Carlsbad	Field	Offi	ce				
om 3160-3 OCD	Artes	sia	-		FORM AP OMB No 1	PROVED 004-0137	
UNITED	STATES	TEDIOD			Expires July 5. Lease Serial No.	731, 2010	
BUREAU OF LA	ND MANA	GEMENT			SHL: NMNM-121941		
APPLICATION FOR PERI	ИІТ ТО С	RILL OR	REENTER		6. If Indian, Allotee of N/A	r Tribe Name	
a. Type of work: 🔽 DRILL	REENTER	<u></u>	<u> </u>		7. If Unit or CA Agreen	nent, Name and No.	
	Other	ر آرامی ا	ngle Zone 🗖 Multin	de Zone	8. Lease Name and We	ell No 3/6 0	
Name of Operator MATADOR PRODUCTION C	OMPANY	<u>()</u>	9937)		9. API Well No.	4124	
a. Address 6400 LB LEBEEWAY SHITE 1600	3	b. Phone No.	(include area code)		10. Field and Pool, or Ex	ploratory	
DALLAS, TX 75240		WILDCAT; WOLFCA	MP Y				
Location of Well (Report location clearly and in accord		11. Sec., T. R. M. or Blk	and Survey or Area				
At surface 188 FSL & 635' FEL					SESE 31-23S-28E N	MPM	
At proposed prod. zone 240' FNL & 990' FEL							
Distance in miles and direction from nearest town or po 2 AIR MILES SW OF LOCING, NM	st office*				12. County or Parish EDDY	13. State NM	
Distance from proposed* SHL:188' location to nearest property or lease line, ft. BHL:240' (Also to nearest drig. unit line, if any)		16. No. of a BLM lease comm. are	cres in lease = 280 acres a = 320 acres	17. Spacin E2 31-2	ing Unit dedicated to this well 23S-28E		
B. Distance from proposed location* to nearest well, drilling, completed, BHL: 30' (Swee	eney 124)	24) 19. Proposed Depth 20. BL			BIA Bond No. on file AB-001079		
applied for, on this lease, it.	,						
Elevations (Show whether DF, KDB, RT, GL, etc.) 3101' UNGRADED		10/01/201	nate date work will sta 6	ri*	23. Estimated duration 3 MONTHS		
		24. Attac	hments		<u></u>	<u></u>	
e following, completed in accordance with the requirement	nts of Onshore	Oil and Gas	Order No.1, must be a	ttached to th	is form:		
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Fo SUPO must be filed with the appropriate Forest Service	rest System L Office).	ands, the	 Bond to cover t Item 20 above). Operator certific Such other site BI M 	he operatio cation specific inf	ns unless covered by an ex ormation and/or plans as n	xisting bond on file (see	
. Signature		Name	(Printed/Typed)			Date	
allo		SAM	PRYOR (PHON	E: 972-37	1-5241)	09/02/2016	
e SENIOR STAFF LANDMAN			(FAX: 9	72-371-5	201)		
proved by (Signature) Certy A. Myt	ī	Name	(Printed/Typed)	! Lay	1 Jan 1	Date 22/16	
FOR FIELD MANAG	ĒR	Office	CARI	SRAF) FIFI D OFF	ICF	
plication approval does not warrant or certify that the ap nduct operations thereon. notitions of approval, if any, are attached.	plicant holds	legal or equit	able title to those righ	ts in the sub	ject lease which would ent	itle the applicant to	
Ie 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, ates any false, fictitious or fraudulent statements or represent	make it a crir entations as to	me for any pe	erson knowingly and v ithin its jurisdiction.	villfully to n	nake to any department or	agency of the United	
Continued on page 2)					*(Instru	ictions on page 2)	
/	A	PPROV	AL FOR TWO	D YEAF	RS	A.F.	
				NN	A OIL CONSERV		
ATTACHED FOR					IAN 0 3 201	7	
					JULIE A G (101	1	

SE CONDITIONS OF APPROVAL

.

PECEIVED , S Matador Production Company Charlie Sweeney Federal 31-23S-28E 204H SHL 188' FSL & 635' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 990' FEL Sec. 31, T. 23 S., R. 28 E. Eddy County, NM

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements. Executed this <u>11th</u> day of Julv. 2016.

