102.2	225.50	10.322		
17,000.0	10,141.2	15,294.9	8,224.3	180.8	181.1	34.53	-1,079.3	7,106.6	2,327.9	2,099.6	228.34	10.195		
17,100.0	10,145.9	15,405.1	8,228.7	183.2	183.8	34.52	-1,078.7	7,206.5	2,328.1	2,096.7	231.48	10.057		
17,200.0	10,150.7	15,505.1	8,233.1	185.6	186.2	34.52	-1,078.0	7,306.4	2,328.4	2,093.9	234.47	9.930		
17,218.0	10,151.5	15,512.9	8,233.9	186.1	186.4	34.52	-1,077.9	7,324.4	2,328.4	2,093.5	234.86	9.914		
17,218.7	10,151.5	15,513.6	8,234.0	186.1	186.4	34.52	-1,077.9	7,325.1	2,328.4	2,093.5	234.87	9,913 S	F	

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Server

Offset De	esign	Barry M	iller - Bar	rry Miller Sta	te Com #	135H - Well	bore #1 - State	e Plan #1					Offset Site Error:	0.0 usft
Survey Prog Refer		WD Offse		Semi Major	Avis				Dista	neo			Offset Well Error:	0.0 usft
Measured	Vertica l	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	••••••	
0.0	0.0	1.0	-1.0	0.0	0.0	0.47	29.8	0.2	29.8					
100.0	100.0	101.0	99.0	0.1	0.1	0.47	29.8	0.2	29.8	29.5	0.26	114.637		
200.0	200.0	201.0	199.0	0.5	0.5	0.47	29.8	0.2	29.8	28.8	0.98	30.500		
300.0	300.0	301.0	299.0	0.8	0.8	0.47	29.8	0.2	29.8	28.1	1.69	17.590		
400.0	400.0	401.0	399.0	1.2	1.2	0.47	29.8	0.2	29.8	27.4	2.41	12.359		
500.0	500.0	501.0	499.0	1.6	1.6	0.47	29.8	0.2	29.8	26.7	3.13	9.526		
600.0	600.0	601.0	599.0	1.9	1.9	0.47	29.8	0.2	29.8	25.9	3.84	7.749		
700.0	700.0	701.0	699.0	2.3	2.3	0.47	29.8	0.2	29.8	25.2	4.56	6.531		
800.0		801.0	799.0	2.6	2.6	0.47	29.8	0.2	29.8	24.5	5.28	5.644		
900.0	900.0	901.0	899.0	3.0	3.0	0.47	29.8	0.2	29.8	23.8	6.00	4.969		
1,000.0		999.0	999.0	3.4	3.4	0.47	29.8	0.2	29.8	23.1	6.71	4.443		
1,100.0		1,099.4	1,099.4	3.7	3.7	-0.55	29.1	-0.3	29.1	21.7	7.41	3,930		
1,200.0	1,200.0	1,199.8	1,199.7	4.1	4.0	-3.94	27.0	- 1.9	27.1	19.0	8.10	3.346		
1,300.0	1,300.0	1,300.0	1,299.8	4.4	4.4	-10.83	23.5	-4.5	24.0	15.2	8.79	2.728		
1,400.0	1,400.0	1,400.0	1,399.7	4.8	4.7	-23.70	18.7	-8.2	20.4	10.9	9.49	2.150		
1,500.0	1,500.0	1,499.8	1,499.2	5.1	5.1	-46.11	12.4	-12.9	17.9	7.7	10.20	1.759		
1,536.9	1,536.9	1,536.6	1,535.8	5.3	5.2	6.26	9.8	-14.9	17.7	7.3	10.46	1.697 C		
1,600.0		1,599.3	1,598.2	5.5	5.4	-13.08	4.9	-18.7	18.5	7.6	10.89	1.696 S	F	
1,700.0		1,698.5	1,696.8	5.9	5.8	-41.14	-4.1	-25.5	23.2	11.6	11.56	2,005		
1,800.0		1,802.8	1,794.6	6.2	6.2	-60.99 -70.00	-14.3	-33.2	32.0	19.8	12.23	2.620		
1,900.0		1,903.8	1,892.7	6.6	6.5	-73.89	-25.3	-41.6	43.4	30.5	12.92	3.361		
2,000.0	1,999.4	2,004.9	1,990.6	6.9	6.9	-82.94	-36.2	-49.9	55.9	42.2	13.63	4.097		
2,100.0		2,093.9	2,088.5	7.3	7.3	-90.01	-47.2	-58.2	69.2	54.8	14.31	4.831		
2,200.0	2,198.3	2,207.4	2,186.2	7.6	7.7	-95.90 404.00	-58.1	-66.5	83.4	68.3	15.10	5.521		
2,300.0	2,297.4	2,308.9	2,283.7	8.0	8.1	-101.00	-69.0	-74.8	98.5	82.7	15.85	6.215		
2,400.0		2,389.5	2,381.1	8.4	8.4	-105,26	-80.0	-83.1	114.5	98.0	16,53	6.925		
2,500.0		2,487.9	2,478.6	8.8	8.8	-108.47	-90.9	-91.4	130.9	113.7	17.29	7.574		
2,600.0		2,586.3	2,576.0	9.2	9.2	-110.96	-101.8	-99.7	147.7	129.7	18.04	8.186		
2,700.0	2,693.5	2,684.7	2,673.5	9.5	9.6	-112.94	-112.7	-107.9	164.7	145.9	18.80	8.758		
2,800.0 2,900.0	2,792.5 2,891.6	2,783.1 2,881.5	2,770.9 2,868.4	9.9 10.3	10.0 10.4	-114.55 -115.88	-123.6 -134.5	-116.2 -124.5	181.8 199.1	162.2 178.7	19.57 20.33	9.292 9.791		
3,000.0	2,990.6	2,979.9	2,965.8	10.7	10.8	-117.00	-145.4	-132.8	216.4	195.3	21.10	10.257		
3,100.0	3,089.6	3,078.3	3,063.3	11.1	11.2	-117.95	-156.3	-141.1	233.8	211.9	21.86	10.693		
3,200.0		3,176.7	3,160.7	11.5	11.6	-118.78	-167.2	-149.3	251.3	228.6	22,63	11,101		
3,300.0		3,275.1	3,258.2	11.9	12.0	-119.49	-178.1	-157.6	268.8	245.3	23.41	11.483		
3,400.0		3,373.5	3,355.6	12.3	12.5	-120.12	-189.0	-165.9	286.3	262.1	24.18	11.841		
3,500.0	3,485.7	3,471.9	3,453.1	12.7	12.9	-120.67	-199.9	-174.2	303.9	278.9	24.95	12.177		
3,600.0	3,584.8	3,570.3	3,550.5	13.1	13.3	-121.17	-210.8	-182.5	321.4	295.7	25.73	12.494		
3,700.0		3,668.7	3,648.0	13.5	13.7	-121.61	-221.8	-190.8	339.1	312.6	26.50	12.793		
3,800.0		3,767.1	3,745.4	13.9	14.1	-122.01	-232.7	-199.0	356.7	329.4	27.28	13.074		
3,900.0	3,881.8	3,865.6	3,842.9	14.4	14.5	- 122,37	-243.6	- 207.3	374.3	346.3	28.06	13,341		
4,000.0	3,980.9	3,964.0	3,940.3	14.8	14.9	-122.70	-254.5	-215.6	392.0	363.2	28.84	13.592		
4,100.0		4,062.4	4,037.7	15.2	15.3	-123.00	-265.4	-223.9	409.7	380.0	29,62	13,831		
4,200.0		4,160.8	4,135.2	15.6	15.7	-123.28	-276.3	-232.2	427.3	396.9	30.40	14.057		
4,300.0		4,259.2	4,232.6	16.0	16.1	-123.53	-287.2	-240.4	445.0	413.8	31.18	14.272		
4,400.0	4,377.0	4,357.6	4,330.1	16.4	16.5	-123.76	-298.1	-248.7	462.7	430.8	31.96	14.477		
4,500.0	4,476.0	4,456.0	4,427.5	16.8	17.0	-123.98	-309.0	-257.0	480.4	447.7	32.75	14.671		
4,600.0		4,554.4	4,525.0	17.2	17.4	-124.18	-319.9	-265.3	498.1	464.6	33,53	14,857		
4,698.1	4,672.2	4,650.9	4,620.6	17.6	17.8	-124.37	-330.6	-273.4	515.5	481.2	34.30	15.030		
4,700.0		4,652.8	4,622.4	17.6	17.8	-124.38	-330.8	- 273.6	515.8	481.5	34.31	15.034		
4,800.0	4,773.3	4,751.3	4,720.0	18.0	18.2	-124.64	-341.8	-281.9	532.8	497.7	35.09	15.184		
4,900.0	4,872.7	4,850.1	4,817.8	18.4	18.6	-124.66	-352.7	-290.2	548.3	512.4	35.86	15.292		

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Grid **Survey Calculation Method:**

Output errors are at

Database:

Offset TVD Reference:

Well Barry Miller State Com #221H

12.031

12.385

12.753

62.29

61.61

60.88

KB @ 3113.5usft KB @ 3113.5usft

Minimum Curvature

2.00 sigma EDM 5000.14 Server

Offset Datum

ffset Des	_		illiei - Dai	ry willer Sta	ue Com #	-133H - VVel	lbore #1 - Stat	C I'ldli # I					Offset Site Error: Offset Well Error:	0.0 u
Refere easured	Vertical	Offs Measured	Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	re Centre	Dista Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Too l face (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
5,000.0	4,972.5	4,949.1	4,915.8	18.8	19.0	-124.44	-363.7	-298.5	562.3	525.7	36.61	15.360		
5,100.0	5,072.4	5,048.1	5,013.9	19.2	19.4	-124.01	-374.6	-306.8	575.0	537.6	37.35	15.394		
5,200.0	5,172.3	5,147.1	5,112.0	19.5	19.9	- 123.38	-385.6	-315.2	586.2	548.1	38.07	15.396		
5,231.4	5,203.8	5,178.3	5,142.8	19.6	20.0	173.91	-389.1	-317.8	589.5	551.2	38.30	15,391		
5,300.0	5,272.3	5,246.2	5,210.0	19.8	20.3	174.53	- 396.6	-323.5	596.5	557.7	38.79	15.379		
5,400.0	5,372.3	5,345.2	5,308.1	20.2	20.7	175.42	-407.6	-331.8	606.8	567.3	39.49	15.364		
5,500.0	5,472.3	5,444.2	5,406.2	20.5	21.1	176.28	-418.6	-340.2	617.3	577.1	40.20	15.355		
5,600.0	5,572.3	5,543.2	5,504.2	20.8	21.5	177.11	-429.5	-348.5	627.9	587.0	40.91	15.348		
5,700.0	5,672.3	5,642.3	5,602.3	21.2	21.9	177.91	-440.5	-356.8	638.7	597.1	41.62	15.346		
5,800.0	5,772.3	5,755.2	5,714.3	21.5	22.4	178.71	-451.9	-365.5	648.6	606.1	42.44	15.282		
5,900.0	5,872.3	5,870.2	5,828.8	21.8	22.9	179.32	- 460.8	- 372.2	656.2	613.0	43.25	15.172		
6,000.0	5,972.3	5,985.8	5,944.1	22.2	23.3	179.73	-466.9	- 376.9	661.5	617.5	44.03	15.024		
6,100.0	6,072.3	6,101.8	6,060.0	22.5	23.7	179.95	-470.3	-379.5	664.4	619.7	44.78	14.837		
6,200.0	6,172.3	6,213.1	6,171.3	22.9	24.0	-180.00	-470.3 -471.0	-379.5	665.0	619.6	45.48	14.624		
6,300.0	6,272.3	6,313.1	6,271.3	23.2	24.3	-180.00	-471.0	-380.0	665.0	618.9	46.14	14.415		
6,400.0	6,372.3	6,413.1	6,371.3	23.5	24.6	-180.00	-471.0	-380.0	665.0	618.2	46.80	14.211		
6,500.0	6,472.3	6,513.1	6,471.3	23.9	25.0	-180.00	-471.0	-380.0	665.0	617.6	47.46	14.012		
6,600.0	6,572.3	6,613.1	6,571.3	24.2	25.3	-180.00	- 471.0	-380.0	665.0	616.9	48.13	13.819		
6,700.0	6,672.3	6,713.1	6,671.3	24.6	25.6	-180.00	-471.0	-380.0	665.0	616.3	48.79	13,630		
6,800.0	6,772.3	6,813.1	6,771.3	24.9	25.9	-180.00	-471.0	-380.0	665.0	615.6	49.46	13.446		
6,900.0	6,872.3	6,913.1	6,871.3	25.2	26.2	-180.00	- 471.0	-380.0	665.0	614.9	50.13	13.267		
7,000.0	6,972.3	7,013.1	6,971.3	25.6	26.5	-180.00	-471.0	-380.0	665.0	614.2	50.80	13.092		
7,100.0	7,072.3	7,113.1	7,071.3	25.9	26.8	-180.00	- 471.0	-380.0	665.0	613.6	51.47	12.921		
7,200.0	7,172.3	7,213.1	7,171.3	26.3	27.1	-180.00	-471.0	-380.0	665.0	612.9	52.14	12.754		
7,300.0	7,272.3	7,313.1	7,271.3	26.6	27.4	-180.00	- 471.0	-380.0	665.0	612.2	52.82	12.591		
7,400.0	7,372.3	7,413.1	7,371.3	27.0	27.7	-180.00	-471.0	-380.0	665.0	611.6	53.49	12,432		
7,500.0	7,472.3	7,513.1	7,471.3	27.3	28.1	-180.00	-471.0	-380.0	665.0	610.9	54.17	12.277		
7,600.0	7,572.3	7,613.1	7,571.3	27.7	28.4	-180.00	-471.0	-380.0	665.0	610.2	54.85	12.126		
7,700.0	7,672.3	7,713.1	7,671.3	28.0	28.7	-180.00	-471.0	-380.0	665.0	609.5	55.52	11.978		
7,800.0	7,772.3	7,813.1	7,771.3	28.3	29.0	-180.00	-471.0	-380.0	665.0	608.8	56.20	11.833		
7,900.0	7,872.3	7,913.1	7,871.3	28.7	29.3	-180.00	-471.0	-380.0	665.0	608.2	56.88	11.691		
8,000.0	7,972.3	8,013.1	7,971.3	29.0	29.7	-180.00	-471.0	-380.0	665.0	607.5	57.56	11.553		
8,100.0	8,072.3	8,113.1	8,071.3	29.4	30.0	-180.00	-471.0	-380.0	665.0	606.8	58.25	11.418		
8,200.0	8,172.3	8,213.1	8,171.3	29.7	30.3	-180.00	-471.0	-380.0	665.0	606.1	58.93	11,286		
8,300.0	8,272.3	8,313.1	8,271.3	30.1	30.6	-180.00	-471.0	-380.0	665.0	605.4	59.61	11.156		
8,400.0	8,372.3	8,413.1	8,371.3	30.4	30.9	-180.00	- 471.0	-380.0	665.0	604.7	60.30	11.030		
8,500.0	8,472.3	8,513.1	8,471.3	30.8	31.3	-180.00	-471.0	-380.0	665.0	604.1	60.98	10.906		
8,600.0	8,572.3	8,613.1	8,571.3	31.1	31.6	-180.00	-471.0	-380.0	665.0	603.4	61.67	10.785		
8,700.0	8,672.3	8,713.1	8,671.3	31.5	31.9	-180.00	-471.0	-380.0	665.0	602.7	62.35	10.666		
8,777.5	8,749.8	8,790.8	8,748.8	31.7	32.2	179.60	-471.0	-375.4	665.0	602.2	62.87	10.577		
8,800.0	8,772.3	8,813.0	8,770.8	31.8	32,2	179.32	-471.0	-372.1	665.0	602.0	63.02	10,552		
8,900.0	8,872.3	8,907.5	8,862.2	32.2	32.5	177 22	-470.8	-348.9	665.6	602.0	63.66	10.456		
9,000.0	8,972.3			32.5	32.5	177.32 174.45	-470.6					10.456		
			8,940.2			174.45		-315.5 277.4	668.4	604.2	64.21			
9,100.0	9,072.3		9,003.2	32.9	32.8	171.22	-470.3	-277.4 239.0	675.7	611.1	64.54	10.469		
9,200.0 9,272.2	9,172.3 9,244.5	9,128.6 9,167.4	9,052.5 9,080.9	33.2 33.5	32.9 32.9	168.01 165.84	-470.0 -469.9	-239.0 -212.5	689.2 703.7	624.7 639.6	64.49 64.15	10.686 10.970		
-,,	5,277.5	5,107.4	5,500.9	30.3	52.5	130.04		-212.5	700.7	000.0	07.10	.0.570		
9,300.0	9,272.3	9,181.4	9,090.7	33.6	32.9	74.59	-469.8	-202.5	710.3	646.4	63.94	11.109		
9,350.0	9,322.1	9,206.7	9,107.7	33.7	32.9	72.01	- 469.7	-183.8	722.8	659.4	63.48	11.387		
9,400.0	9,371.3	9,231.9	9,123.8	33.9	33.0	69.48	-469.5	-164.5	736.0	673.0	62.92	11.696		

-469.4

-469.2

-144.5

-123.8

-102.5

749.4

763.0

776.4

687.1

701.4

715.5

33.0

33.0

33.0

67.04

64.72

62.53

34.0

34.1

34.2

9.257.1

9,282.2

9,307.4

9.139.1

9,153.5

9,166.9

9.450.0

9,500.0

9,550.0

9.419.5

9,466.4

9,511.6

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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: 2.00 sigma

Output errors are at

Database: Offset TVD Reference: Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid Minimum Curvature

EDM 5000.14 Server Offset Datum

Offset De	sign	Barry Mi	iller - Bar	ry Miller Sta	te Com #	135H - Well	bore #1 - State	e Plan #1					Offset Site Error:	0.0 usft
Survey Prog	ram: 0-M	WD							D				Offset Well Error:	0.0 usft
Refer 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	warning	
9,600.0	9,554.7	9,332.6	9,179.4	34.4	33.0	60.50	-468.9	-80.7	789.5	729.4	60.15	13.127		
9,650.0	9,595.5	9,350.0	9,187.5	34.5	33.1	58.84	-468.8	-65.2	802.2	742.9	59.26	13.538		
9,700.0	9,633.7	9,382.9	9,201.5	34.6	33.1	56.94	-468.6	-35.5	814.0	755.3	58.70	13.866		
9,750.0	9,668.8	9,400.0	9,208.1	34.7	33.1	55.58	-468.5	-19.7	825.2	767.3	57.89	14.254		
9,800.0	9,700.8	9,433.1	9,219.5	34.8	33.2	54.07	-468.3	11.4	835.3	777.8	57.45	14.540		
9,850.0	9,729.2	9,450.0	9,224.6	35.0	33.2	53.03	-468.2	27.5	844.4	787.6	56.80	14.867		
9,900.0	9,754.0 9,774.9	9,483.4	9,233.3	35.1 35.3	33.3 33.4	51.91	-468.0	59.7 75.9	852.3 859.1	795.8 803.0	56.52 56.12	15.079 15.309		
9,950.0 10,000.0	9,774.9	9,500.0 9,533.6	9,236.9 9,242.8	35.5	33.4	51.17 50.43	-467.8 -467.6	109.1	864.4	808.4	56.06	15.309		
10,050.0	9,804.5	9,550.0	9,245.0	35.8	33.6	49.99	-467.5	125.3	868.6	812.7	55.96	15.523		
10,030.0	9,812.9	9,583.9	9,248.0	36.0	33.8	49.62	-467.3	159.0	871.3	815.1	56.16	15.523		
10,125.2	9,815.5	9,603.5	9,248.8	36.2	33.9	49.50	-467.1	178.6	872.2	815.9	56.32	15,486		
10,200.0	9,820.7	9,664.9	9,250.3	36.7	34.4	49.34	-466.7	240.0	874.0	817.1	56.95	15.346		
10,225.5	9,822.0	9,690.4	9,250.9	36.9	34.5	49.30	-466.5	265.5	874.4	817.1	57.23	15.280		
10,300.0	9,825.5	9,764.9	9,252.8	37.5	35.2	49.22	-465.9	339.9	875.4	817.3	58.15	15.054		
10,400.0	9,830.2	9,864.9	9,255.3	38.4	36.2	49.10	-465.1	439.9	876.8	817.2	59.58	14.717		
10,500.0	9,834.9	9,964.8	9,257.8	39.4	37.3	48.98	-464.3	539.8	878.1	816.9	61.20	14.349		
10,600.0	9,839.7	10,064.8	9,260.3	40.6	38.6	48.87	-463.5	639.8	879.5	816.5	63.00	13.960		
10,700.0	9,844.4	10,164.8	9,262.8	41.9	39.9	48.75	-462.8	739.7	880.8	815.9	64.97	13,558		
10,800.0	9,849.1	10,264.8	9,265.3	43.3	41.4	48.64	-462.0	839.6	882.2	815.1	67.09	13.150		
10,900.0	9,853.8	10,364.7	9,267.7	44.7	42.9	48.53	- 461.2	939.6	883.6	814.2	69.34	12.743		
11,000.0	9,858.5	10,464.7	9,270.2	46.3	44.5	48.41	-460.4	1,039.5	884.9	813.2	71.71	12.341		
11,100.0	9,863.2	10,564.7	9,272.7	47.9	46.2	48.30	-459.6	1,139.5	886.3	812.1	74.19	11.947		
11,200.0	9,867.9	10,664.7	9,275.2	49.6	48.0	48.18	-458.8	1,239.4	887.7	810.9	76.76	11.565		
11,300.0	9,872.6	10,764.6	9,277.7	51.4	49.8	48.07	-458.1	1,339.4	889.1	809.7	79.41	11.196		
11,400.0	9,877.3	10,864.6	9,280.2	53,2	51.7	47.96	-457.3	1,439.3	890.4	808.3	82.14	10.841		
11,500.0	9,882.1	10,964.6	9,282.7	55.1	53.6	47.85	-456.5	1,539.2	891.8	806.9	84.93	10.500		
11,600.0	9,886.8	11,064.6	9,285.2	57.0	55.6	47.74	-455.7	1,639.2	893.2	805.4	87.78	10.175		
11,700.0	9,891.5	11,164.5	9,287.7	58.9	57.6	47.62	-454.9	1,739.1	894.6	803.9	90.69	9.865		
11,800.0	9,896.2	11,264.5	9,290.2	60.9	59.6	47.51	-454.2	1,839.1	896.0	802.4	93.63	9.569		
11,900.0	9,900.9	11,364.5	9,292.6	63.0	61.7	47.40	-453.4	1,939.0	897.4	8.008	96.62	9.288		
12,000.0	9,905.6	11,464.5	9,295.1	65.0	63.7	47.29	-452.6	2,038.9	898.8	799.2	99.64	9.020		
12,100.0	9,910.3	11,564.4	9,297.6	67.1	65.9	47.18	-451.8	2,138.9	900.2	797.5	102.70	8.766		
12,200.0	9,915.0	11,664.4	9,300.1	69.2	68.0	47.07	-451.0	2,238.8	901.6	795.8	105.78	8,524		
12,300.0	9,919.8	11,764.4	9,302.6	71.3	70.2	46.96	-450.3	2,338.8	903.0	794.1	108.88	8.294		
12,400.0	9,924.5	11,864.4	9,305.1	73.5	72.3	46.85	-449.5	2,438.7	904.4	792.4	112.00	8.075		
12,500.0	9,929.2	11,964.3	9,307.6	75.6	74.5	46.75	- 448.7	2,538.6	905.9	790.7	115.15	7.867		
12,600.0	9,933.9	12,064.3	9,310.1	77.8	76.7	46.64	- 447.9	2,638.6	907.3	789.0	118.30	7.669		
12,700.0	9,938.6	12,164.3	9,312.6	80.0	79.0	46.53	-447.1	2,738.5	908.7	787.2	121.47	7.481		
12,800.0 12,900.0	9,943.3 9,948.0	12,264.3 12,364.2	9,315.1 9,317.6	82.2 84.4	81.2 83.4	46.42 46.31	-446.4 -445.6	2,838.5 2,938.4	910.1 911.6	785.5 783.7	124.66 127.85	7.301 7.130		
13,000.0	9,952.7	12,464.2	9,320.0	86.7	85.7	46.21	-444.8	3,038.4	913.0	781.9	131.05	6.967		
13,100.0	9,957.5	12,564.2	9,322.5	88.9	88.0	46.10	-444.0	3,138.3	914.4	780.2	134,26	6,811		
13,200.0	9,962.2	12,664.2	9,325.0	91.2	90.3	45.99	-443.2	3,238.2	915.9	778.4	137.47	6.662		
13,300.0	9,966.9	12,764.1	9,327.5	93.4	92.5	45.89	-442.5	3,338.2	917.3	776.6	140.69	6.520		
13,400.0	9,971.6	12,864.1	9,330.0	95.7	94.8	45.78	-441.7	3,438.1	918.8	774.9	143.91	6.384		
13,500.0	9,976.3	12,964.1	9,332.5	98.0	97.1	45.68	-440.9	3,538.1	920.2	773.1	147.13	6.254		
13,600.0	9,981.0	13,064.1	9,335.0	100.3	99.5	45.57	-440.1	3,638.0	921.7	771.3	150.35	6.130		
13,700.0	9,985.7	13,164.0	9,337.5	102.6	101.8	45.47	-439.3	3,737.9	923.1	769.5	153.58	6.011		
13,800.0	9,990.4	13,264.0	9,340.0	104.9	104.1	45.36	-438.5	3,837.9	924.6	767.8	156.80	5.896		
13,900.0	9,995.2	13,364.0	9,342.5	107.2	106.4	45.26	-437.8	3,937.8	926.0	766.0	160.03	5.787		
14,000.0	9,999.9	13,464.0	9,345.0	109.5	108.8	45.16	- 437.0	4,037.8	927.5	764.3	163.25	5.681		

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

TVD Reference: MD Reference: North Reference: KB @ 3113.5usft KB @ 3113.5usft

Well Barry Miller State Com #221H

Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma EDM 5000.14 Server

Database: Offset TVD Reference: Offset Datum

Offset Des	-		liller - Bar	ry Miller Sta	ate Com #	135H - Well	lbore #1 - Stat	e Plan #1					Offset Site Error:	0.0 usft
Survey Progr Refere		WD Offse	et	Semi Major	·Δγis				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)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,100.0	10,004.6	13,563.9	9,347.4	111.9	111.1	45.05	-436.2	4,137.7	929.0	762.5	166.47	5.580		
14,200.0	10,009.3	13,663.9	9,349.9	114.2	113.4	44.95	-435.4	4,237.6	930.4	760.8	169.69	5.483		
14,300.0	10,014.0	13,763.9	9,352.4	116.5	115.8	44.85	-434.6	4,337.6	931.9	759.0	172.91	5.390		
14,400.0	10,018.7	13,863.9	9,354.9	118.9	118.1	44.74	-433.9	4,437.5	933.4	757.3	176.12	5.300		
14,500.0	10,023.4	13,963.8	9,357.4	121.2	120.5	44.64	-433.1	4,537.5	934.9	755.5	179.33	5.213		
14,600.0	10,028.1	14,063.8	9,359.9	123.6	122.9	44.54	- 432.3	4,637.4	936.4	753.8	182.54	5.130		
14,700.0	10,032.8	14,163.8	9,362.4	125.9	125.2	44.44	-431.5	4,737.4	937.8	752.1	185.74	5.049		
14,800.0	10,037.6	14,263.8	9,364.9	128.3	127.6	44.34	- 430.7	4,837.3	939.3	750.4	188.94	4.972		
14,900.0	10,042.3	14,363.7	9,367.4	130.7	130.0	44.24	-430.0	4,937.2	940.8	748.7	192.13	4.897		
15,000.0	10,047.0	14,463.7	9,369.9	133.0	132.3	44.14	-429.2	5,037.2	942.3	747.0	195.32	4.824		
15,100.0	10,051.7	14,563.7	9,372.4	135.4	134.7	44.04	-428.4	5,137.1	943.8	745.3	198.51	4.755		
15,200.0	10,056.4	14,663.7	9,374.8	137.8	137.1	43.94	-427.6	5,237.1	945.3	743.6	201.68	4.687		
15,300.0	10,061.1	14,763.6	9,377.3	140.1	139.5	43.84	-426.8	5,337.0	946.8	742.0	204.85	4.622		
15,400.0	10,065.8	14,863.6	9,379.8	142.5	141.9	43.74	-426.1	5,436.9	948.3	740.3	208.02	4.559		
15,500.0	10,070.5	14,963.6	9,382.3	144.9	144.2	43.64	-425.3	5,536.9	949.8	738.7	211.18	4.498		
15,600.0	10,075.3	15,063.6	9,384.8	147.3	146.6	43.54	-424.5	5,636.8	951.4	737.0	214.34	4.439		
15,700.0	10,080.0	15,163.5	9,387.3	149.7	149.0	43.44	-423.7	5,736.8	952.9	735.4	217.48	4.381		
15,800.0	10,084.7	15,263.5	9,389.8	152.0	151.4	43.34	-422.9	5,836.7	954.4	733.8	220.62	4.326		
15,900.0	10,089.4	15,363.5	9,392.3	154.4	153.8	43.25	-422.2	5,936.6	955.9	732.1	223,76	4,272		
16,000.0	10,094.1	15,463.5	9,394.8	156.8	156.2	43.15	-421.4	6,036.6	957.4	730.5	226.89	4.220		
16,100.0	10,098.8	15,563.4	9,397.3	159.2	158.6	43.05	- 420.6	6,136.5	959.0	728.9	230.01	4.169		
16,200.0	10,103.5	15,663.4	9,399.7	161.6	161.0	42.96	-419.8	6,236.5	960.5	727.4	233.12	4.120		
16,300.0	10,108.2	15,763.4	9,402.2	164.0	163.4	42.86	-419.0	6,336.4	962.0	725.8	236.23	4.072		
16,400.0	10,113.0	15,863.4	9,404.7	166.4	165.8	42.76	-418.3	6,436.4	963.5	724.2	239.33	4.026		
16,500.0	10,117.7	15,963.3	9,407.2	168.8	168.2	42.67	-417.5	6,536.3	965.1	722.7	242.42	3.981		
16,600.0	10,122.4	16,063.3	9,409.7	171.2	170.6	42.57	-416.7	6,636.2	966.6	721.1	245.51	3.937		
16,700.0	10,127.1	16,163.3	9,412.2	173.6	173.0	42.48	-415.9	6,736.2	968.2	719.6	248.59	3.895		
16,800.0	10,131.8	16,263.3	9,414.7	176.0	175.4	42.38	-415.1	6,836.1	969.7	718.1	251.66	3.853		
16,900.0	10,136.5	16,363.2	9,417.2	178.4	177.8	42.29	- 414.3	6,936.1	971.3	716.5	254.72	3.813		
17,000.0	10,141.2	16,463.2	9,419.7	180.8	180.3	42.19	-413.6	7,036.0	972.8	715.0	257.78	3.774		
17,100.0	10,145.9	16,563.2	9,422.2	183.2	182.7	42.10	-412.8	7,135.9	974.4	713.5	260.83	3.736		
17,200.0	10,150.7	16,663.2	9,424.7	185.6	185.1	42.01	-412.0	7,235.9	975.9	712.0	263.87	3.698		
17,218.0	10,151.5	16,681.1	9,425.1	186.1	185.5	41.99	-411.9	7,253.8	976.2	711.8	264.42	3,692		
17,218.7	10,151.5	16,681.9	9,425.1	186.1	185.5	41.99	-411.9	7,254.6	976.2	711.8	264.43	3,692		

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

TVD Reference: MD Reference: North Reference:

KB @ 3113.5usft Grid

Survey Calculation Method: Minimum Curvature 2.00 sigma

Well Barry Miller State Com #221H

KB @ 3113.5usft

Output errors are at EDM 5000.14 Server Database:

	Offset De	sign	Barry M	iller - Bar	ry Miller Sta	te Com #	136H - Well	bore #1 - State	e Plan #1					Offset Site Error:	0.0 usft
	Survey Prog	ıram: 0-M			Som: Mai-	Avie				Dies	nee			Offset Well Error:	0.0 usft
Part							Highside	Offset Wellbor	e Centre			Minimum	Separation	Warning	
1800 1910	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		••••••••••••••••••••••••••••••••••••••	
1900 1900	0.0	0.0	1.0	-1.0	0.0	0.0	45.48	29.7	30.2	42.4					
March Marc															
March Marc															
1000 2000 2010 4980 1.8 4.8 4.84 2.67 30.2 42.4 30.3 3.13 13.944															
100.0 100.0 100.0 100.0 100.0 1.0 1.0 1.0 40.48 20.7 20.2 42.4 38.6 38.6 11.035															
Total															
Brill															
100.00 100.00 100.10 100.00 1															
1,000															
1,100.0															
1,200.0 1,200.0 1,200.0 1,990.0 4.1 4.1 45.48 29.7 30.2 42.4 34.3 8.15 5,208 1,200.0 1,300.0 1,301.0 1,209.0 4.8 4.8 45.48 29.7 30.2 42.4 32.8 9.58 4.428 1,200.0 1,500.0 1,500.0 1,500.0 1,600.0 1,500.0 1,60															
1,000.0 1,300.0 1,300.0 1,200.0 4.4 4.4 45.48 29.7 30.2 42.4 33.6 8.68 4.787															
1,400, 0 1,400, 0 1,601, 0 1,3980, 0 4,8															
1,500.0															
1,000.0 1,000.0 1,000.0 1,000.0 1,590.0 5.5 5.5 100.54 28.7 30.2 42.7 31.7 11.01 3.879 ES 1,700.0 1,700.0 1,701.0 1,696.0 5.9 5.9 112.77 28.7 30.2 43.7 31.9 11.72 3.725 1,800.0 1,709.0 1,801.1 1,788.9 6.2 6.2 117.82 28.7 30.2 45.5 33.1 12.43 3.683 SF 1,800.0 1,899.7 1,901.3 1,888.7 6.6 6.6 124.15 28.7 30.2 45.5 35.5 13.14 3.704 1,000.0 1,999.4 2,001.6 1,998.4 6.9 6.9 131.09 28.7 30.2 53.5 36.6 13.84 3.704 1,000.0 2,999.9 2,102.1 2,097.9 7.3 7.3 137.91 28.7 30.2 60.2 45.7 14.57 4.134 1,200.0 2,989.9 2,102.1 2,097.9 7.3 7.3 137.91 28.7 30.2 60.1 53.8 15.28 4.519 1,200.0 2,989.3 2,202.7 2,197.3 7.6 7.7 144.15 28.7 30.2 60.1 53.8 15.28 4.519 1,200.0 2,989.4 2,404.6 2,395.4 8.4 8.4 153.39 29.7 30.2 60.0 64.0 16.00 5.003 1,200.0 2,986.5 2,595.5 2,404.5 8.8 8.8 155.27 29.7 30.2 105.0 87.6 17.4 5.024 1,200.0 2,989.5 2,595.5 2,289.5 9.5 9.5 161.07 29.7 30.2 118.0 99.9 18.15 6.502 1,200.0 2,981.8 2,599.4 2,890.6 10.3 10.2 165.09 28.7 30.2 144.5 124.9 16.56 7.377 1,200.0 2,981.8 2,599.4 2,890.6 10.3 10.2 165.09 28.7 30.2 141.2 112.3 113.6 11.6 7.776 1,200.0 3,885.7 3,885.5 3,885.5 11.1 10.8 165.67 28.7 30.2 17.14 150.4 20.5 6.508 1,200.0 3,886.7 3,886.7 3,886.5 1.3 1.5 1.1 10.8 167.74 28.7 30.2 17.14 28.8 20.5 2.36 6.808 1,200.0 3,886.7 3,886.7 3,886.5 1.1 1.1 1.8 167.7 1.7 1.7 1.0 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.0 1.3															
1,700,0 1,700,0 1,700,0 1,690,0 5,9 5,9 11,277 28,7 30,2 43,7 31,9 11,72 3,725 1,900,0 1,899,1 1,901,3 1,886,7 6,6 6,6 12,415 28,7 30,2 48,7 35,5 13,14 3,663 SF 1,900,0 1,899,4 2,001,5 1,998,4 6,9 6,9 131,08 29,7 30,2 48,7 35,5 13,14 3,704 2,000,0 1,999,4 2,001,5 1,998,4 6,9 6,9 131,08 29,7 30,2 48,7 35,5 13,14 3,704 2,000,0 2,989,9 2,102,1 2,997,9 7,3 7,3 137,91 29,7 30,2 89,1 53,8 15,28 4,519 2,000,0 2,989,5 2,202,7 2,197,3 7,6 7,7 144,15 29,7 30,2 89,1 53,8 15,28 4,519 2,000,0 2,398,4 2,404,5 2,388,4 8,4 8,4 153,93 29,7 30,2 92,3 75,6 16,71 5,524 2,000,0 2,398,4 2,404,5 2,388,4 8,4 8,4 153,93 29,7 30,2 150,0 87,6 17,43 6,025 2,000,0 2,398,5 2,298,5 2,595,5 2,444,5 8,8 8,8 157,27 29,7 30,2 150,0 87,6 17,43 6,025 2,000,0 2,398,5 2,298,5 2,298,5 9,5 8,5 163,67 29,7 30,2 131,2 11,2 18,87 6,982 2,000,0 2,398,6 2,398,5 2,398,5 2,398,6 10,7 10,5 166,29 29,7 30,2 171,4 150,4 20,95 6,160 3,000,0 2,396,6 2,398,5 2,398,5 11,1 10,8 163,67 29,7 30,2 111,2 11,2 18,87 6,982 2,000,0 2,398,6 2,398,5 2,398,6 10,7 10,5 166,29 29,7 30,2 171,4 150,4 20,95 6,160 3,000,0 3,88,6 3,88,5 3,88,5 11,5 11,1 169,96 23,8 28,8 189,0 176,5 23,2 23,8 6,988 3,000,0 3,88,6 3,88,6 3,88,5 11,5 11,1 169,96 23,8 28,8 189,0 176,5 23,2 23,8 6,988 3,000,0 3,88,6 3,88,6 3,88,6 11,5 11,1 169,96 23,8 2,88 189,0 176,5 23,2 23,8 24,9 3,000,0 3,88,6 3,88,6 3,88,6 11,5 11,1 169,96 23,8 28,8 189,0 176,5 23,2 23,8 24,9 3,000,0 3,88,6 3,88,6 3,88,6 11,5 11,1 169,96 23,8 23,8 24,9 24,9 24,9 24,9 3,000,0 3,88,6 3,88,6 3,88,6 3,88,6 11,5 17,7	1,500.0	1,500.0	1,501.0	1,499.0	5.1	5.2	45.48	29.7	30.2	42.4	32.1	10.30	4.120 CC		
1,800,0 1,790,9 1,801,1 1,790,9 6,2 6,2 1,702 20,7 30,2 45,5 33,1 12,43 3,868 SF 1,900,0 1,999,4 2,001,8 1,998,4 6,8 6,9 131,08 29,7 30,2 45,5 35,5 38,6 13,85 3,861 2,000,0 1,999,4 2,001,8 1,998,4 6,8 6,9 131,08 29,7 30,2 60,2 45,7 35,5 38,6 13,85 3,861 2,000,0 2,941,3 2,027,2 2,197,3 7,8 7,7 144,15 29,7 30,2 60,1 53,8 15,28 4,519 2,000,0 2,941,3 2,027,2 2,197,3 7,8 7,7 144,15 29,7 30,2 60,1 53,8 15,28 4,519 2,000,0 2,945,4 2,003,8 2,964 6,0 6,0 149,56 29,7 30,2 60,1 53,8 15,28 4,519 2,000,0 2,945,5 2,505,5 2,494,5 8,8 8,8 157,27 29,7 30,2 10,0 67,8 17,43 6,025 2,000,0 2,945,5 2,505,5 2,494,5 8,8 8,8 157,27 29,7 30,2 10,0 67,8 17,43 6,025 2,000,0 2,945,5 2,505,5 2,945,5 9,5 9,5 15,107 29,7 30,2 118,0 99,9 18,15 6,502 2,000,0 2,945,5 2,505,5 2,791,5 9,9 9,8 163,47 29,7 30,2 118,0 99,9 18,15 6,502 2,000,0 2,945,5 2,505,5 2,791,5 9,9 9,8 163,47 29,7 30,2 131,2 112,3 18,67 6,462 2,000,0 2,000,5 2,	1,600.0	1,600.0	1,601.0	1,599.0	5.5	5.5	109.54	29.7	30.2	42.7	31.7	11.01	3.879 ES		
1890.0 1,898.7 1,901.3 1,898.7 6.6 6,6 124.15 28.7 30.2 48.7 35.5 13.14 3.704 2,000.0 1,998.4 2,001.6 1,998.4 6.9 6.9 131.08 28.7 30.2 55.5 39.6 13.85 3.861 2,000.0 2,998.9 2,102.1 2,097.9 7.3 7.3 137.91 28.7 30.2 60.2 45.7 14.57 4.134 2,000.0 2,198.3 2,202.7 2,197.3 7.6 7.7 144.15 28.7 30.2 60.1 83.8 15.28 4.519 2,000.0 2,297.4 2,303.6 2,298.4 8.0 8.0 149.56 28.7 30.2 80.0 64.0 18.00 5.003 2,400.0 2,398.4 2,404.6 2,395.4 8.4 8.4 153.33 28.7 30.2 80.0 80.0 84.0 16.00 5.003 2,400.0 2,398.4 5,260.8 5,260.8 8.8 8.8 153.2 29.7 30.2 105.0 87.6 17.43 5.24 2,500.0 2,495.5 2,505.5 2,494.5 8.8 8.8 153.72.7 29.7 30.2 105.0 87.6 17.43 6.025 2,700.0 2,495.5 2,505.5 2,494.5 8.8 8.8 153.87.27 29.7 30.2 105.0 87.6 17.43 6.025 2,700.0 2,503.5 2,707.5 2,602.5 9.5 9.5 16.107 28.7 30.2 111.0 99.9 18.15 8.502 2,700.0 2,503.5 2,707.5 2,602.5 9.5 9.5 16.107 28.7 30.2 114.5 12.3 18.87 6.902 2,700.0 2,702.5 2,808.5 2,781.5 9.9 9.8 153.67 28.7 30.2 144.5 12.3 18.67 6.902 2,800.0 2,702.5 2,808.5 2,781.5 9.9 9.8 153.67 28.7 30.2 144.5 12.3 18.67 6.902 2,800.0 2,703.5 3,808.8 11.1 10.8 167.7 28.7 30.2 144.5 12.3 18.67 6.902 2,800.0 2,803.6 3,088.5 3,088.5 11.1 10.8 167.7 28.7 30.2 144.5 12.3 18.67 6.902 2,800.0 3,808.8 3,808.5 3,888.8 11.5 11.1 169.96 29.7 30.2 144.5 12.3 18.0 9.8 9.8 183.6 1.3 10.0 14.5 11.5 11.1 169.96 20.3 8.8 18.8 18.8 18.8 18.8 18.8 18.8 18.	1,700.0	1,700.0	1,701.0	1,699.0	5.9	5.9	112.77	29.7	30.2	43.7	31.9	11.72	3.725		
2,000.0 1,999.4 2,001.8 1,998.4 6.9 6.9 131.08 29.7 30.2 53.5 39.6 13.85 3.861	1,800.0	1,799.9	1,801.1	1,798.9	6.2	6.2	117.82	29.7	30.2	45.5	33,1	12.43	3,663 SF		
2,100.0 2,088.9 2,102.1 2,097.9 7.3 7.3 137.91 28.7 30.2 60.2 45.7 14.57 4.134 2,200.0 2,198.3 2,202.7 2,197.3 7.6 7.7 144.15 28.7 30.2 69.1 53.8 15.28 4.519 2,300.0 2,297.4 2,303.6 2,298.4 8.0 8.0 149.5 28.7 30.2 80.0 64.0 15.00 5.003 2,400.0 2,386.4 2,404.6 2,395.4 8.4 8.4 153.83 29.7 30.2 105.0 67.6 17.4 5.524 2,500.0 2,495.5 2,505.5 2,444.5 8.8 6.8 157.27 28.7 30.2 105.0 67.6 17.4 5.524 2,500.0 2,495.5 2,505.5 2,444.5 8.8 6.8 157.27 28.7 30.2 118.0 99.9 18.15 6.502 2,700.0 2,593.5 2,707.5 2,892.5 9.5 9.5 9.5 161.97 28.7 30.2 118.0 99.9 18.15 6.502 2,700.0 2,593.5 2,707.5 2,892.5 9.5 9.5 9.5 161.97 28.7 30.2 118.0 99.9 18.15 6.502 2,800.0 2,792.5 2,808.5 2,791.5 9.9 8.6 163.67 29.7 30.2 144.5 124.9 19.59 7.377 2,900.0 2,891.6 2,990.4 2,890.6 10.3 10.2 165.09 29.7 30.2 144.5 124.9 19.59 7.377 2,900.0 2,891.6 2,990.4 2,890.6 10.3 10.2 165.09 29.7 30.2 171.4 150.4 20.55 8.180 3,100.0 3,089.6 3,088.5 31.88 11.5 11.1 10.8 167.74 28.4 29.9 185.0 163.3 21.65 8.545 3,200.0 3,886.7 3,475. 3,284.7 3,284.3 11.9 11.5 172.78 16.0 27.0 21.34 190.4 22.9 9.279 3,400.0 3,386.7 3,475. 3,475.2 12.7 12.1 179.80 4.5 10.0 27.0 21.34 190.4 22.9 9.279 3,400.0 3,886.7 3,877.5 3,475.2 12.7 12.1 179.80 4.5 10.0 27.0 21.34 190.4 22.9 9.279 3,400.0 3,885.7 3,477.5 3,475.2 12.7 12.1 179.80 4.5 12.4 24.4 228.8 205.2 23.6 9.673 3,700.0 3,885.7 3,475. 3,475.2 12.7 12.1 179.80 4.5 1.0 24.4 228.8 205.2 23.6 9.673 3,700.0 3,885.8 3,885.1 3,884.0 14.4 13.4 18.5 14.6 4.9 10.1 1.5 34.3 30.7 5 26.0 11.142 3,800.0 3,886.8 3,886.3 3,886.1 3,384.0 14.4 13.4 18.5 14.6 4.9 10.1 1.5 34.3 30.7 5 26.0 11.142 4,000.0 4,779.9 4,020.0 3,986.5 15.2 14.1 1.58.6 1.45.0 1.11 4.7 3,94.5 36.6 27.8 11.149 4,000.0 4,779.0 4,44.2 4,44.2 4,478.1 3,947.6 16.6 143.82 -346.7 -450.6 59.5 55.2 1.0 1.0 8 4,700.0 4,770.0 4,780.0 4,470.0 4,	1,900.0	1,899.7	1,901.3	1,898.7	6.6	6.6	124.15	29.7	30.2	48.7	35.5	13.14	3.704		
2,000.0 2,198.3 2,202.7 2,197.3 7,8 7,7 144.15 29.7 30.2 69.1 53.8 15.28 4,519 2,300.0 2,2984. 2,406.8 2,895.4 8.4 8.4 153.93 29.7 30.2 92.3 75.6 16.71 5.524 2,500.0 2,495.5 2,505.5 2,985.5 2,505.5 2,894.5 8.8 8.8 157.27 29.7 30.2 105.0 87.6 17.43 6.025 2,500.0 2,594.5 2,505.5 2,595.5 9.5 9.5 161.97 29.7 30.2 118.0 99.9 18.15 6.502 2,600.0 2,792.5 2,505.5 9.5 9.5 161.97 29.7 30.2 114.5 112.3 18.67 6.952 2,800.0 2,891.6 2,090.4 2,890.6 10.3 10.2 168.09 29.7 30.2 114.5 12.3 18.6 3.68 3.88.1 11.5 10.2 168.09 29.7 </td <td>2,000.0</td> <td>1,999.4</td> <td>2,001.6</td> <td>1,998.4</td> <td>6.9</td> <td>6.9</td> <td>131.08</td> <td>29.7</td> <td>30.2</td> <td>53.5</td> <td>39.6</td> <td>13.85</td> <td>3.861</td> <td></td> <td></td>	2,000.0	1,999.4	2,001.6	1,998.4	6.9	6.9	131.08	29.7	30.2	53.5	39.6	13.85	3.861		
2,300.0 2,297.4 2,305.6 2,296.4 8.0 8.0 148,66 29.7 30.2 80.0 64.0 16,00 5.003 2,400.0 2,396.4 2,496.4 8.4 8.4 153,93 29.7 30.2 92.3 75.6 16,71 5,524 2,500.0 2,594.5 2,600.5 2,695.5 2,695.5 9.8 165,27 29.7 30.2 118.0 99.9 16,15 6,502 2,700.0 2,693.5 2,707.5 2,690.5 9.5 9.5 9.5 161,50 2,67 30.2 1181.0 99.9 16,15 6,692 2,800.0 2,891.6 2,990.6 10,3 10.2 165.09 29.7 30.2 157.9 137.6 20.31 7.776 2,900.0 2,891.6 2,890.6 10,88 10.7 10.5 166.29 29.7 30.2 157.9 137.6 20.31 7.776 3,000.0 3,092.6 3,888.5 3,888.5 11.1 10.	2,100.0	2,098.9	2,102.1	2,097.9	7.3	7.3	137.91	29.7	30.2	60.2	45.7	14.57	4.134		
2,400,0 2,396,4 2,404,6 2,395,4 8,4 133,93 29.7 30.2 92.3 75,6 16,71 5,524 2,500,0 2,595,5 2,505,5 2,494,5 8,8 8,8 157,27 29,7 30.2 105,0 87,6 17,43 6,025 2,600,0 2,594,5 2,606,5 2,593,5 9,5 9,5 161,97 22,7 30.2 113,2 112,3 18,15 6,502 2,800,0 2,792,5 2,808,5 2,791,5 9,9 9,8 163,67 29,7 30.2 144,5 124,9 19,99 7,377 3,000,0 2,990,6 2,989,6 10,3 10,2 168,09 29,7 30,2 171,4 150,4 20,95 8,180 3,000,0 2,990,6 2,989,6 10,7 10,5 166,29 29,7 30,2 171,4 150,4 20,95 8,180 3,000,0 3,008,6 3,088,5 11,1 10,8 167,74 28,4 29	2,200.0	2,198.3	2,202.7	2,197.3	7.6	7.7	144.15	29.7	30.2	69.1	53.8	15.28	4.519		
2,500.0 2,495.5 2,505.5 2,494.5 8,8 8,8 157,27 29,7 30,2 105.0 87,8 17,43 6,025 2,600.0 2,594.5 2,606.5 2,593.5 9,2 9,1 159,88 29,7 30,2 118.0 99,9 18.15 6,502 2,700.0 2,693.5 2,707.5 2,692.5 9,5 9,5 161.97 28,7 30,2 118.1 112,3 18.87 6,952 2,800.0 2,792.5 2,808.6 2,791.5 9,9 9,8 163.67 29,7 30,2 144.5 112,3 18.87 6,952 2,900.0 2,891.6 2,909.4 2,890.6 10,3 10,2 168.09 29,7 30,2 17,9 137,6 20,31 7,76 3,000.0 2,990.6 2,989.6 2,989.6 10,7 10,5 166.29 29,7 30,2 17,4 150,4 20,95 8,180 3,100.0 3,088.6 3,186.9 3,186.8 11.5 11.1 10,8 167,74 28.4 29,9 185.0 163,3 21.65 8,545 3,200.0 3,188.6 3,186.9 3,186.8 11.5 11.1 168.96 23,8 28,8 189,9 176,5 22,32 8,908 3,300.0 3,287,7 3,284,7 3,284,3 11,9 11,5 172,78 16,0 27,0 213.4 190,4 22,99 9,279 3,000.0 3,485,7 3,477.5 3,475.2 12,7 12,1 179,60 -8,9 21,1 245,7 221,4 24,32 10,106 3,600.0 3,584.8 3,572.0 3,588.2 13,1 12,4 -176.67 -25.6 17,1 294.4 238,5 20,2 23,6 8,9 6,73 3,000.0 3,881.8 3,846.3 3,834.0 14.4 13,4 -165.54 -91.0 17,1 4,7 14,7 14,7 14,7 14,7 14,7 14,7	2,300.0	2,297.4	2,303.6	2,296.4	8.0	8.0	149.56	29.7	30.2	80.0	64.0	16.00	5.003		
2,800.0 2,594.5 2,606.5 2,593.5 9.2 9.1 159.88 29.7 30.2 118.0 99.9 18.15 6,502 2,700.0 2,693.5 2,707.5 2,692.5 9.5 9.5 9.5 161.97 29.7 30.2 131.2 112.3 18.87 6,992 2,800.0 2,792.5 2,806.5 2,791.5 9.9 9.8 153.67 29.7 30.2 144.5 124.9 19.59 7,377 2,000.0 2,890.6 2,999.4 2,890.6 10.3 10.2 165.09 29.7 30.2 171.4 150.4 20.95 8,180 3,000.0 2,890.6 2,989.6 10.7 10.5 166.29 29.7 30.2 171.4 150.4 20.95 8,180 3,100.0 3,080.5 3,086.5 11.1 10.8 167.74 28.4 29.9 185.0 163.3 21.65 8,545 3,200.0 3,188.6 3,186.9 3,186.8 11.5 11.1 169.96 23.8 28.8 199.9 176.5 22.32 8,908 3,300.0 3,287.7 3,284.7 3,284.3 11.9 11.5 172.78 16.0 27.0 213.4 190.4 22.99 9,279 3,400.0 3,386.7 3,381.6 3,380.5 12.3 11.8 176.04 5.1 24.4 228.8 205.2 23.66 9.673 3,500.0 3,884.8 3,572.0 3,586.2 13.1 12.4 176.67 -25.6 17.1 244.7 228.8 205.2 23.66 9.673 3,500.0 3,883.8 3,665.1 3,365.1 13.5 12.7 172.89 45.0 12.5 285.2 259.6 25.0 11.142 3,800.0 3,883.8 3,865.1 3,569.1 13.5 12.7 172.89 45.0 12.5 285.2 259.6 25.0 11.142 3,800.0 3,883.8 3,865.1 3,374.8 13.9 13.1 -169.16 -66.9 7.2 30.8 25.2 282.3 282.1 11.768 3,900.0 3,881.8 3,846.3 3,572.0 3,590.0 3,881.8 3,846.3 3,572.0 3,590.0 3,590.0 3,881.8 3,846.3 3,572.0 3,590.0 3,590.0 3,881.8 3,846.3 3,574.8 13.9 13.1 -169.16 -66.9 7.2 30.0 5.0 282.2 259.6 25.0 11.142 3,800.0 3,881.8 3,846.3 3,574.6 13.9 13.1 -169.16 -66.9 7.2 30.0 3,500.0 3,881.8 3,846.3 3,574.0 3,590.0 3,590.0 3,881.8 3,846.3 3,590.0 3,590.0 3,881.8 3,846.3 3,590.0 3,590.0 3,881.8 3,846.3 3,590.0 3,590.0 3,881.8 3,846.3 3,590.0 3,590.0 3,881.8 3,846.3 3,590.0 14.4 13.4 -165.54 -91.0 1.5 33.4 3 30.5 26.80 12.475 4,000.0 4,070.9 4,000.0 3,990.5 14.8 13.8 -162.10 -117.1 -4.7 363.0 335.6 27.39 13.268 14.149 4,000.0 4,070.9 4,000.0 3,990.5 14.8 13.8 -162.10 -117.1 -4.7 363.0 335.6 27.39 13.268 14.149 4,000.0 4,070.9 4,000.0 3,990.5 16.0 14.9 -153.07 -205.5 -26.7 466.1 437.3 28.82 16.171 4,000.0 4,070.9 4,000.0 3,000.0 4,070.9 4,000.0 3,000.0 4,070.0 4,070.0 4,070.0 4,070.0 4,070.0 4,070.0 4,070.0 4,070.0 4,070.0 4,070.0 4,070.0 4,070.0 4,070.0 4,070.0 4,070.0	2,400.0	2,396.4	2,404.6	2,395.4	8.4	8.4	153,93	29.7	30.2	92.3	75.6	16.71	5.524		
2,700.0 2,693.5 2,707.5 2,692.5 9.5 9.5 9.5 161.97 29.7 30.2 131.2 112.3 18.87 6.952 2,800.0 2,792.5 2,806.5 2,791.5 9.9 9.8 163.67 29.7 30.2 167.9 137.6 20.31 7.776 3,000.0 2,990.6 2,989.6 2,989.6 10.7 10.5 166.29 29.7 30.2 167.9 137.6 20.31 7.776 3,000.0 2,990.6 2,889.6 2,889.6 10.7 10.5 166.29 29.7 30.2 171.4 150.4 20.95 8.180 3,100.0 3,089.6 3,088.5 3,088.5 11.1 10.8 167.74 28.4 29.9 185.0 163.3 21.65 8,545 3,200.0 3,188.6 3,186.9 3,186.8 11.5 11.1 198.96 23.8 28.8 198.9 176.5 22.32 8,908 3,300.0 3,287.7 3,287.7 3,284.7 3,284.3 11.9 11.5 172.78 16.0 27.0 271.4 190.4 22.99 9,279 3,400.0 3,386.7 3,381.6 3,380.5 12.3 11.8 176.04 5.1 24.4 228.8 205.2 23.66 9.673 3,500.0 3,485.7 3,477.5 3,475.2 12.7 12.1 179.80 8.89 21.1 245.7 221.4 24.32 10.106 3,500.0 3,584.8 3,572.0 3,586.2 13.1 12.4 -176.67 -25.6 17.1 264.4 29.9 5.5 28.3 29.5 24.97 10.591 3,700.0 3,883.8 3,665.1 3,669.1 13.5 12.7 12.1 172.89 45.0 12.5 285.2 295.6 25.0 11.142 3,800.0 3,782.8 3,756.5 3,747.8 13.9 13.1 -169.16 -66.9 7.2 308.5 282.3 26.21 11.768 3,900.0 3,881.8 3,486.3 3,834.0 14.4 13.4 -165.54 491.0 15.9 334.3 307.5 2.6.00 12.475 4,000.0 3,889.8 3,893.4 3,834.0 14.4 13.4 -165.54 491.0 15.9 334.3 307.5 2.6.00 12.475 4,000.0 4,076.9 4,000.0 3,889.8 3,894.1 3,917.6 14.8 13.8 162.10 -117.1 4.7 363.0 307.5 2.6.00 12.475 4,000.0 4,076.9 4,000.0 3,889.8 3,480.4 13.9 16.0 14.9 -165.04 -165.04 -174.0 1.5 334.3 307.5 2.6.00 12.475 4,000.0 4,076.9 4,000.0 4,077.9 4,165.4 4,161.9 16.0 14.9 -165.04 -165.05 -174.6 -184.4 428.9 400.5 28.37 15,117 4,000.0 4,077.9 4,165.4 4,161.9 16.0 14.9 -165.05 -174.6 -184.4 428.9 400.5 28.37 15,117 4,000.0 4,477.9 4,165.4 4,161.9 16.0 14.9 -165.05 -174.6 -184.4 428.9 400.5 28.37 15,117 4,000.0 4,077.9 4,165.4 4,161.9 16.0 14.9 -165.05 -265.0 46.1 476.9 29.24 17.307 4,000.0 4,477.9 4,165.4 4,161.9 16.0 14.9 -165.05 -265.0 46.1 476.9 29.3 15,117 4,000.0 4,477.9 4,165.4 4,161.9 16.0 14.59 -165.05 -265.0 46.1 476.9 29.3 15,117 4,000.0 4,477.9 4,165.4 4,161.9 16.0 14.59 -165.05 -265.0 46.1 476.9 29.3 11.5 11.4 4,000.0 4,477.9 4,	2,500.0	2,495.5	2,505.5	2,494.5	8.8	8.8	157.27	29.7	30.2	105.0	87.6	17.43	6.025		
2,800.0 2,792.5 2,808.5 2,791.5 9,9 9,8 163.67 29.7 30.2 144.5 124.9 19,59 7,377 2,900.0 2,991.6 2,909.6 1,909.6 10.3 10.2 165.09 29.7 30.2 117.1 150.4 20.91 7,776 3,000.0 3,089.6 3,088.5 10.7 10.5 166.29 29.7 30.2 117.1 160.4 20.95 8,180 3,100.0 3,089.6 3,088.5 11.1 10.8 167.74 28.4 29.9 185.0 163.3 21.65 8,545 3,200.0 3,186.8 3,186.8 11.5 11.1 11.8 196.0 23.8 28.8 186.9 176.5 22.32 8,008 3,300.0 3,287.7 3,284.7 3,284.3 11.8 176.0 5.1 21.1 19.60 8.9 21.1 244.2 22.99 9,279 3,500.0 3,884.8 3,572.0 3,584.8 3,572.0 <	2,600.0	2,594.5	2,606.5	2,593.5	9.2	9.1	159.88	29.7	30.2	118.0	99.9	18.15	6.502		
2,900.0 2,891.6 2,999.4 2,890.6 10.3 10.2 165.09 29.7 30.2 157.9 137.6 20.31 7.776 3,000.0 2,990.6 2,999.6 2,999.6 10.7 10.5 166.29 29.7 30.2 171.4 150.4 20.95 8.180 3,100.0 3,089.6 3,088.5 3,088.5 11.1 10.8 167.74 28.4 29.9 165.0 163.3 21.65 8.545 3,200.0 3,188.6 3,188.9 3,186.8 11.5 11.1 169.96 23.8 28.8 189.9 176.5 22.32 8.908 3,300.0 3,287.7 3,284.7 3,284.3 11.9 11.5 172.78 16.0 27.0 213.4 190.4 22.99 9.279 3,400.0 3,386.7 3,381.6 3,380.5 12.3 11.8 176.04 5.1 24.4 228.8 205.2 23.66 9.673 3,500.0 3,485.7 3,477.5 3,475.2 12.7 12.1 179.60 -8.9 21.1 245.7 221.4 24.32 10.106 3,800.0 3,584.8 3,572.0 3,568.2 13.1 12.4 -176.67 -25.6 17.1 264.4 239.5 24.97 10.591 3,700.0 3,683.8 3,685.1 3,659.1 13.5 12.7 -172.89 -45.0 12.5 285.2 259.6 25.60 11.142 3,800.0 3,782.8 3,766.5 3,747.8 13.9 13.1 -169.16 -66.9 7.2 308.5 282.3 26.21 11.768 3,900.0 3,881.8 3,846.3 3,834.0 14.4 13.4 169.16 -66.9 7.2 308.5 282.3 26.21 11.768 4,000.0 3,990.9 3,934.1 3,917.6 14.8 13.8 -162.10 -117.1 -4.7 363.0 335.6 27.36 13,268 4,100.0 4,079.9 4,020.0 3,998.5 15.2 14.1 -158.86 -145.0 -117.1 4.7 363.0 335.6 27.38 13,268 4,100.0 4,377.0 4,185.4 4,151.9 16.0 14.9 -153.07 -205.5 -257. 466.1 437.3 28.82 16.171 4,400.0 4,377.0 4,264.9 4,224.2 16.4 15.3 -150.52 237.5 -33.4 506.1 476.9 29.24 17.307 4,500.0 4,476.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,600.0 4,773.3 4,809.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,673.0 4,521.6 4,454.7 17.6 16.6 -143.82 -346.7 -594.4 636.1 605.1 31.00 20.576 4,800.0 4,773.3 4,809.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,673.0 4,464.0 4,364.8 4,297.8 16.8 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366	2,700.0	2,693.5	2,707.5	2,692.5	9.5	9.5	161.97	29.7	30.2	131.2	112.3	18.87	6.952		
3,000,0 2,996,6 2,989,6 2,989,6 10.7 10.5 166.29 29.7 30.2 171,4 150.4 20.95 8.180 3,100,0 3,089,6 3,088,5 3,088,5 11.1 10.8 167.74 28.4 29.9 185,0 163.3 21.65 8.545 3,200,0 3,188,6 3,186,9 3,186,8 11,5 11.1 169,6 23.8 28.8 198,9 176,5 22.32 8.908 3,300,0 3,287,7 3,284,7 3,284,3 11,9 11,5 172,78 16.0 27.0 213,4 190,4 22.99 9.279 3,400,0 3,386,7 3,381,6 3,380,5 12.3 11.8 176,04 5.1 24.4 228.8 205.2 23.66 9.673 3,500,0 3,485,7 3,475,5 3,475,2 12,7 12.1 179,60 -8.9 21.1 245,7 221.4 24.32 10.106 3,600,0 3,584,8 3,572,0 3,568,2 13.1 12.4 -176,67 -25.6 17.1 264,4 239,5 24,97 10.591 3,700,0 3,683,8 3,665,1 3,659,1 13.5 12.7 -172,89 45,0 12.5 285,2 259,6 25,60 11.142 3,800,0 3,782,8 3,756,5 3,747,8 13.9 13.1 -169,16 -66,9 7.2 308,5 282,3 26,21 11.768 3,900,0 3,881,8 3,846,3 3,834,0 14,4 13,4 -165,54 -91,0 1,5 334,3 307,5 26,80 12,475 4,000,0 3,980,9 3,934,1 3,917,6 14,8 13,8 -162,10 -117,1 4,7 363,0 335,6 27,36 13,268 4,100,0 4,079,9 4,020,0 3,985,5 15,2 14,1 -158,86 -145,0 -11,4 394,5 366,6 27,88 14,149 4,200,0 4,779,9 4,103,8 4,076,7 15,6 14,5 -155,85 -174,6 -18,4 428,9 40,5 28,37 15,117 4,400,0 4,377,0 4,264,9 4,224,2 16,4 15,3 -150,52 -237,5 -33,4 506,1 476,9 29,24 17,307 4,500,0 4,476,0 4,346,8 4,297,8 16,8 15,7 -148,07 -272,4 41,7 548,7 519,0 29,23 18,457 4,600,0 4,773,3 4,694,3 4,532,4 16,0 17,1 -142,42 -385,1 -88,5 68,0 605,9 31,02 20,556 4,800,0 4,773,3 4,694,3 4,533,4 18,0 17,1 -142,42 -385,1 -88,5 68,0 605,9 31,02 20,556 4,800,0 4,773,3 4,699,3 4,533,4 18,0 17,1 -142,42 -385,1 -88,5 681,0 649,3 31,68 21,500 4,800,0 4,773,3 4,699,3 4,533,4 18,0 17,1 -142,42 -385,1 -88,5 681,0 649,3 31,68 21,500 4,800,0 4,773,3 4,699,3 4,533,4 18,0 17,1 -142,42 -385,1 -88,5 681,0 649,3 31,68 21,500 4,800,0 4,872,7 4,702,4 4,612,6 18,4 17,7 -141,13 -423,0 -77,5 723,7 691,4 32,36 22,366	2,800.0	2,792.5	2,808.5	2,791.5	9.9	9.8	163.67	29.7	30.2	144.5	124.9	19.59	7.377		
3,100.0 3,089.6 3,088.5 3,088.5 11.1 10.8 167.74 28.4 29.9 185.0 163.3 21.65 8.545 3,200.0 3,188.6 3,186.9 3,186.8 11.5 11.1 169.96 23.8 28.8 199.9 176.5 22.32 8.908 3,300.0 3,287.7 3,284.7 3,284.3 11.9 11.5 172.78 16.0 27.0 213.4 190.4 22.99 9.279 3,400.0 3,381.6 3,381.6 3,380.5 12.3 11.8 176.04 5.1 24.4 228.8 205.2 23.66 9.673 3,500.0 3,485.7 3,475.2 12.7 12.1 179.60 -8.9 21.1 245.7 221.4 24.32 10.106 3,500.0 3,584.8 3,572.0 3,568.2 13.1 12.4 -176.67 -25.6 17.1 264.4 239.5 24.97 10.591 3,700.0 3,683.8 3,665.1 3,659.1 13.5 12.7 -172.89 -45.0 12.5 285.2 259.6 25.60 11.142 3,500.0 3,782.8 3,755.5 3,747.8 13.9 13.1 -169.16 -66.9 7.2 305.5 282.3 26.21 11.768 3,900.0 3,881.8 3,846.3 3,834.0 14.4 13.4 -165.54 -91.0 1.5 334.3 307.5 26.80 12.475 4,000.0 3,980.9 3,934.1 3,917.6 14.8 13.8 -162.10 -117.1 -4.7 363.0 335.6 27.36 13,268 4,100.0 4,079.9 4,020.0 3,985.5 15.2 14.1 -158.86 -145.0 -117.1 -4.7 363.0 335.6 27.36 13,268 4,100.0 4,277.9 4,185.4 4,151.9 16.0 14.9 -155.85 -174.6 -18.4 429.9 400.5 28.37 15.117 4,400.0 4,377.0 4,284.9 4,242.2 16.4 15.3 -150.52 -237.5 -33.4 506.1 476.9 29.24 17.307 4,500.0 4,376.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,000.0 4,375.0 4,344.2 4,376.3 17.2 16.1 -145.77 -309.9 -50.6 592.5 562.1 30.36 19.513 4,698.1 4,672.2 4,519.9 4,455.2 17.6 16.6 -143.27 -347.5 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.27 -347.5 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,677.3 4,690.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,872.7 4,702.4 4,645.2 17.6 16.6 -143.27 -347.5 -59.5 636.0 605.9 31.02 20.536 4,800.0 4,773.3 4,800.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,872.7 4,702.4 4,612.6 18.4 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366	2,900.0	2,891.6	2,909.4	2,890.6	10.3	10.2	165.09	29.7	30.2	157.9	137.6	20.31	7.776		
3,200,0 3,188,6 3,186,9 3,186,8 11,5 11,1 169,96 23,8 28,8 198,9 176,5 22,32 8,908 3,300,0 3,287,7 3,284,7 3,284,3 11,9 11,5 172,78 16,0 27,0 213,4 190,4 22,99 9,279 3,400,0 3,386,7 3,381,6 3,380,5 12,3 11,8 176,04 5.1 24,4 228,8 205,2 23,66 9,673 3,500,0 3,485,7 3,477,5 3,475,2 12,7 12,1 179,60 -8,9 21,1 245,7 221,4 24,32 10,106 3,600,0 3,584,8 3,572,0 3,586,2 13,1 12,4 -176,67 -25,6 17,1 264,4 239,5 24,97 10,591 3,700,0 3,683,8 3,665,1 3,659,1 13,5 12,7 -172,89 45,0 12,5 285,2 259,6 25,60 11,142 3,800,0 3,782,8 3,765,5 3,747,8 13,9 13,1 -169,16 -66,9 7,2 308,5 282,3 26,21 11,768 3,900,0 3,881,8 3,846,3 3,834,0 14,4 13,4 -165,54 -91,0 1,5 334,3 307,5 26,80 12,475 4,000,0 3,980,9 3,934,1 3,917,6 14,8 13,8 -162,10 -117,1 -4,7 363,0 335,6 27,36 13,268 4,100,0 4,079,9 4,020,0 3,985,5 15,2 14,1 -158,86 -145,0 -114, 394,5 366,6 27,88 14,149 4,200,0 4,178,9 4,103,8 4,076,7 15,6 14,5 -155,85 -174,6 -18,4 428,9 400,5 28,37 15,117 4,400,0 4,277,9 4,185,4 4,151,9 16,0 14,9 -153,07 -205,5 -25,7 466,1 437,3 28,82 16,171 4,400,0 4,377,0 4,264,9 4,224,2 16,4 15,3 -150,52 -237,5 -33,4 506,1 476,9 29,24 17,307 4,500,0 4,476,0 4,346,8 4,297,8 16,8 15,7 -148,07 -272,4 -41,7 548,7 519,0 29,73 18,457 4,600,0 4,675,0 4,450,0 4,575,0 4,453,2 4,516,9 16,6 -143,82 -346,7 -59,4 636,1 605,1 31,00 20,517 4,700,0 4,674,0 4,521,6 4,454,7 17,6 16,6 -143,82 -346,7 -59,4 636,1 605,1 31,00 20,517 4,700,0 4,674,0 4,521,6 4,454,7 17,6 16,6 -143,82 -346,7 -59,4 636,1 605,1 31,00 20,517 4,700,0 4,674,0 4,521,6 4,454,7 17,6 16,6 -143,82 -346,7 -59,5 636,9 605,9 31,02 20,536 4,800,0 4,773,3 4,609,3 4,533,4 18,0 17,1 -142,42 -385,1 -68,5 681,0 649,3 31,68 21,500 4,900,0 4,870,0 4,674,0 4,521,6 4,454,7 17,6 16,6 -143,79 -347,5 -59,5 636,9 605,9 31,02 20,536 4,900,0 4,870,7 4,702,4 4,612,6 18,4 17,7 -141,13 -423,0 -77,5 723,7 691,4 32,36 22,366	3,000.0	2,990.6	2,989.6	2,989.6	10.7	10.5	166.29	29.7	30.2	171.4	150.4	20.95	8.180		
3,300,0 3,287,7 3,284,7 3,284,3 11,9 11,5 172,78 16,0 27,0 213,4 190,4 22,99 9,279 3,400,0 3,386,7 3,381,6 3,380,5 12,3 11,8 176,04 5.1 24,4 228,8 205,2 23,66 9,673 3,500,0 3,485,7 3,477,5 3,475,2 12,7 12,1 179,60 -8,9 21,1 245,7 221,4 24,32 10,106 3,600,0 3,584,8 3,572,0 3,568,2 13,1 12,4 -176,67 -25,6 17,1 264,4 239,5 24,97 10,591 3,700,0 3,683,8 3,665,1 3,659,1 13,5 12,7 -172,89 -45,0 12,5 285,2 259,6 25,60 11,142 3,800,0 3,782,8 3,756,5 3,747,8 13,9 13,1 -169,16 -66,9 7,2 308,5 282,3 26,21 11,768 3,900,0 3,881,8 3,846,3 3,834,0 14,4 13,4 -165,54 -91,0 1,5 334,3 307,5 26,80 12,475 4,000,0 3,980,9 3,934,1 3,917,6 14,8 13,8 -162,10 -117,1 -4,7 363,0 335,6 27,36 13,268 4,100,0 4,079,9 4,020,0 3,980,5 15,2 14,1 -158,86 -145,0 -11,4 394,5 366,6 27,88 14,149 4,200,0 4,178,9 4,103,8 4,076,7 15,6 14,5 -155,85 -174,6 -18,4 428,9 400,5 28,37 15,117 4,300,0 4,277,9 4,185,4 4,151,9 16,0 14,9 -153,07 -205,5 -25,7 466,1 437,3 28,62 16,171 4,600,0 4,770,0 4,264,9 4,224,2 16,4 15,3 -150,52 -237,5 -33,4 506,1 476,9 29,24 17,307 4,600,0 4,770,0 4,264,9 4,224,2 16,4 15,3 -150,52 -237,5 -33,4 506,1 476,9 29,24 17,307 4,600,0 4,773,0 4,264,9 4,224,2 16,4 15,3 -150,52 -237,5 -33,4 506,1 476,9 29,24 17,307 4,600,0 4,773,0 4,264,9 4,224,2 16,4 15,3 -150,52 -237,5 -33,4 506,1 476,9 29,24 17,307 4,600,0 4,773,0 4,264,9 4,224,2 16,4 15,3 -150,52 -237,5 -33,4 506,1 476,9 29,24 17,307 4,600,0 4,773,0 4,510,0 4,476,0 4,454,7 17,6 16,6 -143,82 -346,7 -59,4 636,1 605,1 31,00 20,517 4,700,0 4,674,0 4,521,6 4,454,7 17,6 16,6 -143,82 -346,7 -59,4 636,1 605,1 31,00 20,517 4,700,0 4,674,0 4,521,6 4,454,7 17,6 16,6 -143,82 -346,7 -59,5 636,9 605,9 31,02 20,536 4,800,0 4,773,3 4,609,3 4,533,4 18,0 17,1 -142,42 -385,1 -68,5 681,0 649,3 31,68 21,500 4,900,0 4,773,3 4,609,3 4,533,4 18,0 17,1 -142,42 -385,1 -68,5 681,0 649,3 31,68 21,500	3,100.0	3,089.6	3,088.5	3,088.5	11.1	10.8	167.74	28.4	29.9	185.0	163.3	21.65	8.545		
3,400.0 3,386.7 3,381.6 3,380.5 12.3 11.8 176.04 5.1 24.4 228.8 205.2 23.66 9.673 3,500.0 3,485.7 3,475.5 3,475.2 12.7 12.1 179.60 -8.9 21.1 245.7 221.4 24.32 10.106 3,600.0 3,584.8 3,572.0 3,568.2 13.1 12.4 -176.67 -25.6 17.1 264.4 239.5 24.97 10.591 3,700.0 3,683.8 3,665.1 3,659.1 13.5 12.7 -172.89 -45.0 12.5 285.2 259.6 25.60 11.142 3,800.0 3,782.8 3,756.5 3,747.8 13.9 13.1 -169.16 -66.9 7.2 308.5 282.3 26.21 11.768 3,900.0 3,881.8 3,846.3 3,834.0 14.4 13.4 -165.54 -91.0 1.5 334.3 307.5 26.80 12.475 4,000.0 3,980.9 3,934.1 3,917.6 14.8 13.8 -162.10 -117.1 -4.7 363.0 335.6 27.36 13.268 4,100.0 4,079.9 4,020.0 3,988.5 15.2 14.1 -158.86 -145.0 -11.4 394.5 366.6 27.88 14.149 4,200.0 4,178.9 4,103.8 4,076.7 15.6 14.5 -155.85 -174.6 -18.4 428.9 400.5 28.37 15.117 4,300.0 4,277.9 4,185.4 4,151.9 16.0 14.9 -153.07 -205.5 -25.7 466.1 437.3 28.82 16.171 4,400.0 4,377.0 4,264.9 4,224.2 16.4 15.3 -155.52 -237.5 -33.4 506.1 476.9 29.24 17.307 4,500.0 4,476.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,600.0 4,575.0 4,434.2 4,376.3 17.2 16.1 -145.77 -309.9 -50.6 592.5 562.1 30.36 19.513 4,698.1 4,672.2 4,519.9 4,453.2 17.6 16.6 -143.79 -347.5 -59.5 636.9 605.9 31.02 20.536 4,800.0 4,773.3 4,609.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,872.7 4,702.4 4,612.6 18.4 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366	3,200.0	3,188.6	3,186.9	3,186.8	11.5	11.1	169.96	23.8	28.8	198.9	176.5	22.32	8.908		
3,500.0 3,485.7 3,477.5 3,475.2 12.7 12.1 179.60 -8.9 21.1 245.7 221.4 24.32 10.106 3,600.0 3,584.8 3,572.0 3,568.2 13.1 12.4 -176.67 -25.6 17.1 264.4 239.5 24.97 10.591 3,700.0 3,683.8 3,665.1 3,659.1 13.5 12.7 -172.89 -45.0 12.5 285.2 259.6 25.60 11.142 3,800.0 3,782.8 3,756.5 3,747.8 13.9 13.1 -169.16 -66.9 7.2 308.5 282.3 26.21 11.768 3,900.0 3,881.8 3,846.3 3,834.0 14.4 13.4 -165.54 -91.0 1.5 334.3 307.5 26.80 12.475 4,000.0 3,980.9 3,934.1 3,917.6 14.8 13.8 -162.10 -117.1 -4.7 363.0 335.6 27.36 13.268 4,100.0 4,079.9 4,020.0 3,998.5 15.2 14.1 -158.86 -145.0 -11.4 394.5 366.6 27.88 14.149 4,200.0 4,178.9 4,103.8 4,076.7 15.6 14.5 -155.85 -174.6 -18.4 428.9 400.5 28.37 15.117 4,300.0 4,277.9 4,185.4 4,151.9 16.0 14.9 -153.07 -205.5 -25.7 466.1 437.3 28.82 16.171 4,400.0 4,377.0 4,264.9 4,224.2 16.4 15.3 -150.52 -237.5 -334. 506.1 476.9 29.24 17.307 4,500.0 4,476.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,600.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.82 -346.7 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.79 -347.5 -59.5 636.9 605.9 31.02 20.536 4,800.0 4,773.3 4,609.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,872.7 4,702.4 4,612.6 18.4 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366	3,300.0	3,287.7	3,284.7	3,284.3	11.9	11.5	172.78	16.0	27.0	213.4	190.4	22,99	9.279		
3,600.0 3,584.8 3,572.0 3,568.2 13.1 12.4 -176.67 -25.6 17.1 264.4 239.5 24.97 10.591 3,700.0 3,683.8 3,665.1 3,659.1 13.5 12.7 -172.89 -45.0 12.5 285.2 259.6 25.60 11.142 3,800.0 3,782.8 3,756.5 3,747.8 13.9 13.1 -169.16 -66.9 7.2 308.5 282.3 26.21 11.768 3,900.0 3,881.8 3,846.3 3,834.0 14.4 13.4 -165.54 -91.0 1.5 334.3 307.5 26.80 12.475 4,000.0 3,980.9 3,934.1 3,917.6 14.8 13.8 -162.10 -117.1 -4.7 363.0 335.6 27.36 13.268 4,100.0 4,079.9 4,020.0 3,998.5 15.2 14.1 -158.86 -145.0 -11.4 394.5 366.6 27.88 14.149 4,200.0 4,178.9 4,103.8 4,076.7 15.6 14.5 -155.85 -174.6 -18.4 428.9 400.5 28.37 15.117 4,300.0 4,277.9 4,185.4 4,151.9 16.0 14.9 -153.07 -205.5 -25.7 466.1 437.3 28.82 16.171 4,400.0 4,377.0 4,264.9 4,224.2 16.4 15.3 -150.52 -237.5 -33.4 506.1 476.9 29.24 17.307 4,500.0 4,476.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,600.0 4,575.0 4,434.2 4,376.3 17.2 16.1 -145.77 -309.9 -50.6 592.5 562.1 30.36 19.513 4,698.1 4,672.2 4,519.9 4,453.2 17.6 16.6 -143.79 -347.5 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.79 -347.5 -59.5 636.9 605.9 31.02 20.536 4,800.0 4,773.3 4,609.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,872.7 4,702.4 4,612.6 18.4 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366	3,400.0	3,386.7	3,381.6	3,380.5	12.3	11.8	176.04	5.1	24.4	228.8	205.2	23.66	9.673		
3,700.0 3,683.8 3,665.1 3,659.1 13.5 12.7 -172.89 -45.0 12.5 285.2 259.6 25.60 11.142 3,800.0 3,782.8 3,756.5 3,747.8 13.9 13.1 -169.16 -66.9 7.2 308.5 282.3 26.21 11.768 3,900.0 3,881.8 3,846.3 3,834.0 14.4 13.4 -165.54 -91.0 1.5 334.3 307.5 26.80 12.475 4,000.0 3,980.9 3,934.1 3,917.6 14.8 13.8 -162.10 -117.1 -4.7 363.0 335.6 27.36 13.268 4,100.0 4,079.9 4,020.0 3,998.5 15.2 14.1 -158.86 -145.0 -11.4 394.5 366.6 27.88 14.149 4,200.0 4,178.9 4,103.8 4,076.7 15.6 14.5 -155.85 -174.6 -18.4 428.9 400.5 28.37 15.117 4,300.0 4,277.9 4,185.4 4,151.9 16.0 14.9 -153.07 -205.5 -25.7 466.1 437.3 28.82 16.171 4,400.0 4,377.0 4,264.9 4,224.2 16.4 15.3 -150.52 -237.5 -33.4 506.1 476.9 29.24 17.307 4,500.0 4,476.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,600.0 4,675.0 4,434.2 4,376.3 17.2 16.1 -145.77 -309.9 -50.6 592.5 562.1 30.36 19.513 4,688.1 4,672.2 4,519.9 4,453.2 17.6 16.6 -143.82 -346.7 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.79 -347.5 -59.5 636.9 605.9 31.02 20.536 4,800.0 4,773.3 4,609.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,800.0 4,872.7 4,702.4 4,612.6 18.4 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366	3,500.0	3,485.7	3,477.5	3,475.2	12.7	12.1	179.60	-8.9	21.1	245.7	221.4	24.32	10.106		
3,800.0 3,782.8 3,756.5 3,747.8 13.9 13.1 -169.16 -66.9 7.2 308.5 282.3 26.21 11.768 3,900.0 3,881.8 3,846.3 3,834.0 14.4 13.4 -165.54 -91.0 1.5 334.3 307.5 26.80 12.475 4,000.0 3,980.9 3,934.1 3,917.6 14.8 13.8 -162.10 -117.1 -4.7 363.0 335.6 27.36 13.268 4,100.0 4,079.9 4,020.0 3,988.5 15.2 14.1 -158.86 -145.0 -11.4 394.5 366.6 27.88 14.149 4,200.0 4,178.9 4,103.8 4,076.7 15.6 14.5 -155.85 -174.6 -18.4 428.9 400.5 28.37 15.117 4,300.0 4,277.9 4,185.4 4,151.9 16.0 14.9 -153.07 -205.5 -25.7 466.1 437.3 28.82 16.171 4,400.0 4,377.0 4,264.9 4,224.2 16.4 15.3 -150.52 -237.5 -33.4 506.1 476.9 29.24 17.307 4,500.0 4,476.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,600.0 4,575.0 4,434.2 4,376.3 17.2 16.1 -145.77 -309.9 -50.6 592.5 562.1 30.36 19.513 4,698.1 4,672.2 4,519.9 4,453.2 17.6 16.6 -143.82 -346.7 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.79 -347.5 -59.5 636.9 605.9 31.02 20.536 4,800.0 4,773.3 4,609.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,872.7 4,702.4 4,612.6 18.4 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366	3,600.0	3,584.8	3,572.0	3,568.2	13.1	12.4	-176.67	-25.6	17.1	264.4	239.5	24.97	10.591		
3,900.0 3,881.8 3,846.3 3,834.0 14.4 13.4 -165.54 -91.0 1.5 334.3 307.5 26.80 12.475 4,000.0 3,980.9 3,934.1 3,917.6 14.8 13.8 -162.10 -117.1 -4.7 363.0 335.6 27.36 13.268 4,100.0 4,079.9 4,020.0 3,98.5 15.2 14.1 -158.86 -145.0 -11.4 394.5 366.6 27.88 14.149 4,200.0 4,178.9 4,103.8 4,076.7 15.6 14.5 -155.85 -174.6 -18.4 428.9 400.5 28.37 15.117 4,300.0 4,277.9 4,185.4 4,151.9 16.0 14.9 -153.07 -205.5 -25.7 466.1 437.3 28.82 16.171 4,400.0 4,377.0 4,264.9 4,224.2 16.4 15.3 -150.52 -237.5 -33.4 506.1 476.9 29.24 17.307 4,500.0 4,476.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,600.0 4,575.0 4,434.2 4,376.3 17.2 16.1 -145.77 -309.9 -50.6 592.5 562.1 30.36 19.513 4,698.1 4,672.2 4,519.9 4,453.2 17.6 16.6 -143.82 -346.7 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.79 -347.5 -59.5 636.9 605.9 31.02 20.536 4,800.0 4,773.3 4,609.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,872.7 4,702.4 4,612.6 18.4 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366	3,700.0	3,683.8	3,665.1	3,659.1	13.5	12.7	-172.89	-45.0	12.5	285.2	259.6	25.60	11.142		
4,000.0 3,980.9 3,934.1 3,917.6 14.8 13.8 -162.10 -117.1 -4.7 363.0 335.6 27.36 13.268 4,100.0 4,079.9 4,020.0 3,998.5 15.2 14.1 -158.86 -145.0 -11.4 394.5 366.6 27.88 14.149 4,200.0 4,178.9 4,103.8 4,076.7 15.6 14.5 -155.85 -174.6 -18.4 428.9 400.5 28.37 15.117 4,300.0 4,277.9 4,185.4 4,151.9 16.0 14.9 -153.07 -205.5 -25.7 466.1 437.3 28.82 16.171 4,400.0 4,377.0 4,264.9 4,224.2 16.4 15.3 -150.52 -237.5 -33.4 506.1 476.9 29.24 17.307 4,500.0 4,476.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,600.0 4,575.0 4,434.2 4,376.3 17.2 16.1 -145.77 -309.9 -50.6 592.5<	3,800.0	3,782.8	3,756.5	3,747.8	13.9	13.1	-169.16	-66.9	7.2	308.5	282.3	26.21	11.768		
4,100.0 4,079.9 4,020.0 3,998.5 15.2 14.1 -158.86 -145.0 -11.4 394.5 366.6 27.88 14.149 4,200.0 4,178.9 4,103.8 4,076.7 15.6 14.5 -155.85 -174.6 -18.4 428.9 400.5 28.37 15.117 4,300.0 4,277.9 4,185.4 4,151.9 16.0 14.9 -153.07 -205.5 -25.7 466.1 437.3 28.82 16.171 4,400.0 4,377.0 4,264.9 4,224.2 16.4 15.3 -150.52 -237.5 -33.4 506.1 476.9 29.24 17.307 4,500.0 4,476.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,600.0 4,575.0 4,434.2 4,376.3 17.2 16.1 -145.77 -309.9 -50.6 592.5 562.1 30.36 19.513 4,698.1 4,672.2 4,519.9 4,453.2 17.6 16.6 -143.82 -346.7 -59.4 636.1	3,900.0	3,881.8	3,846.3	3,834.0	14.4	13.4	-165.54	- 91.0	1.5	334.3	307.5	26.80	12.475		
4,200.0 4,178.9 4,103.8 4,076.7 15.6 14.5 -155.85 -174.6 -18.4 428.9 400.5 28.37 15.117 4,300.0 4,277.9 4,185.4 4,151.9 16.0 14.9 -153.07 -205.5 -25.7 466.1 437.3 28.82 16.171 4,400.0 4,377.0 4,264.9 4,224.2 16.4 15.3 -150.52 -237.5 -33.4 506.1 476.9 29.24 17.307 4,500.0 4,476.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,600.0 4,575.0 4,434.2 4,376.3 17.2 16.1 -145.77 -309.9 -50.6 592.5 562.1 30.36 19.513 4,698.1 4,672.2 4,519.9 4,453.2 17.6 16.6 -143.82 -346.7 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.79 -347.5 -59.5 636.9	4,000.0	3,980.9	3,934.1	3,917.6	14.8	13.8	-162,10	-117.1	-4.7	363.0	335.6	27.36	13.268		
4,200.0 4,178.9 4,103.8 4,076.7 15.6 14.5 -155.85 -174.6 -18.4 428.9 400.5 28.37 15.117 4,300.0 4,277.9 4,185.4 4,151.9 16.0 14.9 -153.07 -205.5 -25.7 466.1 437.3 28.82 16.171 4,400.0 4,377.0 4,264.9 4,224.2 16.4 15.3 -150.52 -237.5 -33.4 506.1 476.9 29.24 17.307 4,500.0 4,476.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,600.0 4,575.0 4,434.2 4,376.3 17.2 16.1 -145.77 -309.9 -50.6 592.5 562.1 30.36 19.513 4,698.1 4,672.2 4,519.9 4,453.2 17.6 16.6 -143.82 -346.7 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.79 -347.5 -59.5 636.9	4,100.0	4,079.9	4,020.0	3,998.5	15.2	14.1	-158.86	-145.0	-11.4	394.5	366.6	27.88	14.149		
4,300.0 4,277.9 4,185.4 4,151.9 16.0 14.9 -153.07 -205.5 -25.7 466.1 437.3 28.82 16.171 4,400.0 4,377.0 4,264.9 4,224.2 16.4 15.3 -150.52 -237.5 -33.4 506.1 476.9 29.24 17.307 4,500.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,600.0 4,575.0 4,434.2 4,376.3 17.2 16.1 -145.77 -309.9 -50.6 592.5 562.1 30.36 19.513 4,698.1 4,672.2 4,519.9 4,453.2 17.6 16.6 -143.82 -346.7 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.79 -347.5 -59.5 636.9 605.9 31.02 20.536 4,800.0 4,773.3 4,609.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 </td <td></td>															
4,500.0 4,346.8 4,297.8 16.8 15.7 -148.07 -272.4 -41.7 548.7 519.0 29.73 18.457 4,600.0 4,575.0 4,434.2 4,376.3 17.2 16.1 -145.77 -309.9 -50.6 592.5 562.1 30.36 19.513 4,698.1 4,672.2 4,519.9 4,453.2 17.6 16.6 -143.82 -346.7 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.79 -347.5 -59.5 636.9 605.9 31.02 20.536 4,800.0 4,773.3 4,609.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,872.7 4,702.4 4,612.6 18.4 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366	4,300.0		4,185.4	4,151.9	16.0	14.9		-205.5		466.1		28.82	16.171		
4,600.0 4,575.0 4,434.2 4,376.3 17.2 16.1 -145.77 -309.9 -50.6 592.5 562.1 30.36 19.513 4,698.1 4,672.2 4,519.9 4,453.2 17.6 16.6 -143.82 -346.7 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.79 -347.5 -59.5 636.9 605.9 31.02 20.536 4,800.0 4,773.3 4,609.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,872.7 4,702.4 4,612.6 18.4 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366	4,400.0	4,377.0	4,264.9	4,224.2	16.4	15.3	-150.52	-237.5	-33.4	506.1	476.9	29.24	17.307		
4,698.1 4,672.2 4,519.9 4,453.2 17.6 16.6 -143.82 -346.7 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.79 -347.5 -59.5 636.9 605.9 31.02 20.536 4,800.0 4,773.3 4,609.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,872.7 4,702.4 4,612.6 18.4 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366	4,500.0	4,476.0	4,346.8	4,297.8	16.8	15.7	-148.07	-272.4	-41.7	548.7	519.0	29.73	18.457		
4,698.1 4,672.2 4,519.9 4,453.2 17.6 16.6 -143.82 -346.7 -59.4 636.1 605.1 31.00 20.517 4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.79 -347.5 -59.5 636.9 605.9 31.02 20.536 4,800.0 4,773.3 4,609.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,872.7 4,702.4 4,612.6 18.4 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366	4,600.0	4,575.0	4,434.2	4,376.3	17.2	16.1	-145.77	-309.9	-50.6	592.5	562.1	30.36	19.513		
4,700.0 4,674.0 4,521.6 4,454.7 17.6 16.6 -143.79 -347.5 -59.5 636.9 605.9 31.02 20.536 4,800.0 4,773.3 4,609.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,872.7 4,702.4 4,612.6 18.4 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366															
4,800.0 4,773.3 4,609.3 4,533.4 18.0 17.1 -142.42 -385.1 -68.5 681.0 649.3 31.68 21.500 4,900.0 4,872.7 4,702.4 4,612.6 18.4 17.7 -141.13 -423.0 -77.5 723.7 691.4 32.36 22.366															
											649.3				
5,000.0 4,972.5 4,786.3 4,692.2 18.8 18.2 -139.89 -461.1 -86.6 765.2 732.2 33.00 23.188	4,900.0	4,872.7	4,702.4	4,612.6	18.4	17.7		-423.0	-77.5	723.7	691.4	32.36	22.366		
	5,000.0	4,972.5	4,786.3	4,692.2	18.8	18.2	-139.89	-461.1	-86.6	765.2	732.2	33.00	23.188		

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Well Barry Miller State Com #221H Local Co-ordinate Reference:

TVD Reference: KB @ 3113.5usft KB @ 3113.5usft MD Reference: North Reference: Grid

Survey Calculation Method: Minimum Curvature 2.00 sigma

Output errors are at EDM 5000.14 Server Database:

Offset Des	_		iller - Bar	ry Miller Sta	ite Com #	‡136H - Well	lbore #1 - Stat	e 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 (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	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	5,072.4	4,875.4	4,772.2	19.2	18.7	-138.69	-499.4	-95.7	805.4	771.7	33.66	23.928		
5,200.0	5,172.3	4,964.9	4,852.4	19.5	19.3	-137.52	-537.8	-104.8	844.3	810.0	34.31	24.607		
5,231.4	5,203.8	5,006.9	4,877.7	19.6	19.5	159.90	-549.9	-107.7	856.3	821.7	34.58	24.763		
5,300.0	5,272.3	5,054.6	4,932.9	19.8	19.8 20.4	160.95	-576.3	-114.0 -123.2	882 <u>.</u> 4 921.1	847.5 885.4	34.96 35.61	25.242		
5,400.0 5,500.0	5,372.3 5,472.3	5,144.3 5,234.1	5,013.5 5,094.0	20.2 20.5	21.0	162.38 163.71	-614.9 -653.4	-123.2 -132.4	960.1	923.9	36.27	25.863 26.472		
5,600.0 5,700.0	5,572.3 5,672.3	5,323.8 5,413.5	5,174.5 5,255.0	20.8 21.2	21.6 22.2	164.93 166.07	-691.9 -730.5	-141.5 -150.7	999.6 1,039.5	962.7 1,001.9	36.93 37.60	27.068 27.650		
5,800.0	5,772.3	5,503.2	5,335.5	21.5	22.8	167.12	-769.0	-159.9	1,079.7	1,041.5	38.26	28.217		
5,900.0	5,872.3	5,607.0	5,416.0	21.8	23.5	168.10	-807.5	-169.0	1,120.2	1,081.2	39.00	28.722		
6,000.0	5,972.3	5,682.7	5,496.5	22.2	24.1	169.02	-846.1	-178.2	1,161.0	1,121.4	39.61	29.309		
6,100.0	6,072.3	5,772.4	5,577.1	22.5	24.7	169.87	-884.6	-187.4	1,202.0	1,161.7	40,29	29,834		
6,200.0	6,172.3	5,862.2	5,657.6	22.9	25.3	170.67	- 923.1	-196.6	1,243.2	1,202.3	40.97	30.344		
6,300.0	6,272.3	5,951.9	5,738.1	23.2	26.0	171.42	-961.7	-205.7	1,284.7	1,243.0	41.66	30.840		
6,400.0	6,372.3	6,041.6	5,818.6	23.5	26.6	172.13	-1,000.2	-214.9	1,326.3	1,283.9	42.34	31.322		
6,500.0	6,472.3	6,131.4	5,899.1	23.9	27.2	172.79	-1,038.7	-224.1	1,368.0	1,325.0	43.03	31.791		
6,600.0	6,572.3	6,221.1	5,979.6	24.2	27.9	173.41	-1,077.3	-233.3	1,409.9	1,366.2	43.72	32.246		
6,700.0	6,672.3	6,310.8	6,060.1	24.6	28.5	174.00	-1,115.8	-242.4	1,451.9	1,407.5	44.42	32,689		
6,800.0	6,772.3	6,400.5	6,140.6	24.9	29.2	174,56	-1,154.3	-251.6	1,494.1	1,449.0	45.11	33,119		
6,900.0	6,872.3	6,509.7	6,221.2	25.2	30.0	175.09	-1,192.9	-260.8	1,536.4	1,490.5	45.90	33.471		
7,000.0	6,972.3	6,580.0	6,301.7	25.6	30.5	175.58	-1,231.4	-269.9	1,578.7	1,532.2	46.51	33.943		
7,100.0	7,072.3	6,669.7	6,382.2	25.9	31.2	176.06	-1,269.9	-279.1	1,621.2	1,574.0	47.21	34.337		
7,200.0	7,172.3	6,759.5	6,462.7	26.3	31.8	176.51	-1,308.5	-288.3	1,663.7	1,615.8	47.92	34.721		
7,300.0	7,272.3	6,903.2	6,592.6	26.6	32.9	177.16	-1,368.4	-302.6	1,705.2	1,655.9	49.35	34.554		
7,400.0	7,372.3	7,066.5	6,742.8	27.0	34.0	177.79	-1,430.7	-317.4	1,743.2	1,692.3	50.95	34.217		
7,500.0	7,472.3	7,235.6	6,901.1	27.3	35.1	178.34	-1,488.6	-331.2	1,777.3	1,724.8	52,50	33,855		
7,600.0	7,572.3	7,410.2	7,067.0	27.7	36.2	178.80	-1,541.1	-343.7	1,807.3	1,753.3	53.99	33.477		
7,700.0	7,672.3	7,589.6	7,240.0	28.0	37.2	179.18	-1,587.4	-354.7	1,833.0	1,777.6	55.39	33.094		
7,800.0	7,772.3	7,773.3	7,419.3	28.3	38.1	179.49	-1,626.5	-364.0	1,854.3	1,797.6	56.69	32.711		
7,900.0	7,872.3	7,960.7	7,603.8	28.7	38.9	179.73	-1,657.7	-371.4	1,871.0	1,813.1	57.87	32.332		
8,000.0	7,972.3	8,150.8	7,792.5	29.0	39.6	179.90	-1,680.3	-376.8	1,882.9	1,823.9	58.91	31.962		
8,100.0	8,072.3	8,342.7	7,983.9	29.4	40.3	180.00	-1,693.9	-380.0	1,889.9	1,830.1	59.81	31.601		
8,200.0	8,172.3	8,530.2	8,171.3	29.7	40.8	-179.97	-1,698.1	-381.0	1,892.1	1,831.6	60.54	31,251		
8,300.0	8,272.3	8,630.2	8,271.3	30.1	41.0	- 179.97	-1,698.1	-381.0	1,892.1	1,830.9	61.20	30,918		
8,400.0	8,372.3	8,730.2	8,371.3	30.4	41.3	-179.97	-1,698.1	-381.0	1,892.1	1,830.3	61.85	30.591		
8,500.0	8,472.3	8,830.2	8,471.3	30.8	41.5	-179.97	-1,698.1	-381.0	1,892.1	1,829.6	62.51	30.270		
8,600.0	8,572.3	8,930.2	8,571.3	31.1	41.8	-179.97	-1,698.1	-381.0	1,892.1	1,828.9	63.16	29.955		
8,614.6	8,586.9	8,944.8	8,585.9	31.2	41.8	- 179.97	-1,698.1	-381.0	1,892.1	1,828.8	63.26	29.910		
8,700.0	8,672.3	9,028.5	8,669.6	31.5	42.0	-179.97	-1,698.1	-381.0	1,892.1	1,828.3	63.82	29.646		
8,800.0	8,772.3	9,100.0	8,740.9	31.8	42.2	179.88	-1,698.7	-376.1	1,893.0	1,828.5	64.47	29,363		
8,900.0	8,872.3	9,166.3	8,806.0	32.2	42.3	179.51	-1,700.3	-363.7	1,895.5	1,830.4	65,10	29,119		
9,000.0	8,972.3	9,230.3	8,867.0	32.5	42.4	178.93	-1,702.8	-344.7	1,900.0	1,834.3	65.70	28.919		
9,100.0	9,072.3	9,289.4	8,921.1	32.9	42.6	178,23	-1,705.8	-321.3	1,906.6	1,840.4	66.26	28,773		
9,200.0	9,172.3	9,350.0	8,973.9	33.2	42.7	177.34	-1,709.6	-291.7	1,915.9	1,849.1	66.80	28.681		
9,272.2	9,244.5	9,378.1	8,997.2	33.5	42.7	176.88	-1,711.6	-276.1	1,924.3	1,857.2	67.10	28.677		
9,300.0	9,272.3	9,391.2	9,007.8	33.6	42.7	86.49	-1,712.6	-268.5	1,927.9	1,860.7	67.21	28.684		
9,350.0	9,322.1	9,414.6	9,026.3	33.7	42.8	85.42	-1,714.4	-254.2	1,934.9	1,867.5	67.38	28.716		
9,400.0	9,371.3	9,438.2	9,044.3	33.9	42.8	84.35	-1,716.4	-239.1	1,942.2	1,874.7	67.52	28.766		
9,450.0	9,419.5	9,461.8	9,061.6	34.0	42.8	83.27	-1,718.4	-223.3	1,949.8	1,882.2	67.63	28.833		
9,500.0 9,550.0	9,466.4 9,511.6	9,485.4 9,500.0	9,078.4 9,088.4	34.1 34.2	42.8 42.9	82.20 81.25	-1,720.6 -1,721.9	-206.8 -196.2	1,957.7 1,965.7	1,890.0 1,897.9	67.71 67.72	28.913 29.025		
9,600.0	9,554.7	9,532.7	9,109.7	34.4	42.9	80.15	-1,725.1	-171.7	1,973.6	1,905.8	67.83	29.096		
۵,000.0	0,004.7	0,002.1	9,108.7	34.4	42.3	30.13	-1,723.1	-171.7	1,813.0	1,300.0	07.03	25.050		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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 Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Server

	Offset Des	sign	Barry Mi	iller - Bar	ry Miller Sta	te Com #	£136H - Well	bore #1 - Stat	e Plan #1					Offset Site Error:	0.0 usft
Name Company	Survey Progra	am: 0-M	WD							B				Offset Well Error:	0.0 usft
							Higheide	Officet Wallbox	o Contro			Minimum	Congretion		
	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		warning	
9700 90027 90031 91031 9408 420 7627 11720 11720 11720 11720 12720 20370 2		9 595 5									1 913 7		29 210		
9700.0 9,008.0 8,000.0 9,148.1 44.7 43.0 77.4 1,72.1 -117.0 1997. 1,293.0 07.97 23.370 9850.0 9,724.2 8,050.0 9,740.0 35.0 45.0 75.0 -1,737.6 -74.6 2,010.8 1,040.6 63.0 24.481 9850.0 9,724.2 8,050.0 9,740.0 35.0 45.0 75.0 -1,740.5 -74.6 2,010.8 1,040.6 63.0 24.481 9850.0 9,740.0 8,074.0 8,070.0 9,195.1 35.3 45.0 74.0 -1,744.4 -26.7 2,023.2 1,064.7 65.0 24.481 9850.0 9,740.0 8,750.0 9,195.1 35.3 45.0 74.0 -1,744.4 -26.7 2,023.2 1,064.7 65.0 24.481 1,000.0 8,740.0 8,750.0 9,177. 36.0 45.1 74.0 -1,744.4 -26.7 2,023.2 1,064.7 65.0 24.481 1,000.0 8,000.0 8,740.0 8,750.0 9,177. 36.0 45.1 73.4 -1,746.4 17.0 2,033.7 1,064.5 60.1 23.3 19.1 1,010.0 81.5 1.0 1,010.0 81.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0															
\$\ Post No. \$\ \text{Post No. \$\ \															
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1,000.00 0,781.8 0,722.3 2,003.2 35.5 43.0 74.19 -1,746.1 -9.0 2,003.7 1869.9 68.5 24.75															
	9,950.0	9,774.9	9,700.0	9,195.1	35.3	43.0	74.68	-1,743.4	- 29.7	2,023.2	1,954.7	68.58	29.503		
10,100,0 8,812,8 9,786,6 9,217,7 38.0 43.1 73.47 1,751,8 36.6 2,038,0 1,886,5 9,851 2,039,0 1,025,	10,000.0	9,791.8	9,722.3	9,203.2	35.5	43.0	74.19	-1,746.1	-9.0	2,028.7	1,959.9	68.83	29.475		
10,120, 20, 20, 20, 20, 20, 20, 20, 20, 20,	10,050.0	9,804.5	9,750.0	9,212.1	35.8	43.1	73.80	-1,749.4	17.0	2,033.7	1,964.5	69.17	29.403		
10,200.0 0,820.7 0,817.1 0,226.5 36.7 45.1 73.41 -1,757.8 81.5 2,046.2 1,975.8 70.41 29.009	10,100.0	9,812.9	9,769.6	9,217.7	36.0	43.1	73.47	-1,751.8	35.6	2,038.0	1,968.5	69.51	29.319		
10,206.0 9,822.0 9,829.4 9,230.0 38,0 43,1 73,42 -1,790.9 128,4 20,455 1,977.8 70,67 25,985 10,300.0 9,826.5 9,885.5 9,826	10,125.2	9,815.5	9,781.5	9,220.7	36.2	43.1	73.34	-1,753.3	47.0	2,040.0	1,970.3	69.72	29.260		
10,000 0,825,5 0,865,5 0,234,6 3,36 4,32 73,54 -1,783,9 128,0 2,068,5 1946,7 71,50 28,788 10,000 0,934,9 10,276,7 0,267,8 38,4 44,0 73,86 -1,780,8 540,3 2,070,7 1,993,8 76,90 26,927 10,000 0,939,7 10,300,8 3,207,7 40,8 44,6 73,79 -1,789,8 65,22 2,071,2 1,991,8 79,28 22,126 10,700,0 9,444, 10,000,4 2,685,7 43,3 46,3 73,67 -1,789,8 75,21 2,071,2 1,991,8 68,20 25,263 10,000,0 9,449,1 10,000,4 2,685,7 43,3 46,3 73,67 -1,789,8 85,21 2,071,9 1,992,2 84,68 24,467 10,000,4 3,035,8 10,000,5 3,273,3 48,3 48,6 73,35 -1,789,4 10,819,2 2,072,7 1,992,2 90,85 22,891 11,000,9 9,832,2 10,300,5 9,273,3 47,9 50,11 74,49 -1,785,5 1,151,9 2,073,1 1,974,6 93,69 22,126 11,000,9 9,873,3 11,000,5 3,273,3 47,9 50,11 74,49 -1,785,5 1,151,9 2,073,1 1,974,6 93,69 22,126 11,000,9 9,873,3 11,000,5 9,273,3 47,9 50,11 74,49 -1,785,5 1,151,9 2,073,1 1,974,6 93,69 22,126 11,000,9 9,873,3 11,000,5 9,273,4 51,4 53,2 73,37 -1,783,8 13,516 2,073,9 1,973,5 100,35 2,086,8 11,000,9 9,873,8 11,000,5 9,283,5 55,1 86,7 73,25 -1,782,9 1,515,6 2,075,7 1,967,3 10,741 19,315 11,000,9 9,882,1 11,300,8 9,283,5 55,1 86,7 73,25 -1,782,9 1,515,6 2,075,7 1,967,3 10,741 19,315 11,000,9 9,968,8 11,300,7 9,968,7 71,300,8 73,31 -1,774,9 1,785,9 1,785,9 1,987,3	10,200.0	9,820.7	9,817.1	9,228.5	36.7	43.1	73.41	-1,757.8	81.5	2,046.2	1,975.8	70.41	29.059		
10,000 0,830 10,048,7 0,247,8 38,4 43,4 78,80 -1,782,3 30,5,7 2,086,5 1,902,8 73,75 28,020	10,225.5	9,822.0	9,829.4	9,230.6	36.9	43.1	73.42	-1,759.3	93.4	2,048.5	1,977.8	70.67	28.985		
10,000 9,8349 10,278,7 9,257,8 39,4 44,0 73,85 -1,790,8 54,03 2,070,7 1,983,8 76,90 28,927	10,300.0	9,825.5	9,865.5	9,235.4	37.5	43.2	73.54	-1,763.9	128.9	2,056.2	1,984.7	71.50	28.758		
10,000 9,839,7 10,380,8 9,280,7 40,6 44,6 73,79 1,789,9 652,2 2071,2 1,991,9 76,28 28,128 10,700 9,844,4 10,509,4 9,285,7 43,3 46,3 73,67 1,789,0 752,1 2071,5 1,880,5 82,00 25,283 10,800,0 9,853,8 10,709,4 9,286,7 43,3 46,3 73,67 1,789,1 852,1 20,71,5 1,880,5 82,00 22,283 10,800,0 9,853,8 10,709,4 9,286,7 44,7 47,4 73,61 1,787,3 852,0 20,72,3 1,984,8 87,54 22,873 11,000,0 9,853,8 10,709,5 9,270,8 46,3 48,6 73,55 1,786,4 1,767,3 852,1 20,72,1 1,982,2 90,55 22,881 11,000,9 9,853,8 10,809,5 9,273,3 47,9 50,1 73,49 1,785,5 1,151,9 2,073,1 1,879,4 93,89 22,128 11,000,9 9,876,8 11,009,5 9,270,8 40,6 51,6 73,43 1,784,6 1,251,8 20,73,5 1,976,5 96,97 21,384 11,000,9 9,876,8 11,009,5 9,270,9 40,6 51,6 73,43 1,784,6 1,251,8 20,73,5 1,976,5 96,97 21,384 11,000,9 9,876,8 11,009,5 9,270,9 40,6 51,6 73,43 1,784,6 1,251,8 20,73,5 1,976,5 96,97 21,384 11,000,9 9,876,8 11,009,5 9,270,9 40,6 51,6 73,43 1,784,6 1,251,8 20,73,5 1,976,5 96,97 21,384 11,000,9 9,876,8 11,009,5 9,270,9 53,2 55,0 73,31 1,782,9 1,451,7 2,074,3 1,970,5 103,34 19,976 11,500,0 9,882,1 13,008,8 9,280,9 53,2 55,0 73,31 1,782,9 1,451,7 2,074,3 1,975,5 103,34 19,976 11,500,0 9,888,8 11,309,4 9,280,5 55,1 56,7 73,31 1,782,9 1,781,6 2,075,5 1,980,7 11,480,1 1,480	10,400.0	9,830.2	10,043.7	9,247.8	38.4	43.4	73.80	-1,782.3	305.7	2,066.5	1,992.8	73.75	28.020		
10,000 9,844 10,5094 9,265,2 41,9 45,4 73,73 -1,789.0 752,1 2,071.5 1,981.5 20,00 25,263 10,800.0 9,853.8 10,7094 9,265,7 43,3 43,3 73,67 -1,781.6 52,11 2,071.5 1,981.6 87,54 23,873 1,000.0 9,853.8 10,7094 9,268,3 44,7 47,4 73,61 -1,781.3 652.0 2,072.3 1,984.8 67,54 23,873 1,000.0 9,853.8 10,7094 9,268,3 44,7 47,4 73,61 -1,781.3 652.0 2,072.7 1,984.8 92,54 23,873 1,000.0 9,853.8 1,009.5 9,270.8 48,6 51,6 73,55 -1,784.4 1,511.9 2,073.1 1,978.4 93,89 22,126 1,000.0 9,872.5 1,009.5 9,271.8 48,6 51,6 73,43 -1,784.8 1,251.8 2,073.5 1,975.5 96,97 2,1384 1,300.0 9,872.5 1,109.5 9,278.4 51,4 53,2 73,37 -1,783.8 1,351.8 2,073.5 1,975.5 10,33.5 2,086 1,300.0 9,873.3 1,209.6 9,289.8 53,2 55,0 73,31 -1,782.9 1,451.7 2,074.3 1,970.5 103,84 1,970 1,970.5 1,9	10,500.0	9,834.9	10,278.7	9,257.8	39.4	44.0	73.85	-1,790.8	540.3	2,070.7	1,993.8	76.90	26,927		
108000 9.849.1 10.699.4 9.285.7 43.3 44.3 73.67 1.788.1 85.21 2.071.9 1.987.2 84.68 24.467 10.9000 9.858.3 10.704.4 9.288.3 44.7 47.4 73.61 1.787.3 992.0 2.072.7 1.984.2 90.55 22.891 11.1000 9.858.5 10.809.5 9.270.8 46.3 48.6 73.55 1.788.4 1.051.9 2.072.7 1.984.2 90.55 22.891 11.1000 9.863.2 10.909.5 9.270.8 46.3 48.6 73.55 1.788.4 1.051.9 2.072.7 1.982.2 90.55 22.891 11.1000 9.867.9 1.1006.5 9.275.8 49.6 51.6 73.49 1.786.8 1.151.9 2.073.1 1.979.4 93.69 22.1384 11.200.0 9.872.5 11.109.5 9.278.4 51.4 53.2 73.37 1.763.8 1.351.8 2.073.9 1.973.5 100.35 2.0866 11.400.0 9.877.3 11.209.6 9.280.9 55.2 55.0 73.31 1.782.9 1.451.7 2.074.3 1.970.5 103.44 19.976 11.500.0 9.888.8 11.390.4 9.288.5 55.9 60.5 73.31 1.780.2 1.551.8 2.075.1 1.984.4 110.72 18.743 11.700.0 9.881.5 11.509.6 9.288.5 56.9 60.5 73.13 1.780.3 1.781.5 2.075.5 1.980.7 114.80 18.079 11.500.0 9.896.2 11.697.9 9.291.6 60.9 62.4 73.07 1.7778.5 1.591.4 2.076.3 1.983.9 122.46 1.659.3 11.200.0 9.900.5 11.709.7 9.293.6 63.0 64.4 73.01 1.7778.5 1.591.4 2.076.3 1.980.3 122.46 1.656.9 1.200.0 9.900.5 11.809.7 9.288.7 65.0 65.4 72.99 1.7778.5 1.591.4 2.076.3 1.980.3 122.46 1.656.9 1.200.0 9.910.5 11.809.8 9.383.7 71.3 72.6 72.72 1.774.2 2.451.1 2.078.4 1.983.0 122.46 1.659.9 1.800.0 1.200.0 9.900.5 1.809.8 9.303.7 73.5 74.7 72.72 1.777.2 2.251.3 2.2078.0 1.983.6 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.40.9 1.40.4 1.4	10,600.0	9,839.7	10,390.6	9,260.7	40.6	44.6	73.79	-1,789.9	652.2	2,071.2	1,991.9	79.28	26.126		
10,000.0 9,853.8 10,709.4 0,286.3 44,7 47.4 7,36.1 1,787.3 695.0 2,072.3 1,984.8 87.54 23.673 11,000.0 9,865.5 10,809.5 9,270.3 46.3 46.6 73.6 1,786.4 1,051.9 2,072.3 1,984.8 87.54 23.673 11,000.0 9,862.2 10,000.5 9,275.9 49.6 51.6 73.43 1,784.6 1,251.8 2,073.5 1,976.5 96.97 21,384 11,000.0 9,867.8 11,109.5 9,278.4 51.4 53.2 73.37 1,783.8 1,251.8 2,073.5 1,973.5 100.35 20,866 11,000.0 9,873.3 12,095 9,283.5 55.1 56.7 73.37 1,783.8 1,251.8 2,073.5 1,973.5 100.35 20,866 11,000.0 9,873.3 12,095 9,283.5 55.1 56.7 73.25 1,782.0 1,551.6 2,074.3 1,970.5 100.35 20,866 11,000.0 9,861.5 11,509.6 9,283.5 55.1 56.7 73.25 1,782.0 1,551.6 2,074.3 1,970.5 100.35 20,866 11,000.0 9,861.5 11,509.6 9,283.5 55.1 56.7 73.25 1,782.0 1,551.6 2,074.3 1,970.5 100.35 20,866 11,000.0 9,861.5 11,509.6 9,283.5 55.1 56.7 73.25 1,782.0 1,551.6 2,074.3 1,970.5 100.35 20,866 11,000.0 9,861.5 11,509.6 9,283.5 56.1 56.7 73.25 1,782.0 1,551.6 2,074.3 1,970.3 107.41 19,315 11,000.0 9,861.5 11,509.6 9,281.5 1,509.6 57.3 13 1,781.5 2,075.6 1,561.6 2,075.1 1,561.6 1,561.6 1,561.6 1,561.6 2,075.1 1,561.6 1,561	10,700.0	9,844.4	10,509.4	9,263.2	41.9	45.4	73.73	-1,789.0	752.1	2,071.5	1,989.5	82.00	25.263		
11,000.0 9,886.5 10,809.5 9,270.8 46.3 48.6 73.55 -1,786.4 1,061.9 2,072.7 1,982.2 90.55 22.891 11,1000.0 9,886.2 10,909.5 9,275.3 47.9 50.1 73.49 -1,785.5 1,151.9 2,073.1 1,379.4 50.59 22.126 11,200.0 9,872.8 11,095.5 9,275.9 49.6 51.6 73.43 -1,784.5 1,251.8 2,073.5 1,576.5 96.97 21.384 11,300.0 9,872.8 11,109.5 9,275.4 51.4 53.2 73.37 1,783.8 1,351.8 2,073.9 1,375.5 100.35 20.666 11,400.0 9,872.3 11,209.6 9,280.9 53.2 55.0 73.31 1,782.9 1,451.7 2,074.3 1,370.5 103.84 19.976 11,500.0 9,886.8 11,390.4 9,286.0 55.1 55.1 56,7 73.25 1,782.0 1,551.6 2,074.7 1,967.3 107.41 19.315 11,600.0 9,886.8 11,390.4 9,286.0 57.0 58.2 73.19 1,781.2 1,651.6 2,075.1 1,964.4 110.72 18.743 11,700.0 9,881.5 11,509.6 9,283.5 55.9 60.5 73.33 1,780.3 1,780.3 1,751.5 2,075.5 1,960.7 114.80 18.079 11,800.0 9,880.2 11,009.7 9,291.1 60.9 60.5 73.13 1,780.3 1,751.5 2,075.5 1,960.7 114.80 18.079 11,800.0 9,800.2 11,700.7 9,295.6 63.0 64.4 73.01 1,778.5 1,951.4 2,076.3 1,853.9 122.46 18.955 12,000.0 9,905.5 11,809.7 9,296.1 65.0 66.4 72.95 1,777.7 2,051.3 2,076.3 1,853.9 122.46 18.955 12,000.0 9,910.3 11,909.7 9,296.7 67.1 68.4 72.90 1,777.5 2,075.0 1,967.3 1,960.4 120.37 16.44 12,000.0 9,910.3 12,009.8 9,300.7 71.3 72.6 72.78 1,775.1 2,351.2 2,077.5 1,996.3 134.34 15.466 12,000.0 9,992.2 12,309.8 9,301.2 69.2 70.5 72.84 1,775.9 2,251.2 2,077.6 1,946.8 130.33 15,938 12,000.0 9,910.8 12,100.8 9,300.7 71.3 72.6 72.78 1,775.1 2,351.2 2,077.6 1,998.6 133.3 143.34 15.466 12,000.0 9,924.5 12,209.8 9,308.8 75.6 76.8 72.86 1,775.1 2,351.2 2,077.6 1,998.6 133.3 143.54 14.489 12,000.0 9,994.5 12,009.8 9,311.3 77.8 79.0 72.60 1,772.4 2,551.0 2,078.0 1,998.6 133.3 143.54 14.489 12,000.0 9,955.5 12,910.0 9,324.0 98.9 90.0 72.30 1,776.1 1,776.2 2,551.0 2,078.0 1,998.6 13.33 16.077 12,000.0 9,962.7 12,300.8 9,300.7 77.3 72.6 72.78 1,775.5 2,551.0 2,078.0 1,998.6 133.3 145.59 14.489 13,000.0 9,975.5 12,910.0 9,324.0 98.9 90.0 72.30 1,776.1 1,776.2 2,550.0 2,089.9 1,908.3 145.59 14.599 13,000.0 9,965.7 13,469.9 9,331.9 94.4 96.8 12.2 14.77	10,800.0	9,849.1	10,609.4	9,265.7	43.3	46.3	73,67	-1,788.1	852.1	2,071.9	1,987.2	84.68	24,467		
11,100.0 9,863.2 10,909.5 9,273.3 47,9 50.1 73.49 -1,785.5 1,151.9 2,073.1 1,979.4 93.89 22,126 11,200.0 9,877.6 11,005.5 9,278.6 48.6 51.6 73.43 -1,784.5 1,251.8 2,073.5 1,975.5 696,7 21,384 11,300.0 9,877.3 11,209.6 9,280.9 53.2 55.0 73.31 -1,762.9 1,451.7 2,074.3 1,970.5 103.84 19.976 11,500.0 9,882.1 11,300.6 9,280.9 53.2 55.0 73.31 -1,762.9 1,451.7 2,074.3 1,970.5 103.84 19.976 11,500.0 9,882.1 11,300.6 9,280.5 55.1 56,7 73.25 -1,782.0 15.51.6 2,074.7 1,567.3 107.41 19.315 11,600.0 9,886.8 11,300.4 9,286.0 57.0 58.2 73.19 -1,781.2 1,651.6 2,075.1 1,964.4 110.72 18.743 11,500.0 9,881.5 11,500.6 9,288.5 56.9 60.5 73.33 -1,760.3 1,761.5 2,075.5 1,560.7 114.80 18.079 11,800.0 9,806.2 11,600.7 9,291.1 60.9 62.4 73.07 -1,778.4 1,861.5 2,075.9 1,967.3 116.60 17.503 11,900.0 9,900.9 11,700.7 9,283.6 63.0 64.4 73.01 -1,778.5 1,961.4 5,076.3 1,967.3 118.60 17.503 12,000.0 9,915.6 11,600.7 9,286.1 65.0 66.4 72.99 -1,777.7 2,051.3 2,076.8 1,950.4 126.37 16.494 12,100.0 9,915.0 12,000.8 9,301.2 60.2 70.5 72.84 -1,775.9 2,251.5 2,076.9 1,948.8 130.33 15,308 12,240.0 9,915.0 12,000.8 9,301.2 60.2 70.5 72.84 -1,775.9 2,251.2 2,077.6 1,948.3 134.34 134.34 15,466 12,300.0 9,924.5 12,000.8 9,301.2 60.2 70.5 72.84 -1,775.1 2,561.2 2,077.6 1,948.3 134.34 15,466 12,300.0 9,928.5 12,000.9 9,315.0 80.0 81.2 72.7 2,727.2 -1,774.2 2,651.0 2,078.9 1,932.3 146.58 14.183 12,400.0 9,933.9 12,409.9 9,311.3 77.8 79.0 72.60 -1,772.4 2,651.0 2,078.9 1,932.3 146.58 14.183 12,600.0 9,933.9 12,409.9 9,311.3 77.8 79.0 72.60 -1,772.4 2,651.0 2,078.9 1,932.3 146.58 14.183 12,600.0 9,933.0 12,000.9 9,316.9 84.4 86.6 72.42 -1,775.1 2,561.0 2,078.9 1,932.3 146.58 14.183 12,600.0 9,933.0 12,000.9 9,316.9 84.4 86.6 72.42 -1,775.1 2,561.0 2,078.9 1,932.3 146.58 14.183 12,600.0 9,933.0 12,000.9 9,316.9 84.4 86.6 72.42 -1,775.1 2,561.0 2,078.9 1,932.3 146.58 14.183 12,600.0 9,933.0 12,000.9 9,316.9 84.4 86.6 72.42 -1,776.6 2,176.8 2,176.9 1,932.3 146.58 14.183 12,000.0 9,933.0 12,000.9 9,316.9 84.4 86.6 72.42 -1,776.5 3,560.0 2,078.9 1,932.3 146.58 14.1	10,900.0	9,853.8	10,709.4	9,268.3	44.7	47.4	73.61	-1,787.3	952.0	2,072.3	1,984.8	87.54	23.673		
11,200.0 9,867.9 11,009.5 9,275.9 48,6 51,6 73,43 -1,784.6 1,281.8 2,073.5 1,976.5 96,97 21,384 11,300.0 9,877.3 11,209.6 9,280.9 53,2 55.0 73,31 -1,782.9 1,481.7 2,074.3 1,970.5 103,44 19,976 11,500.0 9,882.1 11,309.6 9,283.5 55.1 56.7 73,25 -1,782.0 1,581.8 2,074.7 1,967.3 107.41 19,315 11,500.0 9,882.1 11,309.6 9,283.5 55.1 56.7 73,25 -1,782.0 1,581.8 2,074.7 1,967.3 107.41 19,315 11,500.0 9,891.5 11,509.6 9,288.5 58.9 60.5 73.13 -1,782.0 1,581.8 2,074.7 1,967.3 107.41 19,315 11,000.0 9,891.5 11,509.6 9,288.5 58.9 60.5 73.13 -1,780.3 1,781.5 2,075.5 1,969.0 7 114.80 18,079 11,800.0 9,890.9 11,609.7 9,281.1 60.9 62.4 73,07 -1,779.4 1,881.5 2,075.5 1,969.7 114.80 18,079 11,900.0 9,800.9 11,709.7 9,283.6 63.0 64.4 73,01 -1,779.4 1,881.5 2,075.8 1,983.3 12,246 16,955 12,000.0 9,905.6 11,809.7 9,286.1 65.0 66.4 72,95 -1,777.7 2,081.3 2,076.8 1,980.4 128.37 16,434 12,000.0 9,910.3 11,909.7 9,288.7 67.1 68.4 72,90 -1,776.8 2,161.3 2,077.2 1,946.8 130,33 15,938 12,200.0 9,915.0 12,009.8 9,301.2 69.2 70.5 72.84 -1,775.9 2,281.2 2,077.6 1,943.3 134.34 15,466 12,300.0 9,918.8 12,109.8 9,303.7 71.3 72.6 72.78 -1,777.1 2,081.3 2,076.8 1,980.0 142.46 14,889 12,200.0 9,924.5 12,209.8 9,306.3 73.5 74.7 72.72 -1,774.2 2,481.1 2,078.4 1,938.0 142.46 14,889 12,500.0 9,933.9 12,409.9 9,313.9 80.0 81.2 72.54 -1,771.6 2,769.9 2,079.3 1,928.6 150.72 13,746 14,889 12,500.0 9,933.9 12,409.9 9,313.9 80.0 81.2 72.54 -1,771.6 2,769.9 2,079.7 1,948.8 154.99 13,447 14,889 12,000.0 9,985.7 12,810.0 9,321.5 86.7 87.8 72.86 -1,778.8 2,551.0 2,078.8 1,932.3 14,54 14,589 13,477 12,000.0 9,985.7 12,810.0 9,321.5 86.7 87.8 72.86 -1,776.8 2,551.0 2,078.8 1,932.3 14,58 14,589 13,474 14,589 12,500.0 9,985.7 12,810.0 9,321.5 86.7 87.8 72.86 -1,776.8 3,560.0 2,078.3 1,938.6 150,72 13,746 14,589 13,000.0 9,985.7 12,810.0 9,321.5 86.7 87.8 72.36 -1,776.8 3,580.9 2,080.2 1,921.1 159.09 13,076 12,401.1 13,000.0 9,985.7 12,810.0 9,321.5 86.7 87.8 72.36 -1,776.8 3,580.9 2,080.2 1,921.1 159.09 13,076 12,401.1 13,000.0 9,985.7 12,810.0 9,331.6 85.7 98.8 72.	11,000.0	9,858.5	10,809.5	9,270.8	46.3	48.6	73.55	-1,786.4	1,051.9	2,072.7	1,982.2	90.55	22.891		
11300.0 9.872.6 11.109.5 9.278.4 51.4 53.2 73.37 -1,783.8 1351.8 2.073.9 1973.5 100.35 20.666 11.400.0 9.877.3 11.209.6 9.280.9 53.2 55.0 73.31 -1,782.9 1.451.7 2.074.3 1.970.5 103.84 19.976 11.500.0 9.882.1 11.309.6 9.283.5 55.1 55.7 73.25 -1,782.0 1.551.6 2.074.7 1.967.3 107.41 19.315 11.600.0 9.886.8 11.390.4 9.286.0 57.0 58.2 73.19 -1,781.2 1.651.6 2.075.1 1.964.4 110.72 18.743 11.700.0 9.891.5 11.590.6 9.288.5 58.9 60.5 73.13 -1,780.3 1.751.5 2.075.5 1.960.7 114.80 18.079 11.600.0 9.806.2 11.609.7 9.281.1 60.9 62.4 73.07 -1,779.4 18.15.2 2.075.5 1.960.7 114.80 18.079 11.600.0 9.900.9 11,709.7 9.293.6 63.0 64.4 73.01 -1,778.5 1.951.4 2.076.3 19.573.3 11.80.0 17.503 11.900.0 9.900.9 11,709.7 9.293.6 63.0 64.4 73.01 -1,778.5 1.951.4 2.076.3 1.953.9 12.246 16.955 12.000.0 9.905.6 11.809.7 9.298.1 65.0 66.4 72.95 -1,777.7 2.051.3 2.076.8 1.950.4 126.37 16.434 12.200.0 9.910.3 11.903.7 9.298.1 65.0 66.4 72.95 -1,777.7 2.051.3 2.076.8 1.950.4 126.37 16.434 12.200.0 9.910.3 11.903.9 9.301.2 66.2 70.5 72.84 -1,775.9 2.251.2 2.077.6 1.946.8 130.33 15.938 12.200.0 9.918.8 12.109.8 9.303.7 71.3 72.6 72.78 -1,775.1 2.351.2 2.078.0 1.939.6 138.38 15.017 12.400.0 9.924.5 12.209.8 9.306.3 75.5 74.7 72.72 -1,774.2 2.451.1 2.078.4 1.936.0 142.46 14.589 12.500.0 9.938.6 12.509.9 9.318.9 80.0 81.2 72.54 -1,775.1 2.351.2 2.078.0 1.939.6 138.38 15.017 12.600.0 9.933.6 12.509.9 9.318.9 80.0 81.2 72.54 -1,771.6 2.750.9 2.079.7 1.924.8 154.89 13.427 12.200.0 9.943.0 12.200.9 9.938.6 12.509.9 9.318.9 80.0 81.2 72.54 -1,771.6 2.750.9 2.079.7 1.924.8 154.89 13.427 12.200.0 9.943.3 12.609.9 9.318.9 80.0 81.2 72.54 -1,771.6 2.750.9 2.079.7 1.924.8 154.99 13.427 13.000.0 9.952.7 12.810.0 9.324.5 80.9 9.00.8 80.9 0.0 72.30 -1,786.8 1.950.0 2.000.2 1.917.3 150.9 13.075 12.420.0 9.938.6 12.509.9 9.338.9 80.0 81.2 72.54 -1,771.6 2.750.9 2.000.2 1.917.3 150.9 1.913.5 167.55 12.421 13.000.0 9.957.5 12.900.0 9.324.5 80.9 9.0 9.324.5 80.9 9.0 72.30 -1,786.1 3.150.0 2.000.2 1.917.3 150.0 1.913.5 167.55 12.421 13.000.0 9.957.3 12.900.0 9.338.6 7.	11,100.0	9,863.2	10,909.5	9,273.3	47.9	50.1	73.49	-1,785.5	1,151.9	2,073.1	1,979.4	93.69	22.126		
11,400.0 9,877.3 112,99.6 9,280.9 53.2 55.0 73.31 -1,782.9 1,451.7 2,074.3 1,970.5 103.84 19.976 11,500.0 9,886.8 11,390.4 9,283.5 55.1 56.7 73.25 -1,782.0 1,551.6 2,074.7 1,967.3 107.41 19.315 11,000.0 9,886.8 11,390.4 9,280.0 57.0 58.2 73.19 -1,761.2 1,651.6 2,075.1 1,964.4 110,72 18.743 11,700.0 9,891.5 11,599.6 9,288.5 58.9 60.5 73.13 -1,780.3 1,751.5 2,075.5 1,960.7 114.80 18.079 11,800.0 9,896.2 11,699.7 9,291.1 60.9 62.4 73.07 -1,779.4 1,851.5 2,075.9 1,967.3 115.60 17.503 11,900.0 9,900.9 11,709.7 9,293.6 63.0 64.4 73.01 -1,778.5 19.14 2,076.3 19.53,9 112.46 16.955 12,000.0 9,900.9 11,709.7 9,298.6 63.0 64.4 73.01 -1,778.5 19.14 2,076.3 19.53,9 12.24 6 16.955 12,000.0 9,910.3 11,999.7 9,286.7 67.1 68.4 72.90 -1,777.7 2,051.3 2,076.8 1,950.4 126.37 16.434 12,100.0 9,910.3 11,999.7 9,286.7 67.1 68.4 72.90 -1,776.8 2,151.3 2,077.2 1,946.8 130.33 15,938 12,200.0 9,910.8 12,109.8 9,301.2 66.2 70.5 72.84 -1,775.9 2,251.2 2,077.6 1,943.3 134.34 15.466 12,300.0 9,910.8 12,109.8 9,300.3 75.5 74.7 72.72 -1,774.2 2,451.1 2,078.4 1,936.0 142.46 14.589 12,500.0 9,932.5 12,299.8 9,308.8 75.6 76.8 76.8 72.66 -1,773.3 2,551.0 2,078.4 1,936.0 142.46 14.89 12,500.0 9,933.9 12,409.9 9,311.3 77.8 70.0 72.60 -1,772.4 2,651.0 2,079.3 1,926.6 150.72 13,796 12,000.0 9,934.3 12,699.9 9,311.3 77.8 70.0 72.60 -1,772.4 2,651.0 2,079.3 1,928.6 150.72 13,796 12,000.0 9,943.3 12,699.9 9,311.3 77.8 70.0 72.60 -1,772.4 2,651.0 2,079.3 1,928.6 150.72 13,796 12,000.0 9,943.0 12,099.8 9,310.9 84.4 85.6 72.42 -1,769.8 2,980. 2,080.2 1,921.1 150.09 13,075 13,000.0 9,982.7 12,810.0 9,321.5 86.7 87.8 72.36 -1,768.9 3,050.7 2,081.0 1,913.5 167.55 12,421 13,100.0 9,967.5 12,910.0 9,324.5 86.7 87.8 72.36 -1,768.9 3,050.7 2,081.0 1,913.5 167.55 12,421 13,100.0 9,967.5 12,910.0 9,324.5 86.7 87.8 72.36 -1,768.3 3,590.8 2,080.6 19,173 16.33 17.65 12.421 13,100.0 9,967.5 12,910.0 9,324.0 88.9 90.0 72.30 -1,768.3 3,590.8 2,082.8 1,890.8 192.89 13,075 13,000.0 9,967.5 12,910.0 9,334.7 104.9 105.4 71.9 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	11,200.0	9,867.9	11,009.5	9,275.9	49.6	51.6	73.43	-1,784.6	1,251.8	2,073.5	1,976.5	96.97	21.384		
11,500,0 9,882,1 11,309,6 9,283,5 55.1 56,7 73,25 -1,782,0 1,551,6 2,074,7 1,967,3 107,41 19,315 11,600,0 9,886,8 11,390,4 9,286,0 57,0 58,2 73,19 -1,781,2 1,651,6 2,075,1 1,964,4 110,72 18,743 11,700,0 9,891,5 11,509,5 9,283,5 58,9 60,5 73,13 -1,780,3 1,751,5 2,075,5 1,960,7 114,80 18,079 11,800,0 9,896,2 11,609,7 9,291,1 60,9 62,4 73,07 -1,779,4 1,851,5 2,075,9 1,957,3 118,60 17,503 11,900,0 9,900,0 11,709,7 9,293,6 63,0 64,4 73,01 -1,778,5 19,51,4 2,076,3 1,953,9 122,46 16,955 12,000,0 9,905,8 11,809,7 9,296,1 65,0 66,4 72,95 -1,777,7 2,051,3 2,076,8 1,950,4 126,37 16,434 12,100,0 9,910,3 11,909,7 9,283,6 63,0 64,4 72,90 -1,776,8 2,151,3 2,076,8 1,950,4 126,37 16,434 12,200,0 9,915,0 12,008,8 9,301,2 69,2 70,5 72,84 -1,775,1 2,251,2 2,077,6 1,943,3 134,34 15,466 12,300,0 9,919,8 12,109,8 9,303,7 71,3 72,6 72,78 -1,775,1 2,351,2 2,076,0 1,999,6 138,38 15,017 12,400,0 9,924,5 12,208,8 9,306,3 73,5 74,7 72,72 -1,774,2 2,461,1 2,078,4 1,996,0 138,38 15,017 12,600,0 9,933,9 12,409,9 9,311,3 77,8 76,0 72,60 -1,772,4 2,651,0 2,078,9 1,932,3 146,56 14,163 12,600,0 9,933,9 12,409,9 9,311,3 77,8 76,0 72,60 -1,772,4 2,651,0 2,078,9 1,932,3 146,56 14,163 12,200,0 9,945,0 12,609,9 9,316,4 82,2 83,4 72,48 -1,771,6 2,750,9 2,096,7 1,924,8 194,89 13,427 12,800,0 9,943,3 12,609,9 9,316,4 82,2 83,4 72,48 -1,771,6 2,750,9 2,080,6 1,917,3 183,31 12,740 13,100,0 9,957,5 12,910,0 9,324,5 86,7 87,8 72,36 -1,768,8 3,550,4 2,950,8 2,908,6 1,917,3 183,31 12,740 13,100,0 9,957,5 12,910,0 9,324,5 86,7 87,8 72,36 -1,765,5 3,450,5 2,081,8 1,998,8 192,89 10,802 13,000,0 9,960,1 13,000,0 9,329,1 93,4 94,0 72,19 -1,768,3 3,550,4 2,083,1 1,980,8 192,89 10,802 13,000,0 9,965,2 12,960,0 9,334,1 98,0 98,6 72,07 -1,768,8 3,750,3 2,084,1 1,886,9 197,23 10,567 13,000,0 9,965,2 13,688,8 9,344,3 107,2 107,7 71,83 -1,765,5 3,450,3 2,085,1 1,893,1 12,605,9 10,124 13,000,0 9,965,2 13,689,9 9,334,1 98,0 98,6 72,07 -1,768,2 4,050,1 2,065,5 1,875,2 210,32 9,916	11,300.0	9,872.6	11,109.5	9,278.4	51.4	53.2	73.37	-1,783.8	1,351.8	2,073.9	1,973.5	100.35	20.666		
11800.0 9,888.8 11,390.4 9,286.0 57.0 58.2 73,19 -1,781.2 1,851.6 2,075.1 1,964.4 110,72 18,743 11,700.0 9,891.5 11,509.8 9,288.5 58.9 60.5 73.13 -1,780.3 1,751.5 2,075.5 1,960.7 114.80 18,079 11,900.0 9,898.2 11,009.7 9,291.1 60.9 62.4 73,07 -1,779.4 1,851.5 2,075.9 1,957.3 118.60 17,503 11,900.0 9,900.9 11,707.7 9,283.6 63.0 64.4 73,01 -1,778.5 1,474.4 2,076.3 1,953.9 1,953.0 118.60 17,503 12,000.0 9,900.9 11,707.7 9,286.1 65.0 66.4 72.95 -1,777.7 2,051.3 2,076.8 1,950.4 126.37 16,434 12,100.0 9,910.3 11,909.7 9,286.7 67.1 68.4 72.90 -1,776.8 2,151.3 2,077.2 1,946.8 130.33 15,938 12,200.0 9,916.5 12,008.8 9,301.2 69.2 70.5 72.84 1,775.9 2,251.2 2,077.6 1,943.3 134.34 15,466 12,300.0 9,916.8 12,008.8 9,301.3 73.5 74.7 72.72 -1,774.2 2,451.1 2,078.4 1,938.0 142.48 14.589 12,500.0 9,924.5 12,209.8 9,308.8 75.5 76.8 72.66 -1,773.3 2,551.0 2,078.0 1,939.6 142.48 14.589 12,500.0 9,922.2 12,209.8 9,308.8 75.5 76.8 72.66 -1,773.3 2,551.0 2,078.0 1,939.6 142.48 14.589 12,700.0 9,933.9 12,009.9 9,311.3 77.8 76.0 72.64 -1,771.6 2,251.1 2,078.4 1,938.0 142.48 14.589 12,700.0 9,938.8 12,509.9 9,311.3 60.0 81.2 72.54 -1,771.6 2,750.9 2,076.3 1,928.6 150.72 13.796 12,700.0 9,938.6 12,509.9 9,311.3 60.0 81.2 72.54 -1,771.6 2,750.9 2,076.3 1,928.6 150.72 13.796 12,700.0 9,948.0 12,709.9 9,318.9 80.4 82.2 83.4 72.48 -1,770.7 2,850.9 2,080.2 1,921.1 159.09 13.075 12,900.0 9,948.0 12,709.9 9,318.9 80.4 82.2 83.4 72.48 -1,770.7 2,850.9 2,080.2 1,921.1 159.09 13.075 12,900.0 9,948.0 12,709.9 9,318.9 80.4 82.2 83.4 72.48 -1,770.7 2,850.9 2,080.2 1,921.1 159.09 13.075 12,900.0 9,948.0 12,709.9 9,318.9 80.4 85.6 72.42 -1,769.8 2,950.8 2,950.8 2,080.5 1,977.3 185.31 12,740 13,000.0 9,952.7 12,810.0 9,324.0 88.9 90.0 72.30 -1,768.1 3,150.7 2,081.5 1,997.7 17.8 153.3 11.2740 13,000.0 9,962.7 12,810.0 9,324.0 88.9 90.0 72.30 -1,768.6 3,550.4 2,083.2 1,990.4 17.90.8 11,572 13,000.0 9,962.7 12,810.0 9,324.0 88.9 90.0 72.30 -1,768.6 3,550.4 2,083.2 1,990.8 19,20.4 179.94 11,572 13,000.0 9,962.7 12,810.0 9,334.0 80.0 98.6 72.07 -1,764.6 3,55	11,400.0	9,877.3	11,209.6	9,280.9	53.2	55.0	73.31	-1,782.9	1,451.7	2,074.3	1,970.5	103.84	19.976		
117000 9,881.5 11,509.6 9,288.5 58.9 60.5 73.13 -1,780.3 1,751.5 2,075.5 1,960.7 114.80 18,079 11,800.0 9,896.2 11,609.7 9,291.1 60.9 62.4 73.07 -1,779.4 1,851.5 2,075.3 1,957.3 118.60 17,503 12,000.0 9,900.9 11,709.7 9,293.6 63.0 64.4 73.01 -1,777.7 2,051.3 2,076.8 1,950.4 126.37 16.434 12,000.0 9,910.3 11,909.7 9,298.7 67.1 68.4 72.90 -1,776.8 2,151.3 2,077.2 1,946.8 130.33 15,938 12,2000.0 9,910.3 11,909.7 9,298.7 67.1 68.4 72.90 -1,776.8 2,151.3 2,077.6 1,946.8 130.33 15,938 12,2000.0 9,910.3 11,909.7 9,288.7 67.1 72.78 -1,777.8 2,251.2 2,077.6 1,948.3 134.34 15,466 12,3000.0 9,948.6 12,209.8 9,303.3 73.5 74.7 72.72 -1,774.2	11,500.0	9,882.1	11,309.6	9,283.5	55.1	56.7	73.25	-1,782.0	1,551.6	2,074.7	1,967.3	107.41	19.315		
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11,800.0 9,896.2 11,609.7 9,291.1 60.9 62.4 73.07 -1,779.4 1,851.5 2,075.9 1,957.3 118.60 17.503 11,900.0 9,900.9 11,709.7 9,293.6 63.0 64.4 73.01 -1,778.5 1,951.4 2,076.3 1,953.9 122.46 16,955 12,000.0 9,905.6 11,809.7 9,296.1 65.0 66.4 72.95 -1,777.7 2,505.3 2,076.8 1,950.4 126.37 16,434 12,100.0 9,910.3 11,909.7 9,298.7 67.1 68.4 72.90 -1,776.8 2,151.3 2,077.2 1,946.8 130.33 15,338 12,200.0 9,915.0 12,009.8 9,301.2 69.2 70.5 72.84 -1,775.9 2,251.2 2,077.6 1,943.3 134.34 15,466 12,300.0 9,919.8 12,109.8 9,303.7 71.3 72.6 72.78 -1,775.1 2,351.2 2,078.0 1,939.6 138.38 15,917 12,400.0 9,924.5 12,209.8 9,308.3 73.5 74.7 72.72 -1,774.2 2,451.1 2,078.4 1,939.6 138.38 15,917 12,500.0 9,929.2 12,309.8 9,308.8 75.6 75.8 72.60 -1,773.3 2,551.0 2,078.9 1,932.3 146.58 14,183 12,600.0 9,933.9 12,409.9 9,311.3 77.8 79.0 72.60 -1,772.4 2,651.0 2,079.9 1,932.3 146.58 14,183 12,600.0 9,943.0 12,509.9 9,314.4 82.2 83.4 72.48 -1,777.6 2,750.9 2,079.7 1,924.8 154.89 13,427 12,800.0 9,943.0 12,709.9 9,318.9 84.4 85.6 72.42 -1,776.8 2,950.9 2,080.2 1,921.1 159.09 13,075 12,900.0 9,948.0 12,709.9 9,318.9 84.4 85.6 72.42 -1,768.9 3,050.7 2,081.0 1,915.5 167.55 12,421 13,100.0 9,957.5 12,910.0 9,324.0 88.9 90.0 72.30 -1,768.1 3,150.7 2,081.5 1,909.7 171.81 12,115 13,200.0 9,965.0 13,090.0 9,324.0 88.9 90.0 72.30 -1,768.1 3,150.7 2,081.5 1,909.7 171.81 12,115 13,200.0 9,965.0 13,090.0 9,324.0 88.9 90.0 72.30 -1,768.1 3,150.7 2,081.5 1,909.7 171.81 12,115 13,200.0 9,965.0 13,090.0 9,324.0 88.9 90.0 72.30 -1,768.1 3,150.7 2,081.5 1,909.7 171.81 12,115 13,200.0 9,965.0 13,090.0 9,324.0 88.9 90.0 72.30 -1,768.1 3,150.7 2,081.5 1,909.7 171.81 12,115 13,200.0 9,965.7 12,910.0 9,324.0 88.9 90.0 72.30 -1,768.1 3,150.7 2,081.5 1,909.7 171.81 12,115 13,200.0 9,965.7 12,910.0 9,324.0 88.9 90.0 72.30 -1,768.1 3,150.7 2,081.5 1,909.7 171.81 12,115 13,200.0 9,965.7 13,499.9 9,334.1 99.0 98.6 72.07 -1,764.6 3,550.4 2,083.2 1,894.7 188.56 11,048 13,600.0 9,971.0 13,190.0 9,334.1 99.0 98.6 72.07 -1,764.6 3,550.4 2,083.2 1,894.7 188.56 11,048 13,60		9,891.5				60.5							18.079		
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12,800.0 9,943.3 12,609.9 9,316.4 82.2 83.4 72.48 -1,770.7 2,850.9 2,080.2 1,921.1 159.09 13,075 12,900.0 9,948.0 12,709.9 9,318.9 84.4 85.6 72.42 -1,769.8 2,950.8 2,080.6 1,917.3 163.31 12,740 13,000.0 9,957.5 12,910.0 9,321.5 86.7 87.8 72.36 -1,768.9 3,050.7 2,081.0 1,913.5 167.55 12,421 13,100.0 9,957.5 12,910.0 9,324.0 88.9 90.0 72.30 -1,768.1 3,150.7 2,081.5 1,909.7 171.81 12,115 13,200.0 9,962.2 12,990.0 9,326.5 91.2 91.8 72.24 -1,767.2 3,250.6 2,081.9 1,906.3 175.65 11,853 13,300.0 9,966.9 13,090.0 9,329.1 93.4 94.0 72.19 -1,766.3 3,350.6 2,082.3 1,902.4 179.94 11.572 13,400.0 9,976.3 13,289.9 9,334.1 98.0 98.6 72.07															
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13,300.0 9,966.9 13,090.0 9,329.1 93.4 94.0 72.19 -1,766.3 3,350.6 2,082.3 1,902.4 179.94 11.572 13,400.0 9,971.6 13,190.0 9,331.6 95.7 96.3 72.13 -1,765.5 3,450.5 2,082.8 1,898.6 184.24 11.305 13,500.0 9,976.3 13,289.9 9,334.1 98.0 98.6 72.07 -1,764.6 3,550.4 2,083.2 1,894.7 188.56 11.048 13,600.0 9,981.0 13,389.9 9,336.7 100.3 100.8 72.01 -1,763.7 3,650.4 2,083.7 1,890.8 192.89 10.802 13,700.0 9,985.7 13,489.9 9,339.2 102.6 103.1 71.95 -1,762.8 3,750.3 2,084.1 1,886.9 197.23 10.567 13,800.0 9,990.4 13,589.9 9,341.7 104.9 105.4 71.89 -1,762.0 3,850.3 2,084.6 1,883.0 201.58 10.341 13,900.0 9,995.2 13,689.8 9,344.3 107.2 107.7 71.83 </td <td></td>															
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13,800.0 9,990.4 13,589.9 9,341.7 104.9 105.4 71.89 -1,762.0 3,850.3 2,084.6 1,883.0 201.58 10,341 13,900.0 9,995.2 13,689.8 9,344.3 107.2 107.7 71.83 -1,761.1 3,950.2 2,085.1 1,879.1 205.95 10,124 14,000.0 9,999.9 13,789.8 9,346.8 109.5 110.0 71.77 -1,760.2 4,050.1 2,085.5 1,875.2 210.32 9,916															
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14,000.0 9,999.9 13,789.8 9,346.8 109.5 110.0 71.77 -1,760.2 4,050.1 2,085.5 1,875.2 210.32 9.916															
14,100.0 10,004.6 13,889.8 9,349.3 111.9 112.3 71.71 -1,759.4 4,150.1 2,086.0 1,871.3 214.69 9.716	14,100.0	10,004.6	13,889.8	9,349.3	111.9	112.3	71.71	-1,759.4	4,150.1	2,086.0	1,871.3	214.69	9.716		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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 @ 3113.5usft Grid