Brian Wood, Consultant Permits West, Inc. 37 Verano Loop, Santa Fe, NM 87508 (505) 466-8120 FAX: (505) 466-9682

Cellular: (505) 699-2276

Field representative will be: Sam Pryor, Senior Staff Landman Matador Production Company 5400 LBJ Freeway, Suite 1500 Dallas TX 75240 Phone: (972) 371-5241 FAX: (214) 866-4841



 District I

 1625 N. French Dr., Hobbs, NM 88240

 Phone: (575) 393-6161

 Phone: (575) 393-6161

 Particle II

 811 S. First St., Artesia, NM 88210

 Phone: (575) 748-1283

 Phone: (505) 334-6178

 Phone: (505) 334-6178

 Phone: (505) 334-6178

 Phone: (505) 334-6178

 Phone: (505) 476-3460

 Phone: (505) 476-3460

 Phone: (505) 476-3460

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Sante Fe, NM 87505 FORM C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-01	API Number	4024	! 9	² Pool Code	4	WILDCAT; V	³ Pool Nam	e Y		
⁴ Property (3160	Code	·,		*w #	⁶ Well Number #204H					
⁷ ogrid i 22893	No. 7		⁸ Operator Name ⁹ Elevation MATADOR PRODUCTION COMPANY 3101'							
					¹⁰ Surface Loo	cation				
UL or lot no. P	Section 31	Township 23–S	Range 28-E	Lot Idn —	Feet from the 188'	North/South line SOUTH	Feet from the 635'	East/West line EAST	County EDDY	
UL or lot no. A	Section 31	Township 23–S	Range 28–E	Lot Idn —	Feet from the 240'	North/South line	Feet from the 990'	East/West line EAST	County EDDY	
¹² Dedicated Acres 320	¹³ Joint or 1	Infill ¹⁴ Co	nsolidation Cod	le ¹⁵ Orde	r No.				<u>, , , , , , , , , , , , , , , , , , , </u>	

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.



LOCATION & ELEVATION VERIFICATION MAP



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

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET.

LOYALTY INNOVATION LEGACY 1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140 <u>TELEPHONE:</u> (817) 744-7512 • FAX (817) 744-7548 2903 NORTH BIG SPRING - MIDLAND, TEXAS 79705 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743 WWW.TOPOGRAPHIC.COM





TOPO! map printed on 05/26/16 from "Untitled.tpo"











SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M. EDDY COUNTY, NEW MEXICO



ORIGINAL DOCUMENT SIZE: 8.5" X 11"

S:SURVEYMATADOR_RESOURCES:CHARLIE_SWEENEY_FED_COM_31-23S-28E_204H;FINAL_PRODUCTS:LO_CHARLIE_SWEENEY_FED_COM_31-23S-28E_204H;REV3.DWG 4/27/2016 5:32:22 PM jstovali















XX RESOURCES CHARLIE_SWEENEY_FEDERAL_FAST_LINE_EASEMENT/FINAL_PRODUCTS/EP_CHARLIE_SWEENEY_FEDERAL_FAST_LINE_EASEMENT_LONGWOOD.DWG 6/21/2016 3 04 58 PM (sto

DRILL PLAN PAGE 1

Matador Production Company Charlie Sweeney Fed Com 204H SHL 188' FSL & 635' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 990' FEL Sec. 31, T. 23 S., R. 28 E. Eddy County, NM

Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD	Bearing
Quaternary	GL	Water
Eroded Salado/Rustler	460	Water/Salt
Castille	780	Salt
Base of Salt/Top of Anhydrite	2347	Barren
Lamar	2500	Barren
Bell Canyon	2533	Hydrocarbon
Cherry Canyon	3330	Hydrocarbon
Brushy Canyon	4524	Hydrocarbon
Bone Spring Lime	6067	Hydrocarbon
1st Bone Spring Sand	7012	Hydrocarbon
2nd Bone Spring Carbonate	7277	Hydrocarbon
2nd Bone Spring Sand	7657	Hydrocarbon
3 rd Bone Spring Carbonate	7947	Hydrocarbon
3 rd Bone Spring Sand	9032	Hydrocarbon
Wolfcamp	9357	Hydrocarbon
Wolfcamp X	9387	Hydrocarbon
Wolfcamp V	0497	Hydrocarbon
	9467	(& Target Formation)
TVD (Wolfcamp Y)	9532	Hydrocarbon
MD (Wolfcamp Y)	14299	Hydrocarbon

2. NOTABLE ZONES

Closest water well (C 02022/02955/03218) is 3122' west-northwest. Depth of well and depth to water have not been reported to the State. Proposed depth was 190'. Closest (\approx 4800' south) well (C 01244) with reported depths found water at 70'.

3. PRESSURE CONTROL

A BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram and 1 annular preventer will be installed. The BOP will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams.

Matador Production Company Charlie Sweeney Fed Com 204H SHL 188' FSL & 635' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 990' FEL Sec. 31, T. 23 S., R. 28 E. Eddy County, NM

An accumulator that meets the requirements of Onshore Order 2 for the pressure rating of the BOP stack will be present. Rotating head will be installed as needed.

Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as recommended in Onshore Order 2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs. Test pressures will be as follows. After surface casing is set and the BOP is nippled up, the BOP pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate #1, pressure tests will be made to 250 psi low and 3000 psi high. On the intermediate #2, pressure tests will be made to 250 psi low and 5000 psi high. The annular preventer will be tested to 250 psi low and 1000 psi high on the surface casing, and 250 psi low and 2500 psi high on the intermediate #1 and #2 casing. In the case of running a speed head with landing mandrel for 9-5/8" and 7" casing the initial, after surface casing is set, BOP test pressures will be 250 psi low and 3000 psi high with wellhead seals tested to 5000 psi once the 9-5/8" casing has been landed and cemented. The BOP will then be lifted to install the 'C-section' of the wellhead. Matador will nipple the BOP back up and the pressure tests will be made to 250 psi low and 2500 psi low and 5000 psi high and the annular will be tested to 250 psi low and 2500 psi high.

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

4. CASING & CEMENT

Hole will extend north of the drilling window to allow for pump installation. All perforations will be \geq 330' from the dedication perimeter.

Hole O. D.	Set @ (MD)	Casing O. D.	Age	Weight (lb/ft)	Grade	Thread Collar	Collapse	Burst	Tension
17.5"	550'	13.375"	New	54.5	J-55	втс	1.125	1.125	1.8
12.25"	2600'	9.625"	New	40	J-55	BTC	1.125	1.125	1.8
8.75"	9700'	7"	New	29	P-110	втс	1.125	1.125	1.8

DRILL PLAN PAGE 3

Matador Production Company Charlie Sweeney Fed Com 204H SHL 188' FSL & 635' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 990' FEL Sec. 31, T. 23 S., R. 28 E. Eddy County, NM

6.125″	1429	99'	4.5″	New	13.	5	P-110) BTC	C/TXP 1.125 1.125		1.8	
Nam	e	Туре	Sacks	; Yi	ield	Cı	ı. Ft.	Weight	Veight Blend			
Surfac	ce	Lead	240	1	.82	43	6.8	12.8	Clas	s C + Bento 3% Na	onite + 29 Cl + LCM	% CaCl ₂ +
		Tail	350	1	.38	4	183	14.8		Class C + 59	% NaCl +	LCM
TO	C = GL			100%	Exces	55		Centra	alizers	per Onshor	e Order 2	2.III.B.1f
Intermed	diate	Lead	550	2	.13	11	71.5	12.6	Clas	s C + Bento 8% Na	onite + 19 Cl + LCM	% CaCl ₂ +
		Tail	270	1	.38	3	72.6	14.8	.8 Class C + 5% NaCl + LCM			LCM
то	C = GL			100%	Exces	55		2 on btm jt, 1 on 2nd jt, 1 every 4th jt surface			4th jt to	
Intermed 2	diate	Lead	530	2	.13	11	28.9	12.6	ТХ	+ Fluid Los Retard	s + Dispe er + LCN	ersant + I
		Tail	300	1	.38	4	114	14.8	ТХ	+ Fluid Los Retard	s + Dispe er + LCN	ersant +
TOC = 1500		0'		35%	5% Excess			2 on btm jt, 1 on 2nd jt, 1 every other jt top of tail cement (500' above TOC)			ther jt to TOC)	
Produc	tion	Tail	510	1	.17	. 5	585	15.8	Class	H + Fluid L Retard	oss + Dis er + LCN	persant + I
тос	= 920	0'		25%	Exces	s		2 on btm jt, 1 on 2nd jt, 1 every other jt top of curve			ther jt to	