KB @ 3113.5usft

Well Barry Miller State Com #221H

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Server

Database:EDM 5000.14Offset TVD Reference:Offset Datum

Offset De	•		iller - Bar	ry Miller Sta	ate Com #	136H - Well	bore #1 - Stat	e Plan #1					Offset Site Error: Offset Well Error:	0.0 u 0.0 u
, ,	rence	Offse	et	Semi Major	Axis				Dista	ınce			Oliset Well Error:	0.0 0
leasured Depth (usft)	Vertica l Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	Offset Wellbor +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,200.0	10,009.3	13,989.8	9,351.9	114.2	114.6	71.65	-1,758.5	4,250.0	2,086.4	1,867.4	219.08	9.524		
14,300.0	10,014.0	14,089.7	9,354.4	116.5	117.0	71.60	-1,757.6	4,350.0	2,086.9	1,863.4	223.47	9.339		
14,400.0	10,018.7	14,189.7	9,356.9	118.9	119.3	71.54	-1,756.7	4,449.9	2,087.4	1,859.5	227.87	9.160		
14,500.0	10,023.4	14,289.7	9,359.5	121.2	121.6	71.48	-1,755.9	4,549.8	2,087.8	1,855.6	232.27	8.989		
14,600.0	10,028.1	14,389.7	9,362.0	123.6	124.0	71.42	-1,755.0	4,649.8	2,088.3	1,851.6	236.68	8.823		
14,700.0	10,032.8	14,489.6	9,364.5	125.9	126.3	71.36	-1,754.1	4,749.7	2,088.8	1,847.7	241.09	8.664		
14,800.0	10,037.6	14,589.6	9,367.1	128.3	128.7	71.30	-1,753.3	4,849.7	2,089.3	1,843.8	245.51	8.510		
14,900.0	10,042.3	14,689.6	9,369.6	130.7	131.0	71.24	-1,752.4	4,949.6	2,089.7	1,839.8	249.93	8.361		
15,000.0	10,047.0	14,789.6	9,372.1	133.0	133.4	71.19	-1,751.5	5,049.5	2,090.2	1,835.9	254.36	8.218		
15,100.0	10,051.7	14,889.5	9,374.7	135.4	135.7	71.13	-1,750.6	5,149.5	2,090.7	1,831.9	258.79	8.079		
15,200.0	10,056.4	14,989.5	9,377.2	137.8	138.1	71.07	-1,749.8	5,249.4	2,091.2	1,828.0	263.22	7.945		
15,300.0	10,061.1	15,089.5	9,379.7	140.1	140.4	71.01	-1,748.9	5,349.4	2,091.7	1,824.0	267.65	7.815		
15,400.0	10,065.8	15,189.5	9,382.3	142.5	142.8	70.95	-1,748.0	5,449.3	2,092.2	1,820.1	272.08	7.689		
15,500.0	10,070.5	15,289.4	9,384.8	144.9	145.2	70.89	-1,747.1	5,549.2	2,092.7	1,816.1	276.52	7.568		
15,600.0	10,075.3	15,389.4	9,387.3	147.3	147.5	70.83	-1,746.3	5,649.2	2,093.2	1,812.2	280.96	7.450		
15,700.0	10,080.0	15,489.4	9,389.9	149.7	149.9	70.78	-1,745.4	5,749.1	2,093.7	1,808.3	285.40	7.336		
15,800.0	10,084.7	15,589.4	9,392.4	152.0	152.3	70.72	-1,744.5	5,849.1	2,094.2	1,804.3	289.84	7.225		
15,900.0	10,089.4	15,689.3	9,394.9	154.4	154.7	70.66	-1,743.7	5,949.0	2,094.7	1,800.4	294.28	7.118		
16,000.0	10,094.1	15,789.3	9,397.5	156.8	157.1	70.60	-1,742.8	6,048.9	2,095.2	1,796.4	298.72	7.014		
16,100.0	10,098.8	15,889.3	9,400.0	159.2	159.4	70.54	-1,741.9	6,148.9	2,095.7	1,792.5	303.17	6.913		
16,200.0	10,103.5	15,989.3	9,402.5	161.6	161.8	70.48	-1,741.0	6,248.8	2,096.2	1,788.6	307.61	6.814		
16,300.0	10,108.2	16,089.3	9,405.1	164.0	164.2	70.43	-1,740.2	6,348.8	2,096.7	1,784.6	312.05	6.719		
16,400.0	10,113.0	16,189.2	9,407.6	166.4	166.6	70.37	-1,739.3	6,448.7	2,097.2	1,780.7	316.50	6.626		
16,500.0	10,117.7	16,289.2	9,410.1	168.8	169.0	70.31	-1,738.4	6,548.6	2,097.7	1,776.8	320.94	6.536		
16,600.0	10,122.4	16,389.2	9,412.7	171.2	171.4	70.25	-1,737.6	6,648.6	2,098.2	1,772.8	325.38	6.448		
16,700.0	10,127.1	16,489.2	9,415.2	173.6	173.8	70.19	-1,736.7	6,748.5	2,098.7	1,768.9	329,83	6,363		
16,800.0	10,131.8	16,589.1	9,417.7	176.0	176.2	70.13	-1,735.8	6,848.5	2,099.3	1,765.0	334.27	6.280		
16,900.0	10,136.5	16,689.1	9,420.3	178.4	178.6	70.08	-1,734.9	6,948.4	2,099.8	1,761.1	338.71	6.199		
17,000.0	10,141.2	16,789.1	9,422.8	180.8	181.0	70.02	-1,734.1	7,048.3	2,100.3	1,757.2	343.15	6.121		
17,100.0	10,145.9	16,889.1	9,425.3	183.2	183.4	69.96	-1,733.2	7,148.3	2,100.8	1,753.2	347.59	6.044		
17,200.0	10,150.7	16,989.0	9,427.9	185.6	185.8	69.90	-1,732.3	7,248.2	2,101.4	1,749.3	352.03	5.969		
17,218.0	10,151.5	17,007.0	9,428.3	186.1	186.2	69.89	-1,732.2	7,266.2	2,101.5	1,748.6	352.83	5.956		
17,218.7	10,151.5	17,007.7	9,428.4	186.1	186.2	69.89	-1,732.2	7,266.9	2,101.5	1,748.6	352.86	5.956		

Database:

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

North Reference:
Survey Calculation Method:

Output errors are at

Offset TVD Reference:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

2.00 sigma EDM 5000.14 Server

	gram: 0-M													0.0 u
	rence	Offse		Semi Major					Dista					
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	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		0.0	0.0	0.0	179.85	-80.2		80.2	()	()			
100.0	100.0	0.0 100.0	100.0	0.0	0.0	179.65	-79.6	0.2 0.8	79.6	79.4	0.27	299.472		
200.0	200.0	200.9	200.9	0.5	0.5	178.01	-77.7	2.7	77.8	76.8	0.99	78.642		
300.0	300.0	301.7	301.6	0.8	0.9	175.54	74.6	5.8	74.9	73.2	1.72	43,646		
400.0	400.0	401.6	401.3	1.2	1.2	172.36	-70.9	9.5	71.6	69.2	2.43	29.434		
500.0	500.0	501.4	501.0	1.6	1.6	168.88	-67.2	13.2	68.5	65.4	3.15	21.740		
600.0	600.0	601.3	600.7	1.9	2.0	165.10	-63.5	16.9	65.8	61.9	3.87	16.971		
700.0	700.0	701.1	700.5	2.3	2.3	161.00	-59.8	20.6	63.3	58.7	4.60	13.764		
800.0	0.008	801.0	800.2	2.6	2.7	156.59	-56.1	24.3	61.2	55.9	5.32	11.493		
900.0	900.0	900.9	899.9	3.0	3.1	151.90	-52.4	28.0	59.4	53.4	6.05	9.829		
1,000.0	1,000.0	1,000.7	999.6	3.4	3.4	146.97	-48.7	31.7	58.1	51.4	6.77	8.583		
1,100.0	1,100.0	1,100.6	1,099.4	3.7	3.8	141.85	-45.0	35.4	57.3	49.8	7.50	7.639		
1,200.0	1,200.0	1,200.5	1,199.1	4.1	4.2	136.61	-41.3	39.1	56.9	48.7	8.22	6.919		
1,230.7	1,230.7	1,231.1	1,229.7	4.2	4.3	135.00	-40.2	40.2	56.9	48.4	8.45	6.734		
1,300.0	1,300.0	1,300.3	1,298.8	4.4	4.5	131.35	-37.7	42.8	57.0	48.0	8.95	6.370		
1,400.0	1,400.0	1,401.7	1,400.0	4.8	4.9	126.24	-33.2	45.3	56.2	46.6	9.67	5.815		
1,500.0	1,500.0	1,503.0	1,501.2	5.1	5.3	121.11	-27.5	45.6	53.3	42.9	10.38	5.131		
1,600.0	1,600.0	1,604.1	1,602.0	5.5	5.6	178.21	-20.5	43.5	49.0	37.9	11.08	4.423		
1,700.0	1,700.0	1,705.1	1,702.5	5.9	6.0	171.04	-12.2	39.0	44.5	32.7	11.77	3.779		
1,800.0	1,799.9	1,805.0	1,801.9	6.2	6.3	162.34	-3.0	33.0	40.7	28.2	12.47	3.260		
1,897.2	1,896.9	1,902.1	1,898.3	6.5	6.7	153.52	5.9	27.1	39.4	26.3	13.17	2.995 CC		
1,900.0	1,899.7	1,904.8	1,901.1	6.6	6.7	153.28	6.2	26.9	39.4	26.3	13.19	2.991 ES		
2,000.0	1,999.4	2,004.7	2,000.3	6.9	7.0	145.32	15.3	20.9	40.7	26.8	13.91	2.925 SF		
2,100.0	2,098.9	2,104.5	2,099.6	7.3	7.4	139.46	24.5	14.8	44.0	29.3	14.64	3.004		
2,200.0	2,198.3	2,204.4	2,198.8	7.6	7.8	135.91	33.7	8.7	48.9	33.5	15.37	3,180		
2,300.0	2,297.4	2,304.2	2,298.0	8.0	8.1	134.32	42.9	2.6	55.1	39.0	16.11	3,423		
2,400.0	2,396.4	2,403.9	2,397.1	8.4	8.5	133.68	52.0	-3.5	62.0	45.2	16.85	3.682		
2,500.0	2,495.5	2,503.7	2,496.3	8.8	8.9	133.00	61.2	-3.5 -9.5	68.9	51.3	17.60	3.918		
2,600.0	2,493.5	2,603.4	2,490.3	9.2	9.3	132.75	70.4	-5.5 -15.6	75.9	57.5	18.35	4.134		
2,700.0	2,693.5	2,703.2	2,694.6	9.5	9.7	132.73	79.5	-21.7	82.8	63.7	19.11	4.134		
2,800.0	2,792.5	2,803.0	2,793.7	9.9	10.0	132.40	79.5 88.7	-21.7	89.7	69.8	19.11	4.532		
2,000.0	2,732.5	2,000.0	2,730.7	3.3	10.0	132.11	00.7	-27.0	00.7	00.0	13.00	4.010		
2,900.0	2,891.6	2,902.7	2,892.9	10.3	10.4	131.86	97.9	-33.9	96.6	76.0	20.62	4.684		
3,000.0	2,990.6	3,002.5	2,992.0	10.7	10.8	131.64	107.0	-39.9	103.5	82.1	21.39	4.840		
3,100.0	3,089.6	3,102.2	3,091.2	11,1	11,2	131.45	116.2	-46.0	110.4	88.3	22,15	4.985		
3,200.0	3,188.6	3,202.0	3,190.4	11.5	11.6	131.28	125.4	-52.1	117.3	94.4	22.92	5.120		
3,300.0	3,287.7	3,301.8	3,289.5	11.9	12.0	131.13	134.5	-58.2	124.3	100.6	23.69	5.246		
0 400 -	0.000 =	0.404.5	2 222 =	10 -	10.0	400.00		04.6	101 -	100 -	04.45	F 004		
3,400.0	3,386.7	3,401.5	3,388.7	12.3	12.3	130.99	143.7	-64.3	131.2	106.7	24.46	5.364		
3,500.0	3,485.7	3,501.3	3,487.8	12.7	12.7	130.87	152.9	-70.3	138.1	112.9	25.23	5.474		
3,600.0	3,584.8	3,601.0	3,587.0	13.1	13.1	130.76	162.1	-76.4	145.0	119.0	26.00	5.577		
3,700.0	3,683.8	3,700.8	3,686.1	13.5	13.5	130.66	171.2	-82.5	152.0	125.2	26.78	5.674		
3,800.0	3,782.8	3,800.5	3,785.3	13.9	13.9	130,57	180.4	-88.6	158.9	131.3	27.56	5,766		
3,900.0	3,881.8	3,900.3	3,884.4	14.4	14.3	130.49	189.6	-94.6	165.8	137.5	28.33	5.852		
4,000.0	3,980.9	4,000.1	3,983.6	14.8	14.7	130,41	198.7	-100.7	172.7	143,6	29.11	5,934		
4,100.0	4,079.9	4,100.2	4,082.7	15.2	15.1	130.34	207.9	-106.8	179.7	149.8	29.89	6.010		
4,200.0	4,178.9	4,200.4	4,181.9	15.6	15.5	130.28	217.1	-112.9	186.6	155.9	30.67	6.083		
4,300.0		4,300.7	4,281.0	16.0	15.8	130.22	226.2	-119.0	193.5	162.0	31.45	6.152		
4 400 0	4 277 0	4 400 0	4 200 0	16.4	46.0	130.16	225.4	105.0	200.4	160 0	20.04	6 247		
4,400.0	4,377.0	4,400.9	4,380.2	16.4	16.2	130.16	235.4	-125.0 121.1	200.4	168.2	32.24	6.217		
4,500.0	4,476.0	4,501.1	4,479.3	16.8	16.6	130.11	244.6	-131.1	207.4	174.3	33.02	6.280		
4,600.0	4,575.0	4,601.4	4,578.5	17.2	17.0	130.06	253.7	-137.2	214.3	180.5	33.80	6.339		
4,698.1	4,672.2	4,703.5	4,675.7	17.6	17.4	130.01	262.7	-143.2	221.1	186.5	34.59	6.391		
4,700.0	4,674.0	4,701.6	4,677.6	17.6	17.4	130.01	262.9	-143.3	221.2	186.6	34.59	6.395		
4,800.0	4,773.3	4,801.8	4,776.8	18.0	17.8	129.78	272.1	-149.3	227.3	191.9	35.37	6.425		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

 eference:
 KB @ 3113.5usft

 ference:
 KB @ 3113.5usft

Well Barry Miller State Com #221H

e: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.14 Server

Offset De	_		iller - Bar	ry Miller Sta	ite Com #	201H - Well	bore #1 - Stat	e 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 (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,900.0	4,872.7	4,902.0	4,876.1	18.4	18.2	129.04	281.3	-155.4	231.7	195.5	36.16	6.407		
5,000.0	4,972.5	5,002.1	4,975.3	18.8	18.6	127.81	290.4	-161.5	234.5	197.6	36.94	6.348		
5,100.0	5,072.4	5,097.6	5,074.4	19.2	19.0	126.09	299.6	-167.6	235.9	198.2	37.71	6.256		
5,200.0	5,172.3	5,202.8	5,173.4	19.5	19.4	123,86	308.7	-173.7	236.1	197.5	38.51	6.130		
5,231.4	5,203.8	5,228.4	5,204.4	19.6	19.5	60.09	311.6	-175.6	235.9	197.1	38.73	6.090		
5,300.0	5,272.3	5,303.4	5,272.2	19.8	19.8	58.27	317.9	-179.7	235.5	196.2	39.28	5.995		
5,367.8	5,340.2	5,364.0	5,339.2	20.1	20.0	56.46	324.1	-183.8	235.4	195.6	39.78	5.918		
5,400.0	5,372.3	5,404.0	5,370.9	20.2	20.2	55.60	327.0	-185.8	235.4	195.4	40.05	5.878		
5,500.0 5,600.0	5,472.3 5,572.3	5,504.6 5,605.3	5,469.7 5,568.5	20.5 20.8	20.6 21.0	52.94 50.29	336.2 345.3	-191.8 -197.9	235.9 236.8	195.0 195.2	40.81 41.57	5.779 5.696		
5,700.0	5,572.3	5,705.9	5,5667.3	20.6	21.4	47.67	345.3 354.4	-197.9 -203.9	238.2	195.2	42.32	5.630		
5,800.0	5,772.3	5,806.5	5,766.1	21.5	21.8	45.08	363.6	-210.0	240.2	197.1	43.06	5,578		
5,900.0	5,872.3	5,907.1	5,864.9	21.8	22.2	42.54	372.7	-216.0 -216.0	242.6	198.8	43.79	5.540		
6,000.0	5,972.3	6,007.7	5,963.6	22.2	22.6	40.06	381.8	-222.1	245.5	201.0	44.52	5.515		
6,100.0	6,072.3	6,108.3	6,062.4	22.5	22.9	37.64	391.0	-228.2	248.9	203.6	45.24	5.501		
6,200.0	6,172.3	6,191.1	6,161.2	22.9	23.3	35.28	400.1	-234.2	252.7	206.8	45.88	5.506		
6,300.0	6,272.3	6,309.5	6,260.0	23.2	23.7	33.00	409.2	-240.3	256.9	210.2	46.66	5.505		
6,400.0	6,372.3	6,389.9	6,358.8	23.5	24.1	30.79	418.4	-246.3	261.5	214.2	47.28	5.530		
6,500.0	6,472.3	6,489.3	6,457.6	23.9	24.5	28.66	427.5	-252.4	266.5	218.5	47.98	5.554		
6,600.0	6,572.3	6,588.6	6,556.4	24.2	24.8	26.62	436.6	-258.4	271.8	223.1	48.67	5.585		
6,700.0	6,672.3	6,688.0	6,655.1	24.6	25.2	24.65	445.8	-264.5	277.5	228.1	49.36	5.622		
6,800.0	6,772.3	6,787.4	6,753.9	24.9	25.6	22.76	454.9	- 270.5	283.5	233.4	50.04	5.665		
6,900.0	6,872.3	6,886.8	6,852.7	25.2	26.0	20.96	464.0	-276.6	289.8	239.0	50.72	5.712		
7,000.0	6,972.3	6,986.2	6,951.5	25.6	26.4	19.23	473.2	-282.7	296.3	244.9	51.40	5.764		
7,100.0	7,072.3	7,085.6	7,050.3	25.9	26.8	17.57	482.3	-288.7	303.1	251.1	52.08	5.820		
7,200.0	7,172.3	7,185.0	7,149.1	26.3	27.2	15.99	491.4	-294.8	310.2	257.4	52.76	5.879		
7,300.0	7,272.3	7,284.4	7,247.8	26.6	27.6	14.48	500.6	-300.8	317.5	264.1	53.44	5.941		
7,400.0	7,372.3	7,383.8	7,346.6	27.0	28.0	13.04	509.7	-306.9	325.0	270.9	54.12	6.005		
7,500.0	7,472.3	7,483.2	7,445.4	27.3	28.4	11.67	518.8	-312.9	332.7	277.9	54.80	6.071		
7,600.0	7,572.3	7,582.5	7,544.2	27.7	28.8	10.36	528.0	-319.0	340.6	285.1	55.48	6.138		
7,700.0	7,672.3	7,681.9	7,643.0	28.0	29.2	9.10	537.1	-325.1	348.6	292.5	56.16	6.207		
7,800.0	7,772.3	7,781.3	7,741.8	28.3	29.6	7.91	546.2	-331.1	356.8	300.0	56.85	6.277		
7,900.0	7,872.3	7,880.7	7,840.5	28.7	29.9	6.76	555.4	-337.2	365.2	307.7	57.53	6.348		
8,000.0	7,972.3	7,980.1	7,939.3	29.0	30.3	5.67	564.5	-343.2	373.7	315.5	58.21	6.420		
8,100.0	8,072.3	8,079.5	8,038.1	29.4	30.7	4.63	573.7	-349.3	382.3	323.4	58.90	6.491		
8,200.0	8,172.3	8,178.9	8,136.9	29.7	31.1	3.63	582.8	-355.3	391.1	331.5	59.58	6.564		
8,300.0	8,272.3	8,278.3	8,235.7	30.1	31.5	2.68	591.9	-361.4	399.9	339.7	60.27	6.636		
8,400.0	8,372.3	8,378.1	8,334.9	30.4	31.9	1.77	601.1	-367.5	408.9	347.9	60.96	6.707		
8,500.0	8,472.3	8,487.4	8,443.7	30.8	32.3	0.94	609.7	-373.2	416.7	355.0	61.72	6.751		
8,600.0	8,572.3	8,597.1	8,553.2	31.1	32.7	0.38	615.8	-377.2	422.2	359.7	62.45	6.759		
8,700.0	8,672.3	8,707.2	8,663.2	31.5	33.1	0.07	619.2	- 379 <u>.</u> 5	425.3	362.1	63,16	6.734		
8,800.0	8,772.3	8,815.9	8,771.8	31.8	33.5	0.05	620.0	- 379.6	426.0	362.2	63,83	6.674		
8,900.0	8,872.3	8,916.5	8,871.6	32.2	33.8	1.73	619.6	-367.2	425.8	361.3	64.54	6.597		
8,905.8	8,878.1	8,922.2	8,877.1	32.2	33.8	1.89	619.6	-366.0	425.8	361.2	64.59	6.593		
9,000.0	8,972.3	9,010.2	8,961.1 9,035.9	32.5	34.0	5.37 10.15	618.7 617.5	-340.1 304.2	426.7 431.7	361.4 365.7	65.32 65.08	6.533		
9,100.0	9,072.3	9,093.2		32.9	34.1	10.15	617.5	-304.2	431.7	365.7	65.98	6.543		
9,200.0	9,172.3	9,164.5	9,095.4	33.2	34.2	15.23	616.2	-265.0	444.2	378.0	66.14	6.716		
9,272.2	9,244.5	9,208.9	9,129.8	33.5	34.3	18.75	615.3	-237.0	459.2	393.5	65.73	6.987		
9,300.0	9,272.3	9,224.9	9,141.7 9,162.0	33.6 33.7	34.3 34.3	-69.09 -65.66	615.0 614.3	-226.3 -206.3	466.3 479.9	400.9	65.43	7.127		
9,350.0 9,400.0	9,322.1 9,371.3	9,253.4 9,281.7	9,162.0	33.7	34.3	-62.40	614.3 613.6	-206.3 -185.6	479.9 494.2	415.2 430.3	64.74 63.88	7.412 7.737		
9,450.0	9,419.5	9,309.7	9,199.2	34.0	34.3	-59.34	612.9	-164.1	509.0	446.1	62.88	8.094		
J,450.0	۵,419.5	7.800.7	۵,155.∠	34.0	٥4.٥	-38.34	012.9	-104.1	0.800	440.1	02.00	0.054		

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

TVD Reference: MD Reference: North Reference:

KB @ 3113.5usft KB @ 3113.5usft

Well Barry Miller State Com #221H

Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma EDM 5000.14 Server Database:

Offset De	_		iller - Bar	ry Miller Sta	ite Com #	201H - Well	bore #1 - Stat	e Plan #1					Offset Site Error:	0.0 usft
Survey Progr Refere		WD Offse	et	Semi Major	Axis				Dista	ince			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)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,500.0	9,466.4	9,337.6	9,216.0	34.1	34.3	-56.50	612.2	-141.9	523.8	462.0	61.78	8.478		
9,550.0	9,511.6	9,365.2	9,231.6	34.2	34.4	-53.90	611.4	-119.1	538.4	477.7	60.61	8.882		
9,600.0	9,554.7	9,392.8	9,246.1	34.4	34.4	-51.54	610.7	-95.7	552.5	493.1	59.41	9.300		
9,650.0	9,595.5	9,420.2	9,259.3	34.5	34.4	-49.42	609.9	-71.7	566.0	507.8	58.21	9.724		
9,700.0	9,633.7	9,450.0	9,272.4	34.6	34.4	-47.45	609.0	-44.9	578.8	521.6	57.11	10.133		
9,750.0	9,668.8	9,474.7	9,282.1	34.7	34.4	-45.86	608.2	-22.2	590.5	534.6	55.91	10.561		
9,800.0	9,700.8	9,500.0	9,291.1	34.8	34.4	-44.45	607.5	1.4	601.1	546.3	54.82	10.965		
9,850.0	9,729.2	9,528.9	9,300.0	35.0	34.4	-43.16 43.20	606.5	28.9	610.6	556.6	53.95	11.317		
9,900.0 9,950.0	9,754.0 9,774.9	9,550.0 9,582.9	9,305.7 9,313.0	35.1 35.3	34.4 34.5	-42.20 -41.23	605.9 604.8	49.2 81.2	618.7 625.5	565.7 572.9	53.02 52.51	11.670 11.910		
10,000.0	9,774.9	9,609.8	9,317.6	35.5	34.6	-41.23 -40.54	603.9	107.8	630.8	578.7	52.04	12.120		
												12,259		
10,050.0 10,100.0	9,804.5 9,812.9	9,636.7 9,663.6	9,321.0 9,323.1	35.8 36.0	34.7 34.9	-40.01 -39.65	603.1 602.2	134.4 161.2	634.6 637.0	582.9 585.3	51.77 51.70	12.259		
10,100.0	9,815.5	9,677.3	9,323.7	36.2	35.0	-39.53	601.7	174.9	637.6	585.8	51.74	12.320		
10,200.0	9,820.7	9,751.7	9,326.0	36.7	35.5	-39.17	599.3	249.2	638.0	585.8	52.22	12.216		
10,225.5	9,822.0	9,777.1	9,326.8	36.9	35.7	-39.07	598.5	274.6	637.8	585.3	52.42	12.167		
10,300.0	9,825.5	9,851.2	9,329.2	37.5	36.4	-38.81	596.1	348.7	636.9	583.8	53.08	11.998		
10,400.0	9,830.2	9,950.8	9,332.3	38.4	37.4	-38.46	593.1	448.1	635.8	581.7	54.12	11.748		
10,500.0	9,834.9	10,050.3	9,335.4	39.4	38.5	-38.12	590.1	547.5	634.8	579.5	55.30	11,478		
10,600.0	9,839.7	10,149.8	9,338.6	40.6	39.7	-37.78	587.2	647.0	633.8	577.2	56.63	11.193		
10,700.0	9,844.4	10,249.4	9,341.7	41.9	41.0	-37.45	584.4	746.4	633.0	574.9	58.08	10.899		
10,800.0	9,849.1	10,348.9	9,344.8	43.3	42.5	-37.12	581.7	845.9	632.2	572.6	59.63	10.601		
10,900.0	9,853.8	10,448.5	9,347.9	44.7	44.0	-36.80	579.1	945.3	631.5	570.2	61.29	10.304		
11,000.0	9,858.5	10,548.0	9,351.0	46.3	45.6	-36.49	576.6	1,044.8	630.9	567.9	63.03	10.010		
11,100.0	9,863.2	10,647.6	9,354.1	47.9	47.2	-36.18	574.2	1,144.3	630.4	565.5	64.84	9.722		
11,200.0	9,867.9	10,747.1	9,357.2	49.6	49.0	-35.88	571.9	1,243.8	629.9	563.2	66.72	9,442		
11,300.0	9,872.6	10,846.7	9,360.3	51.4	50.8	-35.58	569.7	1,343.3	629.5	560.9	68.65	9.170		
11,400.0	9,877.3	10,946.3	9,363.4	53.2	52.6	-35.30	567.6	1,442.8	629.2	558.6	70.63	8.908		
11,500.0	9,882.1	11,045.9	9,366.5	55.1	54.5	-35.01	565.5	1,542.3	629.0	556.3	72.66	8.657		
11,600.0	9,886.8	11,145.5	9,369.6	57.0	56.4	-34.74	563.6	1,641.9	628.8	554.1	74.72	8.416		
11,700.0	9,891.5	11,245.1	9,372.7	58.9	58.4	-34.47	561.8	1,741.4	628.8	552.0	76.81	8.186		
11,767.8	9,894.7	11,312.6	9,374.8	60.3	59.8	-34.29	560.6	1,808.9	628.7	550.5	78.25	8.035		
11,800.0	9,896.2	11,344.7	9,375.8	60.9	60.4	-34.21	560.0	1,840.9	628.8	549.8	78.93	7.965		
11,900.0	9,900.9	11,444.3	9,378.8	63.0	62.5	-33.95	558.3	1,940.5	628.8	547.7	81.08	7.755		
12,000.0	9,905.6	11,543.9	9,381.9	65.0	64.5	-33.70	556.8	2,040.0	628.9	545.7	83.25	7.555		
12,100.0	9,910.3	11,643.5	9,385.0	67.1	66.6	-33.46	555.3	2,139.6	629.1	543.7	85.43	7.364		
12,200.0	9,915.0	11,743.1	9,388.0	69.2	68.7	-33.23	554.0	2,239.1	629.4	541.8	87.63	7.182		
12,300.0	9,919.8	11,842.7	9,391.1	71.3	70.9	-33.00	552.7	2,338.7	629.7	539.9	89.85	7.008		
12,400.0	9,924.5	11,942.4	9,394.2	73.5	73.0	-32.78	551.5	2,438.3	630.1	538.0	92.08	6.843		
12,500.0	9,929.2	12,042.0	9,397.2	75.6	75.2	-32.57	550.4	2,537.8	630.6	536.2	94.32	6.685		
12,600.0	9,933.9	12,141.6	9,400.3	77,8	77.4	-32,36	549.4	2,637.4	631,1	534.5	96.58	6,535		
12,700.0	9,938.6	12,241.2	9,403.3	80.0	79.6	-32.16	548.5	2,737.0	631.7	532.8	98.84	6.391		
12,800.0	9,943.3	12,340.9	9,406.3	82.2	81.8	-31.97	547.7	2,836.6	632,3	531.2	101.12	6,253		
12,900.0	9,948.0	12,440.5	9,409.4	84.4	84.0	-31.79	547.0	2,936.2	633.0	529.6	103.40	6.122		
13,000.0	9,952.7	12,540.2	9,412.4	86.7	86.3	-31.61	546.4	3,035.8	633.8	528.1	105.70	5.996		
13,100.0	9,957.5	12,639.8	9,415.4	88.9	88.5	-31.45	545.9	3,135.4	634.6	526.6	108.00	5.876		
13,200.0	9,962.2	12,739.4	9,418.5	91.2	90.8	-31.28	545.4	3,234.9	635.5	525.2	110.32	5.760		
13,300.0	9,966.9	12,839.1	9,421.5	93.4	93.1	-31.13	545.1	3,334.5	636.4	523.8	112.64	5,650		
13,400.0	9,971.6	12,938.7	9,424.5	95.7	95.4	-30.99	544.9	3,434.1	637.4	522.4	114.98	5.544		
13,500.0 13,600.0	9,976.3 9,981.0	13,038.4 13,138.0	9,427.5 9,430.5	98.0 100.3	97.6 99.9	-30.85 -30.72	544.7 544.7	3,533.8 3,633.4	638.5 639.6	521.1 519.9	117.33 119.69	5.442 5.344		
13,700.0	9,985.7	13,237.7	9,433.5	102.6	102.2	-30.60	544.7	3,733.0	640.7	518.7	122.06	5.249		

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

TVD Reference: MD Reference: North Reference:

KB @ 3113.5usft Grid

KB @ 3113.5usft

Well Barry Miller State Com #221H

Minimum Curvature

Survey Calculation Method:

Output errors are at 2.00 sigma EDM 5000.14 Server

Database: Offset TVD Reference: Offset Datum

Offset Des	sign	Barry M	iller - Bar	ry Miller Sta	te Com#	201H - Wel	lbore #1 - State	e Plan #1					Offset Site Error:	0.0 usft
Survey Progr Refere		ND Offse		Court Maio	A ! -				Dista				Offset Well Error:	0.0 usft
Measured	ence 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	vicining	
13,800.0	9,990.4	13,337.3	9,436.5	104.9	104.5	-30.48	544.9	3,832.6	641.9	517.5	124.44	5.158		
13,900.0	9,995.2	13,437.0	9,439.5	107.2	106.9	-30.37	545.1	3,932.2	643.2	516.4	126.84	5.071		
14,000.0	9,999.9	13,536.6	9,442.5	109.5	109.2	-30.27	545.4	4,031.8	644.5	515.3	129.25	4.987		
14,100.0	10,004.6	13,636.3	9,445.5	111.9	111.5	-30.18	545.9	4,131.4	645.9	514.2	131.68	4.905		
14,200.0	10,009.3	13,735.9	9,448.4	114.2	113.8	-30.09	546.4	4,231.0	647.3	513.2	134.12	4.826		
14,300.0	10,014.0	13,835.6	9,451.4	116.5	116.2	-30.02	547.0	4,330.6	648.8	512.2	136.58	4.750		
14,400.0	10,018.7	13,935.5	9,454.4	118.9	118.5	-29.94	547.7	4,430.5	650.3	511.3	139.06	4.677		
14,500.0	10,023.4	14,035.5	9,457.4	121.2	120.9	-29.87	548.4	4,530.4	651.9	510.3	141.53	4,606		
14,600.0	10,028.1	14,135.5	9,460.4	123.6	123.2	-29.80	549.0	4,630.3	653.4	509.4	144.00	4.538		
14,700.0	10,032.8	14,235.5	9,463.3	125.9	125.6	-29.73	549.7	4,730.3	654.9	508.5	146.46	4.472		
14,800.0	10,037.6	14,335.4	9,466.3	128.3	127.9	-29.66	550.4	4,830.2	656.4	507.5	148.93	4.408		
14,900.0	10,042,3	14,435.4	9,469.3	130.7	130,3	-29.58	551,1	4,930,2	658.0	506.6	151,39	4,346		
15,000.0	10,047.0	14,535.4	9,472.3	133.0	132.7	-29.51	551.8	5,030.1	659.5	505.7	153.85	4.287		
15,100.0	10,051.7	14,635.4	9,475.3	135.4	135.1	-29.44	552.5	5,130.0	661.0	504.7	156.30	4.229		
15,200.0	10,056.4	14,735.4	9,478.3	137.8	137.4	-29.37	553.2	5,230.0	662.6	503.8	158.75	4.173		
15,300.0	10,061.1	14,835.4	9,481.2	140.1	139.8	-29.30	553.8	5,329.9	664.1	502.9	161.20	4.120		
15,400.0	10,065.8	14,935.4	9,484.2	142.5	142.2	-29.23	554.5	5,429.8	665.6	502.0	163.65	4.067		
15,500.0	10,070.5	15,035.3	9,487.2	144.9	144.6	-29.17	555.2	5,529.8	667.2	501.1	166.09	4.017		
15,600.0	10,075.3	15,135.3	9,490.2	147.3	147.0	-29.10	555.9	5,629.7	668.7	500.2	168.52	3,968		
15,700.0	10,080.0	15,235.3	9,493.2	149.7	149.3	-29.03	556.6	5,729.7	670.2	499.3	170.96	3.920		
15,800.0	10,084.7	15,335.3	9,496.2	152.0	151.7	-28.96	557.3	5,829.6	671.8	498.4	173.39	3.874		
15,900.0	10,089.4	15,435.3	9,499.1	154.4	154.1	-28.89	557.9	5,929.5	673.3	497.5	175.81	3.830		
16,000.0	10,094.1	15,535.3	9,502.1	156.8	156.5	-28.82	558.6	6,029.5	674.8	496.6	178.23	3.786		
16,100.0	10,098.8	15,635.3	9,505.1	159.2	158.9	-28.76	559.3	6,129.4	676.4	495.7	180.65	3.744		
16,200.0	10,103.5	15,735.2	9,508.1	161.6	161.3	-28.69	560.0	6,229.4	677.9	494.8	183.06	3.703		
16,300.0	10,108.2	15,835.2	9,511.1	164.0	163.7	- 28 <u>.</u> 62	560.7	6,329.3	679.5	494.0	185.47	3,663		
16,400.0	10,113,0	15,935.2	9,514.1	166.4	166.1	-28.56	561.4	6,429.2	681.0	493.1	187.87	3,625		
16,500.0	10,117.7	16,035.2	9,517.0	168.8	168.5	-28.49	562.1	6,529.2	682.5	492.3	190.27	3.587		
16,600.0	10,122.4	16,135.2	9,520.0	171.2	170.9	-28.43	562.7	6,629.1	684.1	491.4	192.67	3.551		
16,700.0	10,127.1	16,235.2	9,523.0	173.6	173.3	-28.36	563.4	6,729.0	685.6	490.6	195.06	3.515		
16,800.0	10,131.8	16,335.1	9,526.0	176.0	175.7	-28.30	564.1	6,829.0	687.2	489.7	197.45	3.480		
16,900.0	10,136.5	16,435.1	9,529.0	178.4	178.1	-28.23	564.8	6,928.9	688.7	488.9	199.83	3.447		
17,000.0	10,130.3	16,535.1	9,532.0	180.8	180.5	-28.17	565.5	7,028.9	690.3	488.1	202.20	3.414		
17,000.0	10,141.2	16,635.1	9,534.9	183.2	182.9	-28.17 -28.10	566.2	7,028.8	691.8	487.2	202.20	3.382		
17,100.0	10,143.9	16,735.1	9,537.9	185.6	185.3	-28.04	566.9	7,128.7	693.4	486.4	206.94	3.350		
17,200.0	10,150.7	16,737.8	9,538.0	186.1	185.4	-28.04	566.9	7,220.7	693.8	486.6	200.94	3.348		
17,218.7	10,151.5	16,737.8	9,538.0	186.1	185.4	-28.04	566.9	7,231.5	693.8	486.6	207.22	3.348		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Local Co-ordinate Reference:

TVD Reference: KB @ 3113.5usft
MD Reference: KB @ 3113.5usft
North Reference: Grid

iorth Reference:

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

Well Barry Miller State Com #221H

Database: EDM 5000.14 Server

Offset Des	_		iller - Bar	rry Miller Sta	ate Com #	202H - Well	lbore #1 - Stat	e Plan #1					Offset Site Error:	0.0 usft
Survey Progr Refere		Offse	et	Semi Major	Axis				Dista	ance			Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertica l Depth (usft)	Measured Depth (usft)	Vertica l Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	Offset Wellbor +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	159.37	-80.2	30.2	85.7					
100.0	100.0	98.5	98.5	0.1	0.1	158.84	-80.2	31.1	86.0	85.8	0.26	334.614		
200.0	200.0	197.9	197.8	0.5	0.5	157.26	-80.2	33.6	87.0	86.0	0.97	89.581		
300.0	300.0	302.9	297.0	0.8	0.9	154.71	-80.2	37.9	88.8	87.0	1.71	51.817		
400.0	400.0	403.0	396.7	1.2	1.2	151.73	-80.2	43.1	91.1	88.7	2.44	37.420		
500.0	500.0	503.1	496.5	1.6	1.6	148.92	-80.2	48.4	93.7	90.6	3.16	29.682		
600.0	600.0	603.3	596.2	1.9	2.0	146.26	-80.2	53.6	96.5	92.6	3.88	24.883		
700.0	700.0	703.4	695.9	2.3	2.3	143.75	-80.2	58.8	99.5	94.9	4.60	21.634		
800.0	0.008	803.5	795.6	2.6	2.7	141.40	-80.2	64.0	102.7	97.4	5.32	19.302		
900.0	900.0	896.3	895.4	3.0	3.0	139.19	-80.2	69.3	106.1	100.0	6.02	17.632		
1,000.0	1,000.0	996.2	995.1	3.4	3.4	137.12	-80.2	74.5	109.6	102.8	6.73	16.269		
1,100.0	1,100.0	1,096.6	1,095.4	3.7	3.8	135.99	-81.2	78.4	112.9	105.5	7.45	15,160		
1,200.0	1,200.0	1,197.1	1,195.9	4.1	4.1	136.64	-84.2	79.5	115.9	107.7	8.15	14.212		
1,300.0	1,300.0	1,297.4	1,296.0	4.4	4.5	138.95	-89.3	77.8	118.4	109.6	8.84	13.391		
1,400.0	1,400.0	1,397.3	1,395.6	4.8	4.8	142.79	-96.4	73.2	121.0	111.5	9.53	12.700		
1,500.0	1,500.0	1,503.2	1,494.5	5.1	5.1	147.38	-104.6	66.9	124.3	114.0	10.24	12.135		
1,600.0	1,600.0	1,603.8	1,593.4	5.5	5.5	-145.51	-112.9	60.7	129.0	118.1	10.94	11.797		
1,700.0	1,700.0	1,704.3	1,692.3	5.9	5.8	-142.10	-121.1	54.5	135.7	124.1	11.63	11.669		
1,800.0	1,799.9	1,804.9	1,791.2	6.2	6.2	-139.45	-129.4	48.2	144.2	131.8	12.33	11,692		
1,900.0	1,899.7	1,905.5	1,890.1	6.6	6.5	-137.52	-137.6	42.0	154.2	141.1	13.04	11.827		
2,000.0	1,999.4	2,006.2	1,988.8	6.9	6.9	-136.23	-145.9	35.7	165.6	151.8	13.75	12.044		
2,100.0	2,098.9	2,107.0	2,087.5	7.3	7.3	-135.49	-154.1	29.5	178.2	163.8	14.46	12.324		
2,200.0	2,198.3	2,208.0	2,186.0	7.6	7.6	-135.19	-162.4	23.3	192.2	177.0	15.19	12.654		
2,300.0	2,297.4	2,309.1	2,284.3	8.0	8.0	-135.25	-170.6	17.1	207.3	191.4	15.92	13.025		
2,400.0	2,396.4	2,389.6	2,382.5	8.4	8.3	-135.56	-178.8	10.9	223.1	206.5	16.58	13.459		
2,500.0	2,495.5	2,488.3	2,480.7	8.8	8.7	-135.83	-187.0	4.7	238.9	221.6	17.31	13,803		
2,600.0	2,594.5	2,587.1	2,578.9	9.2	9.1	-136.06	-195.2	-1.5	254.7	236.6	18.04	14.116		
2,700.0	2,693.5	2,685.8	2,677.1	9.5	9.4	-136.27	-203.4	- 7.7	270.5	251.7	18.78	14.403		
2,800.0	2,792.5	2,784.6	2,775.3	9.9	9.8	-136.45	-211.6	-13.9	286.3	266.7	19.52	14.666		
2,900.0	2,891.6	2,883.3	2,873.5	10.3	10.2	-136.62	-219.8	-20.1	302.1	281.8	20.26	14.908		
3,000.0	2,990.6	2,982.0	2,971.7	10.7	10.6	-136.77	-228.0	-26.3	317.9	296.8	21.01	15.131		
3,100.0	3,089.6	3,080.8	3,069.9	11.1	11.0	-136.90	-236.2	-32.5	333.7	311.9	21.75	15.337		
3,200.0	3,188.6	3,179.5	3,168.1	11.5	11.3	-137.02	-244.4	-38.7	349.5	326.9	22.50	15.529		
3,300.0	3,287.7	3,278.3	3,266.3	11.9	11.7	-137,13	-252.6	-44.9	365.3	342.0	23,25	15,707		
3,400.0	3,386.7	3,377.0	3,364.5	12.3	12.1	-137.24	- 260.8	-51.1	381.1	357.1	24.01	15.873		
3,500.0	3,485.7	3,475.7	3,462.7	12.7	12.5	-137.33	-269.0	-57.3	396.9	372.1	24.76	16.028		
3,600.0	3,584.8	3,574.5	3,560.9	13.1	12.9	-137.42	-277.2	-63.5	412.7	387.2	25.52	16.173		
3,700.0	3,683.8	3,673.2	3,659.1	13.5	13.3	-137.50	-285.4	-69.7	428.5	402.2	26.27	16.309		
3,800.0	3,782.8	3,772.0	3,757.3	13.9	13.6	-137.57	-293.6	-75.9	444.3	417.3	27.03	16.436		
3,900.0	3,881.8	3,870.7	3,855.5	14.4	14.0	-137.64	-301.8	-82.1	460.1	432.3	27.79	16.557		
4,000.0	3,980.9	3,969.5	3,953.7	14.8	14.4	-137.71	-310.0	-88.3	475.9	447.3	28,55	16,670		
4,100.0	4,079.9	4,068.2	4,051.9	15.2	14.8	-137.77	-318.2	-94.5	491.7	462.4	29.31	16.777		
4,200.0	4,178.9	4,166.9	4,150.1	15.6	15.2	-137.83	-326.4	-100.7	507.5	477.4	30.07	16,878		
4,300.0	4,277.9	4,265.7	4,248.3	16.0	15.6	-137.88	-334.6	-106.8	523.3	492.5	30.83	16.974		
4,400.0	4,377.0	4,364.4	4,346.6	16.4	16.0	-137.93	-342.8	-113.0	539.1	507.5	31.59	17.065		
4,500.0	4,476.0	4,463.2	4,444.8	16.8	16.3	-137.98	-351.0	-119.2	554.9	522.6	32.36	17.151		
4,600.0	4,575.0	4,561.9	4,543.0	17.2	16.7	-138.02	-359.2	-125.4	570.8	537.6	33.12	17.233		
4,698.1	4,672.2	4,658.8	4,639.3	17.6	17.1	-138.06	-367.2	-131.5	586.3	552.4	33.87	17.309		
4,700.0	4,674.0	4,660.6	4,641.2	17.6	17.1	- 138.07	-367.4	-131.6	586.6	552.7	33.88	17.311		
4,800.0	4,773.3	4,759.5	4,739.5	18.0	17.5	-138.17	-375.6	-137.8	601.4	566.7	34.65	17.358		
4,900.0	4,872.7	4,858.7	4,838.1	18.4	17.9	-138.09	-383.8	-144.1	614.3	578.9	35.40	17.352		
5,000.0	4,972.5	4,958.0	4,936.9	18.8	18.3	-137.84	-392.1	-150.3	625.2	589.1	36.15	17.296		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Output errors are at

Database:

KB @ 3113.5usft KB @ 3113.5usft

Well Barry Miller State Com #221H

Grid

Survey Calculation Method: Minimum Curvature

2.00 sigma

EDM 5000.14 Server

No. Professional Profession	Offset De	sign	Barry M	iller - Bar	ry Miller Sta	te Com #	202H - Well	bore #1 - Stat	e Plan #1					Offset Site Error:	0.0 usft
	Survey Prog	ıram: 0-M												Offset Well Error:	0.0 usft
Paper Pape							Highaida	Officet Wallbox	o Contro			Minimum	Congretion		
5,002 5,00	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		Warning	
	5.100.0	5.072.4	5.057.4	5.035.8	19.2	18.7	-137.42			634.3	597.4	36.89	17.195		
Section Sect															
5,000 5,723 5,254 5,233 19,9 19,5 19,9 19,5 19,0 19,															
Section Sect															
5,000 0,4723 0,4813 0,4813 0,2814 20.8 20.8 162,77 4416 417.8 461.8 46															
5,700, 6,772,3 5,753,6 5,762,3 21,2 21,0 108,39 -440,9 -440,0 671,6 5,853,3 41,22 1,526															
Series S	5,600.0	5,572.3	5,554.7	5,530.4	20.8	20.6	163.17	-441.6	-187.8	665.4	624.8	40.50	16.428		
5,800,0 6,872,3 5,882,1 5,882,1 2,88 18,82,1 456,89 447,4 -202,5 698,8 641,69 42,56 10,041 6,100,0 6,072,3 6,082,0 6,025,0 22,5 22,6 166,02 -482,9 -219,0 697,4 683,3 44,09 15,816 6,000,0 6,723,3 6,135,0 6,022,0 22,0 23,0 167,27 -491,2 -222,2 714,1 683,3 44,09 15,816 6,000,0 6,737,3 6,304,0 23,2 23,4 167,7 -237,7 717,7 671,5 46,24 15,544 6,000,0 6,772,3 6,443,3 5,115,5 24,2 24,6 165,1 -160,6 -242,2 73,7 717,7 671,7 473,7 717,7 671,7 473,7 717,7 671,7 473,7 717,7 671,7 473,7 717,7 671,7 473,7 717,7 717,7 717,7 717,7 717,7 717,7 717,7 717,7	5,700.0	5,672.3	5,654.2	5,629.3	21.2	21.0	163.89	-449.9	-194.0	671.6	630.3	41.22	16.292		
Control Cont	5,800.0	5,772.3	5,753.6	5,728.2	21.5	21.4	164.59	-458.2	-200.2	677.9	635.9	41.94	16.163		
0,000 0,072.3 0,052.0 0,025.0 22,5 22,6 196,02 -482.9 -211.0 0,074 653.3 44.00 15,816 0,000 0,072.3 6,161.5 6,123.9 22.9 22.9 22.0 167.27 -491.2 -225.2 704.1 659.3 44.81 15,712 4.600 0,072.3 6,160.0 0,072	5,900.0	5,872.3	5,853.1	5,827.1	21.8	21.8	165.28	-466.4	-206.5	684.3	641.6	42.66	16.041		
6,200, 0, 17,23, 0, 151,5 6,123,9 22,9 23,0 167,27 491,2 -225,2 704,1 694,3 44,81 15,712	6,000.0	5,972.3	5,952.5	5,926.1	22.2	22.2	165.95	- 474.7	-212.7	690.8	647.4	43.38	15.925		
6.00.0 6.272.3 6.280.6 6.222.8 22.2 22.4 187.91 499.5 -221.5 77.09 68.5.3 45.5.3 15.014	6,100.0	6,072.3	6,052.0	6,025.0	22.5	22.6	166.62	-482.9	-219.0	697.4	653.3	44.09	15,816		
6.00.0 6.372.3 6.486 6.33.17 23.5 23.8 198.53 4.707. 237.7 77.7 67.15 48.24 15.200 6.00.0 6.572.3 6.648.7 0.519.5 24.2 24.6 199.15 -150.0 24.9.2 724.7 77.7 67.15 48.29 15.43.2 6.00.0 6.572.3 6.648.7 0.519.5 24.2 24.6 199.15 -250.2 750.2 751.7 88.4 1.47.68 15.348 6.00.0 6.572.3 6.648.7 0.519.5 24.2 24.6 190.75 -540.8 250.2 751.7 88.6 190.5 48.39 15.268 6.00.0 6.572.3 6.648.7 0.519.5 24.2 22.0 170.34 -532.5 256.4 738.8 990.5 48.11 15.192 6.00.0 6.572.3 6.648.7 0.519.5 22.2 25.7 171.40 -540.0 -266.0 753.3 703.5 48.2 15.100 6.00.0 6.572.3 5.648.7 0.519.5 22.2 25.7 171.40 -540.0 -266.0 753.3 703.5 48.2 15.100 7.00.0 7.072.3 7.046.6 7.014.1 28.9 26.5 172.50 -557.3 22.5 760.6 171.5 50.0 15.100 7.00.0 7.072.3 7.046.6 7.014.1 28.9 26.5 172.50 -568.5 -261.4 768.1 716.8 51.25 14.986 7.00.0 7.722.3 7.446.0 7.113.0 26.3 26.9 173.14 -573.8 -267.6 775.5 723.6 51.97 14.924 7.00.0 7.372.3 7.344.9 7.319.9 27.0 27.7 174.16 -590.3 -00.01 790.7 737.3 53.9 14.699 7.00.0 7.572.3 7.543.9 7.508.7 27.7 28.5 175.19 -606.8 -312.6 0.51.7 73.3 53.9 14.699 7.00.0 7.572.3 7.543.9 7.568.7 27.7 28.5 175.59 -606.8 -312.6 0.51.7 753.3 53.9 14.699 7.00.0 7.572.3 7.543.9 7.508.7 27.7 28.5 175.19 -606.8 -312.6 0.51.7 753.3 53.9 14.699 7.00.0 7.572.3 7.543.9 7.508.7 27.7 28.5 175.19 -606.8 -312.6 0.51.7 753.3 53.9 14.699 7.00.0 7.572.3 7.543.9 7.508.7 28.7 28.5 175.19 -606.8 -312.6 0.51.7 753.3 53.9 14.699 7.00.0 7.572.3 7.543.9 7.508.7 28.7 28.7 175.5 4 -586.6 -365.1 -316.9 0.51.7 753.3 53.9 14.699 7.00.0 7.572.3 7.543.9 7.708.5 28.7 28.7 175.5 48.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 1	6,200.0	6,172.3	6,151.5	6,123.9	22.9	23.0	167.27	-491.2	-225.2	704.1	659.3	44.81	15.712		
0.500.0 0.4723 0.446.0 0.420.0 23.9 24.2 160.15 -516.0 -243.9 724.7 677.7 48.96 15.432	6,300.0	6,272.3	6,250.9	6,222.8	23.2	23.4	167.91	-499.5	-231.5	710.9	665.3	45.53	15.614		
6,000.0 6,572.3 6,549.3 0,519.5 24.2 24.6 196.75 4.524.2 2.60 170.34 4.525.5 2.66.4 758.8 690.5 46.39 15.266 6,000.0 6,772.3 6,740.2 6,772.4 24.9 25.4 170.34 4.525.5 2.66.4 758.8 690.5 46.11 15.192 6,000.0 18.772.3 6,740.2 6,772.4 2.62 25.7 171.49 4.540.0 -266.9 753.3 703.5 48.92 15.100 15.192 6,000.0 18.772.3 6,047.7 6,816.3 25.2 25.7 171.49 4.540.0 -266.9 753.3 703.5 48.92 15.100 15.192 6,000.0 17.72.3 7.046.6 7,014.1 25.9 26.5 21.172.0 4.565.5 -261.4 768.1 716.8 51.25 14.996 15.100 7.72.3 7.046.6 7,014.1 25.9 26.5 172.00 4.565.5 -261.4 768.1 716.8 51.25 14.996 7.720.0 7.72.3 7.746.0 7,113.0 26.3 26.9 173.14 -573.8 -267.6 775.5 723.0 51.67 14.924 7.700.0 7.72.3 7.746.9 7.310.9 27.7 174.18 4.502.0 7.700.0 7.72.3 7.746.9 7.310.9 27.7 174.18 4.590.3 -500.1 70.7 75.5 73.3 53.9 14.699 7.700.0 7.72.3 7.446.9 7.310.9 27.0 27.7 174.18 4.590.3 -500.1 700.7 737.3 53.39 14.699 7.700.0 7.72.3 7.446.9 7.310.9 27.0 27.7 174.18 4.590.3 -500.1 700.7 737.3 53.39 14.699 7.700.0 7.72.3 7.449 7.700.5 26.2 25.3 175.6 4.566.8 -515.1 -516.9 813.9 78.4 55.53 14.556 7.700.0 7.72.3 7.742.9 7.700.0 7.700.2 7.72.3 7.742.9 7.700.2 7.700.2 7.700.0 7.70	6,400.0	6,372.3	6,350.4	6,321.7	23.5	23.8	168.53	-507.7	-237.7	717.7	671.5	46.24	15.520		
6,700, 6,672,3	6,500.0	6,472.3	6,449.8	6,420.6	23.9	24.2	169.15	-516.0	-243.9	724.7	677.7	46.96	15.432		
6,800,0 6,772,3 6,748,2 6,717,4 24,9 25,4 170,93 5-40,8 2-22,7 746,0 696,9 40,11 15,192 5-800,0 6,872,3 6,847,1 6,816,3 25,2 25,6 26,1 172,05 5-857,3 2-75,2 760,6 710,1 50,54 15,061 7,000,0 6,972,3 6,847,1 6,915,2 26,6 26,1 172,05 5-857,3 2-75,2 760,6 710,1 50,54 15,061 7,000,0 7,172,3 7,146,0 7,113,0 26,3 26,9 173,14 5-73,8 2-86,5 2-81,4 78,1 71,72,3 7,146,0 7,113,0 26,3 26,9 173,14 5-73,8 2-86,5 775,5 723,6 51,97 14,924 7,300,0 7,272,3 7,245,5 7,212,0 26,6 27,3 173,67 5-82,1 2-23,9 783,1 73,04 52,58 14,865 7,400,0 7,372,3 7,344,9 7,310,9 27,0 27,7 74,18 5-80,3 8-80,1 790,7 797,3 35,39 14,009 7,300,0 7,272,3 7,443,4 7,409,8 7,73,0 27,7 174,18 5-80,3 8-80,1 790,7 797,3 35,39 14,009 7,300,0 7,472,3 7,444,4 7,409,8 7,300,0 7,500,0 7,472,3 7,444,4 7,409,8 7,300,0 7,500,0 7,472,3 7,444,4 7,409,8 7,300,0 28,3 173,16 5-82,4 174,69 5-806,8 31,6 6,8 31,6 7,8 31,0 7,400,0 7,472,3 7,444,4 7,409,8 7,300,0 7,500,0 7,472,3 7,444,3 7,409,8 7,400,0 7,500,0 7,472,3 7,444,3 7,409,8 7,400,0 7,500,0 7,400,0 7,	6,600.0	6,572.3	6,549.3	6,519.5	24.2	24.6	169.75	-524.2	-250.2	731.7	684.1	47.68	15.348		
6800.0 6,872.3 6,847.7 6,816.3 25.2 25.7 17.149 5-46.0 2-88.9 753.3 703.5 48.2 15.720 7,000.0 6,972.3 6,947.1 6,915.2 25.6 28.1 172.05 -557.3 275.2 780.8 710.1 50.54 15.051 7,000.0 7,772.3 7,046.0 7,014.0 28.3 26.9 173.44 -573.8 -281.4 788.1 738.6 51.97 14,924 7,000.0 7,272.3 7,246.5 7,212.0 26.6 27.3 173.47 -582.1 -283.9 783.1 733.6 51.97 14,924 7,400.0 7,372.3 7,344.9 7,309.2 27.0 27.7 174.18 -590.3 -300.1 790.7 737.3 53.99 14,926 7,500.0 7,472.3 7,444.4 7,608.7 2.7 28.5 175.99 -508.6 -306.4 798.4 751.3 54.22 14.756 7,500.0 7,472.3 7,628.9 </td <td>6,700.0</td> <td>6,672.3</td> <td>6,648.7</td> <td>6,618.5</td> <td>24.6</td> <td>25.0</td> <td>170.34</td> <td>-532.5</td> <td>-256.4</td> <td>738.8</td> <td>690.5</td> <td>48.39</td> <td>15.268</td> <td></td> <td></td>	6,700.0	6,672.3	6,648.7	6,618.5	24.6	25.0	170.34	-532.5	-256.4	738.8	690.5	48.39	15.268		
7,000.0 6,972.3 6,947.1 6,915.2 25.6 28.1 172.05 -557.3 -275.2 760.6 710.1 50.54 15.051 7,000.0 7,072.3 7,460.0 7,114.0 25.9 28.5 172.00 4.757.6 771.5 73.00 1,422.4 7,200.0 7,272.3 7,465.5 7,212.0 26.5 27.3 173.67 -882.1 -287.6 773.0 25.0 14.866 7,400.0 7,372.3 7,444.9 7,310.3 27.7 174.16 -590.3 -300.1 790.7 737.3 53.99 148.09 7,600.0 7,472.3 7,444.4 7,409.8 27.3 28.1 175.69 -586.8 -306.4 788.4 744.3 54.10 14.06 7,600.0 7,672.3 7,543.9 7,508.7 27.7 28.5 175.19 -608.8 -312.8 608.1 751.3 54.82 14.706 7,700.0 7,672.3 7,724.7 28.5 175.19 -608.8 -3	6,800.0	6,772.3	6,748.2	6,717.4	24.9	25.4	170.93	-540.8	-262.7	746.0	696.9	49.11	15.192		
7,100.0 7,072.3 7,046.6 7,014.1 25.9 26.5 172.60 -565.5 -281.4 768.1 716.8 51.25 14,986 7,200.0 7,172.3 7,146.0 7,113.0 26.3 26.9 173.14 -573.8 -287.6 775.5 723.6 51.97 14,924 7,300.0 7,272.3 7,245.5 7,212.0 26.6 27.3 173.67 -482.1 -293.9 785.1 730.4 52.88 14,805 7,400.0 7,372.3 7,344.9 7,310.9 27.0 27.7 174.18 -590.3 -300.1 790.7 737.3 53.39 14,809 7,500.0 7,472.3 7,444.4 7,409.8 27.3 25.1 174.69 -586.6 -306.4 790.4 744.3 54.11 14,756 7,600.0 7,572.3 7,543.9 7,508.7 27.7 25.5 175.19 -680.8 -312.6 806.1 751.3 54.82 14,705 7,700.0 7,672.3 7,643.3 7,607.6 28.0 28.9 175.88 -615.1 -318.9 813.9 758.4 55.53 14,656 7,800.0 7,772.3 7,742.8 7,706.5 28.3 28.3 176.16 -623.4 -325.1 821.8 765.5 56.2 514.610 7,900.0 7,672.3 7,841.2 7,904.4 28.0 30.1 177.09 -839.9 -337.6 837.7 780.0 57.67 14,524 8,100.0 8,072.3 8,041.1 8,003.3 29.4 30.5 177.58 -696.1 -384.8 845.7 780.0 57.67 14,524 8,200.0 8,172.3 8,041.1 8,003.3 29.4 30.5 177.58 -696.1 -384.8 845.7 787.3 58.39 14,484 8,200.0 8,172.3 8,040.8 8,003.3 29.4 30.5 177.58 -696.1 -384.8 845.7 787.3 58.39 14,484 8,200.0 8,772.3 8,041.1 8,003.3 29.4 30.5 177.58 -696.1 -386.8 881.0 885.7 787.3 58.39 14,484 8,200.0 8,772.3 8,499.0 8,399.0 30.4 31.6 178.8 -685.1 -386.3 881.0 802.1 14,440 8,400.0 8,372.3 8,249.0 8,399.0 30.4 31.6 178.2 6-864.7 -366.3 881.0 802.1 15.8 14,440 8,400.0 8,372.3 8,499.0 8,399.0 30.8 32.0 179.26 -686.1 -386.8 885.8 82.5 62.10 14,261 8,600.0 8,772.3 8,699.2 8,685.8 32.2 31.5 33.0 179.96 -696.1 -378.5 890.1 802.1 588.1 14,440 8,400.0 8,372.3 8,499.0 8,999.0 30.8 32.0 179.26 -686.1 -386.8 890.8 893.3 802.5 13.8 34.4 179.90 -696.7 -366.6 890.9 803.8 82.5 62.5 62.95 14,129 8,600.0 8,772.3 8,699.2 8,685.8 32.2 31.5 33.0 179.96 -696.7 -366.6 890.9 80.5 80.5 60.5 11.3 84 9,000.0 8,772.3 8,699.2 8,788.5 31.8 33.4 179.90 -696.7 -366.6 890.9 80.5 80.5 60.5 11.3 84 9,000.0 8,772.3 8,909.7 8,888.8 32.2 33.8 179.0 -696.7 -366.8 890.9 803.3 82.6 66.5 11.8 84 9,000.0 9,072.3 9,061.9 9,008.4 32.9 34.0 175.26 -699.2 -306.0 898.4 833.1 65.37 13.744 9,000.0 9,072.3 9,061.9 9,008.4	6,900.0	6,872.3	6,847.7	6,816.3	25.2	25.7	171.49	-549.0	-268.9	753.3	703.5	49.82	15.120		
7,200.0 7,172.3 7,46.0 7,113.0 26.3 28.9 173.14 -573.8 -287.6 775.5 723.6 51.97 14.924 7,300.0 7,272.3 7,344.9 7,310.9 27.0 27.7 174.18 -596.6 -306.4 798.4 744.3 54.11 14,809 7,500.0 7,572.3 7,644.4 7,400.8 27.3 28.1 174.69 -596.6 -306.4 798.4 744.3 54.11 14,705 7,600.0 7,572.3 7,543.9 7,508.7 27.7 175.68 -615.1 -318.9 913.9 758.4 54.82 14,705 7,600.0 7,572.3 7,742.8 7,706.5 28.3 28.3 175.16 -823.4 -821.8 175.18 -813.9 758.4 55.53 14.666 7,800.0 7,872.3 7,442.2 7,805.5 28.7 28.7 176.63 -831.6 -331.3 82.9 175.5 58.25 14.461 7,900.0 7,872.3 7,84	7,000.0	6,972.3	6,947.1	6,915.2	25.6	26.1	172.05	-557.3	- 275.2	760.6	710.1	50.54	15.051		
7,300.0 7,272.3 7,246,5 7,212.0 26,6 27.3 173,67 -582.1 -283.9 783.1 730.4 82,68 14,865 7,400.0 7,372.3 7,244,9 7,310.9 27.0 27.7 174.18 -590.3 -300.1 790.7 737.3 53,39 14,809 7,500.0 7,672.3 7,643.9 7,508.7 27.7 28.5 175.19 -606.8 -312.6 808.1 751.3 54,82 14,705 7,000.0 7,672.3 7,643.3 7,607.6 28.0 28.9 175.68 -615.1 -318.9 813.9 758.5 14,606 7,800.0 7,772.3 7,742.8 7,706.5 28.7 28.7 176.6 -623.4 -225.1 176.6 55.53 14.606 7,800.0 7,872.3 7,942.2 7,806.5 28.7 28.7 176.6 -632.6 331.3 829.7 772.7 56.96 14.466 8,000.0 8,072.3 8,144.1 8,002.3 8,04	7,100.0	7,072.3	7,046.6	7,014.1	25.9	26.5	172.60	-565.5	-281.4	768.1	716.8	51.25	14.986		
7.400.0 7.372.3 7.344.9 7.310.9 27.0 27.7 174.18 -598.6 -306.4 798.4 744.3 54.11 14.766 7.500.0 7.572.3 7.543.9 7.500.7 27.7 28.5 175.19 -606.8 -312.6 806.1 751.3 54.82 14.705 7.600.0 7.572.3 7.643.3 7.607.6 28.0 28.9 175.68 -615.1 -318.9 813.9 758.4 55.53 1.4656 7.800.0 7.872.3 7.742.8 7.706.5 28.3 29.3 176.18 -823.4 -325.1 821.8 765.5 56.25 1.4610 7.900.0 7.872.3 7.941.7 7.904.4 29.0 30.1 177.09 -839.9 -337.6 837.7 780.0 57.67 14.524 8.100.0 8.072.3 8.041.1 8.003.3 29.4 30.5 177.54 -848.1 -343.8 845.7 787.3 58.39 14.484 8.200.3 8.122.3 8.304	7,200.0	7,172.3	7,146.0	7,113.0	26.3	26.9	173.14	-573.8	-287.6	775.5	723.6	51.97	14.924		
7,500.0 7,472.3 7,444.4 7,409.8 27.3 28.1 174,89 -598.6 -306.4 798.4 744.3 54.11 14,756 7,600.0 7,572.3 7,543.9 7,508.7 27.7 28.5 175.19 -806.8 -312.6 806.1 751.3 54.82 14,705 7,000.0 7,572.3 7,742.8 7,706.5 28.3 28.9 175.68 -615.1 -318.9 813.9 758.4 55.53 14.656 7,900.0 7,872.3 7,842.2 7,806.5 28.7 29.7 176.83 -831.6 -331.3 829.7 772.7 56.96 14.566 8,000.0 7,972.3 7,941.7 7,904.4 29.0 30.1 177.99 -839.9 -337.6 837.7 780.0 57.67 14.524 8,100.0 8,072.3 8,140.6 8,102.2 29.7 30.9 177.54 -848.1 -343.8 867.7 787.3 58.9 14.446 8,200.0 8,272.3 8,240.	7,300.0	7,272.3	7,245.5	7,212.0	26.6	27.3	173.67	-582.1	-293.9	783.1	730.4	52.68	14.865		
7,800.0 7,572.3 7,543.9 7,508.7 27.7 28.5 175.19 -006.8 -312.6 806.1 751.3 54.82 14.705 7,700.0 7,672.3 7,643.3 7,607.6 28.0 28.9 175.88 -615.1 -316.9 813.9 758.4 55.53 14.656 7,800.0 7,772.3 7,742.8 7,706.5 28.3 29.3 176.16 -623.4 -325.1 821.8 765.5 56.25 14.610 7,900.0 7,872.3 7,842.9 7,805.5 28.7 29.7 176.63 -631.6 -331.3 829.7 772.7 56.99 14.566 8,000.0 7,972.3 7,941.7 7,904.4 29.0 30.1 177.09 -639.9 -337.6 837.7 780.0 57.67 14.524 8,100.0 8,072.3 8,041.1 8,003.3 29.4 30.5 177.54 -648.1 -343.8 845.7 787.3 58.39 14.484 8,200.0 8,172.3 8,140.6 8,102.2 29.7 30.9 177.98 -636.4 -350.1 853.7 794.6 59.10 14.446 8,300.0 8,272.3 8,304.0 8,201.1 30.1 31.3 178.42 -664.7 -356.3 861.9 802.1 59.81 14.410 8,400.0 8,372.3 8,393.0 8,399.0 30.4 31.6 178.85 -672.9 -362.5 870.0 80.5 60.52 14.375 8,500.0 8,672.3 8,639.3 8,530.0 30.4 31.6 178.85 -672.9 -362.5 870.0 80.5 60.52 14.375 8,500.0 8,672.3 8,693.9 8,553.2 31.5 33.0 179.00 -696.1 -378.6 885.6 823.5 62.10 14.261 8,700.0 8,672.3 8,693.9 8,653.2 31.5 33.0 179.90 -696.1 -378.5 880.1 826.5 62.95 14.19 8,800.0 8,772.3 8,809.2 8,768.5 31.8 33.4 179.90 -696.1 -378.5 880.1 826.5 62.95 14.19 9,000.0 8,872.3 8,695.8 8,393.8 32.5 33.8 177.36 -696.7 -366.8 890.9 893.3 828.4 64.89 13.864 9,000.0 9,772.3 9,061.9 9,006.9 33.5 34.1 171.39 -701.7 -244.3 917.8 852.0 65.71 13.864 9,000.0 9,772.3 9,061.9 9,006.9 33.5 34.1 171.39 -701.7 -244.3 917.8 852.0 65.71 13.864 9,000.0 9,772.3 9,061.9 9,006.9 33.5 34.1 171.39 -701.7 -244.3 917.8 852.0 65.71 13.864 9,000.0 9,371.3 9,239.3 9,146.9 33.9 34.2 76.75 -703.7 -196.5 940.5 875.1 66.40 14.361 9,400.0 9,371.3 9,239.3 9,146.9 33.9 34.2 76.75 -703.7 -196.5 940.5 890.4 916.1 64.29 15.290 9,400.0 9,471.3 9,266.1 9,164.7 34.0 34.2 76.75 -703.7 -196.5 940.5 960.4 916.1 64.29 15.290	7,400.0	7,372.3	7,344.9	7,310.9	27.0	27.7	174.18	-590.3	-300.1	790.7	737.3	53.39	14.809		
7,700.0 7,672.3 7,643.3 7,607.6 28.0 28.9 175.68 -615.1 -318.9 813.9 758.4 55.53 14,656 7,800.0 7,772.3 7,742.8 7,706.5 28.3 29.3 176.16 -623.4 -325.1 821.8 765.5 56.25 14,610 7,900.0 7,872.3 7,842.2 7,805.5 28.7 29.7 176.63 -631.6 -331.3 829.7 772.7 56.96 14,456 8,000.0 7,972.3 7,941.7 7,904.4 29.0 30.1 177.09 -639.9 -337.6 837.7 780.0 57.67 14,524 8,100.0 8,072.3 8,041.1 8,003.3 29.4 30.5 177.54 -684.1 -343.8 845.7 787.3 58.39 14,484 8,200.0 8,172.3 8,146.8 8,102.2 29.7 30.9 177.88 -664.4 -350.1 861.9 80.2 14,414 8,400.0 8,472.3 8,483.9 8,39	7,500.0	7,472.3	7,444.4	7,409.8	27.3	28.1	174.69	-598.6	-306.4	798.4	744.3	54.11	14.756		
7,800.0 7,772.3 7,742.8 7,706.5 28.3 29.3 176.16 -623.4 -325.1 821.8 765.5 56.25 14.610 7,900.0 7,872.3 7,42.2 7,805.5 28.7 29.7 176.63 -631.6 -331.3 629.7 772.7 56.96 14.596 8,000.0 7,972.3 7,941.7 7,904.4 29.0 30.1 177.09 -639.9 -337.6 837.7 780.0 57.67 14.524 8,100.0 8,072.3 8,041.1 8,003.3 29.4 30.5 177.54 -648.1 -343.8 845.7 787.3 58.39 14.484 8,200.0 8,172.3 8,140.6 8,102.2 29.7 30.9 177.98 -656.4 -350.1 853.7 794.6 59.10 14.446 8,300.0 8,272.3 8,240.0 8,201.1 30.1 31.3 178.42 -684.7 -356.3 861.9 802.1 59.81 14.410 8,400.0 8,372.3 8,339.5 8,300.0 30.4 31.6 178.85 -672.9 -362.5 870.0 805.5 60.52 14.375 8,500.0 8,472.3 8,439.0 8,399.0 30.8 32.0 179.26 -681.2 -368.8 878.3 817.0 61.24 14.342 8,600.0 8,572.3 8,561.3 8,520.7 31.1 32.5 179.71 -690.1 -375.6 885.6 823.5 62.10 14.261 8,700.0 8,672.3 8,693.9 8,653.2 31.5 33.0 179.96 -695.3 -379.5 889.5 826.5 62.95 14.129 8,800.0 8,772.3 8,809.2 8,788.5 31.8 33.4 179.90 -696.1 -378.5 890.1 826.5 63.67 13.980 8,900.0 8,872.3 8,90.7 8,858.8 32.2 33.6 179.00 -696.1 -378.5 890.1 826.5 63.67 13.980 8,900.0 8,972.3 8,90.7 8,858.8 32.2 33.6 179.30 -696.7 -384.6 890.9 826.6 64.31 13.864 9,000.0 9,772.3 9,061.9 9,008.4 32.9 34.0 175.26 -699.2 -300.0 898.4 833.1 65.37 13.744 9,200.0 9,772.3 9,061.9 9,008.4 32.9 34.0 175.26 -699.2 -306.0 898.4 833.1 65.37 13.744 9,200.0 9,772.3 9,169.9 9,069.9 33.5 34.1 173.30 -700.7 -707.0 297.2 907.8 842.1 65.67 13.824 9,200.0 9,772.3 9,169.9 9,069.9 33.5 34.1 173.90 -700.7 -707.0 297.2 907.8 842.1 65.67 13.824 9,200.0 9,371.3 9,239.3 9,146.9 33.9 34.2 76.75 -703.7 -196.5 940.5 875.1 65.40 14.381 9,450.0 9,419.5 9,266.1 9,164.7 34.0 34.2 74.62 -704.6 -176.4 950.3 885.5 64.89 14.09 9,550.0 9,551.8 9,319.6 9,197.2 34.2 34.2 74.44 -706.4 -134.0 970.4 965.8 64.57 15.028 9,600.0 9,554.7 9,350.0 9,213.9 34.4 34.2 66.75 -707.4 -108.6 980.4 916.1 64.29 15.250	7,600.0	7,572.3	7,543.9	7,508.7	27.7	28.5	175.19	-606.8	-312.6	806.1	751.3	54.82	14.705		
7,900,0 7,872,3 7,842,2 7,805,5 28,7 29,7 176,63 -831,6 -331,3 829,7 772,7 56,96 14,566 8,000,0 7,972,3 7,941,7 7,904,4 29,0 30,1 177,59 -599,9 -337,6 837,7 780,0 57,67 14,524 8,100,0 8,072,3 8,041,1 8,003,3 29,4 30,5 177,54 -648,1 -343,8 845,7 787,3 56,39 14,484 8,200,0 8,172,3 8,140,6 8,102,2 29,7 30,9 177,98 -656,4 -356,3 861,9 802,1 14,446 8,000,0 8,372,3 8,390,0 30,0 30,4 31,6 178,85 -672,9 -362,5 870,0 809,5 80,5 14,375 8,500,0 8,523,3 8,561,3 8,520,7 31,1 32,5 179,1 -690,1 -375,6 885,6 823,5 62,10 14,261 8,700,0 8,672,3 8,563,2 31,5 <td>7,700.0</td> <td>7,672.3</td> <td>7,643.3</td> <td>7,607.6</td> <td>28.0</td> <td>28.9</td> <td>175.68</td> <td>-615.1</td> <td>-318.9</td> <td>813.9</td> <td>758.4</td> <td>55.53</td> <td>14.656</td> <td></td> <td></td>	7,700.0	7,672.3	7,643.3	7,607.6	28.0	28.9	175.68	-615.1	-318.9	813.9	758.4	55.53	14.656		
8,000,0 7,972,3 7,941,7 7,904,4 29,0 30,1 177,09 -639,9 -337,6 837,7 780,0 57,67 14,524 8,100,0 8,072,3 8,041,1 8,003,3 29,4 30,5 177,54 -648,1 -343,8 845,7 787,3 58,39 14,484 8,200,0 8,172,3 8,140,6 8,102,2 29,7 30,9 177,98 -656,4 -350,1 853,7 794,6 59,10 14,446 8,300,0 8,372,3 8,240,0 8,201,1 30,1 31,3 178,42 -664,7 -356,3 861,9 802,1 59,81 14,410 8,400,0 8,372,3 8,399,0 30,8 32,0 179,26 -681,2 -368,8 878,3 817,0 61,24 14,342 8,600,0 8,572,3 8,561,3 8,520,7 31,1 32,5 179,71 -690,1 -375,6 885,6 823,5 62,10 14,261 8,702,3 8,693,9 8,693,2 31,5<	7,800.0	7,772.3	7,742.8	7,706.5	28.3	29.3	176.16	-623.4	-325.1	821.8	765.5	56.25	14.610		
8,100.0 8,072.3 8,041.1 8,003.3 29.4 30.5 177.54 -648.1 -343.8 845.7 787.3 58.39 14.484 8,200.0 8,172.3 8,140.6 8,102.2 29.7 30.9 177.98 -656.4 -350.1 853.7 794.6 59.10 14.446 8,200.0 8,272.3 8,240.0 8,201.1 30.1 31.3 178.42 -664.7 -356.3 861.9 802.1 59.81 14.410 8,400.0 8,372.3 8,339.5 8,300.0 30.4 31.6 178.85 -672.9 -362.5 870.0 809.5 60.52 14.375 8,500.0 8,472.3 8,439.0 8,399.0 30.8 32.0 179.26 -681.2 -368.8 878.3 817.0 61.24 14.342 8,500.0 8,472.3 8,693.0 8,399.0 30.8 32.0 179.26 -681.2 -368.8 878.3 817.0 61.24 14.342 8,500.0 8,772.3 8,693.9 8,653.2 31.5 33.0 179.96 -695.3 -379.5 889.5 826.5 62.10 14.261 8,500.0 8,772.3 8,809.2 8,768.5 31.8 33.4 179.90 -696.1 -378.6 890.1 826.5 63.67 13,980 8,900.0 8,772.3 8,800.7 8,885.8 32.2 33.6 179.00 -896.7 -364.6 890.9 826.6 64.31 13,854 8,900.0 8,972.3 8,985.8 8,938.8 32.2 33.8 177.36 -697.8 -338.9 893.3 828.4 64.89 13,766 8,100.0 9,072.3 9,081.9 9,084.4 32.9 34.0 175.26 -699.2 -306.0 898.4 833.1 65.37 13,744 9,200.0 9,172.3 9,128.1 9,064.0 33.2 34.0 175.06 -699.2 -306.0 898.4 833.1 65.37 13,744 9,200.0 9,172.3 9,128.1 9,064.0 33.2 34.0 175.06 -699.2 -306.0 898.4 833.1 65.37 13,744 9,200.0 9,172.3 9,128.1 9,064.0 33.2 34.0 175.26 -699.2 -306.0 898.4 833.1 65.37 13,744 9,200.0 9,172.3 9,128.1 9,064.0 33.2 34.0 175.06 -699.2 -306.0 898.4 833.1 65.37 13,744 9,200.0 9,172.3 9,128.1 9,064.0 33.2 34.0 175.06 -697.8 -697.8 -697.8 931.1 865.6 65.69 14.041 9,350.0 9,272.3 9,188.1 9,108.3 33.6 34.1 174.39 -701.7 -244.3 917.8 852.0 65.71 13,966 9,300.0 9,272.3 9,188.1 9,108.3 33.6 34.1 174.39 -701.7 -244.3 917.8 852.0 65.71 13,966 9,300.0 9,371.3 9,239.3 9,148.1 33.7 34.1 78.63 -702.9 -215.8 931.1 865.6 65.69 14.041 9,460.0 9,419.5 9,266.1 9,164.7 34.0 34.2 74.4 -706.4 -176.4 950.3 885.2 65.17 14.583 9,550.0 9,311.6 9,316.6 9,192.9 9,185.5 34.1 34.2 74.14 -706.4 -176.4 950.3 885.2 65.17 14.583 9,550.0 9,550.0 9,551.6 9,316.6 9,192.9 34.4 34.2 74.44 -706.4 -134.0 970.4 905.8 64.57 15.26 960.0 9,550.0 9,551.6 9,350.0 9,213.9 34.4 34.2 69.75 -707.4 -108.6 960.4 916.1 64.29 15.250	7,900.0	7,872.3	7,842.2	7,805.5	28.7	29.7	176.63	-631.6	-331.3	829.7	772.7	56.96	14.566		
8,200,0 8,172,3 8,140,6 8,102,2 29,7 30,9 177,98 -656,4 -350,1 853,7 794,6 59,10 14,446 8,300,0 8,272,3 8,240,0 8,201,1 30,1 31,3 178,42 -664,7 -356,3 861,9 802,1 59,81 14,410 8,400,0 8,372,3 8,395,5 8,300,0 30,4 31,6 178,85 -672,9 -362,5 870,0 809,5 60,52 14,375 8,500,0 8,472,3 8,439,0 8,399,0 30,8 32,0 179,26 -681,2 -368,8 878,3 817,0 61,24 14,342 8,600,0 8,572,3 8,561,3 8,520,7 31,1 32,5 179,71 -690,1 -375,6 865,6 823,5 62,10 14,261 8,700,0 8,672,3 8,693,9 8,653,2 31,5 33,0 179,96 -695,3 -379,5 889,5 826,5 62,95 14,129 8,800,0 8,772,3 8,809,2 8,768,5 31,8 33,4 179,90 -696,1 -378,5 890,1 826,5 63,67 13,890 8,900,0 8,872,3 8,990,7 8,858,8 32,2 33,6 179,00 -696,7 -364,6 890,9 826,6 64,31 13,854 9,000,0 8,972,3 8,985,8 8,939,8 32,5 33,8 177,36 -697,8 -338,9 893,3 828,4 64,89 13,766 9,100,0 9,072,3 9,061,9 9,008,4 32,9 34,0 175,26 -699,2 -306,0 898,4 833,1 65,37 13,744 9,200,0 9,172,3 9,128,1 9,064,0 33,2 34,0 175,26 -699,2 -306,0 898,4 833,1 65,37 13,744 9,200,0 9,172,3 9,128,1 9,064,0 33,2 34,0 175,26 -699,2 -306,0 898,4 833,1 65,37 13,744 9,200,0 9,172,3 9,128,1 9,064,0 33,2 34,0 175,26 -699,2 -306,0 898,4 833,1 65,37 13,744 9,200,0 9,172,3 9,128,1 9,064,0 33,2 34,0 175,26 -699,2 -306,0 898,4 833,1 65,37 13,744 9,200,0 9,172,3 9,128,1 9,064,0 33,2 34,0 175,26 -699,2 -306,0 898,4 833,1 65,37 13,744 9,200,0 9,172,3 9,128,1 9,064,0 33,2 34,0 175,300 -700,7 -270,2 907,8 842,1 65,67 13,824 9,272,2 9,244,5 9,169,9 9,096,9 33,5 34,1 171,39 -701,7 -244,3 917,8 852,0 65,71 13,966 9,300,0 9,272,3 9,185,1 9,108,3 33,6 34,1 80,53 -702,2 -234,4 922,3 866,6 65,69 14,041 9,350,0 9,300,0 9,322,1 9,212,3 9,128,1 9,146,9 33,9 34,2 76,75 -703,7 -196,5 940,5 875,1 65,40 14,381 9,400,0 9,400,0 9,400,0 9,400,0 9,400,4 9,200,0 9,400,4 9,200,0 9,400,4 9,200,0 9,400,4 9,200,0 9,400,4 9,200,0 9,400,4 9,200,0 9,400,4 9,200,0 9,400,4 9,400,5	8,000.0	7,972.3	7,941.7	7,904.4	29.0	30.1	177.09	-639.9	-337.6	837.7	780.0	57.67	14.524		
8,300,0 8,272,3 8,240,0 8,201,1 30,1 31,3 178,42 -664,7 -356,3 861,9 802,1 59,81 14,410 8,400,0 8,372,3 8,395,5 8,300,0 30,4 31,6 178,85 -672,9 -362,5 870,0 809,5 60,52 14,375 8,500,0 8,472,3 8,439,0 8,399,0 30,8 32,0 179,26 -681,2 -368,8 878,3 817,0 61,24 14,342 8,600,0 8,572,3 8,661,3 8,520,7 31,1 32,5 179,71 -690,1 -375,6 885,6 823,5 62,10 14,261 8,700,0 8,672,3 8,693,9 8,653,2 31,5 33,0 179,96 -695,3 -379,5 889,5 826,5 62,95 14,129 8,800,0 8,772,3 8,900,7 8,858,8 32,2 33,6 179,00 -696,1 -378,5 890,1 826,5 63,67 13,980 8,900,0 8,872,3 8,900,7 8,858,8 32,2 33,6 179,00 -696,7 -364,6 890,9 826,6 64,31 13,854 9,000,0 8,972,3 8,985,8 8,939,8 32,5 33,8 177,36 -697,8 -338,9 893,3 828,4 64,89 13,766 9,100,0 9,072,3 9,061,9 9,008,4 32,9 34,0 175,26 -699,2 -306,0 898,4 833,1 65,37 13,744 9,200,0 9,172,3 9,128,1 9,064,0 33,2 34,0 173,00 -700,7 -270,2 907,8 842,1 65,67 13,824 9,272,2 9,244,5 9,169,9 9,096,9 33,5 34,1 171,39 -701,7 -244,3 917,8 852,0 65,71 13,966 9,300,0 9,272,3 9,185,1 9,108,3 33,6 34,1 80,53 -702,2 -234,4 922,3 856,6 65,69 14,041 9,350,0 9,322,1 9,212,3 9,128,1 33,7 34,1 78,63 -702,2 -234,4 922,3 856,6 65,69 14,041 9,350,0 9,371,3 9,239,3 9,146,9 33,9 34,2 76,75 -703,7 -196,5 940,5 875,1 65,40 14,381 9,450,0 9,419,5 9,266,1 9,164,7 34,0 34,2 74,92 -704,6 -176,4 950,3 895,5 64,89 14,800 9,550,0 9,511,6 9,319,6 9,197,2 34,2 34,2 74,44 -706,4 -134,0 970,4 905,8 64,57 15,028 9,600,0 9,554,7 9,350,0 9,213,9 34,4 34,2 69,75 -707,4 -108,6 980,4 916,1 64,29 15,250	8,100.0	8,072.3	8,041.1	8,003.3	29.4	30.5	177.54	-648.1	-343.8	845.7	787.3	58.39	14.484		
8,400.0 8,372.3 8,339.5 8,300.0 30.4 31.6 178.85 -672.9 -362.5 870.0 809.5 60.52 14.375 8,500.0 8,472.3 8,439.0 8,399.0 30.8 32.0 179.26 -681.2 -368.8 878.3 817.0 61.24 14.342 8,600.0 8,572.3 8,561.3 8,520.7 31.1 32.5 179.71 -690.1 -375.6 885.6 823.5 62.10 14.261 8,700.0 8,672.3 8,693.9 8,653.2 31.5 33.0 179.96 -695.3 -379.5 895.5 826.5 62.95 14.129 8,800.0 8,772.3 8,809.2 8,768.5 31.8 33.4 179.90 -696.1 -378.5 890.1 826.5 63.67 13.980 8,800.0 8,772.3 8,809.2 8,768.5 31.8 33.4 179.90 -696.1 -378.5 890.1 826.5 63.67 13.864 9,000.0 8,972.3 8,985.8 8,939.8 32.5 33.8 177.36 -697.8 -384.9 893.3 828.4 64.89 13,766 9,100.0 9,072.3 9,061.9 9,008.4 32.9 34.0 175.26 -697.8 -388.9 893.3 828.4 64.89 13,766 9,100.0 9,172.3 9,128.1 9,064.0 33.2 34.0 173.00 -700.7 -270.2 907.8 842.1 65.67 13.824 9,272.2 9,244.5 9,169.9 9,096.9 33.5 34.1 171.39 -701.7 -244.3 917.8 852.0 65.71 13.966 9,300.0 9,272.3 9,185.1 9,108.3 33.6 34.1 80.53 -702.2 -234.4 922.3 856.6 65.69 14.041 9,350.0 9,322.1 9,212.3 9,128.1 33.7 34.1 78.63 -702.2 -234.4 922.3 856.6 65.69 14.041 9,350.0 9,371.3 9,239.3 9,146.9 33.9 34.2 76.75 -703.7 -196.5 940.5 875.1 65.40 14.381 9,450.0 9,419.5 9,266.1 9,164.7 34.0 34.2 74.92 -704.6 -176.4 950.3 885.2 65.17 14.563 9,500.0 9,466.4 9,292.9 9,181.5 34.1 34.2 73.14 -705.5 -155.5 960.3 895.5 64.89 14.800 9,550.0 9,511.6 9,319.6 9,197.2 34.2 34.2 71.44 -706.4 -134.0 970.4 905.8 64.57 15.028 9,600.0 9,554.7 9,350.0 9,213.9 34.4 34.2 69.75 -707.4 -108.6 980.4 916.1 64.29 15.250	8,200.0	8,172.3	8,140.6	8,102.2	29.7	30.9	177.98	-656.4	-350.1	853.7	794.6	59.10	14.446		
8,500.0 8,472.3 8,439.0 8,399.0 30.8 32.0 179.26 -681.2 -368.8 878.3 817.0 61.24 14.342 8,600.0 8,572.3 8,561.3 8,520.7 31.1 32.5 179.71 -690.1 -375.6 885.6 823.5 62.10 14.261 8,700.0 8,672.3 8,693.9 8,653.2 31.5 33.0 179.96 -695.3 -379.5 889.5 826.5 62.95 14.129 8,800.0 8,772.3 8,809.2 8,768.5 31.8 33.4 179.90 -696.1 -376.5 890.1 826.5 63.67 13.980 8,900.0 8,872.3 8,900.7 8,858.8 32.2 33.6 179.00 -696.7 -364.6 890.9 826.6 64.31 13.854 9,000.0 8,972.3 8,985.8 8,939.8 32.5 33.8 177.36 -697.8 -338.9 893.3 828.4 64.89 13.766 9,100.0 9,072.3 9,061.9 9,008.4 32.9 34.0 175.26 -699.2 -306.0 898.4 833.1 65.37 13.744 9,200.0 9,172.3 9,128.1 9,064.0 33.2 34.0 173.00 -700.7 -270.2 907.8 842.1 65.67 13.864 9,200.0 9,272.3 9,185.1 9,108.3 33.6 34.1 171.39 -701.7 -244.3 917.8 852.0 65.71 13.966 9,300.0 9,272.3 9,185.1 9,108.3 33.6 34.1 80.53 -702.2 -234.4 922.3 856.6 65.59 14.041 9,350.0 9,371.3 9,239.3 9,146.9 33.9 34.2 76.75 -703.7 -196.5 940.5 875.1 65.40 14.381 9,400.0 9,371.3 9,239.3 9,146.9 33.9 34.2 76.75 -703.7 -196.5 940.5 875.1 65.40 14.381 9,450.0 9,466.4 9,292.9 9,181.5 34.1 34.2 73.14 -705.5 -155.5 960.3 895.5 64.89 14.800 9,550.0 9,511.6 9,319.6 9,197.2 34.2 34.2 71.44 -706.4 -134.0 970.4 955.8 64.57 15.028 9,600.0 9,554.7 9,350.0 9,213.9 34.4 34.2 69.75 -707.4 -108.6 980.4 916.1 64.29 15.250	8,300.0	8,272.3	8,240.0	8,201.1	30.1	31.3	178.42	-664.7	-356.3	861.9	802.1	59.81	14,410		
8,600.0 8,572.3 8,561.3 8,520.7 31.1 32.5 179.71 -690.1 -375.6 885.6 823.5 62.10 14,261 8,700.0 8,672.3 8,693.9 8,653.2 31.5 33.0 179.96 -695.3 -379.5 889.5 826.5 62.95 14,129 8,800.0 8,772.3 8,809.2 8,768.5 31.8 33.4 179.90 -696.1 -376.5 890.1 826.5 63.67 13,980 8,900.0 8,872.3 8,900.7 8,858.8 32.2 33.6 179.00 -696.7 -364.6 890.9 826.6 64.31 13,854 9,000.0 8,972.3 8,985.8 8,939.8 32.5 33.8 177.36 -697.8 -338.9 893.3 828.4 64.89 13,766 9,100.0 9,072.3 9,061.9 9,008.4 32.9 34.0 175.26 -699.2 -306.0 898.4 833.1 65.37 13,744 9,200.0 9,172.3 9,128.1 9,064.0 33.2 34.0 173.00 -700.7 -270.2 907.8 842.1 65.67 13,824 9,272.2 9,244.5 9,169.9 9,096.9 33.5 34.1 171.39 -701.7 -244.3 917.8 852.0 65.71 13,966 9,300.0 9,272.3 9,185.1 9,108.3 33.6 34.1 80.53 -702.2 -234.4 922.3 856.6 65.59 14.041 9,350.0 9,322.1 9,212.3 9,128.1 33.7 34.1 78.63 -702.9 -215.8 931.1 865.6 65.58 14.199 9,400.0 9,371.3 9,239.3 9,186.1 9,108.3 33.6 34.1 78.63 -702.9 -215.8 931.1 865.6 65.57 14.583 9,400.0 9,419.5 9,266.1 9,164.7 34.0 34.2 74.92 -704.6 -176.4 950.3 885.2 65.17 14.583 9,500.0 9,419.5 9,266.1 9,164.7 34.0 34.2 74.92 -704.6 -176.4 950.3 885.2 65.17 14.583 9,500.0 9,511.6 9,319.6 9,197.2 34.2 34.2 71.44 -706.4 -134.0 970.4 905.8 64.57 15.028 9,600.0 9,554.7 9,350.0 9,213.9 34.4 34.2 69.75 -707.4 -108.6 980.4 916.1 64.29 15.250	8,400.0	8,372.3	8,339.5	8,300.0	30.4	31.6	178.85	-672.9	-362.5	870.0	809.5	60.52	14.375		
8,700.0 8,672.3 8,693.9 8,653.2 31.5 33.0 179.96 -695.3 -379.5 889.5 826.5 62.95 14,129 8,800.0 8,772.3 8,809.2 8,768.5 31.8 33.4 179.90 -696.1 -378.5 890.1 826.5 63.67 13.980 8,900.0 8,872.3 8,900.7 8,858.8 32.2 33.6 179.00 -696.7 -364.6 890.9 826.6 64.31 13.854 9,000.0 8,972.3 8,985.8 8,939.8 32.5 33.8 177.36 -697.8 -338.9 893.3 828.4 64.89 13.766 9,100.0 9,072.3 9,061.9 9,008.4 32.9 34.0 175.26 -699.2 -306.0 898.4 833.1 65.37 13.744 9,200.0 9,172.3 9,128.1 9,064.0 33.2 34.0 173.00 -700.7 -270.2 907.8 842.1 65.67 13.824 9,272.2 9,244.5 9,169.9 9,096.9 33.5 34.1 171.39 -701.7 -244.3 917.8 852.0 65.71 13.966 9,300.0 9,272.3 9,185.1 9,108.3 33.6 34.1 80.53 -702.2 -234.4 922.3 856.6 65.69 14.041 9,350.0 9,322.1 9,212.3 9,128.1 33.7 34.1 78.63 -702.9 -215.8 931.1 865.6 65.58 14.199 9,400.0 9,371.3 9,239.3 9,146.9 33.9 34.2 76.75 -703.7 -196.5 940.5 875.1 65.40 14,381 9,450.0 9,419.5 9,266.1 9,164.7 34.0 34.2 74.92 -704.6 -176.4 950.3 885.2 65.17 14,583 9,500.0 9,466.4 9,292.9 9,181.5 34.1 34.2 73.14 -705.5 -155.5 960.3 895.5 64.89 14.800 9,550.0 9,554.7 9,350.0 9,213.9 34.4 34.2 69.75 -707.4 -108.6 980.4 916.1 64.29 15.250	8,500.0	8,472.3	8,439.0	8,399.0	30.8	32.0	179.26	-681.2	-368.8	878.3	817.0	61.24	14.342		
8,700.0 8,672.3 8,693.9 8,653.2 31.5 33.0 179.96 -695.3 -379.5 889.5 826.5 62.95 14,129 8,800.0 8,772.3 8,809.2 8,768.5 31.8 33.4 179.90 -696.1 -378.5 890.1 826.5 63.67 13.980 8,900.0 8,872.3 8,900.7 8,858.8 32.2 33.6 179.00 -696.7 -364.6 890.9 826.6 64.31 13.854 9,000.0 8,972.3 8,985.8 8,939.8 32.5 33.8 177.36 -697.8 -338.9 893.3 828.4 64.89 13.766 9,100.0 9,072.3 9,061.9 9,008.4 32.9 34.0 175.26 -699.2 -306.0 898.4 833.1 65.37 13.744 9,200.0 9,172.3 9,128.1 9,064.0 33.2 34.0 173.00 -700.7 -270.2 907.8 842.1 65.67 13.824 9,272.2 9,244.5 9,169.9 9,096.9 33.5 34.1 171.39 -701.7 -244.3 917.8 852.0 65.71 13.966 9,300.0 9,272.3 9,185.1 9,108.3 33.6 34.1 80.53 -702.2 -234.4 922.3 856.6 65.69 14.041 9,350.0 9,322.1 9,212.3 9,128.1 33.7 34.1 78.63 -702.9 -215.8 931.1 865.6 65.58 14.199 9,400.0 9,371.3 9,239.3 9,146.9 33.9 34.2 76.75 -703.7 -196.5 940.5 875.1 65.40 14,381 9,450.0 9,419.5 9,266.1 9,164.7 34.0 34.2 74.92 -704.6 -176.4 950.3 885.2 65.17 14,583 9,500.0 9,466.4 9,292.9 9,181.5 34.1 34.2 73.14 -705.5 -155.5 960.3 895.5 64.89 14.800 9,550.0 9,554.7 9,350.0 9,213.9 34.4 34.2 69.75 -707.4 -108.6 980.4 916.1 64.29 15.250	8,600.0	8,572.3	8,561.3	8,520.7	31.1	32.5	179.71	-690.1	-375.6	885.6	823.5	62.10	14.261		
8,800.0 8,772.3 8,809.2 8,768.5 31.8 33.4 179.90 -696.1 -378.5 890.1 826.5 63.67 13.980 8,900.0 8,872.3 8,900.7 8,858.8 32.2 33.6 179.00 -696.7 -364.6 890.9 826.6 64.31 13.854 9,000.0 8,972.3 8,985.8 8,939.8 32.5 33.8 177.36 -697.8 -338.9 893.3 828.4 64.89 13,766 9,100.0 9,072.3 9,061.9 9,008.4 32.9 34.0 175.26 -699.2 -306.0 898.4 833.1 65.37 13.744 9,200.0 9,172.3 9,128.1 9,064.0 33.2 34.0 173.00 -700.7 -270.2 907.8 842.1 65.67 13.824 9,272.2 9,244.5 9,169.9 9,096.9 33.5 34.1 171.39 -701.7 -244.3 917.8 852.0 65.71 13.966 9,300.0 9,272.3 9,185.1 9,108.3 33.6 34.1 80.53 -702.2 -234.4 922.3 856.6 65.69 14.041 9,350.0 9,322.1 9,212.3 9,128.1 33.7 34.1 78.63 -702.9 -215.8 931.1 865.6 65.58 14.199 9,400.0 9,371.3 9,239.3 9,146.9 33.9 34.2 76.75 -703.7 -196.5 940.5 875.1 65.40 14.381 9,450.0 9,419.5 9,266.1 9,164.7 34.0 34.2 74.92 -704.6 -176.4 950.3 885.2 65.17 14.583 9,500.0 9,466.4 9,292.9 9,181.5 34.1 34.2 73.14 -705.5 -155.5 960.3 895.5 64.89 14.600 9,550.0 9,554.7 9,350.0 9,213.9 34.4 34.2 69.75 -707.4 -108.6 980.4 916.1 64.29 15.250															
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9,200.0 9,172.3 9,128.1 9,064.0 33.2 34.0 173.00 -700.7 -270.2 907.8 842.1 65.67 13.824 9,272.2 9,244.5 9,169.9 9,096.9 33.5 34.1 171.39 -701.7 -244.3 917.8 852.0 65.71 13.966 9,300.0 9,272.3 9,185.1 9,108.3 33.6 34.1 80.53 -702.2 -234.4 922.3 856.6 65.69 14.041 9,350.0 9,322.1 9,212.3 9,128.1 33.7 34.1 78.63 -702.9 -215.8 931.1 865.6 65.58 14.199 9,400.0 9,371.3 9,239.3 9,146.9 33.9 34.2 76.75 -703.7 -196.5 940.5 875.1 65.40 14.381 9,450.0 9,419.5 9,266.1 9,164.7 34.0 34.2 74.92 -704.6 -176.4 950.3 885.2 65.17 14.583 9,500.0 9,466.4 9,292.9 9,181.5 34.1 34.2 73.14 -705.5 -155.5 960.3	9,100.0	9,072.3	9,061.9	9,008.4	32.9	34.0	175.26	-699.2	-306.0	898.4	833.1	65.37	13.744		
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9,500.0 9,466.4 9,292.9 9,181.5 34.1 34.2 73.14 -705.5 -155.5 960.3 895.5 64.89 14.800 9,550.0 9,511.6 9,319.6 9,197.2 34.2 34.2 71.44 -706.4 -134.0 970.4 905.8 64.57 15.028 9,600.0 9,554.7 9,350.0 9,213.9 34.4 34.2 69.75 -707.4 -108.6 980.4 916.1 64.29 15.250															
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	9,650.0	9,595.5	9,372.7	9,225.4	34.5	34.2	68.34	- 708.2	-89.1	990.1	926.2	63.90	15.495		