5. MUD PROGRAM

An electronic Pason mud monitoring system satisfying the requirements of Onshore Order 1 will be used. All necessary mud products for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Name	Hole Size	Mud Weight	Visc	Fluid Loss	Type Mud
Surface	17-1/2"	8.30	28	NC	FW Spud Mud
Intermediate	12-1/4"	10.00	30-32	NC	Brine Water
Intermediate 2	8-3/4"	8.00	30-31	NC	FW/Cut Brine
Production	6.125"	12.50	50-60	<10	OBM

DRILL PLAN PAGE 4

Matador Production Company Charlie Sweeney Fed Com 204H SHL 188' FSL & 635' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 990' FEL Sec. 31, T. 23 S., R. 28 E. Eddy County, NM

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud-logging program will be used from 9700' to TD.

No electric logs are planned. GR will be collected through the MWD tools from intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈6700 psi. Expected bottom hole temperature is ≈160° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H_2S from the surface to the Bone Spring to meet the BLM's minimum requirements for the submission of an " H_2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since Matador has an H_2S safety package on all wells, attached is an " H_2S Drilling Operations Plan". Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take \approx 3 months to drill and complete the well.





Matador Resources

Eddy County, New Mexico (NAD 27) Charlie Sweeney Federal 31-23S-28E #204H

Wellbore #1

Plan: Design #1

Standard Planning Report

05 August, 2016



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MS Energy Services

Planning Report



Database: Company: Project: Site: Well: Wellbore: Design:	EDM Conroe Matador Resources Eddy County, New Mexico (NAD 27) Charlie Sweeney Federal 31-23S-28E #204H Wellbore #1 Design #1			Local Co TVD Refe MD Refe North Re Survey C	Local Co-ordinate Reference: Well #2 TVD Reference: WELL (MD Reference: WELL (North Reference: Grid Survey Calculation Method: Minimu			Patterson 297) Patterson 297)
Project	Eddy Co	ounty, New Mexico	(NAD 27)		<u>,</u>			
Map System: Geo Datum: Map Zone:	US State NAD 1927 New Mexi	Plane 1927 (Exac 7 (NADCON CONI ico East 3001	t solution) JS)	System D	atum:	Mean Sea Le	evel	
Well	#204H			1997 - Bandar - James Antonio Sana Balandara ya				
Well Position	+N/-S	456,418.98 usft	Northing:		456,418.98 usft	Latitude:		32° 15' 16.676 N
Position Uncertain	nty	0.00 usft	Wellhead E	levation:	500,009.09 USI	Ground Leve	ł:	3,101.00 usft
Wellbore	Wellbon	e #1		·			<u> </u>	, , ;
Magnetics	Mode	el Name S	Sample Date	Declina (°)	tion	Dip Angle (°)	Fiel	d Strength (nT)
• 	В	GGM2016	8/4/2016		7.35	60.0	1	48,069
Design	Design #	¢1						
Audit Notes:								
Version:			Phase:	PROTOTYPE	Tie On D	epth:	0.00	
Vertical Section:		Depth Fr	om (TVD)	+N/-S	+E/-W		Direction	1
		(u : 0.	sπ) 00	(usπ) 0.00	(usπ) 0.00		(*) 0.49	
Plan Survey Tool	Program	Date 8/5/20)16					
Depth From (usft)	Depth [*] (usft)	To Survey (Well	bore)	Tool Name	Rer	narks		
1 0.00	14,299.	24 Design #1 (W	ellbore #1)	MWD				
				OWSG MWE) - Standard			

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,266.67	4.00	238.45	1,266.45	-4.87	-7.93	1.50	1.50	0.00	238.45	
2,750.00	4.00	238.45	2,746.17	-59.02	-96.10	0.00	0.00	0.00	0.00	
3,016.51	8.00	238.45	3,011.17	-73.59	-119.83	1.50	1.50	0.00	0.00	
3,633.90	8.00	238.45	3,622.55	-118.54	-193.03	0.00	0.00	0.00	0.00	
4,167.08	0.00	0.00	4,154.00	-137.98	-224.69	1.50	-1.50	0.00	180.00	VP - Charlie Sween
8,959.11	0.00	0.00	8,946.03	-137.98	-224.69	0.00	0.00	0.00	0.00	
9,709.11	75.00	351.32	9,499.46	281.82	-288.78	10.00	10.00	0.00	351.32	
9,959.11	90.00	351.32	9,532.00	526.14	-326.08	6.00	6.00	0.00	0.00	
10,264.80	90.00	0.49	9,532.00	830.73	-347.88	3.00	0.00	3.00	90.00	
 14,299.43	90.00	0.49	9,532.00	4,865.21	-313.32	0.00	0.00	0.00	0.00	PBHL - Charlie Swe



#204H

Database:

Company:

Project:

Design:

Site:

Well: Wellbore:

MS Energy Services

Planning Report



Well #204H EDM Conroe Local Co-ordinate Reference: Matador Resources WELL @ 3128.50usft (Patterson 297) TVD Reference: Eddy County, New Mexico (NAD 27) WELL @ 3128.50usft (Patterson 297) MD Reference: Charlie Sweeney Federal 31-23S-28E Grid North Reference: Survey Calculation Method: Minimum Curvature Wellbore #1 Design #1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogieg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP. 1.50°/	/100' Build								
1.100.00	1.50	238.45	1,099.99	-0.68	-1.12	-0.69	1.50	1.50	0.00
1.200.00	3.00	238.45	1,199.91	-2.74	-4.46	-2.78	1.50	1.50	0.00
1,266.67	4.00	238.45	1,266.45	-4.87	-7.93	-4.94	1.50	1.50	0.00
Begin 4 00	° Tangent		.,				-	_	
1,300.00	4.00	238.45	1,299.70	-6.09	-9.91	-6.17	0.00	0.00	0.00
1 400 00	4 00	238 45	1 300 46	_0 74	"15 8 5	-0.87	0.00	0.00	0 OO
1,400.00	4.00	230.43	1 400 22	-3.14	_21.80	-3.07	0.00	n nn	0.00 0.00
1,500.00	4.00	230.45	1,499.22	-17.04	-21.00	-17.27	0.00	0.00	0.00
1,000.00	4.00	238.45	1,030.37	-17.04	-33 60	-20.97	0.00	0.00	0.00
1,700.00	4.00	238.45	1 798 48	-24.34	-39.63	-24.68	0.00	0.00	0.00
1,000.00	4.00	200.45	1,10010	27.01	45.50	21.00	0.00	0.00	0.00
1,900.00	4.00	238.45	1,898.24	-27.99	-45.58	-28.38	0.00	0.00	0.00
2,000.00	4.00	238.45	1,998.00	-31.64	-51.52	-32.08	0.00	0.00	0.00
2,100.00	4.00	238.45	2,097.75	-35.29	-57,40	-35.70	0.00	0.00	0.00
2,200.00	4.00	238.45	2,197.51	-38.94	-03.41	-39.40	0.00	0.00	0.00
2,300.00	4.00	236.45	2,297.27	-42.59	-09.30	-43.10	0.00	0.00	0.00
2,400.00	4.00	238.45	2,397.02	-46.24	-75.30	-46.88	0.00	0.00	0.00
2,500.00	4.00	238.45	2,496.78	-49.89	-81.24	-50.58	0.00	0.00	0.00
2,600.00	4.00	238.45	2,596.54	-53.54	-87.19	-54.28	0.00	0.00	0.00
2,700.00	4.00	238.45	2,696.29	-57.19	-93.13	-57.99	0.00	0.00	0.00
2,750.00	4.00	238.45	2,746.17	-59.02	-96.10	-59.84	0.00	0.00	0.00
Begin 1.50	°/100' Build								
2,800.00	4.75	238.45	2,796.02	-61.01	-99.35	-61.86	1.50	1.50	0.00
2,900.00	6.25	238.45	2,895.56	-66.03	-107.52	-66.94	1.50	1.50	0.00
3,000.00	7.75	238.45	2,994.81	-72.40	-117.90	-73.41	1.50	1.50	0.00
3,016.51	8.00	238.45	3,011.17	-73.59	-119.83	-74.61	1.50	1.50	0.00
Begin 8.00	° Tangent								_
3,100.00	8.00	238.45	3,093.84	-79.67	-129.73	-80.77	0.00	0.00	0.00
3,200.00	8.00	238.45	3,192.87	-86.95	-141.59	-88.16	0.00	0.00	0.00
3,300.00	8.00	238.45	3,291.90	-94.23	-153.44	-95.54	0.00	0.00	0.00
3,400.00	8.00	238.45	3,390.93	-101.51	-165.30	-102.92	0.00	0.00	0.00
3,500.00	8.00	238.45	3,489.95	-108.79	-177.16	-110.30	0.00	0.00	0.00
3,600.00	8.00	238.45	3,588.98	-116.07	-189.01	-117.68	0.00	0.00	0.00
3.633.90	8.00	238.45	3,622,55	-118.54	-193.03	-120.19	0.00	0.00	0.00
Begin 1.50	°/100' Drop		-,						
3,700,00	7.01	238.45	3,688.09	-123.05	-200.39	-124.76	1.50	-1.50	0.00
3,800.00	5.51	238.45	3,787,49	-128.76	-209.67	-130.55	1.50	-1.50	0.00
3,900,00	4 01	238 45	3,887 14	-133.10	-216.74	-134.94	1.50	-1.50	0.00
4,000,00	2.51	238.45	3,986.98	-136.07	-221.58	-137.96	1.50	-1.50	0.00
4.UUUU.UU			2,222.30						
4,000.00	4.04	000 45	4 000 00	407.07	004.40	400 50	4 60	1 50	0.00
4,000.00	1.01	238.45	4,086.93	-137.67	-224.19	-139.58	1.50	-1.50	0.00