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

2.00 sigma EDM 5000.14 Server

	set Desig	gn	Barry Mi	iller - Bar	ry Miller Sta	te Com #	202H - Welli	bore #1 - State	e Plan #1					Offset Site Error:	0.0 usft
No. Perform					Comi Major	Avia				Diete				Offset Well Error:	0.0 usft
Page							Highside	Offset Wellborn	e Centre			Minimum	Separation	Warning	
87800 50808 9425 92462 92462 9477 942 6270 77102 422 10843 9450 6227 10969 88600 67762 64762 92868 35.0 34.2 82.60 77123 7.7 1026.0 691.2 62.62 16.902 89600 67743 95000 92783 35.3 34.2 82.60 77123 7.7 1026.0 691.2 62.62 16.902 95000 67743 95000 92783 35.3 34.2 82.60 77144 8714 1096.7 7741 62.60 95000 97749 95000 92783 35.3 34.2 82.60 77144 8714 1096.7 7741 62.60 95000 96749 95500 9566 36.0 34.2 82.70 7716.5 168.8 168.8 98.9 62.60 95000 96749 95500 9566 36.0 34.3 80.70 7716.5 168.8 168.8 98.9 62.80 162.8 95000 96749 96500 9676 36.0 36.3 80.70 7716.5 168.8 168.8 98.9 62.80 162.8 95000 96749 96500 9076 36.0 36.0 80.62 7716.0 168.8 168.8 98.9 62.80 162.8 95000 96749 96950 9	epth C	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		••••••	
1980.00 970.00 94.00 92.00 94.00 94.00 94.00 94.00 94.00 975.00 95.00 92.00 92.00 95.00 92.00 92.00 95.00 92.00 92.00 92.00 95.00 92.00 92.00 95.00 92.00	9,700.0	9,633.7	9,400.0	9,238.3	34.6	34.2	66.94	-709.3	-65.0	999.4	935.8	63.58	15.720		
9.896.0 97282 9.8722 9.8722 9.8866 35.0 34.2 63.69 7713.3 7.0 1024.0 96.12 0.222 10.0222 10.0002 9.000.0 9.076.0 9.000.0 9.076.0 9.000.0 9.076.0 9.000.0 9.076.0 9.000.0 9.076.0 9.000.0 9.076.0 9.000.0 9.076.0 9.000	9,750.0	9,668.8	9,425.5	9,249.2	34.7	34.2	65.70	- 710.2	- 42.0	1,008.3	945.0	63.27	15.936		
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12,400,0 9,924,5 11,909,9 9,415,6 73,5 72,5 62,74 -775,0 2,431,3 1,108,5 976,5 132,00 8,398 12,500,0 9,929,2 12,010,9 9,419,7 75,6 74,7 62,74 -775,7 2,532,3 1,110,0 974,1 135,92 8,166 12,600,0 9,933,9 12,112,0 9,423,7 77,8 76,9 62,74 -776,3 2,633,2 1,111,4 971,5 139,86 7,946 12,700,0 9,938,6 12,213,0 9,427,6 80,0 79,1 62,72 -776,7 2,734,1 1,112,7 968,9 143,82 7,737 12,800,0 9,943,3 12,314,0 9,431,4 82,2 81,4 62,70 -776,9 2,835,1 1,113,9 966,1 147,79 7,537 12,900,0 9,948,0 12,415,0 9,435,1 84,4 83,6 62,67 -777,0 2,936,0 1,115,0 963,3 151,78 7,346 13,000,0 9,952,7 12,516,0 9,438,8 86,7 85,9 62,63 -776,9 3,037,0 1,116,1 960,3 155,78 7,165 13,100,0 9,957,5 12,617,0 9,442,3 88,9 88,2 62,59 -776,7 3,137,9 1,117,0 957,2 159,78 6,991 13,200,0 9,962,2 12,718,0 9,445,7 91,2 90,5 62,53 -776,4 3,238,9 1,117,9 954,1 163,79 6,825 13,300,0 9,966,9 12,819,0 9,449,1 93,4 92,7 62,47 -775,9 3,339,8 1,118,6 950,8 167,81 6,666 13,400,0 9,971,6 12,919,7 9,452,3 95,7 95,0 62,40 -775,2 3,440,5 1,119,3 947,5 171,62 6,570 13,600,0 9,971,6 12,919,7 9,452,3 95,7 95,0 62,40 -775,2 3,440,5 1,119,3 947,5 171,62 6,570 13,600,0 9,971,6 12,919,7 9,455,5 98,0 97,3 62,33 -774,5 3,540,4 1,120,0 944,1 175,82 6,370 13,600,0 9,976,3 13,019,7 9,455,5 98,0 97,3 62,33 -774,5 3,540,4 1,120,0 944,1 175,82 6,370 13,600,0 9,981,0 13,119,7 9,458,7 100,3 99,6 62,29 -773,8 3,640,3 1,120,6 940,8 179,84 6,231 13,700,0 9,995,2 13,419,7 9,468,3 107,2 106,5 62,05 -771,8 3,640,4 1,120,0 944,1 175,82 6,370 13,800,0 9,990,4 13,319,7 9,468,3 107,2 106,5 62,05 -771,7 3,940,1 1,122,6 930,6 191,94 5,849 14,000,0 9,999,9 13,519,7 9,471,5 109,5 108,9 61,98 -771,0 4,040,1 1,123,3 927,3 195,98 5,731 14,100,0 10,004,6 13,619,7 9,474,7 111,9 111,2 61,91 -770,3 4,140,0 1,123,9 923,9 20,003 5,619	12,200.0	9,915.0	11,707.9	9,407.1	69.2	68.2	62.72	-773.1	2,229.5	1,105.2	981.0	124.25	8.895		
12,500.0 9,929.2 12,010.9 9,419.7 75.6 74.7 62.74 -775.7 2,532.3 1,110.0 974.1 135.92 8.166 12,600.0 9,933.9 12,112.0 9,423.7 77.8 76.9 62.74 -776.3 2,633.2 1,111.4 971.5 139.86 7.946 12,700.0 9,938.6 12,213.0 9,427.6 80.0 79.1 62.72 -776.7 2,734.1 1,112.7 968.9 143.82 7.737 12,800.0 9,943.3 12,314.0 9,431.4 82.2 81.4 62.70 -776.9 2,835.1 1,113.9 966.1 147.79 7.537 12,900.0 9,948.0 12,415.0 9,435.1 84.4 83.6 62.67 -777.0 2,936.0 1,115.0 963.3 151.78 7.346 13,000.0 9,952.7 12,516.0 9,438.8 86.7 85.9 62.63 -776.9 3,037.0 1,116.1 960.3 155.78 7.165 13,100.0 9,957.5 12,617.0 9,442.3 88.9 88.2 62.59 -776.7 3,137.9 1,117.0 957.2 159.78 6.991 13,200.0 9,962.2 12,718.0 9,445.7 91.2 90.5 62.53 -776.4 3,238.9 1,117.9 954.1 163.79 6.825 13,300.0 9,966.9 12,819.0 9,449.1 93.4 92.7 62.47 -775.9 3,339.8 1,118.6 950.8 167.81 6.666 13,400.0 9,976.3 13,019.7 9,452.3 95.7 95.0 62.40 -775.2 3,440.5 1,119.3 947.5 171.82 6.310 13,600.0 9,981.0 13,119.7 9,458.7 100.3 99.6 62.26 -773.8 3,640.3 1,120.0 944.1 175.82 6.370 13,600.0 9,994.1 13,319.7 9,458.7 100.3 99.6 62.26 -773.8 3,640.3 1,120.6 940.8 179.84 6.231 13,700.0 9,995.2 13,419.7 9,468.3 107.2 106.5 62.05 -771.7 3,940.1 1,122.9 934.0 187.90 5.971 13,900.0 9,999.9 13,519.7 9,471.5 109.5 108.9 61.98 -771.0 4,040.1 1,123.3 927.3 195.98 5.731 14,100.0 10,004.6 13,619.7 9,474.7 111.9 111.2 61.91 -770.3 4,140.0 1,123.9 923.9 200.03 5.619	12,300.0	9,919.8	11,808.9	9,411.4	71.3	70.3	62.73	-774.1	2,330.4	1,106.9	978.8	128.11	8,640		
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13,000.0 9,952.7 12,516.0 9,438.8 86.7 85.9 62.63 -776.9 3,037.0 1,116.1 960.3 155.78 7.165 13,100.0 9,957.5 12,617.0 9,442.3 88.9 88.2 62.59 -776.7 3,137.9 1,117.0 957.2 159.78 6.991 13,200.0 9,962.2 12,718.0 9,445.7 91.2 90.5 62.53 -776.4 3,238.9 1,117.9 954.1 163.79 6.825 13,300.0 9,966.9 12,819.0 9,449.1 93.4 92.7 62.47 -775.9 3,339.8 1,118.6 950.8 167.81 6.666 13,400.0 9,971.6 12,919.7 9,452.3 95.7 95.0 62.40 -775.2 3,440.5 1,119.3 947.5 171.82 6.514 13,500.0 9,976.3 13,019.7 9,455.5 98.0 97.3 62.33 -774.5 3,540.4 1,120.0 944.1 176.82 6.370 13,600.0 9,981.0 13,119.7 9,458.7 100.3 99.6 62.26 -773.8 3															
13,100.0 9,957.5 12,617.0 9,442.3 88.9 88.2 62,59 -776.7 3,137.9 1,117.0 957.2 159.78 6,991 13,200.0 9,962.2 12,718.0 9,445.7 91.2 90.5 62,53 -776.4 3,238.9 1,117.9 954.1 163.79 6.825 13,300.0 9,966.9 12,819.0 9,449.1 93.4 92.7 62.47 -775.9 3,339.8 1,1118.6 950.8 167.81 6,666 13,400.0 9,971.6 12,919.7 9,452.3 95.7 95.0 62.40 -775.2 3,440.5 1,119.3 947.5 171.82 6.514 13,500.0 9,976.3 13,019.7 9,455.5 98.0 97.3 62.33 -774.5 3,540.4 1,120.0 944.1 175.82 6.370 13,600.0 9,981.0 13,119.7 9,458.7 100.3 99.6 62.26 -773.8 3,640.3 1,120.6 940.8 179.84 6.231 13,700.0 9,985.7 13,219.7 9,461.9 102.6 101.9 62.19 -773.1 <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<>															
13,200.0 9,962.2 12,718.0 9,445.7 91.2 90.5 62.53 -776.4 3,238.9 1,117.9 954.1 163.79 6.825 13,300.0 9,966.9 12,819.0 9,449.1 93.4 92.7 62.47 -775.9 3,339.8 1,118.6 950.8 167.81 6,666 13,400.0 9,971.6 12,919.7 9,452.3 95.7 95.0 62.40 -775.2 3,440.5 1,119.3 947.5 171.82 6.514 13,500.0 9,976.3 13,019.7 9,455.5 98.0 97.3 62.33 -774.5 3,540.4 1,120.0 944.1 175.82 6.370 13,600.0 9,981.0 13,119.7 9,465.7 100.3 99.6 62.26 -773.8 3,640.3 1,120.6 940.8 179.84 6.231 13,700.0 9,985.7 13,219.7 9,461.9 102.6 101.9 62.19 -773.1 3,740.3 1,121.3 937.4 183.87 6,098 13,800.0 9,990.4 13,319.7 9,465.1 104.9 104.2 62.12 -772.4 <															
13,300.0 9,966.9 12,819.0 9,449.1 93.4 92.7 62.47 -775.9 3,339.8 1,118.6 950.8 167.81 6,666 13,400.0 9,971.6 12,919.7 9,452.3 95.7 95.0 62.40 -775.2 3,440.5 1,119.3 947.5 171.82 6,514 13,500.0 9,976.3 13,019.7 9,455.5 98.0 97.3 62.33 -774.5 3,540.4 1,120.0 944.1 175.82 6,370 13,600.0 9,981.0 13,119.7 9,458.7 100.3 99.6 62.26 -773.8 3,640.3 1,120.6 940.8 179.84 6.231 13,700.0 9,985.7 13,219.7 9,461.9 102.6 101.9 62.19 -773.1 3,740.3 1,121.3 937.4 183.87 6.098 13,800.0 9,990.4 13,319.7 9,465.1 104.9 104.2 62.12 -772.4 3,840.2 1,121.9 934.0 187.90 5,971 13,900.0 9,995.2 13,419.7 9,468.3 107.2 106.5 62.05 -771.7	13,200.0	9,962.2	12,718.0	9,445.7	91.2	90.5	62.53				954,1	163.79	6.825		
13,400.0 9,971.6 12,919.7 9,452.3 95.7 95.0 62.40 -775.2 3,440.5 1,119.3 947.5 171.82 6.514 13,500.0 9,976.3 13,019.7 9,455.5 98.0 97.3 62.33 -774.5 3,540.4 1,120.0 944.1 175.82 6.370 13,600.0 9,981.0 13,119.7 9,458.7 100.3 99.6 62.26 -773.8 3,640.3 1,120.6 940.8 179.84 6.231 13,700.0 9,985.7 13,219.7 9,461.9 102.6 101.9 62.19 -773.1 3,740.3 1,121.3 937.4 183.87 6.098 13,800.0 9,990.4 13,319.7 9,465.1 104.9 104.2 62.12 -772.4 3,840.2 1,121.9 934.0 187.90 5,971 13,900.0 9,995.2 13,419.7 9,468.3 107.2 106.5 62.05 -771.7 3,940.1 1,122.6 930.6 191.94 5.849 14,000.0 10,904.6 13,619.7 9,474.7 111.9 111.2 61.91 -770.3															
13,500.0 9,976.3 13,019.7 9,455.5 98.0 97.3 62.33 -774.5 3,540.4 1,120.0 944.1 175.82 6.370 13,600.0 9,981.0 13,119.7 9,458.7 100.3 99.6 62.26 -773.8 3,640.3 1,120.6 940.8 179.84 6.231 13,700.0 9,985.7 13,219.7 9,461.9 102.6 101.9 62.19 -773.1 3,740.3 1,121.3 937.4 183.87 6.098 13,800.0 9,990.4 13,319.7 9,465.1 104.9 104.2 62.12 -772.4 3,840.2 1,121.9 934.0 187.90 5.971 13,900.0 9,995.2 13,419.7 9,468.3 107.2 106.5 62.05 -771.7 3,940.1 1,122.6 930.6 191.94 5.849 14,000.0 9,999.9 13,519.7 9,471.5 109.5 108.9 61.98 -771.0 4,040.1 1,123.9 927.3 195.98 5.731 14,100.0 10,004.6 13,619.7 9,474.7 111.9 111.2 61.91 -770.3															
13,600.0 9,981.0 13,119.7 9,458.7 100.3 99.6 62.26 -773.8 3,640.3 1,120.6 940.8 179.84 6.231 13,700.0 9,985.7 13,219.7 9,461.9 102.6 101.9 62.19 -773.1 3,740.3 1,121.3 937.4 183.87 6.098 13,800.0 9,990.4 13,319.7 9,465.1 104.9 104.2 62.12 -772.4 3,840.2 1,121.9 934.0 187.90 5.971 13,900.0 9,995.2 13,419.7 9,468.3 107.2 106.5 62.05 -771.7 3,940.1 1,122.6 930.6 191.94 5.849 14,000.0 9,999.9 13,519.7 9,471.5 109.5 108.9 61.98 -771.0 4,040.1 1,123.3 927.3 195.98 5.731 14,100.0 10,004.6 13,619.7 9,474.7 111.9 111.2 61.91 -770.3 4,140.0 1,123.9 923.9 200.03 5.619															
13,800.0 9,990.4 13,319.7 9,465.1 104.9 104.2 62.12 -772.4 3,840.2 1,121.9 934.0 187.90 5,971 13,900.0 9,995.2 13,419.7 9,468.3 107.2 106.5 62.05 -771.7 3,940.1 1,122.6 930.6 191.94 5.849 14,000.0 9,999.9 13,519.7 9,471.5 109.5 108.9 61.98 -771.0 4,040.1 1,123.3 927.3 195.98 5.731 14,100.0 10,004.6 13,619.7 9,474.7 111.9 111.2 61.91 -770.3 4,140.0 1,123.9 923.9 200.03 5.619															
13,900.0 9,995.2 13,419.7 9,468.3 107.2 106.5 62.05 -771.7 3,940.1 1,122.6 930.6 191.94 5.849 14,000.0 9,999.9 13,519.7 9,471.5 109.5 108.9 61.98 -771.0 4,040.1 1,123.3 927.3 195.98 5.731 14,100.0 10,004.6 13,619.7 9,474.7 111.9 111.2 61.91 -770.3 4,140.0 1,123.9 923.9 200.03 5.619	13,700.0	9,985.7	13,219.7	9,461.9	102.6	101.9	62.19	-773.1	3,740.3	1,121.3	937.4	183.87	6.098		
14,000.0 9,999.9 13,519.7 9,471.5 109.5 108.9 61.98 -771.0 4,040.1 1,123.3 927.3 195.98 5.731 14,100.0 10,004.6 13,619.7 9,474.7 111.9 111.2 61.91 -770.3 4,140.0 1,123.9 923.9 200.03 5,619				9,465.1							934.0				
14,100.0 10,004.6 13,619.7 9,474.7 111.9 111.2 61.91 -770.3 4,140.0 1,123.9 923.9 200.03 5.619	13,900.0	9,995.2	13,419.7	9,468.3	107.2	106.5	62.05	-771.7	3,940.1	1,122.6	930.6	191.94	5.849		
	14,000.0	9,999.9	13,519.7	9,471.5	109.5	108.9	61.98	- 771.0	4,040.1	1,123.3	927.3	195.98	5.731		
	14,100.0	10,004.6	13,619.7	9,474.7	111.9	111.2	61.91	-770.3	4,140.0	1,123.9	923.9	200.03	5.619		
14,200.0 10,009.3 13,719.7 9,477.9 114.2 113.5 61.84 -769.6 4,240.0 1,124.6 920.5 204.09 5.510	14,200.0	10,009.3	13,719.7	9,477.9	114.2	113.5	61.84	- 769.6	4,240.0	1,124.6	920.5	204.09	5.510		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

North Reference: Grid
Survey Calculation Method: Minimum Curvature

Well Barry Miller State Com #221H

KB @ 3113.5usft

KB @ 3113.5usft

Output errors are at 2.00 sigma

 Database:
 EDM 5000.14 Server

 Offset TVD Reference:
 Offset Datum

Offset De Survey Prog	_		iller - Bar	ry Miller Sta	te Com #	202H - Well	lbore #1 - Stat	e Plan #1					Offset Site Error: Offset Well Error:	0.0 u: 0.0 u:
Refer		Offse	et	Semi Major	Axis				Dista	ince			Oliset Well Ellor.	0.0 0.
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,300.0	10,014.0	13,819.6	9,481.1	116.5	115.8	61.78	-768.9	4,339.9	1,125.2	917.1	208.14	5.406		
14,400.0	10,018.7	13,919.6	9,484.3	118.9	118.2	61.71	-768.2	4,439.8	1,125.9	913.7	212.21	5.306		
14,500.0	10,023.4	14,019.6	9,487.5	121.2	120.5	61.64	-767.6	4,539.8	1,126.6	910.3	216.27	5.209		
14,600.0	10,028.1	14,119.6	9,490.7	123.6	122.9	61.57	-766.9	4,639.7	1,127.3	906.9	220.34	5.116		
14,700.0	10,032.8	14,219.6	9,493.9	125.9	125.2	61.50	-766.2	4,739.6	1,127.9	903.5	224.40	5.026		
14,800.0	10,037.6	14,319.6	9,497.1	128.3	127.6	61.43	-765.5	4,839.6	1,128.6	900.1	228.47	4.940		
14,900.0	10,042.3	14,419.6	9,500.3	130.7	129.9	61.36	-764.8	4,939.5	1,129.3	896.7	232.55	4.856		
15,000.0	10,047.0	14,519.6	9,503.4	133.0	132.3	61.29	-764.1	5,039.4	1,130.0	893.4	236.62	4.776		
15,100.0	10,051.7	14,619.6	9,506.6	135.4	134.7	61.22	-763.4	5,139.4	1,130.7	890.0	240.69	4.698		
15,200.0	10,056.4	14,719.5	9,509.8	137.8	137.0	61.15	-762.7	5,239.3	1,131.3	886.6	244.76	4.622		
15,300.0	10,061.1	14,819.5	9,513.0	140.1	139.4	61.08	-762.0	5,339.2	1,132.0	883.2	248.84	4.549		
15,400.0	10,065.8	14,919.5	9,516.2	142.5	141.8	61.02	-761.3	5,439.2	1,132.7	879.8	252.91	4.479		
15,500.0	10,070.5	15,019.5	9,519.4	144.9	144.1	60.95	-760.6	5,539.1	1,133.4	876.4	256.98	4.410		
15,600.0	10,075.3	15,119.5	9,522.6	147.3	146.5	60.88	-759.9	5,639.0	1,134.1	873.0	261.05	4.344		
15,700.0	10,080.0	15,219.5	9,525.8	149.7	148.9	60.81	-759.2	5,739.0	1,134.8	869.7	265.12	4.280		
15,800.0	10,084.7	15,319.5	9,529.0	152.0	151.3	60.74	-758.5	5,838.9	1,135.5	866.3	269.19	4.218		
15,900.0	10,089.4	15,419.5	9,532.2	154.4	153.7	60.67	-757.8	5,938.8	1,136.2	862.9	273.26	4.158		
16,000.0	10,094.1	15,519.4	9,535.4	156.8	156.0	60.61	-757.1	6,038.8	1,136.9	859.5	277.32	4.099		
16,100.0	10,098.8	15,619.4	9,538.6	159.2	158.4	60.54	-756.4	6,138.7	1,137.5	856.2	281.39	4.043		
16,200.0	10,103.5	15,719.4	9,541.8	161.6	160.8	60.47	-755.7	6,238.7	1,138.2	852.8	285.45	3.988		
16,300.0	10,108.2	15,819.4	9,545.0	164.0	163.2	60.40	-755.1	6,338.6	1,138.9	849.4	289.51	3.934		
16,400.0	10,113.0	15,919.4	9,548.2	166.4	165.6	60.34	-754.4	6,438.5	1,139.7	846.1	293.57	3.882		
16,500.0	10,117.7	16,019.4	9,551.4	168.8	168.0	60.27	-753.7	6,538.5	1,140.4	842.7	297.62	3.832		
16,600.0	10,122.4	16,119.4	9,554.6	171.2	170.4	60.20	-753.0	6,638.4	1,141.1	839.4	301.68	3.782		
16,700.0	10,127.1	16,219.4	9,557.8	173.6	172.8	60.13	-752.3	6,738.3	1,141.8	836.0	305.73	3.735		
16,800.0	10,131.8	16,319.4	9,561.0	176.0	175.2	60.07	-751.6	6,838.3	1,142.5	832.7	309.77	3,688		
16,900.0	10,136.5	16,419.3	9,564.2	178.4	177.6	60.00	-750.9	6,938.2	1,143.2	829.4	313.82	3,643		
17,000.0	10,141.2	16,519.3	9,567.4	180.8	180.0	59.93	-750.2	7,038.1	1,143.9	826.0	317.86	3.599		
17,100.0	10,145.9	16,619.3	9,570.6	183.2	182.4	59.86	-749.5	7,138.1	1,144.6	822.7	321.90	3.556		
17,200.0	10,150.7	16,711.6	9,573.5	185.6	184.6	59.80	-748.9	7,230.3	1,145.3	819.5	325.81	3.515		
17,218.0	10,151.5	16,711.6	9,573.5	186.1	184.6	59.80	-748.9	7,230.3	1,145.7	819.5	326.19	3.512 S	=	
17,218.7	10,151.5	16,711.6	9,573.5	186.1	184.6	59.80	-748.9	7,230.3	1,145.8	819.6	326.19	3.513		

0.0 usft

Offset Site Error:

Anticollision Report

Barry Miller - Barry Miller State Com #222H - Wellbore #1 - BLM Plan #1

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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

Offset Design

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method: Minimum Curvature

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Output errors are at 2.00 sigma
Database: EDM 5000.

 Database:
 EDM 5000.14 Server

 Offset TVD Reference:
 Offset Datum

IIIIIII Dan	ram. 0 14	WD.												
urvey Progr Refer		VU Offse	. •	Semi Major	Avie				Dista	nce			Offset Well Error:	0.0 us
Refer Neasured	ence Vertical	Measured	vertical	Reference	Offset	Highside	Offset Wellbore	Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	Kelelelice	Oliset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	vvarning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	30.0	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.00	0.0	30.0	30.0	29.7	0.26	117.057		
200.0	200.0	200.0	200.0	0.5	0.5	90.00	0.0	30.0	30.0	29.0	0.97	30.827		
300.0	300.0	300.0	300.0	0.8	0.8	90.00	0.0	30.0	30.0	28.3	1.69	17.751		
400.0	400.0	400.0	400.0	1.2	1.2	90.00	0.0	30.0	30.0	27.6	2.41	12.464		
500.0	500.0	500.0	500.0	1.6	1.6	90.00	0.0	30.0	30.0	26.9	3.12	9.604		
600.0	600.0	600.0	600.0	1.9	1.9	90.00	0.0	30.0	30.0	26.2	3.84	7.811		
700.0	700.0	700.0	700.0	2.3	2.3	90.00	0.0	30.0	30.0	25.4	4.56	6.582		
0.008	800.0	800.0	800.0	2.6	2.6	90.00	0.0	30.0	30.0	24.7	5.27	5.688		
900.0	900.0	900.0	900.0	3.0	3.0	90.00	0.0	30.0	30.0	24.0	5.99	5.007		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	90.00	0.0	30.0	30.0	23.3	6.71	4.472		
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	90.00	0.0	30.0	30.0	22.6	7.43	4.040		
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	90.00	0.0	30.0	30.0	21.9	8.14	3.685		
1,300.0	1,300.0	1,300.2	1,300.2	4.4	4.4	91.59	-0.8	29.7	29.7	20.9	8.84	3.360		
1,400.0	1,400.0	1,400.3	1,400.2	4.8	4.7	96.51	-3.3	28.8	29.0	19.5	9.53	3.043		
1,500.0	1,500.0	1,500.3	1,500.1	5.1	5.1	105.14	-7.4	27.3	28.3	18.1	10.22	2.769		
1,516.9	1,516.9	1,517.2	1,517.0	5.2	5.1	169.95	-8.2	27.0	28.3	17.9	10.34	2.734 CC	, ES	
1,600.0	1,600.0	1,600.1	1,599.7	5.5	5.4	-179.58	-13.1	25.2	29.3	18.4	10.91	2.686 SF		
1,700.0	1,700.0	1,699.5	1,698.9	5.9	5.8	-166.37	- 20.5	22.6	33.8	22.2	11,60	2.918		
1,800.0	1,799.9	1,798.7	1,797.6	6.2	6.1	-155.57	-29.4	19.3	42.2	29.9	12.28	3.437		
1,900.0	1,899.7	1,897.3	1,895.5	6.6	6.4	-148.00	-39.8	15.5	54.1	41.2	12.97	4.174		
2,000.0	1,999.4	1,995.3	1,992.7	6.9	6.8	-143.01	-51.8	11.1	69.2	55.5	13.65	5.068		
2,100.0	2,098.9	2,092.6	2,089.0	7.3	7.2	-139.74	-65.2	6.3	87.1	72.8	14.33	6.078		
2,200.0	2,198.3	2,189.2	2,184.3	7.6	7.5	-137.57	-80.0	0.9	107.7	92.7	15.01	7.176		
2,300.0	2,190.3	2,109.2	2,104.3	8.0	7.9	-136.11	-96.3	-5.0	130.9	115.2	15.70	8.338		
2,400.0	2,396.4	2,382.2	2,374.0	8.4	8.3	-135.29	-113.2	-11.2	155.1	138.7	16.41	9.452		
2, 100.0	2,000.1	2,002.2	2,071.0	٠.٠	0,0	100.20	110,2			100.1		0,102		
2,500.0	2,495.5	2,479.2	2,469.3	8.8	8.7	-134.69	-130.1	-17.4	179.4	162.3	17.14	10.470		
2,600.0	2,594.5	2,576.1	2,564.6	9.2	9.1	-134.23	-147.0	-23.5	203.7	185.9	17.87	11.403		
2,700.0	2,693.5	2,673.1	2,659.9	9.5	9.5	-133.87	-163.9	-29.7	228.1	209.4	18.60	12.259		
2,800.0	2,792.5	2,770.1	2,755.2	9.9	9.9	-133.58	-180.8	-35.8	252.4	233.0	19.34	13.048		
2,900.0	2,891.6	2,867.1	2,850.5	10.3	10.3	-133.34	-197.7	-42.0	276.7	256.6	20.09	13.776		
2 000 0	2 000 0	0.004.4	2.045.0	10.7	40.0	122.11	2446	40.0	204.0	200.0	20.02	44.450		
3,000.0	2,990.6	2,964.1	2,945.8	10.7	10.8	-133.14	-214.6	-48.2	301.0	280.2	20.83	14.450		
3,100.0	3,089.6	3,061.1	3,041.2	11.1	11.2	-132.97	-231.6	-54.3	325.4	303.8	21.58	15.075 15.657		
3,200.0	3,188.6	3,158.1	3,136.5	11.5	11.6	-132.82 132.60	-248.5	-60.5	349.7	327.4	22.34	15,657		
3,300.0	3,287.7	3,255.1	3,231.8	11.9	12.0	-132.69	-265.4	-66.6	374.0	350.9	23.09	16.198		
3,400.0	3,386.7	3,352.1	3,327.1	12.3	12.5	-132.58	-282.3	- 72.8	398.4	374.5	23.85	16.704		
3,500.0	3,485.7	3,449.1	3,422.4	12.7	12.9	-132.48	-299.2	-78.9	422.7	398.1	24.61	17.177		
3,600.0	3,584.8	3,546.1	3,517.7	13.1	13.3	-132.39	-316.1	-85.1	447.0	421.7	25.37	17.621		
3,700.0	3,683.8	3,643.0	3,613.0	13.5	13.8	-132.31	-333.0	-91.3	471.4	445.3	26.13	18.038		
3,800.0	3,782.8	3,740.0	3,708.3	13.9	14.2	-132.24	-349.9	-97.4	495.7	468.8	26.90	18.430		
3,900.0	3,881.8	3,837.0	3,803.6	14.4	14.6	-132.18	-366.8	-103.6	520.1	492.4	27.67	18.799		
4,000.0	3,980.9	3,934.0	3,898.9	14.8	15.1	-132.12	-383.8	-109.7	544.4	516.0	28.43	19.147		
4,100.0	4,079.9	4,031.0	3,994.2	15.2	15.5	-132.06	-400.7	-115.9	568.8	539.6	29,20	19.476		
4,200.0	4,178.9	4,128.0	4,089.5	15.6	15.9	-132.01	-417.6	-122.0	593.1	563.1	29.97	19.788		
4,300.0	4,277.9	4,225.0	4,184.8	16.0	16.4	-131.97	-434.5	- 128.2	617.4	586.7	30.74	20.083		
4,400.0	4,377.0	4,322.0	4,280.1	16.4	16.8	-131.92	-451.4	-134.4	641.8	610.3	31.52	20.364		
4 500 0	4 476 0	4 440 0	A 275 A	16.0	47.0	121 00	460.2	140 F	666.4	622.0	22.20	20.620		
4,500.0	4,476.0	4,419.0	4,375.4	16.8	17.3	-131.89 -131.85	-468.3	-140.5	666.1	633.8	32.29	20.630		
4,600.0	4,575.0	4,516.0	4,470.7	17.2	17.7	-131.85	-485.2	-146.7	690.5	657.4	33.06	20.883		
4,698.1	4,672.2	4,611.1	4,564.2	17.6	18.1	-131.82	-501.8	-152.7	714.4	680.5	33.82	21.120		
4,700.0	4,674.0	4,612.9	4,566.0	17.6	18.1	-131.82 131.09	-502.1	-152.8 150.0	714.8	681.0	33.84	21.125		
4,800.0	4,773.3	4,710.1	4,661.6	18.0	18.6	-131.98	-519.1	-159.0	738.3	703.7	34.61	21.332		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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 Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.14 Server