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COMPASS 5000.14 Build 85



Planning Report



Database: EDM Conroe Local Co-ordinate Reference: Well #204H Company: Matador Resources WELL @ 3128.50usft (Patterson 297) TVD Reference: Project: Eddy County, New Mexico (NAD 27) MD Reference: WELL @ 3128.50usft (Patterson 297) Site: Charlie Sweeney Federal 31-23S-28E North Reference: Grid Well: #204H Survey Calculation Method: Minimum Curvature Wellbore: Wellbore #1 Design #1 Design: **Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4 200 00	0.00	0.00	4 186 92	-137 98	-224 69	-139 90	0.00	0.00	0.00
4.300.00	0.00	0.00	4,286.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
4,400.00	0.00	0.00	4,386.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
4 500 00	0.00	0.00	1 496 02	127.09	224 60	120.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,400.92	-137.90	-224.09	-139.90	0.00	0.00	0.00
4 700 00	0.00	0.00	4,500.52	-137.90	-224.09	-139.90	0.00	0.00	0.00
4,700.00	0.00	0.00	4 786 92	-137.98	-224.09	-139.90	0.00	0.00	0.00
4,900.00	0.00	0.00	4,886.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
5 000 00	0.00	0.00	4 096 02	127.09	224 60	120.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5 086 92	-137.90	-224.09	-139.90	0.00	0.00	0.00
5 200 00	0.00	0.00	5 186 92	-137.98	-224 69	-139.90	0.00	0.00	0.00
5 300 00	0.00	0.00	5 286 92	-137.98	-224 69	-139.90	0.00	0.00	0.00
5,400.00	0.00	0.00	5,386.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
5 500 00	0.00	0.00	5 486 92	-137 98	-224 69	-139.90	0.00	0.00	0.00
5.600.00	0.00	0.00	5,586.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
5,700.00	0.00	0.00	5.686.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
5,800.00	0.00	0.00	5,786.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
5,900.00	0.00	0.00	5,886.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
6.000.00	0.00	0.00	5.986.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
6,100.00	0.00	0.00	6,086.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
6,200.00	0.00	0.00	6,186.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
6,300.00	0.00	0.00	6,286.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
6,400.00	0.00	0.00	6,386.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
6,500.00	0.00	0.00	6,486.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
6,600.00	0.00	0.00	6,586.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
6,700.00	0.00	0.00	6,686.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
6,800.00	0.00	0.00	6,786.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
6,900.00	0.00	0.00	6,886.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
7,000.00	0.00	0.00	6,986.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
7,100.00	0.00	0.00	7,086.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
7,200.00	0.00	0.00	7,186.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
7,300.00	0.00	0.00	7,286.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
7,400.00	0.00	0.00	7,300.92	-137.90	-224.09	-139.90	0.00	0.00	0.00
7,500.00	0.00	0.00	7,486.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
7,600.00	0.00	0.00	7,586.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
7,700.00	0.00	0.00	7,000.92	-137.90	-224.09	-139.90	0.00	0.00	0.00
7,900.00	0.00	0.00	7,886.92	-137.98	-224.09	-139.90	0.00	0.00	0.00
8 000 00	0.00	0.00	7,000.02	107.00	221.00	100.00	0.00	0.00	0.00
8 100 00	0.00	0.00	7,980.92	-137.98	-224.09	-139.90	0.00	0.00	0.00
8 200 00	0.00	0.00	8 186 02	-137.90	-224.09	-139.90	0.00	0.00	0.00
8,300,00	0.00	0.00	8 286 92	-137.98	-224.09	-139.90	0.00	0.00	0.00
8,400.00	0.00	0.00	8,386.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
8 500 00	0.00	0.00	8 486 92	-137 98	-224 69	-139 90	0.00	0.00	0.00
8.600.00	0.00	0.00	8.586.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
8,700.00	0.00	0.00	8,686.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
8,800.00	0.00	0.00	8,786.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
8,900.00	0.00	0.00	8,886.92	-137.98	-224.69	-139.90	0.00	0.00	0.00
8,959.11	0.00	0.00	8,946.03	-137.98	-224.69	-139.90	0.00	0.00	0.00
Begin 10.0	0°/100' Build	-	, -						
9,000.00	4.09	351.32	8,986.89	-136.54	-224.91	-138.46	10.00	10.00	0.00
9,050.00	9.09	351.32	9,036.54	-130.87	-225.78	-132.79	10.00	10.00	0.00
9,100.00	14.09	351.32	9,085.51	-120.94	-227.29	-122.88	10.00	10.00	0.00
9,150.00	19.09	351.32	9.133.41	-106.83	-229.44	-108.79	10.00	10.00	0.00

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COMPASS 5000.14 Build 85



Planning Report



EDM Conroe Well #204H Local Co-ordinate Reference: Database: Matador Resources WELL @ 3128.50usft (Patterson 297) Company: TVD Reference: Eddy County, New Mexico (NAD 27) Project: WELL @ 3128.50usft (Patterson 297) MD Reference: Charlie Sweeney Federal 31-23S-28E Site: North Reference: Grid Well: #204H Survey Calculation Method: Minimum Curvature Wellbore: Wellbore #1 Design #1 Design: Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9.200.00	24.09	351.32	9,179.89	-88.65	-232.22	-90.64	10.00	10.00	0.00
9,250.00	29.09	351.32	9,224.59	-66.54	-235.60	-68.55	10.00	10.00	0.00
9,300.00	34.09	351.32	9,267.16	-40.65	-239.55	-42.70	10.00	10.00	0.00
9,350.00	39.09	351.32	9,307.30	-11.20	-244.04	-13.29	10.00	10.00	0.00
9,400.00	44.09	351.32	9,344.68	21.60	-249.05	19.47	10.00	10.00	0.00
9,450.00	49.09	351.32	9,379.03	57.49	-254.53	55.31	10.00	10.00	0.00
9,500.00	54.09	351.32	9,410.09	96.21	-260.44	93.98	10.00	10.00	0.00
9,550.00	59.09	351.32	9,437.61	137.46	-266.74	135.17	10.00	10.00	0.00
9,600.00	64.09	351.32	9,461.39	180.92	-273.37	178.57	10.00	10.00	0.00
9,650.00	69.09	351.32	9,481.25	226.26	-280.30	223.86	10.00	10.00	0.00
9,700.00	74.09	351.32	9,497.04	273.14	-287.45	270.68	10.00	10.00	0.00
9,709.11	75.00	351.32	9,499.46	281.82	-288.78	279.34	10.00	10.00	0.00
Begin 6.00)°/100' Build								
9,750.00	77.45	351.32	9,509.20	321.08	-294.77	318.55	6.00	6.00	0.00
9,800.00	80.45	351.32	9,518.78	369.59	-302.18	366.99	6.00	6.00	0.00
9,850.00	83.45	351.32	9,525.78	418.52	-309.65	415.86	6.00	6.00	0.00
9,900.00	86.45	351.32	9,530.17	467.75	-317.16	465.02	6.00	6.00	0.00
9,950.00	89.45	351.32	9,531.96	517.14	-324.70	514.35	6.00	6.00	0.00
9,959.11	90.00	351.32	9,532.00	526.14	-326.08	523.34	6.00	6.00	0.00
Begin 90.0	0° Lateral; Be	gin 3.00°/100	' Turn						
10,000.00	90.00	352.55	9,532.00	566.63	-331.82	563.77	3.00	0.00	3.00
10,100.00	90.00	355.55	9,532.00	666.08	-342.19	663.13	3.00	0.00	3.00