Offset Datum

No. Professional Profession	Offset De	sign	Barry M	iller - Bar	ry Miller Sta	te Com #	222H - Well	bore #1 - BLIV	l Plan #1					Offset Site Error:	0.0 usft
	Survey Prog	ram: 0-M	WD											Offset Well Error:	0.0 usft
							Lliabaida	Officet Wallbar	o Contro			Minimum	Congretion		
	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		Warning	
Section Sect	5.000.0	4.972.5	4.905.5	4.853.5	18.8	19.5	-131.81			780.1	744.0	36.12	21,599		
\$2,000 \$7,723 \$7,017 \$0,084 \$19.3 \$20.4 \$-19.07 \$-															
5231.6 5263.6 5132.6 5076.7 1909 205 196.14 498.6 -901.6															
5,000 5,773 5,000 5,142,0 10,01 10,01 10,02 10,03 10															
Section 1972 Section 1972 Section 1973 Section 1974 1986 1976 1986 1976 1986 1987 1986 1987 1986 1987 1988 19															
5,000 5,77.3 5,000 5,001 1,002 5,001 12,02 10,001 -5,003 -5,003 -5,003 5,003 5,001 12,003 -5,003															
5/100 5/723 5/808 6/808 <th< td=""><td>5,500.0</td><td>5,472.3</td><td>5,403.5</td><td>5,336.0</td><td>20.5</td><td>21.8</td><td>167.97</td><td>-638.8</td><td>-202.6</td><td>862.3</td><td>822.6</td><td>39.75</td><td>21.691</td><td></td><td></td></th<>	5,500.0	5,472.3	5,403.5	5,336.0	20.5	21.8	167.97	-638.8	-202.6	862.3	822.6	39.75	21.691		
8,800,0 6,772,3 5,786,7 5,822,7 21,5 22,2 18,82 -690,2 -21,33 910,2 683,3 41,93 21,707 6,000,0 5,072,3 6,887,8 5,818,8 22,2 24,0 170,96 -724,4 -23,8 942,0 180,3 41,00 21,775 6,000,0 5,072,3 6,001,1 5,918,4 22,5 24,0 171,40 -741,4 -23,8 942,0 180,3 41,00 21,103 6,000,0 6,772,3 6,002,0	5,600.0	5,572.3	5,505.2	5,432.6	20.8	22.2	168.61	-655.9	-208.8	878.2	837.7	40.48	21.694		
5,000 6,072,3 5,786,6 5,722,2 21,8 23,6 170,40 -707,3 -227,5 928,4 883,8 42,58 21,77	5,700.0	5,672.3	5,606.9	5,529.1	21.2	22.7	169.23	-673.0	-215.1	894.2	852.9	41.21	21.699		
0.000	5,800.0	5,772.3	5,708.7	5,625.7	21.5	23.2	169.82	-690.2	-221.3	910.2	868.3	41.93	21.706		
6,000 6,072.3 6,984.1 5,915.4 22.5 24.5 171.49 -741.6 -74	5,900.0	5,872.3	5,789.6	5,722.2	21.8	23.6	170.40	- 707.3	- 227.5	926.4	883.8	42.58	21.757		
6.200.0 6.372.3 6.386.8 6.016.5 22.9 24.9 172.01 -758.7 -248.3 375.4 93.6 44.71 21.819 6.000.0 6.372.3 6.382.6 6.005.5 23.2 28.4 172.99 -783.0 -258.7 10.004 952.3 46.14 21.869 6.000.0 6.372.3 6.372.6 0.301.6 23.9 28.8 172.99 -783.0 -258.7 10.004 952.3 46.14 21.869 6.000.0 6.372.3 6.377.4 0.386.1 24.2 26.7 173.92 -427.3 277.1 21.041.7 978.4 46.85 21.378 6.000.0 6.372.3 6.377.7 6.386.1 24.2 26.7 173.92 -427.3 277.1 10.041.7 978.4 46.85 21.378 6.000.0 6.372.3 6.377.2 0.484.7 24.0 27.2 174.30 -544.4 -277.5 1.085.5 1.010.2 48.28 21.902 6.000.0 6.372.3 6.377.2 0.484.7 24.0 27.8 174.79 -961.5 283.7 10.78.3 1.002.4 48.28 21.902 6.000.0 6.372.3 6.372.2 0.887.8 25.2 28.1 173.20 -878.7 289.9 1.022.1 10.42.4 48.70 21.974 7.000.0 6.972.3 6.386.0 0.991.3 2.6 28.0 178.50 -878.7 289.9 1.022.1 10.42.4 48.70 21.974 7.000.0 6.372.3 6.387.5 6.880.9 25.9 21.0 178.50 -868.0 -860.5 1.002.1 10.05.0 10.74.9 51.13 22.025 7.200.0 7.722.3 6.866.3 6.800.9 25.9 21.0 178.50 -868.3 -800.1 10.05.0 10.74.9 51.13 22.025 7.200.0 7.722.3 7.865.3 7.704.0 26.8 29.9 178.37 -800.1 -800.5 1.143.1 1.001.2 51.04 22.050 7.700.0 7.722.3 7.865.3 7.704.0 26.8 29.9 178.37 -800.1 -800.5 1.143.1 1.001.2 51.04 22.050 7.700.0 7.722.3 7.865.3 7.704.0 26.8 29.9 177.0 27.0 27.0 28.0 28.0 1.001.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	6,000.0	5,972.3	5,887.8	5,818.8	22.2	24.0	170.95	-724.4	-233.8	942.6	899.3	43.29	21,775		
6.000.0 6.272.3 6.182.6	6,100.0	6,072.3	5,986.1	5,915.4	22.5	24.5	171.49	-741.6	- 240.0	958.9	914.9	44.00	21.793		
0.400, 0.872,3 0.280,9 0.285,0 0.285,0 23.5 25.8 172.99 -799.0 -266.7 1,009.4 902.3 40.14 21.850	6,200.0	6,172.3	6,084.4	6,011.9	22.9	24.9	172.01	-758.7	-246.3	975.4	930.6	44.71	21.813		
6,500.0 6,472.3 6,379.2 6,301.6 23.9 26.3 173.46 -810.1 -265.0 1025.0 978.2 46.85 21,878 6,600.0 8,572.3 6,677.4 6,388.1 24.2 26.7 173.92 -827.3 -271.2 10,41.7 594.1 7.45 21,902 6,000.0 8,772.3 6,674.0 6,581.3 24.6 27.6 1743.9 -841.5 -285.7 10,75.3 10,003.4 6,000.0 8,0072.3 6,674.0 6,581.3 24.9 27.6 174.79 -861.5 -285.7 10,75.3 10,003.4 4,699 21,900 6,000.0 8,072.3 6,870.5 6,878.2 25.2 28.1 176.20 -857.7 -280.9 1,002.1 10,42.4 40,70 21,9174 7,000.0 7,072.3 6,969.7 6,880.9 25.9 20.0 175.90 -412.9 -300.4 11,26.0 10,74.9 11,42.4 40,70 21,9174 7,000.0 7,072.3 6,969.7 6,880.9 25.9 20.0 175.90 -412.9 -300.4 11,26.0 10,74.9 15.13 22,005 7,000.0 7,272.3 7,000.0 6,975.9 26.3 26.5 1763.7 -390.1 -300.6 11,42.1 1,091.2 51.94 22,000 7,000.0 7,272.3 7,000.7 6,975.9 26.3 26.5 1763.7 -390.1 -300.6 11,42.1 1,091.2 51.94 22,000 7,000.0 7,272.3 7,000.7 7,100.0 2,072.3 7,100.0 2,072.3 7,100.0 2,072.3 30.8 177.79 -4942.2 -314.9 1,100.1 1,107.0 52.55 22,076 7,000.0 7,272.3 7,280.7 7,170.6 26.8 29.9 176.73 -4942.2 -314.9 1,100.1 1,107.0 52.55 22,076 7,000.0 7,272.3 7,381.8 7,287.1 27.3 30.8 177.74 -486.5 -327.4 1,194.4 1,140.4 53.98 22,152 7,000.0	6,300.0	6,272.3	6,182.6	6,108.5	23.2	25.4	172.51	-775.8	-252.5	991.8	946.4	45.43	21.834		
6,800.0 6,872,3 6,477,4 6,388,1 24,2 26,7 173,92 -827,3 -271,2 1,041,7 994,1 47,56 21,902 6,000.0 6,772,3 6,876,0 6,861,3 24,9 27,6 174,79 -861,5 -283,7 1,075,3 1,002,4 48,90 21,960 6,900.0 6,872,3 6,876,5 6,784,4 25,6 28,6 175,90 -861,5 -283,7 1,076,3 1,002,4 48,70 21,974 7,000.0 6,972,3 6,876,5 6,889,8 25,8 28,6 175,80 -895,8 -286,2 1,102,0 1,074,4 48,70 21,999 7,000.0 7,072,3 6,868,7 6,809,9 25,9 28,0 175,99 -91,29 -302,4 1,105,0 1,074,8 54,11 21,999 7,200.0 7,272,3 7,600,0 6,872,3 28,5 176,73 -847,2 -34,84 1,160,0 1,074,4 4,160,0 1,172,2 1,241,4 4,245,6 1,247,4	6,400.0	6,372.3	6,280.9	6,205.0	23.5	25.8	172.99	-793.0	-258.7	1,008.4	962.3	46.14	21.856		
6700, 6772, 8 6757, 6 4047, 24,6 27,2 174.98 -944.4 - 277.5 10.88.5 1.010.2 48.28 21.925 6.800.0 6.772.3 6.772, 8 674.0 6.591.3 2.99 27.6 174.79 -861.5 -263.7 10.72 10.000.0 6.772.3 6.870.5 6.870.5 8.74.4 2.6.6 28.6 175.20 -878.7 -268.9 10.92.1 10.42.4 49.70 21.974 7.000.0 6.972.3 6.870.5 8.74.4 2.6.6 28.6 175.20 -878.7 -268.9 10.92.1 10.42.4 49.70 21.974 7.000.0 7.072.3 6.880.9 2.59 29.0 175.99 -412.9 -801.5 10.000.0 10.74.9 6.51.3 2.0265 7.200.0 7.72.3 7.067.0 8.870.5 26.3 29.5 176.37 -800.1 -808.6 1.43.1 10.91.2 51.34 22.050 7.200.0 7.272.3 7.067.0 8.77.6 26.3 29.5 176.37 -800.1 -808.6 1.143.1 10.91.2 51.34 22.050 7.200.0 7.272.3 7.165.3 7.074.0 26.6 29.9 175.99 -841.3 -801.1 10.000.0 7.272.3 7.273.3 7.200.5 7.710.0 7.700.0 7.727.3 7.200.0 7.272.3 7.200.3 7.700.0 7.270.3 8.700.0 7.270.3 8.700.0 7.270.3 8.700.0 7.272.3 7.200.3 7.700.0 7.270.3 8.700.0 7.270.3 8.700.0 7.272.3 7.200.3 7.700.0 7.270.3 7.200.0 7.272.3 7.200.3 7.200.3 7.200.0 7.272.3 7.200.0 7.200.0 7.272.3 7.200.0 7.200.0 7.272.3 7.200.0 7.200.0 7.272.3 7.200.0 7.200.0 7.272.3 7.200.0 7.200	6,500.0	6,472.3	6,379.2	6,301.6	23.9	26.3	173.46	-810.1	-265.0	1,025.0	978.2	46.85	21.878		
6,800.0 6,772.3 6,674.0 6,651.3 24,9 27,6 17,479 -881.5 -283.7 1075.3 1026.3 48,99 21,959 7,000.0 6,972.3 6,870.5 6,887.8 28.6 175.00 -898.8 -266.2 11,004.1 10,987.7 50.41 21,999 7,000.0 7,072.3 6,898.7 6,878.8 28.6 28.6 175.99 -901.9 -302.4 1,126.0 1,044.4 9.6 22.95 7.700.0 7.707.3 7.007.0 6,877.8 30.8 29.6 178.73 -990.1 1,100.1 1,109.1 1,109.1 1,107.6 95.2 22.05 7.000.0 7.272.3 7,107.6 8.6 29.9 178.73 -990.1 1,110.1 1,107.6 92.5 22.076 7,400.0 7,372.3 7,283.3 7,170.8 27.0 30.4 177.79 -964.3 -327.4 1,194.1 1,140.4 53.8 22.107 2,000.0 7,572.3 7,583.3 7,267.1 27.3 30.8 177.74	6,600.0	6,572.3	6,477.4	6,398.1	24.2	26.7	173.92	-827.3	-271.2	1,041.7	994.1	47.56	21,902		
6,900.0 6,972.3 6,772.2 6,887.8 25.2 28.1 175.20 -978.7 -289.9 1,092.1 1,042.4 49.70 21974 7,000.0 6,972.3 6,887.5 6,874.4 25.6 28.6 175.90 -912.9	6,700.0	6,672.3	6,575.7	6,494.7	24.6	27.2	174.36	-844.4	-277.5	1,058.5	1,010.2	48.28	21,925		
7,000.0 6,972.3 6,870.5 6,784.4 25.6 28.6 175.60 -895.8 -296.2 1,109.1 1,058.7 50.41 21,999 7,100.0 7,072.3 6,986.7 6,880.9 25.9 29.0 175.99 -902.0 1,126.0 1,126.0 1,143.1 1,001.2 51.84 22.025 7,200.0 7,172.3 7,070.0 8,975.5 28.5 29.9 176.73 -930.1 -308.6 1,143.1 1,001.2 51.84 22.050 7,400.0 7,372.3 7,685.3 7,074.0 26.6 29.9 176.73 -947.2 -314.9 1,160.1 1,107.8 52.25 22.076 7,500.0 7,472.3 7,885.3 7,697.1 27.3 30.8 177.44 -981.5 -327.4 1,140.4 53.98 22.127 7,500.0 7,672.3 7,580.3 7,480.1 7,589.3 7,470.3 28.0 31.8 1776.10 -1,015.7 -39.8 1,228.1 1,170.4 56.4 22.29	6,800.0	6,772.3	6,674.0	6,591.3	24.9	27.6	174.79	-861.5	-283.7	1,075.3	1,026.3	48.99	21.950		
7,100.7 7,723	6,900.0	6,872.3	6,772.2	6,687.8	25.2	28.1	175.20	-878.7	-289.9	1,092.1	1,042.4	49.70	21.974		
7,200.0 7,172.3 7,667.0 6,977.5 28.3 29.5 176,73 -990.1 -908.6 1,143.1 1,091.2 51,84 22,056 7,300.0 7,272.3 7,263.5 7,074.0 26.6 29.9 176,73 -947.2 -314.9 1,160.1 1,107.6 52,55 22,076 7,400.0 7,372.3 7,361.8 7,267.1 27.3 30.8 177.44 -981.5 -327.4 1,194.4 1,140.4 53,98 22,127 7,600.0 7,572.3 7,661.8 7,267.1 27.3 30.8 177.44 -981.5 -327.4 1,194.4 1,140.4 53,98 22,127 7,600.0 7,672.3 7,563.3 7,663.3 7,603.3 6,001.7 1,118.9 1,118.9 54.69 22,128 7,800.0 7,672.3 7,568.8 28.3 32.2 178.42 -1,050.0 -352.3 1,263.4 1,266.1 1,190.0 56.12 22.204 7,900.0 7,872.3 7,682.1 7,578.8	7,000.0	6,972.3	6,870.5	6,784.4	25.6	28.6	175.60	-895.8	-296.2	1,109.1	1,058.7	50.41	21.999		
7,300.0 7,272,3 7,165,3 7,074,0 26,6 29,9 176,73 -947.2 -944,9 1,160,1 1,107,6 52,55 2,2076 7,400.0 7,372,3 7,263,5 7,170,6 27,0 30,4 177,09 -984,3 -321,1 1,177,2 1,124,0 53,27 22,101 7,500.0 7,472,3 7,381,8 7,267,1 7,33,3 177,74 -981,5 -327,4 1,114,4 1,146,4 53,98 22,127 7,500.0 7,572,3 7,583,3 7,460,3 28.0 31.8 178,10 -1015,7 -339,8 1,228,8 1,173,4 55.41 22,178 7,500.0 7,672,3 7,568,8 28,0 31.8 178,10 -1050,0 -352,3 1,228,8 1,173,4 55.41 22,178 7,900.0 7,872,3 7,862,1 7,758,8 29,0 33,2 179,05 -1,088,6 -359,1 1,280,7 1,237,0 56,69 22,075 8,000.0 8,072,3 8,282,2 <	7,100.0	7,072.3	6,968.7	6,880.9	25.9	29.0	175.99	-912.9	-302.4	1,126.0	1,074.9	51.13	22.025		
7,400.0 7,372.3 7,361.8 7,267.1 27.3 30.4 177.99 -964.3 -321.1 1,177.2 1,124.0 53.27 22,101 7,500.0 7,472.3 7,361.8 7,267.1 27.3 30.8 177.44 -981.5 -327.4 1,194.4 1,140.4 53.98 22,127 7,500.0 7,572.3 7,460.1 7,363.7 27.7 31.3 177.77 -998.6 -333.5 1,211.6 1,156.9 54.69 22,152 7,700.0 7,672.3 7,563.3 7,460.3 28.0 31.8 178.10 -1,015.7 -338.6 1,221.6 1,156.9 54.69 22,152 7,800.0 7,772.3 7,566.8 7,556.8 28.3 32.2 178.42 -1,032.9 -346.1 1,246.1 1,190.0 56.12 22,204 7,900.0 7,872.3 7,754.8 7,653.4 28.7 32.7 178.72 -1,050.0 -352.3 1,263.4 1,206.6 56.84 22,229 8,000.0 7,972.3 8,064.4 7,901.2 29.4 33.8 179.42 -1,090.2 -367.0 1,285.7 1,237.0 58.89 22,075 8,200.0 8,172.3 8,152.2 8,046.0 29.7 34.4 179.69 -1,106.9 -373.1 1,307.1 1,247.4 59.69 21,899 8,300.0 8,372.3 8,447.0 8,340.1 30.4 35.4 179.98 -1,106.9 -373.1 1,307.1 1,247.4 59.69 21,899 8,400.0 8,372.3 8,447.0 8,340.1 30.4 35.4 179.98 -1,124.8 -379.6 1,319.2 1,257.8 61.44 21,472 8,500.0 8,472.3 8,679.3 8,472.3 30.8 35.8 180.00 -1,126.0 -380.0 1,320.1 1,257.9 62.17 21,235 8,600.0 8,672.3 8,679.3 8,772.3 31.1 36.1 180.00 -1,126.0 -380.0 1,320.1 1,257.2 62.83 21,011 8,700.0 8,672.3 8,679.3 8,772.3 31.5 36.4 180.00 -1,126.0 -380.0 1,320.1 1,257.2 62.83 21,011 8,700.0 8,672.3 8,679.3 8,772.3 31.5 36.4 180.00 -1,126.0 -380.0 1,320.1 1,257.2 62.83 21,011 8,700.0 8,672.3 8,679.3 8,672.3 31.5 36.4 180.00 -1,126.0 -380.0 1,320.1 1,255.9 64.15 20,578 8,800.0 8,772.3 8,879.3 8,772.3 31.5 36.4 180.00 -1,126.0 -380.0 1,320.1 1,255.9 64.15 20,578 8,900.0 8,772.3 9,779.3 8,672.3 31.5 36.4 180.00 -1,126.0 -380.0 1,320.1 1,255.9 64.15 20,578 8,900.0 8,772.3 9,779.3 8,672.3 31.5 36.4 180.00 -1,126.0 -380.0 1,320.1 1,255.9 64.15 20,578 8,900.0 8,772.3 9,779.3 8,672.3 32.5 37.2 180.00 -1,126.0 -380.0 1,320.1 1,255.9 64.15 20,578 8,900.0 9,722.3 9,749.3 9,772.3 33.5 38.0 180.00 -1,126.0 -380.0 1,320.1 1,255.9 64.15 20,578 8,900.0 9,722.3 9,749.3 9,772.3 33.5 38.0 180.00 -1,126.0 -380.0 1,320.1 1,255.9 66.14 19,957 9,000.0 9,722.3 9,749.4 9,322.1 33.7 38.2 90.42 -1,126.0	7,200.0	7,172.3	7,067.0	6,977.5	26.3	29.5	176.37	-930.1	-308.6	1,143.1	1,091.2	51.84	22.050		
7,500,0 7,472,3 7,381,8 7,267,1 27,3 30,8 177,44 -981,5 -327,4 1,194,4 1,140,4 63,98 22,127 7,600,0 7,572,3 7,460,1 7,363,7 27,7 31,3 177,77 -986,6 -333,6 1,211,6 1,156,9 54,89 22,152 7,000,0 7,572,3 7,565,6 7,565,8 28,3 32,2 178,40 -1,015,7 -339,8 1,228,8 1,173,4 55,41 22,178 7,900,0 7,572,3 7,565,6 7,565,8 28,3 32,7 178,72 -1,050,0 -352,3 1,286,4 1,296,6 564,4 22,204 7,900,0 7,572,3 7,665,6 7,556,8 28,3 32,7 178,72 -1,050,0 -352,3 1,286,4 1,296,6 564,4 22,229 8,000,0 7,572,3 7,662,1 7,758,8 29,0 33,2 179,6 -1,066,6 -359,1 1,286,7 1,237,1 56,6 56,8 22,205 8,0	7,300.0	7,272.3	7,165.3	7,074.0	26.6	29.9	176.73	-947.2	-314.9	1,160.1	1,107.6	52.55	22.076		
7,600.0 7,672.3 7,460.1 7,363.3 22.7 31.3 177.77 -998.6 -333.8 1,218.8 1,173.4 55.41 22.178 7,700.0 7,672.3 7,566.8 28.3 32.2 178.42 -1,05.7 -339.8 1,228.8 1,173.4 55.41 22.178 7,800.0 7,772.3 7,566.6 28.3 32.2 178.42 -1,050.0 -352.3 1,268.4 1,173.4 55.41 22.204 8,000.0 7,972.3 7,568.8 29.0 33.2 179.05 -1,068.6 -359.1 1,280.7 1,223.1 57.63 22.224 8,100.0 8,072.3 8,006.4 7,901.2 29.4 33.8 179.42 -1,089.0 -373.1 1,387.1 1,287.0 56.89 22.204 8,000.0 8,172.3 8,152.2 8,046.0 29.7 34.4 179.88 -1,118.5 -377.3 1,315.0 1,284.4 60.61 21.697 8,000.0 8,672.3 8,579.3 8,472.3 <	7,400.0	7,372.3	7,263.5	7,170.6	27.0	30.4	177.09	-964.3	-321.1	1,177.2	1,124.0	53.27	22,101		
7,700.0 7,672.3 7,558.3 7,460.3 28.0 31.8 178.10 -1,015.7 -339.8 1,228.8 1,173.4 55.41 22,178 7,800.0 7,772.3 7,656.6 7,556.8 28.3 32.2 178.42 -1,030.9 -34.1 1,246.1 1,190.0 56,12 22,229 8,000.0 7,972.3 7,862.1 7,758.8 29.0 33.2 179.05 -1,068.6 -359.1 1,260.7 1,223.1 57.63 22,224 8,000.0 8,072.3 8,066.4 7,901.2 29.4 33.8 179.42 -1,060.2 -367.0 1,285.7 1,237.0 58.69 22,075 8,000.0 8,772.3 8,152.2 8,040.0 29.7 34.4 179.69 -1,106.9 -373.1 1,307.1 1,247.4 59.69 21,899 8,300.0 8,372.3 8,447.0 8,340.1 30.4 35.8 180.00 -1,126.0 -380.0 1,320.1 1,257.8 61.44 21.472 8,500.0	7,500.0	7,472.3	7,361.8	7,267.1	27.3	30.8	177.44	-981.5	-327.4	1,194.4	1,140.4	53.98	22.127		
7,800.0 7,772.3 7,656.6 7,556.8 28.3 32.2 178.42 -1,032.9 -346.1 1,246.1 1,190.0 56.12 22,204 7,900.0 7,872.3 7,764.8 7,653.4 28.7 32.7 178.72 -1,050.0 -352.3 1,263.4 1,206.6 56.84 22,229 8,000.0 7,972.3 7,662.1 7,758.8 29.0 33.2 178.05 -1,068.6 -359.1 1,280.7 1,237.0 56.69 22,2075 8,000.0 8,172.3 8,066.4 7,901.2 29.4 33.8 178.42 -1,06.9 -373.1 1,307.1 1,247.4 59.69 21,899 8,000.0 8,172.3 8,192.5 30.1 34.9 179.88 -1,124.8 -377.3 1,315.0 1,254.4 60.61 21,697 8,000.0 8,472.3 8,473.3 30.8 35.8 180.00 -1,126.0 -380.0 1,320.1 1,257.8 62.17 21,235 8,000.0 8,672.3 8,779.3	7,600.0	7,572.3	7,460.1	7,363.7	27.7	31.3	177.77	-998.6	-333.6	1,211.6	1,156.9	54.69	22.152		
7,900.0 7,872.3 7,754.8 7,653.4 28.7 32.7 178.72 -1,050.0 -352.3 1,263.4 1,206.6 56,84 22,229 8,000.0 7,972.3 7,862.1 7,758.8 29.0 33.2 179.05 -1,068.6 -359.1 1,223.1 57.63 22,224 8,100.0 8,072.3 8,006.4 7,901.2 29.4 33.8 179.42 -1,069.9 -373.1 1,307.1 1,247.4 59.69 22,075 8,200.0 8,172.3 8,192.5 30.1 34.9 179.68 -1,118.5 -377.3 1,316.0 1,254.4 60.61 21.697 8,400.0 8,372.3 8,470.0 8,340.1 30.4 35.4 179.98 -1,124.8 -379.6 1,319.2 1,257.8 61.44 21.472 8,500.0 8,472.3 8,579.3 30.8 35.8 180.00 -1,126.0 -380.0 1,320.1 1,257.9 62.17 21.235 8,600.0 8,772.3 8,793.3 8,672.3	7,700.0	7,672.3	7,558.3	7,460.3	28.0	31.8	178.10	-1,015.7	-339.8	1,228.8	1,173.4	55.41	22.178		
8,000,0 7,972,3 7,862,1 7,758,8 29,0 33,2 179,05 -1,068,6 -369,1 1,280,7 1,223,1 57,63 22,224 8,100,0 8,072,3 8,066,4 7,901,2 29,4 33,8 179,42 -1,090,2 -367,0 1,295,7 1,237,0 58,69 22,075 8,000,0 8,172,3 8,192,2 8,046,0 29,7 34,4 179,69 -1,106,9 -373,1 1,307,1 1,247,4 59,69 21,899 8,300,0 8,272,3 8,299,3 8,192,5 30,1 34,9 179,88 -1,1124,8 -379,6 1,315,0 1,254,4 60,61 21,697 8,000,0 8,372,3 8,472,3 30,8 35,8 180,00 -1,126,0 -360,0 1,320,1 1,257,9 62,17 21,235 8,600,0 8,572,3 8,672,3 31,5 36,4 180,00 -1,126,0 -360,0 1,320,1 1,257,9 62,17 21,235 8,600,0 8,772,3 8,879,3	7,800.0	7,772.3	7,656.6	7,556.8	28.3	32.2	178.42	-1,032.9	-346.1	1,246.1	1,190.0	56.12	22.204		
8,100.0 8,072.3 8,006.4 7,901.2 29.4 33.8 179.42 -1,090.2 -367.0 1,295.7 1,237.0 58,69 22,075 8,200.0 8,172.3 8,152.2 8,046.0 29.7 34.4 179.69 -1,106.9 -373.1 1,307.1 1,247.4 59,69 21,999 8,300.0 8,272.3 8,249.3 8,192.5 30.1 34.9 179.88 -1,118.5 -377.3 1,315.0 1,254.4 60.61 21,697 8,400.0 8,372.3 8,447.0 8,340.1 30.4 35.4 179.98 -1,124.8 -379.6 1,319.2 1,257.8 61.44 21.472 8,500.0 8,472.3 8,579.3 8,472.3 30.8 35.8 180.00 -1,126.0 -380.0 1,320.1 1,257.9 62.17 21,235 8,600.0 8,572.3 8,679.3 8,572.3 31.1 36.1 180.00 -1,126.0 -380.0 1,320.1 1,257.2 62.83 21,011 8,700.0 8,672.3 8,679.3 8,772.3 31.8 36.7 180.00 -1,126.0 -380.0 1,320.1 1,255.9 64.15 20,578 8,800.0 8,772.3 8,879.3 8,872.3 31.2 36.9 180.00 -1,126.0 -380.0 1,320.1 1,255.9 64.15 20,578 8,900.0 8,872.3 9,079.3 8,872.3 32.2 36.9 180.00 -1,126.0 -380.0 1,320.1 1,255.2 64.81 20,387 9,000.0 8,972.3 9,179.3 9,072.3 32.2 36.9 180.00 -1,126.0 -380.0 1,320.1 1,255.2 64.81 20,387 9,000.0 9,072.3 9,179.3 9,072.3 32.9 37.5 180.00 -1,126.0 -380.0 1,320.1 1,255.2 64.81 20,387 9,000.0 9,072.3 9,179.3 9,072.3 32.9 37.5 180.00 -1,126.0 -380.0 1,320.1 1,255.2 64.81 20,387 9,000.0 9,072.3 9,179.3 9,072.3 32.9 37.5 180.00 -1,126.0 -380.0 1,320.1 1,255.2 66.81 19,758 9,272.2 9,244.5 9,351.5 9,244.5 33.5 38.0 180.00 -1,126.0 -380.0 1,320.1 1,253.2 66.81 19,758 9,272.2 9,244.5 9,351.5 9,244.5 33.5 38.0 180.00 -1,126.0 -380.0 1,320.1 1,252.6 67.76 19,564 9,300.0 9,272.3 9,379.3 9,272.3 33.6 38.0 180.00 -1,126.0 -380.0 1,320.1 1,252.6 67.77 19,564 9,300.0 9,371.3 9,479.4 9,372.4 33.9 38.3 90.77 -1,126.0 -380.0 1,320.1 1,252.6 67.76 19,477 9,400.0 9,479.4 9,372.4 33.9 38.3 90.77 -1,126.0 -370.8 1,320.1 1,252.0 68.81 19,195 9,550.0 9,419.5 9,530.8 9,423.5 34.0 38.5 91.12 -1,126.0 -370.8 1,320.1 1,252.0 68.81 19,195	7,900.0	7,872.3	7,754.8	7,653.4	28.7	32.7	178.72	-1,050.0	-352.3	1,263.4	1,206.6	56.84	22.229		
8,200,0 8,172,3 8,152,2 8,046,0 29,7 34,4 179,69 -1,106,9 -373,1 1,307,1 1,247,4 59,69 21,899 8,300,0 8,272,3 8,293,3 8,192,5 30.1 34,9 179,88 -1,118,5 -377,3 1,315,0 1,254,4 60,61 21,697 8,400,0 8,372,3 8,474,0 8,340,1 30,4 35,4 179,98 -1,124,8 -379,6 1,319,2 1,257,8 61,44 21,472 8,500,0 8,472,3 8,579,3 8,472,3 30,8 35,8 180,00 -1,126,0 -380,0 1,320,1 1,257,9 62,17 21,235 8,600,0 8,572,3 8,679,3 8,572,3 31,1 36,1 180,00 -1,126,0 -380,0 1,320,1 1,256,6 63,49 20,793 8,800,0 8,672,3 8,879,3 8,772,3 31,8 36,7 180,00 -1,126,0 -380,0 1,320,1 1,256,6 63,49 20,793 8,800,0 8,772,3 8,879,3 8,772,3 31,8 36,7 180,00 -1,126,0 -380,0 1,320,1 1,255,9 64,15 20,578 8,900,0 8,872,3 8,979,3 8,872,3 32,2 36,9 180,00 -1,126,0 -380,0 1,320,1 1,255,2 64,81 20,367 9,000,0 8,972,3 9,079,3 8,972,3 32,5 37,2 180,00 -1,126,0 -380,0 1,320,1 1,254,6 65,48 20,160 9,100,0 9,072,3 9,179,3 9,072,3 32,9 37,5 180,00 -1,126,0 -380,0 1,320,1 1,254,6 65,48 20,160 9,100,0 9,072,3 9,179,3 9,072,3 32,9 37,5 180,00 -1,126,0 -380,0 1,320,1 1,254,6 65,48 20,160 9,172,3 9,279,3 9,172,3 33,2 37,8 180,00 -1,126,0 -380,0 1,320,1 1,255,2 66,81 19,957 9,200,0 9,172,3 9,379,3 9,272,3 33,6 38,1 190,23 -1,126,0 -380,0 1,320,1 1,252,8 67,29 19,616 9,300,0 9,272,3 9,379,3 9,272,3 33,6 38,1 190,23 -1,126,0 -380,0 1,320,1 1,252,8 67,29 19,616 9,300,0 9,322,1 9,429,1 9,322,1 33,7 38,2 90,42 -1,126,0 -380,0 1,320,1 1,252,3 67,78 19,477 9,400,0 9,371,3 9,479,4 9,372,4 33,9 38,3 90,77 -1,126,0 -373,8 1,320,3 1,252,0 68,31 19,477 9,400,0 9,371,3 9,479,4 9,372,4 33,9 38,3 90,77 -1,126,0 -373,8 1,320,3 1,252,0 68,33 19,322 9,550,0 9,511,6 9,636,0 9,525,6 34,2 38,7 91,80 -1,125,9 -349,0 1,320,1 1,251,9 68,81 19,195	8,000.0	7,972.3	7,862.1	7,758.8	29.0	33.2	179.05	-1,068.6	-359.1	1,280.7	1,223.1	57.63	22.224		
8,300.0 8,272.3 8,299.3 8,192.5 30.1 34.9 179.88 -1,118.5 -377.3 1,315.0 1,254.4 60.61 21,697 8,400.0 8,372.3 8,447.0 8,340.1 30.4 35.4 179.98 -1,124.8 -379.6 1,319.2 1,257.8 61.44 21.472 8,500.0 8,472.3 8,679.3 8,572.3 31.1 36.1 180.00 -1,126.0 -380.0 1,320.1 1,257.9 62.17 21.235 8,600.0 8,572.3 8,679.3 8,572.3 31.5 36.4 180.00 -1,126.0 -380.0 1,320.1 1,257.9 62.17 21.235 8,700.0 8,672.3 8,772.3 31.8 36.7 180.00 -1,126.0 -380.0 1,320.1 1,256.6 63.49 20.793 8,900.0 8,872.3 8,879.3 32.2 36.9 180.00 -1,126.0 -380.0 1,320.1 1,254.6 65.48 20.160 9,100.0 9,072.3 9,179.3	8,100.0	8,072.3	8,006.4	7,901.2	29.4	33.8	179.42	-1,090.2	-367.0	1,295.7	1,237.0	58.69	22.075		
8,400.0 8,372.3 8,447.0 8,340.1 30.4 35.4 179.98 -1,124.8 -379.6 1,319.2 1,257.8 61.44 21.472 8,500.0 8,472.3 8,679.3 30.8 35.8 180.00 -1,126.0 -380.0 1,320.1 1,257.9 62.17 21.235 8,600.0 8,572.3 8,679.3 31.1 36.1 180.00 -1,126.0 -380.0 1,320.1 1,257.2 62.83 21.011 8,700.0 8,672.3 8,779.3 8,672.3 31.5 36.4 180.00 -1,126.0 -380.0 1,320.1 1,256.6 63.49 20.793 8,800.0 8,772.3 8,879.3 31.8 36.7 180.00 -1,126.0 -380.0 1,320.1 1,255.9 64.15 20.578 8,900.0 8,972.3 9,979.3 8,972.3 32.5 37.2 180.00 -1,126.0 -380.0 1,320.1 1,254.6 66.48 20.160 9,100.0 9,072.3 9,179.3 30.2 37.5 180.00 -1,126.0 -380.0 1,320.1 1,253.2 66.81	8,200.0	8,172.3	8,152.2	8,046.0	29.7	34.4	179.69	-1,106.9	-373.1	1,307.1	1,247.4	59.69	21,899		
8,500.0 8,472.3 8,579.3 8,472.3 30.8 35.8 180.00 -1,126.0 -380.0 1,320.1 1,257.9 62.17 21,235 8,600.0 8,572.3 8,679.3 8,572.3 31.1 36.1 180.00 -1,126.0 -380.0 1,320.1 1,257.2 62.83 21.011 8,700.0 8,672.3 8,779.3 8,672.3 31.5 36.4 180.00 -1,126.0 -380.0 1,320.1 1,256.6 63.49 20.793 8,800.0 8,772.3 8,879.3 8,772.3 31.8 36.7 180.00 -1,126.0 -380.0 1,320.1 1,255.9 64.15 20.578 8,900.0 8,872.3 8,979.3 8,872.3 32.2 36.9 180.00 -1,126.0 -380.0 1,320.1 1,255.9 64.15 20.578 8,900.0 8,972.3 9,079.3 32.2 35.9 180.00 -1,126.0 -380.0 1,320.1 1,254.6 65.48 20.160 9,100.0 9,072.3 9,179.3 9,172.3 33.2 37.8 180.00 -1,126.0 -380.0	8,300.0	8,272.3	8,299.3	8,192.5	30.1	34.9	179.88	-1,118.5	-377.3	1,315.0	1,254.4	60.61	21.697		
8,600.0 8,572.3 8,679.3 8,572.3 31.1 36.1 180.00 -1,126.0 -380.0 1,320.1 1,257.2 62.83 21.011 8,700.0 8,672.3 8,779.3 8,672.3 31.5 36.4 180.00 -1,126.0 -380.0 1,320.1 1,256.6 63.49 20.793 8,800.0 8,772.3 8,879.3 8,772.3 31.8 36.7 180.00 -1,126.0 -380.0 1,320.1 1,255.9 64.15 20,578 8,900.0 8,872.3 8,979.3 8,872.3 32.2 36.9 180.00 -1,126.0 -380.0 1,320.1 1,255.2 64.81 20,367 9,000.0 8,972.3 9,079.3 8,972.3 32.5 37.2 180.00 -1,126.0 -380.0 1,320.1 1,255.2 64.81 20,367 9,100.0 9,072.3 9,179.3 9,072.3 32.9 37.5 180.00 -1,126.0 -380.0 1,320.1 1,253.9 66.14 19,957 9,200.0 9,172.3 9,279.3 9,172.3 33.2 37.8 180.00 -1,126.0 -380.0 1,320.1 1,253.2 66.81 19,758 9,272.2 9,244.5 9,351.5 9,244.5 33.5 38.0 180.00 -1,126.0 -380.0 1,320.1 1,252.8 67.29 19,616 9,300.0 9,272.3 9,379.3 9,272.3 33.6 38.1 90.23 -1,126.0 -380.0 1,320.1 1,252.3 67.78 19,477 9,400.0 9,371.3 9,479.4 9,372.4 33.9 38.3 90.77 -1,126.0 -380.0 1,320.1 1,252.3 68.31 19,477 9,400.0 9,371.3 9,479.4 9,372.4 33.9 38.3 90.77 -1,126.0 -379.1 1,320.2 1,252.1 68.06 19,396 9,450.0 9,419.5 9,530.8 9,423.5 34.0 38.5 91.12 -1,126.0 -363.8 1,320.5 1,251.9 68.81 19,195 9,550.0 9,511.6 9,636.0 9,525.6 34.2 38.7 91.80 -1,125.9 -349.0 1,320.7 1,251.9 68.81 19,195	8,400.0	8,372.3	8,447.0	8,340.1	30.4	35.4	179.98	-1,124.8	- 379.6	1,319.2	1,257.8	61.44	21.472		
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8,700.0 8,672.3 8,779.3 8,672.3 31.5 36.4 180.00 -1,126.0 -380.0 1,320.1 1,256.6 63.49 20,793 8,800.0 8,772.3 8,879.3 8,772.3 31.8 36.7 180.00 -1,126.0 -380.0 1,320.1 1,255.9 64.15 20,578 8,900.0 8,872.3 8,979.3 8,872.3 32.2 36.9 180.00 -1,126.0 -380.0 1,320.1 1,255.2 64.81 20,367 9,000.0 8,972.3 9,079.3 8,972.3 32.5 37.2 180.00 -1,126.0 -380.0 1,320.1 1,255.2 64.81 20,367 9,100.0 9,072.3 9,179.3 9,072.3 32.9 37.5 180.00 -1,126.0 -380.0 1,320.1 1,253.9 66.14 19,957 9,200.0 9,172.3 9,279.3 9,172.3 33.2 37.8 180.00 -1,126.0 -380.0 1,320.1 1,253.2 66.81 19,758 9,272.2 9,244.5 9,351.5 9,244.5 33.5 38.0 180.00 -1,126.0 -380.0 1,320.1 1,252.8 67.29 19.616 9,300.0 9,272.3 9,379.3 9,272.3 33.6 38.1 90.23 -1,126.0 -380.0 1,320.1 1,252.3 67.78 19.477 9,400.0 9,371.3 9,479.4 9,372.4 33.9 38.3 90.77 -1,126.0 -379.1 1,320.2 1,252.1 68.06 19.396 9,450.0 9,419.5 9,530.8 9,423.5 34.0 38.5 91.12 -1,126.0 -363.8 1,320.5 1,251.9 68.81 19.255 9,550.0 9,511.6 9,636.0 9,525.6 34.2 38.7 91.80 -1,125.9 -349.0 1,320.7 1,251.9 68.81 19.195															
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9,100.0 9,072.3 9,179.3 9,072.3 32.9 37.5 180.00 -1,126.0 -380.0 1,320.1 1,253.9 66,14 19,957 9,200.0 9,172.3 9,279.3 9,172.3 33.2 37.8 180.00 -1,126.0 -380.0 1,320.1 1,253.2 66.81 19,758 9,272.2 9,244.5 9,351.5 9,244.5 33.5 38.0 180.00 -1,126.0 -380.0 1,320.1 1,252.8 67.29 19,616 9,300.0 9,272.3 9,379.3 9,272.3 33.6 38.1 90.23 -1,126.0 -380.0 1,320.1 1,252.6 67.47 19,564 9,350.0 9,322.1 9,429.1 9,322.1 33.7 38.2 90.42 -1,126.0 -380.0 1,320.1 1,252.3 67.78 19,477 9,400.0 9,371.3 9,479.4 9,372.4 33.9 38.3 90.77 -1,126.0 -379.1 1,320.2 1,252.1 68.06 19,396 9,450.0 9,419.5 9,530.8 9,423.5 34.0 38.5 91.12 -1,126.0	9,000.0	8,972.3	9,079.3	8,972.3	32.5	37.2	180.00	-1,126.0	-380.0	1,320.1	1,254.6	65.48	20.160		
9,200.0 9,172.3 9,279.3 9,172.3 33.2 37.8 180.00 -1,126.0 -380.0 1,320.1 1,253.2 66.81 19.758 9,272.2 9,244.5 9,351.5 9,244.5 33.5 38.0 180.00 -1,126.0 -380.0 1,320.1 1,252.8 67.29 19.616 9,300.0 9,272.3 9,379.3 9,272.3 33.6 38.1 90.23 -1,126.0 -380.0 1,320.1 1,252.6 67.47 19.564 9,350.0 9,322.1 9,429.1 9,322.1 33.7 38.2 90.42 -1,126.0 -380.0 1,320.1 1,252.3 67.78 19.477 9,400.0 9,371.3 9,479.4 9,372.4 33.9 38.3 90.77 -1,126.0 -379.1 1,320.2 1,252.1 68.06 19.396 9,450.0 9,419.5 9,530.8 9,423.5 34.0 38.5 91.12 -1,126.0 -373.8 1,320.3 1,252.0 68.33 19.322 9,500.0 9,466.4 9,583.0 9,474.7 34.1 38.6 91.47 -1,126.0															
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9,450.0 9,419.5 9,530.8 9,423.5 34.0 38.5 91.12 -1,126.0 -373.8 1,320.3 1,252.0 68.33 19.322 9,500.0 9,466.4 9,583.0 9,474.7 34.1 38.6 91.47 -1,126.0 -363.8 1,320.5 1,251.9 68.58 19.255 9,550.0 9,511.6 9,636.0 9,525.6 34.2 38.7 91.80 -1,125.9 -349.0 1,320.7 1,251.9 68.81 19.195															
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9,600.0 9,554.7 9,689.8 9,575.6 34.4 38.8 92.13 -1,125.8 -329.1 1,320.9 1,251.9 69.02 19.139															
	9,600.0	9,554.7	9,689.8	9,575.6	34.4	38.8	92.13	-1,125.8	-329.1	1,320.9	1,251.9	69.02	19.139		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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: Mini

Output errors are at

Database: Offset TVD Reference: Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

2.00 sigma EDM 5000.14 Server

Offset Datum

Offset De			iller - Bar	ry Miller Sta	ate Com #	222H - Well	bore #1 - BLM	1 Plan #1					Offset Site Error:	0.0 usft
Survey Prog Refer	ram: 0-M ence	Offset Semi Major Axis Measured Vertical Reference Offset Highside							Dista	ince			Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	Offset Wellbor +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,650.0	9,595.5	9,744.5	9,624.2	34.5	38.9	92.44	-1,125.7	-304.3	1,321.2	1,252.0	69.22	19.088		
9,700.0	9,633.7	9,799.9	9,671.0	34.6	39.0	92.74	-1,125.6	-274.4	1,321.5	1,252.1	69.41	19.039		
9,750.0	9,668.8	9,856.2	9,715.2	34.7	39.0	93.01	-1,125.4	-239.7	1,321.8	1,252.2	69.61	18.989		
9,800.0	9,700.8	9,913.2	9,756.3	34.8	39.1	93.26	-1,125.3	-200.2	1,322.1	1,252.2	69.82	18.935		
9,850.0	9,729.2	9,970.9	9,793.7	35.0	39.1	93.48	-1,125.1	-156.3	1,322.3	1,252.3	70.06	18.875		
9,900.0	9,754.0	10,029.2	9,826.8	35.1	39.1	93.68	-1,124.9	-108.4	1,322.6	1,252.2	70.34	18.803		
9,950.0	9,774.9	10,088.0	9,855.2	35.3	39.1	93.84	-1,124.6	-56.8	1,322.7	1,252.1	70.67	18.718		
10,000.0	9,791.8	10,142.0	9,877.2	35.5	39.1	93.99	-1,124.4	-7.6	1,323.0	1,251.9	71.06	18.619		
10,050.0	9,804.5	10,193.3	9,897.0	35.8	39.1	94.26	-1,124.2	39.8	1,323.4	1,252.0	71.46	18.520		
10,100.0	9,812.9	10,244.2	9,915.9	36.0	39.1	94.64	-1,124.0	87.0	1,324.2	1,252.3	71.92	18.412		
10,125.2	9,815.5	10,269.6	9,925.0	36.2	39.1	94.87	-1,123.9	110.7	1,324.7	1,252.6	72.15	18.360		
10,200.0	9,820.7	10,345.0	9,950.8	36.7	39.1	95.73	-1,123.5	181.6	1,326.7	1,253.8	72.94	18,189		
10,225.5	9,822.0	10,370.8	9,959.2	36.9	39.1	96.03	-1,123.4	206.0	1,327.5	1,254.3	73.23	18.128		
10,300.0	9,825.5	10,447.0	9,982.6	37.5	39.1	96.88	-1,123.1	278.5	1,329.9	1,255.7	74.20	17.924		
10,400.0	9,830.2	10,550.9	10,011.5	38.4	39.3	97.92	-1,122.6	378.3	1,333.1	1,257.3	75.74	17.601		
10,500.0	9,834.9	10,656.5	10,037.2	39.4	40.0	98.80	-1,122.0	480.7	1,336.1	1,258.5	77.56	17.226		
10,600.0	9,839.7	10,763.5	10,059.3	40.6	41.1	99.52	-1,121.5	585.4	1,338.8	1,259.1	79.66	16.806		
10,700.0	9,844.4	10,871.7	10,077.7	41.9	42.3	100.08	-1,120.9	692.0	1,341.0	1,258.9	82.03	16.347		
10,800.0	9,849.1	10,980.7	10,092.1	43.3	43.7	100.48	-1,120.2	800.0	1,342.6	1,257.9	84.65	15,859		
10,900.0	9,853.8	11,090.3	10,102.4	44.7	45.2	100.69	-1,119.6	909.1	1,343.5	1,255.9	87.52	15.350		
11,000.0	9,858.5	11,200.1	10,108.6	46.3	46.9	100.74	-1,118.9	1,018.7	1,343.7	1,253.0	90.62	14.828		
11,100.0	9,863.2	11,308.4	10,110.6	47.9	48.6	100.61	-1,118.2	1,127.0	1,343.1	1,249.2	93.91	14.303		
11,200.0	9,867.9	11,408.3	10,111.1	49.6	50.2	100.43	-1,117.6	1,226.9	1,342.3	1,245.1	97.24	13.804		
11,300.0	9,872.6	11,508.2	10,111.6	51.4	51.9	100.25	-1,116.9	1,326.8	1,341.6	1,240.9	100.71	13.321		
11,400.0	9,877.3	11,608.1	10,112.0	53.2	53.6	100.07	-1,116.3	1,426.7	1,340.8	1,236.5	104.29	12.857		
11,500.0	9,882.1	11,708.0	10,112.5	55.1	55.4	99.89	-1,115.6	1,526.6	1,340.1	1,232.1	107.97	12,411		
11,600.0	9,886.8	11,807.9	10,112.9	57.0	57.3	99.71	-1,115.0	1,626.5	1,339.4	1,227.6	111.75	11.985		
11,700.0	9,891.5	11,907.8	10,113.4	58.9	59.1	99.53	-1,114.3	1,726.4	1,338.6	1,223.0	115.61	11.578		
11,800.0	9,896.2	12,007.7	10,113.8	60.9	61.1	99.35	-1,113.7	1,826.3	1,337.9	1,218.4	119.56	11.191		
11,900.0	9,900.9	12,107.6	10,114.3	63.0	63.0	99.17	-1,113.1	1,926.2	1,337.2	1,213.7	123.57	10.822		
12,000.0	9,905.6	12,207.5	10,114.7	65.0	65.0	98.99	-1,112.4	2,026.1	1,336.6	1,208.9	127.64	10.471		
12,100.0	9,910.3	12,307.4	10,115.2	67.1	67.1	98.81	-1,111.8	2,126.0	1,335.9	1,204.1	131.78	10.138		
12,200.0	9,915.0	12,407.4	10,115.7	69.2	69.1	98.63	-1,111.1	2,225.9	1,335.3	1,199.3	135.97	9.820		
12,300.0	9,919.8	12,507.3	10,116.1	71.3	71.2	98.45	-1,110.5	2,325.8	1,334.6	1,194.4	140.20	9.519		
12,400.0	9,924.5	12,607.2	10,116.6	73.5	73.3	98.27	-1,109.8	2,425.8	1,334.0	1,189.5	144.49	9.233		
12,500.0	9,929.2	12,707.1	10,117.0	75.6	75.4	98.09	-1,109.2	2,525.7	1,333.4	1,184.6	148.81	8.960		
12,600.0	9,933.9	12,807.0	10,117.5	77.8	77.5	97.91	-1,108.6	2,625.6	1,332.8	1,179.6	153.17	8.701		
12,700.0	9,938.6	12,906.9	10,117.9	80.0	79.7	97.73	-1,107.9	2,725.5	1,332.2	1,174.6	157.56	8.455		
12,800.0	9,943.3	13,006.8	10,118.4	82.2	81.9	97.55	-1,107.3	2,825.4	1,331.6	1,169.6	161.99	8.220		
12,900.0	9,948.0	13,106.7	10,118.8	84.4	84.0	97.37	-1,106.6	2,925.3	1,331.1	1,164.6	166.45	7.997		
13,000.0	9,952.7	13,206.6	10,119.3	86.7	86.2	97.18	-1,106.0	3,025.2	1,330.5	1,159.6	170.93	7.784		
13,100.0	9,957.5	13,306.5	10,119.8	88.9	88.4	97.00	-1,105.3	3,125.1	1,330.0	1,154.6	175.44	7.581		
13,200.0	9,962.2	13,406.4	10,120.2	91.2	90.7	96.82	-1,104.7	3,225.0	1,329,5	1,149.5	179.98	7.387		
13,300.0	9,966.9	13,506.4	10,120.7	93.4	92.9	96.64	-1,104.1	3,324.9	1,329.0	1,144.5	184.53	7.202		
13,400.0	9,971.6	13,606.3	10,121.1	95.7	95.2	96.46	-1,103.4	3,424.8	1,328.5	1,139.4	189.11	7.025		
13,500.0	9,976.3	13,706.2	10,121.6	98.0	97.4	96.27	-1,102.8	3,524.7	1,328.0	1,134.3	193.70	6.856		
13,600.0	9,981.0	13,806.1	10,122.0	100.3	99.7	96.09	-1,102.1	3,624.6	1,327.6	1,129.2	198.31	6.694		
13,700.0	9,985.7	13,906.0	10,122.5	102.6	101.9	95.91	-1,101.5	3,724.5	1,327.1	1,124.2	202.94	6.539		
13,800.0	9,990.4	14,005.9	10,123.0	104.9	104.2	95.73	-1,100.8	3,824.4	1,326.7	1,119.1	207.58	6.391		
13,900.0 14,000.0	9,995.2 9,999.9	14,105.8 14,205.7	10,123.4 10,123.9	107.2 109.5	106.5 108.8	95.54 95.36	-1,100.2 -1,099.6	3,924.3 4,024.3	1,326.3 1,325.8	1,114.0 1,108.9	212.24 216.91	6.249 6.112		
14,100.0	10,004.6	14,305.6	10,124.3	111.9	111.1	95.18	-1,098.9	4,124.2	1,325.4	1,103.9	221.59	5.981		

Company: Matador Production Company

Project: Rustler Breaks
Reference Site: Barry Miller
Site Error: 0.0 usft

Reference Well: Barry Miller State Com #221H

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 @ 3113.5usft KB @ 3113.5usft Grid

Well Barry Miller State Com #221H

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

 Database:
 EDM 5000.14 Server

 Offset TVD Reference:
 Offset Datum

Offset De	sign	Barry M	iller - Bar	ry Miller Sta	ate Com #	222H - Well	lbore #1 - BLM	l Plan #1					Offset Site Error:	0.0 usft
Survey Prog		WD											Offset Well Error:	0.0 usft
Refer		Offse		Semi Major					Dista					
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Too l face	Offset Wellbor		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 dotor		
14,200.0	10,009.3	14,405.5	10,124.8	114.2	113.4	95.00	-1,098.3	4,224.1	1,325.1	1,098.8	226.29	5.856		
14,300.0	10,014.0	14,505.5	10,125.2	116.5	115.7	94.81	-1,097.6	4,324.0	1,324.7	1,093.7	230.99	5.735		
14,400.0	10,018.7	14,605.4	10,125.7	118.9	118.0	94.63	-1,097.0	4,423.9	1,324.3	1,088.6	235.71	5.619		
14,500.0	10,023.4	14,705.3	10,126.1	121.2	120.4	94.45	-1,096.4	4,523.8	1,324.0	1,083.6	240.43	5.507		
14,600.0	10,028.1	14,805.2	10,126.6	123.6	122.7	94.26	-1,095.7	4,623.7	1,323.7	1,078.5	245.16	5.399		
14,700.0	10,032.8	14,905.1	10,127.1	125.9	125.0	94.08	-1,095.1	4,723.6	1,323.4	1,073.5	249.90	5.296		
14,800.0	10,037.6	15,005.0	10,127.5	128.3	127.3	93.89	-1,094.4	4,823.5	1,323.1	1,068.4	254.65	5.196		
14,900.0	10,042.3	15,104.9	10,128.0	130.7	129.7	93.71	-1,093.8	4,923.4	1,322.8	1,063.4	259.40	5.099		
15,000.0	10,047.0	15,204.8	10,128.4	133.0	132.0	93.53	-1,093.1	5,023.3	1,322.5	1,058.3	264.16	5.006		
15,100.0	10,051.7	15,304.7	10,128.9	135.4	134.4	93.34	-1,092.5	5,123.2	1,322.2	1,053.3	268.93	4.917		
15,200.0	10,056.4	15,404.6	10,129.3	137.8	136.7	93.16	-1,091.9	5,223.1	1,322.0	1,048.3	273.70	4.830		
15,300.0	10,061.1	15,504.5	10,129.8	140.1	139.1	92.98	-1,091.2	5,323.0	1,321.8	1,043.3	278.48	4.746		
15,400.0	10,065.8	15,604.5	10,130.3	142.5	141.4	92.79	-1,090.6	5,422.9	1,321.5	1,038.3	283.26	4.666		
15,500.0	10,070.5	15,704.4	10,130.7	144.9	143.8	92.61	-1,089.9	5,522.8	1,321.3	1,033.3	288.04	4.587		
15,600.0	10,075.3	15,804.3	10,131.2	147.3	146.2	92.42	-1,089.3	5,622.8	1,321.2	1,028.3	292.83	4.512		
15,700.0	10,080.0	15,904.2	10,131.6	149.7	148.5	92.24	-1,088.6	5,722.7	1,321.0	1,023.4	297.62	4.438		
15,800.0	10,084.7	16,004.1	10,132.1	152.0	150.9	92.05	-1,088.0	5,822.6	1,320.8	1,018.4	302.42	4.368		
15,900.0	10,089.4	16,104.0	10,132.5	154.4	153.3	91.87	-1,087.4	5,922.5	1,320.7	1,013.4	307.21	4.299		
16,000.0	10,094.1	16,203.9	10,133.0	156.8	155.6	91.69	-1,086.7	6,022.4	1,320.5	1,008.5	312,01	4.232		
16,100.0	10,098.8	16,303.8	10,133.4	159.2	158.0	91.50	-1,086.1	6,122.3	1,320.4	1,003.6	316.81	4.168		
16,200.0	10,103.5	16,403.7	10,133.9	161.6	160.4	91.32	-1,085.4	6,222.2	1,320.3	998.7	321.62	4.105		
16,300.0	10,108.2	16,503.6	10,134.4	164.0	162.8	91.13	-1,084.8	6,322.1	1,320.2	993.8	326.42	4.044		
16,400.0	10,113.0	16,603.5	10,134.8	166.4	165.1	90.95	-1,084.1	6,422.0	1,320.1	988.9	331.23	3.986		
16,500.0	10,117.7	16,703.5	10,135.3	168.8	167.5	90.76	-1,083.5	6,521.9	1,320.1	984.0	336.03	3.928		
16,600.0	10,122.4	16,803.4	10,135.7	171.2	169.9	90.58	-1,082.9	6,621.8	1,320.0	979.2	340.84	3.873		
16,700.0	10,127.1	16,903.3	10,136.2	173.6	172.3	90.39	-1,082.2	6,721.7	1,320.0	974.3	345,64	3,819		
16,800.0	10,131,8	17,003,2	10,136.6	176.0	174.7	90.21	-1,081.6	6,821,6	1,319.9	969.5	350.45	3,766		
16,900.0	10,136.5	17,103.1	10,137.1	178.4	177.1	90.02	-1,080.9	6,921.5	1,319.9	964.7	355.25	3.715		
16,942.1	10,138.5	17,145.2	10,137.3	179.4	178.1	89.95	-1,080.7	6,963.6	1,319.9	962.6	357.28	3.694		
17,000.0	10,141.2	17,203.0	10,137.5	180.8	179.5	89.84	-1,080.3	7,021.4	1,319.9	959.9	360.06	3.666		
17,100.0	10,145.9	17,302.9	10,138.0	183.2	181.9	89.66	-1,079.6	7,121.4	1,319.9	955.1	364.86	3.618		
17,200.0	10,150.7	17,402.8	10,138.5	185.6	184.2	89.47	-1,079.0	7,221.3	1,320.0	950.3	369.67	3,571		
17,218.0	10,151.5	17,411.8	10,138.5	186.1	184.5	89.45	-1,078.9	7,230.2	1,320.0	949.6	370.35	3.564		
17,218.7	10,151,5	17,411.8	10,138.5	186.1	184.5	89.45	-1,078.9	7,230.2	1,320.0	949.6	370.37	3,564		
17,210.7	10,101.0	17,711.0	10,100.0	100,1	10-1,0	55,45	1,575.9	1,200.2	1,020.0	5-13.0	0,0,0	0.004		

Company: Matador Production Company

Project: Rustler Breaks Barry Miller Reference Site: Site Error: 0.0 usft

Barry Miller State Com #221H Reference Well:

Reference Depths are relative to KB @ 3113.5usft

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

Offset Depths are relative to Offset Datum

Local Co-ordinate Reference: Well Barry Miller State Com #221H

KB @ 3113.5usft **TVD Reference:** MD Reference: KB @ 3113.5usft

North Reference: Grid

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

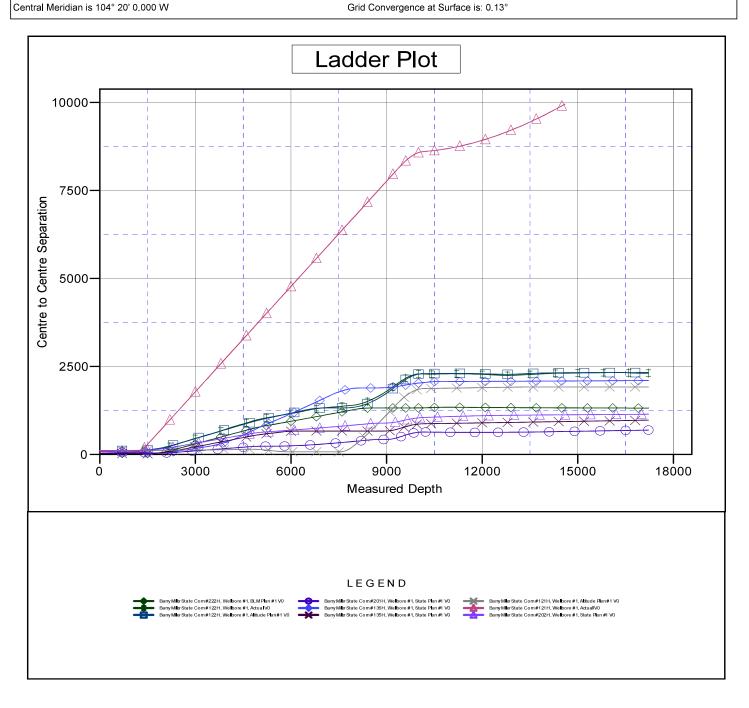
Database: EDM 5000.14 Server Offset Datum

Offset TVD Reference:

Coordinates are relative to: Barry Miller State Com #221H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.13°



Company: Matador Production Company

Project:Rustler BreaksReference Site:Barry MillerSite Error:0.0 usft

Reference Well: Barry Miller State Com #221H

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

Local Co-ordinate Reference:

TVD Reference: KB @ 3113.5usft
MD Reference: KB @ 3113.5usft
North Reference: Grid

rey Calculation Method: Minimum Curvature

Survey Calculation Method: Output errors are at

 Database:
 EDM 5000.14 Server

 Offset TVD Reference:
 Offset Datum

Reference Depths are relative to KB @ 3113.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

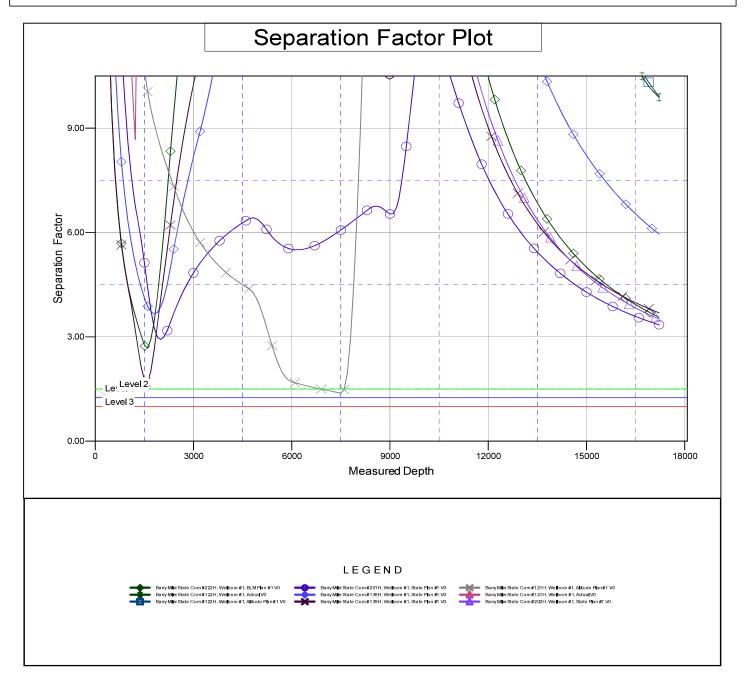
Coordinates are relative to: Barry Miller State Com #221H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

2.00 sigma

Well Barry Miller State Com #221H

Grid Convergence at Surface is: 0.13°



Matador Production Company

Rustler Breaks
Barry Miller
Barry Miller State Com #221H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

19 July, 2023

Database: EDM 5000.14 Server

Company: Matador Production Company

Project: Site:

Rustler Breaks Barry Miller

Well: Barry Miller State Com #221H

Wellbore: Wellbore #1

Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Minimum Curvature

Project Rustler Breaks,

Map System: Geo Datum:

Map Zone:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum:

Mean Sea Level

Using geodetic scale factor

Site Barry Miller

Site Position: Northing: From: Lat/Long Easting:

Easting:

508,440.78 usft 572,199.25 usft

Latitude: Longitude: 32° 23' 51 364 **N** 104° 5' 57 890 W

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.13

Well Barry Miller State Com #221H

Well Position +N/-S +E/-W

0.2 usft -0.2 usft Northing: Easting: 508,441.00 usft 572,199.00 usft Latitude: Longitude: 32° 23' 51.366 **N** 104° 5' 57.893 **W**

Position Uncertainty0.0 usftWellhead Elevation:Ground Level:3,085.0 usft

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 7/19/2023 IGRF2015 6.55 60.06 47.362.55806955

Design BLM Plan #1

Audit Notes:

Version:

Phase:

0.0

PLAN

Tie On Depth:

0.0

0.0

89.60

 Vertical Section:
 Depth From (TVD)
 +N/-S
 +E/-W
 Direction

 (usft)
 (usft)
 (usft)
 (°)

Plan Survey Tool Program Date 7/19/2023

Depth From Depth To (usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.0 17,218.0 BLM Plan #1 (Wellbore #1) MWD
OWSG MWD - Standard

0.0

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,300.0	8.00	297.05	2,297.4	25.4	-49.7	1.00	1.00	0.00	297.05	
4,698.1	8.00	297.05	4,672.2	177.1	-346.9	0.00	0.00	0.00	0.00	
5,231.4	0.00	0.00	5,203.8	194.0	-380.0	1.50	-1.50	0.00	180.00	
9,272.2	0.00	0.00	9,244.5	194.0	-380.0	0.00	0.00	0.00	0.00	VP - Barry Miller Fed
10,125.2	85.30	89.80	9,815.5	195.8	146.0	10.00	10.00	0.00	89.80	
10,225.5	87.30	89.63	9,822.0	196.3	246.1	2.00	1.99	-0.17	-4.75	
17,218.0	87.30	89.63	10,151.5	241.0	7,230.7	0.00	0.00	0.00	0.00	BHL - Barry Miller Fec

Database: EDM 5000.14 Server

Company: Matador Production Company

Project: Rustler Breaks
Site: Barry Miller

Well: Barry Miller State Com #221H

Wellbore: Wellbore #1
Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

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)
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
140.0	0.00	0.00	140.0	0.0	0.0	0.0	0.00	0.00	0.00
Z (Rustler)									
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
429.0	0.00	0.00	429.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.00	0.00	429.0	0.0	0.0	0.0	0.00	0.00	0.00
Z (Salado)	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00 0.00	0.00 0.00	500.0	0.0 0.0	0.0	0.0	0.00 0.00	0.00 0.00	0.00
600.0			600.0		0.0	0.0			0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
744.0	0.00	0.00	744.0	0.0	0.0	0.0	0.00	0.00	0.00
Z (Castile (Γ))								
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
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
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build			,						
1,600.0	1.00	297.05	1,600.0	0.4	-0.8	-0.8	1.00	1.00	0.00
1,700.0	2.00	297.05	1,700.0	1.6	-3.1	-3.1	1.00	1.00	0.00
1,800.0	3.00	297.05	1,799.9	3.6	-7.0	-7.0	1.00	1.00	0.00
1,900.0	4.00	297.05	1,899.7	6.3	-12.4	-12.4	1.00	1.00	0.00
2,000.0	5.00	297.05	1,999.4	9.9	-19.4	-19.3	1.00	1.00	0.00
2,100.0	6.00	297.05	2,098.9	14.3	-28.0	-27.9	1.00	1.00	0.00
2,200.0	7.00	297.05	2,198.3	19.4	-38.0	-37.9	1.00	1.00	0.00
2,300.0	8.00	297.05	2,297.4	25.4	-49.7	-49.5	1.00	1.00	0.00
Start 2398.1	l hold at 2300.0 N	/ID							
2,400.0	8.00	297.05	2,396.4	31.7	-62.1	-61.8	0.00	0.00	0.00
2,497.1	8.00	297.05	2,492.6	37.8	-74.1	-73.8	0.00	0.00	0.00
Z (G30:CS1	4-CSB)								
2,500.0	8.00	297.05	2,495.5	38.0	-74.5	-74.2	0.00	0.00	0.00
2,568.5	8.00	297.05	2,563.3	42.3	-82.9	-82.6	0.00	0.00	0.00
Z (G26: Bell		207.00	2,000.0	72.0	52.5	02.0	0.00	0.00	3.50
2,600.0	8.00	297.05	2,594.5	44.3	-86.8	-86.5	0.00	0.00	0.00
2,700.0	8.00	297.05	2,693.5	50.7	-99.2	-98.9	0.00	0.00	0.00
2,800.0	8.00	297.05	2,792.5	57.0	-111.6	-30.3 -111.2	0.00	0.00	0.00
2,900.0	8.00	297.05	2,891.6	63.3	-124.0	-123.6	0.00	0.00	0.00
3,000.0	8.00	297.05	2,990.6	69.7	-136.4	-135.9	0.00	0.00	0.00
3,100.0	8.00	297.05	3,089.6	76.0	-148.8	-148.3	0.00	0.00	0.00
3,200.0	8.00	297.05	3,188.6	82.3	-161.2	-160.6	0.00	0.00	0.00
3,300.0	8.00	297.05	3,287.7	88.6	-173.6	-173.0	0.00	0.00	0.00
3,400.0	8.00	297.05	3,386.7	95.0	-186.0	-185.3	0.00	0.00	0.00
3,408.2	8.00	297.05	3,394.9	95.5	-187.0	-186.4	0.00	0.00	0.00
Z (G13: Che	erry Cyn.)								
3,500.0	8.00	297.05	3,485.7	101.3	-198.4	-197.7	0.00	0.00	0.00
3,600.0	8.00	297.05	3,584.8	107.6	-210.8	-210.0	0.00	0.00	0.00
3,700.0	8.00	297.05	3,683.8	113.9	-223.2	-222.4	0.00	0.00	0.00
3,800.0	8.00	297.05	3,782.8	120.3	-235.6	-234.7	0.00	0.00	0.00

Database: EDM 5000.14 Server

Company: Matador Production Company

Project: Rustler Breaks
Site: Barry Miller

Well: Barry Miller State Com #221H

Wellbore: Wellbore #1
Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

anned 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)
3,900.0 4,000.0 4,100.0 4,200.0 4,300.0	8.00 8.00 8.00 8.00 8.00	297.05 297.05 297.05 297.05 297.05	3,881.8 3,980.9 4,079.9 4,178.9 4,277.9	126.6 132.9 139.3 145.6 151.9	-248.0 -260.4 -272.8 -285.2 -297.6	-247.1 -259.4 -271.8 -284.2 -296.5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
4,400.0 4,500.0 4,600.0 4,604.0	8.00 8.00 8.00 8.00	297.05 297.05 297.05 297.05	4,377.0 4,476.0 4,575.0 4,579.0	158.2 164.6 170.9 171.2	-310.0 -322.4 -334.8 -335.3	-308.9 -321.2 -333.6 -334.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Z (G7: Brush		007.05	4 070 0	477.4	0.40.0	0.45.7	0.00	0.00	0.00
4,698.1 Start Drop -1	8.00	297.05	4,672.2	177.1	-346.9	-345.7	0.00	0.00	0.00
4,700.0 4,800.0 4,900.0 5,000.0 5,100.0	7.97 6.47 4.97 3.47 1.97	297.05 297.05 297.05 297.05 297.05	4,674.0 4,773.3 4,872.7 4,972.5 5,072.4	177.2 182.9 187.5 190.8 193.0	-347.2 -358.3 -367.2 -373.8 -378.0	-345.9 -357.1 -365.9 -372.4 -376.7	1.50 1.50 1.50 1.50 1.50	-1.50 -1.50 -1.50 -1.50 -1.50	0.00 0.00 0.00 0.00 0.00
5,200.0	0.47	297.05	5,172.3	194.0	-379.9	-378.5	1.50	-1.50	0.00
5,231.4	0.00	0.00	5,203.8	194.0	-380.0	-378.7	1.50	-1.50	0.00
5,300.0 5,400.0 5,500.0	hold at 5231.4 N 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5,272.3 5,372.3 5,472.3	194.0 194.0 194.0	-380.0 -380.0 -380.0	-378.7 -378.7 -378.7	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
5,600.0 5,700.0 5,800.0 5,900.0 5,983.2	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5,572.3 5,672.3 5,772.3 5,872.3 5,955.5	194.0 194.0 194.0 194.0 194.0	-380.0 -380.0 -380.0 -380.0 -380.0	-378.7 -378.7 -378.7 -378.7 -378.7	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
Z (G4: BSGL		0.00	0,000.0	104.0	0.00.0	010.1	0.00	0.00	0.00
6,000.0 6,100.0 6,200.0 6,300.0 6,400.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5,972.3 6,072.3 6,172.3 6,272.3 6,372.3	194.0 194.0 194.0 194.0 194.0	-380.0 -380.0 -380.0 -380.0 -380.0	-378.7 -378.7 -378.7 -378.7 -378.7	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6,446,2	0.00	0.00	6,418.5	194.0	-380.0	-378.7	0.00	0.00	0.00
Z (L8.2: U. A 6,500.0 6,564.2	valon Shale) 0.00 0.00	0.00 0.00	6,472.3 6,536.5	194.0 194.0	-380.0 -380.0	-378.7 -378.7	0.00 0.00	0.00 0.00	0.00 0.00
Z (L6.3: Aval 6,600.0	on Carb) 0.00	0.00	6,572.3	194.0	-380.0	-378.7	0.00	0.00	0.00
6,608.2	0.00	0.00	6,580.5	194.0	-380.0	-378.7	0.00	0.00	0.00
Z (L6.2: L. A	•								
6,698.2	0.00	0.00	6,670.5	194.0	-380.0	-378.7	0.00	0.00	0.00
Z (L5.3: FBS 6,700.0 6,800.0 6,900.0 7,000.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6,672.3 6,772.3 6,872.3 6,972.3	194.0 194.0 194.0 194.0	-380.0 -380.0 -380.0 -380.0	-378.7 -378.7 -378.7 -378.7	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
7,004.2	0.00	0.00	6,976.5	194.0	-380.0	-378.7	0.00	0.00	0.00
Z (L5.1: FBS 7,064.2 Z (M. FBSG)	0.00	0.00	7,036.5	194.0	-380.0	-378.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,072.3	194.0	-380.0	-378.7	0.00	0.00	0.00

Database: EDM 5000.14 Server

Company: Matador Production Company

Project: Ruetler Breaks

Project: Rustler Breaks
Site: Barry Miller

Well: Barry Miller State Com #221H

Wellbore: Wellbore #1
Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

nned Survey									
ca carvey									
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)
7,200.0 7,213.2	0.00 0.00	0.00 0.00	7,172.3 7,185.5	194.0 194.0	-380.0 -380.0	-378.7 -378.7	0.00 0.00	0.00 0.00	0.00 0.00
Z (L. FBSG)									
7,272.2 Z (L4.3: SB \$	0.00	0.00	7,244.5	194.0	-380.0	-378.7	0.00	0.00	0.00
7,300.0 7,400.0 7,500.0 7,600.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	7,272.3 7,372.3 7,472.3 7,572.3	194.0 194.0 194.0 194.0	-380.0 -380.0 -380.0 -380.0	-378.7 -378.7 -378.7 -378.7	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
7,697.2 Z (L4.1: SB \$	0.00	0.00	7,669.5	194.0	-380.0	-378.7	0.00	0.00	0.00
7,700.0 7,800.0 7,868.2	0.00 0.00 0.00	0.00 0.00 0.00	7,672.3 7,772.3 7,840.5	194.0 194.0 194.0	-380.0 -380.0 -380.0	-378.7 -378.7 -378.7	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Z (L4.1: SB 5 7,900.0	SG B Carb) 0.00	0.00	7,872.3	194.0	-380.0	-378.7	0.00	0.00	0.00
7,953.2	0.00	0.00	7,925.5	194.0	-380.0	-378.7	0.00	0.00	0.00
Z (SBSG B		0.00	7,925.5	194.0	-300.0	-370.7	0.00	0.00	0.00
8,000.0 8,009.2	0.00 0.00	0.00 0.00	7,972.3 7,981.5	194.0 194.0	-380.0 -380.0	-378.7 -378.7	0.00 0.00	0.00 0.00	0.00 0.00
Z (L4.1: SBS									
8,031.2 Z (L3.3: TB \$	•	0.00	8,003.5	194.0	-380.0	-378.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,072.3	194.0	-380.0	-378.7	0.00	0.00	0.00
8,200.0 8,300.0 8,400.0	0.00 0.00 0.00	0.00 0.00 0.00	8,172.3 8,272.3 8,372.3	194.0 194.0 194.0	-380.0 -380.0 -380.0	-378.7 -378.7 -378.7	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,439.2	0.00	0.00	8,411.5	194.0	-380.0	-378.7	0.00	0.00	0.00
	reak Sand (T))	0.00	0.470.0	104.0	200.0	270.7	0.00	0.00	0.00
8,500.0 8,600.0	0.00 0.00	0.00 0.00	8,472.3 8,572.3	194.0 194.0	-380.0 -380.0	-378.7 -378.7	0.00	0.00 0.00	0.00 0.00
8,700.0 8,800.0 8,900.0	0.00 0.00 0.00	0.00 0.00 0.00	8,672.3 8,772.3 8,872.3	194.0 194.0 194.0	-380.0 -380.0 -380.0	-378.7 -378.7 -378.7	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,969.2	0.00	0.00	8,941.5	194.0	-380.0	-378.7	0.00	0.00	0.00
Z (L3.1: TBS 9,000.0 9,100.0	0.00 0.00	0.00 0.00	8,972.3 9,072.3	194.0 194.0	-380.0 -380.0	-378.7 -378.7	0.00 0.00	0.00 0.00	0.00 0.00
9,200.0 9,259.2	0.00 0.00	0.00 0.00	9,172.3 9,231.5	194.0 194.0	-380.0 -380.0	-378.7 -378.7	0.00 0.00	0.00 0.00	0.00 0.00
Z (L. TBSG) 9,272.2	0.00	0.00	9,244.5	194.0	-380.0	-378.7	0.00	0.00	0.00
	10.00 - VP - Barry								
9,289.2 Z (L2: WFM	1.70 I P A)	89.80	9,261.5	194.0	-379.8	-378.4	10.00	10.00	0.00
9,300.0 9,350.0 9,400.0 9,430.9	2.78 7.78 12.78 15.87	89.80 89.80 89.80 89.80	9,272.3 9,322.1 9,371.3 9,401.2	194.0 194.0 194.1 194.1	-379.3 -374.7 -365.8 -358.2	-378.0 -373.4 -364.5 -356.8	10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00
Z (WFMP A	Fat)								
9,450.0 9,500.0	17.78 22.78	89.80 89.80	9,419.5 9,466.4	194.1 194.2	-352.6 -335.3	-351.3 -334.0	10.00 10.00	10.00 10.00	0.00 0.00

Database: EDM 5000.14 Server

Company: Matador Production Company

Project: Rustler Breaks
Site: Barry Miller

Well: Barry Miller State Com #221H

Wellbore: Wellbore #1

Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

ed 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)
9,550.0 9,600.0 9,650.0	32.78	89.80 89.80 89.80	9,511.6 9,554.7 9,595.5	194.2 194.3 194.4	-314.0 -288.8 -259.9	-312.6 -287.4 -258.5	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
9,691.4		89.80	9,627.3	194.5	-233.3	-232.0	10.00	10.00	0.00
Z (WFMP E 9,700.0 9,750.0 9,800.0 9,810.9	42.78 47.78 52.78	89.80 89.80 89.80 89.80	9,633.7 9,668.8 9,700.8 9,707.3	194.5 194.7 194.8 194.8	-227.6 -192.1 -153.6 -144.9	-226.2 -190.7 -152.2 -143.5	10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00
Z (WFMP B	3.1)								
9,850.0 9,900.0 9,901.4	62.78	89.80 89.80 89.80	9,729.2 9,754.0 9,754.7	194.9 195.1 195.1	-112.5 -69.1 -67.8	-111.2 -67.7 -66.5	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
	/ Miller Fed Com		. ==						
9,901.7		89.80	9,754.8	195.1	-67.6	-66.2	10.00	10.00	0.00
Z (WFMP B 9,950.0	•	89.80	9,774.9	195.3	-23.7	-22.3	10.00	10.00	0.00
10,000.0 10,050.0 10,100.0	77.78	89.80 89.80 89.80	9,791.8 9,804.5 9,812.9	195.4 195.6 195.8	23.3 71.7 121.0	24.7 73.1 122.3	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
10,125.2	85.30	89.80	9,815.5	195.8	146.0	147.3	10.00	10.00	0.00
	2.00 TFO -4.75								
10,200.0		89.68	9,820.7	196.2	220.6	222.0	2.00	1.99	-0.17
10,225.5	87.30 5 hold at 10225.5	89.63	9,822.0	196.3	246.1	247.4	2.00	1.99	-0.17
10,300.0		89.63	9,825.5	196.8	320.5	321.9	0.00	0.00	0.00
10,400.0		89.63	9,830.2	197.5	420.4	421.8	0.00	0.00	0.00
10,500.0		89.63	9,834.9	198.1	520.3	521.7	0.00	0.00	0.00
10,600.0		89.63	9,839.7	198.7	620.2	621.6	0.00	0.00	0.00
10,700.0	87.30	89.63	9,844.4	199.4	720.1	721.4	0.00	0.00	0.00
10,800.0	87.30	89.63	9,849.1	200.0	820.0	821.3	0.00	0.00	0.00
10,900.0	87.30	89.63	9,853.8	200.6	919.8	921.2	0.00	0.00	0.00
11,000.0	87.30	89.63	9,858.5	201.3	1,019.7	1,021.1	0.00	0.00	0.00
11,100.0		89.63	9,863.2	201.9	1,119.6	1,121.0	0.00	0.00	0.00
11,200.0		89.63	9,867.9	202.6	1,219.5	1,220.9	0.00	0.00	0.00
11,300.0		89.63	9,872.6	203.2	1,319.4	1,320.8	0.00	0.00	0.00
11,400.0		89.63	9,877.3	203.8	1,419.3	1,420.7	0.00	0.00	0.00
11,500.0 11,600.0		89.63 89.63	9,882.1 9,886.8	204.5 205.1	1,519.2 1,619.0	1,520.6 1,620.4	0.00 0.00	0.00 0.00	0.00 0.00
11,700.0	87.30	89.63	9,891.5	205.8	1,718.9	1,720.3	0.00	0.00	0.00
11,800.0		89.63	9,896.2	206.4	1,818.8	1,820.2	0.00	0.00	0.00
11,900.0		89.63	9,900.9	207.0	1,918.7	1,920.1	0.00	0.00	0.00
12,000.0		89.63	9,905.6	207.7	2,018.6	2,020.0	0.00	0.00	0.00
12,100.0		89.63	9,910.3	208.3	2,118.5	2,119.9	0.00	0.00	0.00
12,200.0		89.63	9,915.0	208.9	2,218.4	2,219.8	0.00	0.00	0.00
12,300.0		89.63	9,919.8	209.6	2,318.3	2,319.7	0.00	0.00	0.00
12,400.0		89.63	9,924.5	210.2	2,418.1	2,419.6	0.00	0.00	0.00
12,500.0 12,600.0		89.63	9,929.2	210.9	2,518.0	2,519.4	0.00	0.00	0.00
12,600.0		89.63 89.63	9,933.9 9,938.6	211.5 212.1	2,617.9 2,717.8	2,619.3 2,719.2	0.00 0.00	0.00 0.00	0.00 0.00
12,700.0		89.63 89.63	9,938.6 9,943.3	212.1	2,717.8 2,817.7	2,719.2	0.00	0.00	0.00
12,900.0		89.63	9,948.0	213.4	2,917.6	2,919.1	0.00	0.00	0.00
12,500.0	87.30 87.30	89.63	9,952.7	213.4	3,017.5	3,018.9	0.00	0.00	0.00

Database: EDM 5000.14 Server

Company: Matador Production Company

Project: Rustler Breaks
Site: Barry Miller

Well: Barry Miller State Com #221H

Wellbore: Wellbore #1
Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

Mossured Depth Inclination Azimuth Vertical Depth (usft)	nned Survey									
Company Comp	ilileu Survey									
13,132.5	Depth	Inclination		Depth			Section	Rate	Rate	Rate
2 (Blair Shale)	13,10	0.0 87.30	89.63	9,957.5	214.7	3,117.4	3,118.8	0.00	0.00	0.00
13,200.0	13,13	2.5 87.30	89.63	9,959.0	214.9	3,149.8	3,151.2	0.00	0.00	0.00
13,273,7	•	•	00.00	0.000.0	045.0	2 247 2	2 240 7	0.00	0.00	0.00
2 (WFMP B.4)	,			,						
13,400.0 87.30 89.63 9,971.6 216.6 3,417.0 3,418.4 0.00 0.00 0.00 13,500.0 87.30 89.63 9,981.0 217.9 3,616.8 3,618.2 0.00 0.00 0.00 13,600.0 87.30 89.63 9,981.0 217.9 3,616.8 3,618.2 0.00 0.00 0.00 0.00 13,600.0 87.30 89.63 9,981.0 217.9 3,616.8 3,618.2 0.00 0.00 0.00 0.00 13,800.0 87.30 89.63 9,995.7 216.5 3,716.7 3,716.1 0.00 0.00 0.00 0.00 13,800.0 87.30 89.63 9,995.2 219.8 3,916.4 3,917.9 0.00 0.00 0.00 0.00 14,100.0 87.30 89.63 9,995.2 219.8 3,916.4 3,917.9 0.00 0.00 0.00 0.00 14,100.0 87.30 89.63 10.004.6 221.1 4,16.2 4,117.7 0.00 0.00 0.00 0.00 14,200.0 87.30 89.63 10.004.6 221.1 4,16.2 4,117.7 0.00 0.00 0.00 14,200.0 87.30 89.63 10.004.6 221.1 4,16.2 4,117.7 0.00 0.00 0.00 14,200.0 87.30 89.63 10.004.6 221.7 4,216.1 4,217.6 0.00 0.00 0.00 14,400.0 87.30 89.63 10.004.6 221.7 4,216.1 4,217.6 0.00 0.00 0.00 14,400.0 87.30 89.63 10.004.6 222.7 4,216.1 4,217.6 0.00 0.00 0.00 14,400.0 87.30 89.63 10.004.3 222.4 4,316.0 4,317.4 0.00 0.00 0.00 0.00 14,600.0 87.30 89.63 10.004.3 223.4 4,316.9 4,417.3 0.00 0.00 0.00 14,600.0 87.30 89.63 10.028.1 224.3 4,616.7 4,617.1 0.00 0.00 0.00 14,600.2 87.30 89.63 10.028.1 224.3 4,616.7 4,617.1 0.00 0.00 0.00 14,600.2 87.30 89.63 10.038.1 224.3 4,616.7 4,617.1 0.00 0.00 0.00 0.00 14,600.2 87.30 89.63 10.038.2 224.9 4,715.5 4,703.2 0.00 0.00 0.00 0.00 14,800.0 87.30 89.63 10.037.6 225.6 4,815.4 4,816.9 0.00 0.00 0.00 0.00 14,800.0 87.30 89.63 10.037.6 225.6 4,815.4 4,816.9 0.00 0.00 0.00 0.00 14,800.0 87.30 89.63 10.037.6 225.6 4,815.4 4,816.9 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10.037.6 225.6 4,815.4 4,816.9 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10.037.6 225.6 4,815.4 4,816.9 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10.037.6 225.6 4,815.4 4,816.9 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10.037.6 225.6 4,815.4 4,816.9 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10.037.6 225.6 4,815.4 4,816.9 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10.037.5 230.7 5,814.5 5,816.0 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10.037.5 230.7 5,814.5 5,816.0 0.00 0.00 0.00 0.00 15,000.0 87.30 89.				2,22212		-,	-,			
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13,700.0 87.30 89.63 9,985.7 218.5 3,716.7 3,716.1 0.00 0.00 0.00 0.00 13,900.0 87.30 89.63 9,985.2 219.8 3,916.4 3,917.9 0.00 0.00 0.00 0.00 14,000.0 87.30 89.63 9,995.2 219.8 3,916.4 3,917.9 0.00 0.00 0.00 0.00 14,100.0 87.30 89.63 10,004.6 221.1 4,116.2 4,117.7 0.00 0.00 0.00 0.00 14,200.0 87.30 89.63 10,004.6 221.1 4,116.2 4,117.7 0.00 0.00 0.00 0.00 14,300.0 87.30 89.63 10,004.6 221.1 4,116.2 4,117.7 0.00 0.00 0.00 0.00 14,300.0 87.30 89.63 10,009.3 221.7 4,216.1 4,217.6 0.00 0.00 0.00 0.00 14,300.0 87.30 89.63 10,014.0 224.4 4,316.0 4,317.4 0.00 0.00 0.00 0.00 14,600.0 87.30 89.63 10,018.7 223.0 4,415.9 4,417.3 0.00 0.00 0.00 0.00 14,600.0 87.30 89.63 10,028.4 223.6 4,515.8 4,517.2 0.00 0.00 0.00 0.00 14,600.0 87.30 89.63 10,028.4 223.6 4,515.8 4,517.2 0.00 0.00 0.00 0.00 14,600.0 87.30 89.63 10,032.2 224.8 4,701.8 4,703.2 0.00 0.00 0.00 0.00 14,600.0 87.30 89.63 10,032.2 224.8 4,701.8 4,703.2 0.00 0.00 0.00 0.00 14,600.0 87.30 89.63 10,032.2 224.8 4,701.8 4,703.2 0.00 0.00 0.00 0.00 14,600.0 87.30 89.63 10,032.2 224.8 4,701.8 4,703.2 0.00 0.00 0.00 0.00 14,600.0 87.30 89.63 10,032.2 224.8 4,715.5 4,717.0 0.00 0.00 0.00 14,900.0 87.30 89.63 10,032.2 224.8 4,715.5 4,717.0 0.00 0.00 0.00 14,900.0 87.30 89.63 10,032.2 224.8 4,715.5 4,717.0 0.00 0.00 0.00 0.00 14,900.0 87.30 89.63 10,047.0 225.6 4,815.3 4,916.8 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10,047.0 225.8 5,015.2 5,016.7 0.00 0.00 0.00 15,000.0 87.30 89.63 10,047.0 226.8 5,015.2 5,016.7 0.00 0.00 0.00 15,000.0 87.30 89.63 10,051.7 227.5 5,115.1 5,116.6 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10,051.7 227.5 5,115.1 5,116.6 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10,051.7 227.5 5,115.1 5,116.0 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10,064.2 228.1 5,215.0 5,216.4 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10,064.2 228.7 5,314.9 5,316.3 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10,064.2 228.7 5,314.9 5,316.3 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10,084.7 231.9 5,314.5 5,516.1 0.00 0.00 0.00 0.00 15,000.0 87.30 89.63 10,084.7 231.9 5,314.5 5,516.1 0				,			•			
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TD at 17218.0 - BHL - Barry Miller Fed Com #221H	TD at 17	7218.0 - BHL - Barry I	Miller Fed Com	#221H						

Database: EDM 5000.14 Server

Company: Matador Production Company

Project: Rustler Breaks
Site: Barry Miller

Well: Barry Miller State Com #221H

Wellbore: Wellbore #1
Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

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
VP - Barry Miller Fed Co - plan hits target cer - Point		0.00	9,244.5	194.0	-380.0	508,635.00	571,819.00	32° 23′ 53.294 N	104° 6' 2.320 W
FTP - Barry Miller Fed C - plan misses target - Point		0.00 Susft at 9901.	9,817.5 4usft MD (9	194.0 754.7 TVD, 19	-100.0 5.1 N, -67.8 E	508,635.00	572,099.00	32° 23′ 53.288 N	104° 5' 59.054 W
BHL - Barry Miller Fed C - plan hits target cer - Point		0.00	10,151.5	241.0	7,230.7	508,682.00	579,430.00	32° 23′ 53.586 N	104° 4' 33.546 W

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
140.0	140.0	Z (Rustler)	Littlology	1.89	89.60
429.0		Z (Salado)		1.89	89.60
744.0		Z (Castile (T))		1.89	89.60
2,497.1		Z (G30:CS14-CSB)		1.89	89.60
2,568.5		Z (G26: Bell Cyn.)		1.89	89.60
3,408.2		Z (G13: Cherry Cyn.)		1.89	89.60
4,604.0		Z (G7: Brushy Cyn.)		1.89	89.60
5,983.2		Z (G4: BSGL (CS9))		1.89	89.60
6,446.2	6,418.5	Z (L8.2: U. Avalon Shale)		1.89	89.60
6,564.2	6,536.5	Z (L6.3: Avalon Carb)		1.89	89.60
6,608.2	6,580.5	Z (L6.2: L. Avalon Shale)		1.89	89.60
6,698.2	6,670.5	Z (L5.3: FBSC)		1.89	89.60
7,004.2	6,976.5	Z (L5.1: FBSG)		1.89	89.60
7,064.2	7,036.5	Z (M. FBSG)		1.89	89.60
7,213.2	7,185.5	Z (L. FBSG)		1.89	89.60
7,272.2	7,244.5	Z (L4.3: SBSC)		1.89	89.60
7,697.2	7,669.5	Z (L4.1: SBSG)		1.89	89.60
7,868.2	7,840.5	Z (L4.1: SBSG B Carb)		1.89	89.60
7,953.2	7,925.5	Z (SBSG B Target)		1.89	89.60
8,009.2	7,981.5	Z (L4.1: SBSG C)		1.89	89.60
8,031.2	8,003.5	Z (L3.3: TBSC)		1.89	89.60
8,439.2	8,411.5	Z (L3.3.2: Break Sand (T))		1.89	89.60
8,969.2	8,941.5	Z (L3.1: TBSG)		1.89	89.60
9,259.2	9,231.5	Z (L. TBSG)		1.89	89.60
9,289.2	9,261.5	Z (L2: WFMPA)		1.89	89.60
9,430.9	9,401.2	Z (WFMP A Fat)		1.89	89.60
9,691.4	9,627.3	Z (WFMP B)		1.89	89.60
9,810.9	9,707.3	Z (WFMP B.1)		1.89	89.60
9,901.7	9,754.8	Z (WFMP B.2)		1.89	89.60
13,132.5	9,959.0	Z (Blair Shale)		1.89	89.60
13,273.7	9,965.6	Z (WFMP B.4)		1.89	89.60
14,686.2	10,032.2	Z (WFMP B.3)		1.89	89.60

Database: EDM 5000.14 Server

Company: Matador Production Company

Project: Rustler Breaks
Site: Barry Miller

Well: Barry Miller State Com #221H

Wellbore: Wellbore #1
Design: BLM Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Barry Miller State Com #221H

KB @ 3113.5usft KB @ 3113.5usft

Grid

nnotations				
Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	Start Build 1.00
2,300.0	2,297.4	25.4	-49.7	Start 2398.1 hold at 2300.0 MD
4,698.1	4,672.2	177.1	-346.9	Start Drop -1.50
5,231.4	5,203.8	194.0	-380.0	Start 4040.7 hold at 5231.4 MD
9,272.2	9,244.5	194.0	-380.0	Start Build 10.00
10,125.2	9,815.5	195.8	146.0	Start DLS 2 00 TFO -4.75
10,225.5	9,822.0	196.3	246.1	Start 6992.5 hold at 10225.5 MD
17,218.0	10,151.5	241.0	7,230.7	TD at 17218.0

Addendum to Natural Gas Management Plan for Matador's

Michael Ryan TB

VI. Separation Equipment

Flow from the wells will be routed via a flowline to a 48"x15' three phase separator dedicated to the well. The first stage separators are sized with input from BRE ProMax and API 12J. Anticipated production rates can be seen in the below table. Liquid retention times at expected maximum rates will be >3 minutes. Gas will be routed from the first stage separator to sales. Hydrocarbon liquids are dumped from the first stage separator and commingled to one or more heater treaters. The flash gas from the heater treater(s) could either be sent to sales or routed to a compressor if the sales line pressure is higher than the MAWP of the heater treater (125 psi). From the heater treaters, hydrocarbon liquid will be routed to the tanks where vapor is compressed by a VRU if technically feasible to either sales or a compressor if the sales line pressure is higher than the VRU's maximum discharge pressure (~150 psi). Therefore, Matador has sized our separation equipment to optimize gas capture and our separation equipment is of sufficient size to handle the expected volumes of gas.

Well Name	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Barry Miller State Com 221H	400	4,500	2,500
Barry Miller State Com 222H	400	4,500	2,500
Michel Ryan Federal Com 223H	400	4,500	2,500

VII. Operation Practices

Although not a complete recitation of all our efforts to comply with subsection A through F of 19.15.27.8 NMAC, a summary is as follows. During initial flowback we will route the flowback fluids into completion or storage tanks and, to the extent possible, flare rather than vent any gas. We will commence operation of a separator as soon as technically feasible and have instructed our team that we want to connect the gas to sales as soon as possible but not later than 30 days after initial flowback.

Regarding production operations, we have designed our production facilities to be compliant with the requirements of Part E of 19.15.27.8 NMAC. We will instruct our team to perform the AVOs on the frequency required under the rules. While the well is producing, we will take steps to minimize flaring during maintenance, as set forth below, and we have a process in place for the measuring of any flared gas and the reporting of any reportable flaring events.

VII. Best Management Practices

Steps are taken to minimize venting during active or planned maintenance when technically feasible including:

- Isolating the affected component and reducing pressure through process piping
- Blowing down the equipment being maintained to a control device

- Performing preventative maintenance and minimizing the duration of maintenance activities
- Shutting in sources of supply as possible
- Other steps that are available depending on the maintenance being performed

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

		-						
I. Operator: Matador	Production	OGRID: <u>22</u>	28937 Date:			07/26/2023		
II. Type: ⊠Original □	Amendment	due to □ 19.15.27	7.9.D(6)(a) NMA	AC □ 19.15.27.9.	D(6)(b) NMAC [□ Othe	er.
If Other, please describ	oe:							
III. Well(s): Provide the recompleted from a single					wells p	roposed to	be dri	lled or proposed to be
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		ticipated s MCF/D		Anticipated Produced Water BBL/D
Barry Miller State Com 221H	TBD	D 16-22S-28E	855' FNL 430' FWL	400	4,500		2,500	
Barry Miller State Com 222H	TBD	D 21-22S-28E	855' FNL 460' FWL	400	4,500		2,500	
Michel Ryan Federal Com 2231	H TBD	D-16-22S-28E	549' FSL 320' FWL	400	4,500		2,500	
IV. Central Delivery V. Anticipated Schedu proposed to be recomp	lle: Provide the pleted from a s	e following informations	ation for each neconnected to a connected to a conn	central delivery p	oint.	set of we	lls pro	
Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date		Initial Flow Back Date		First Production Date
Barry Miller State Com 221H		05/07/2025	05/25/2025	07/07/2025		08/07/2025		08/08/2025
Barry Miller State Com 222H		04/18/2025	05/06/2025	07/07/2025		08/07/2025		08/08/2025
Michel Ryan Federal Com 2231	I TBD	05/30/2025	05/30/2025	07/07/2025		08/07/2025		08/08/2025
VI. Separation Equiporation VII. Operational Praces	etices: ⊠ Atta F of 19.15.27.	ch a complete des 8 NMAC.	cription of the a	actions Operator v	vill tak	te to comp	oly with	the requirements of
VIII. Best Manageme	nt Practices:	M Attach a comple	ete description of	of Operator's bes	mana	gement pr	actices	s to minimize venting

during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the app licable reporting area must complete this section.

☑ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF	

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

- **XI.** Map. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.
- XII. Line Capacity. The natural gas gathering system \square will \square will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.
- XIII. Line Pressure. Operator \(\subseteq \text{does} \) does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).
- ☐ Attach Operator's plan to manage production in response to the increased line pressure.
- XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☑Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the p ipeline gathering system; or

□ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 d ays after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.