10,200.00	90.00	358.55	9,532.00	765.94	-347.34	762.94	3.00	0.00	3.00
10,264.80	90.00	0.49	9,532.00	830.73	-347.88	827.73	3.00	0.00	3.00
Hold 0.49°	Azm								
10,300.00	90.00	0.49	9,532.00	865.93	-347.58	862.93	0.00	0.00	0.00
10,400.00	90.00	0.49	9,532.00	965.93	-346.72	962.93	0.00	0.00	0.00
10,500.00	90.00	0.49	9,532.00	1,065.92	-345.87	1,062.93	0.00	0.00	0.00
10,600.00	90.00	0.49	9,532.00	1,165.92	-345.01	1,162.93	0.00	0.00	0.00
10,700.00	90.00	0.49	9,532.00	1,265.92	-344.15	1,262.93	0.00	0.00	0.00
10,800.00	90.00	0.49	9,532.00	1,365.91	-343.30	1,362.93	0.00	0.00	0.00
10,900.00	90.00	0.49	9,532.00	1,465.91	-342.44	1,462.93	0.00	0.00	0.00
11,000.00	90.00	0.49	9,532.00	1,565.90	-341.58	1,562.93	0.00	0.00	0.00
11,100.00	90.00	0.49	9,532.00	1,665.90	-340.73	1,662.93	0.00	0.00	0.00
11,200.00	90.00	0.49	9,532.00	1,765.90	-339.87	1,762.93	0.00	0.00	0.00
11,300.00	90.00	0.49	9,532.00	1,865.89	-339.01	1,862.93	0.00	0.00	0.00
11,400.00	90.00	0.49	9,532.00	1,965.89	-338.16	1,962.93	0.00	0.00	0.00
11,500.00	90.00	0.49	9,532.00	2,005.09	-337.30	2,062.93	0.00	0.00	0.00
11,600.00	90.00	0.49	9,532.00	2,165.88	-336.44	2,162.93	0.00	0.00	0.00
11,700.00	90.00	0.49	9,532.00	2,265.88	-335.59	2,262.93	0.00	0.00	0.00
11,800.00	90.00	0.49	9,532.00	2,365.88	-334.73	2,362.93	0.00	0.00	0.00
12,000,00	90.00	0.49	9,532.00	2,400.07	-333.07	2,402.93	0.00	0.00	0.00
12,000.00	90.00	0.49	9,002.00	2,000.07	-333.02	2,002.00	0.00	0.00	0.00
12,100.00	90.00	0.49	9,532.00	2,665.86	-332.16	2,662.93	0.00	0.00	0.00
12,200.00	90.00	0.49	9,532.00	2,765.86	-331.30	2,762.93	0.00	0.00	0.00
12,300.00	90.00	0.49	9,532.00	∠,000.00 2.065.05	-330.45	2,002.93	0.00	0.00	0.00
12,400.00	90.00	0.49	9,032.00	2,903.83	-329.39	2,902.93	0.00	0.00	0.00
12,000.00	90.00	0.49	9,032.00	3,003.00	-320.73	3,002.93	0.00	0.00	0.00
12,600.00	90.00	0.49	9,532.00	3,165.85	-327.88	3,162.93	0.00	0.00	0.00
12,700.00	90.00	0.49	9,532.00	3,265.84	-327.02	3,262.93	0.00	0.00	0.00
12,800.00	90.00	0.49	9,532.00	3,365.84	-326.16	3,362.93	0.00	0.00	0.00
12,900.00	90.00	0.49	9,532.00	3,465.83	-325.31	3,462.93	0.00	0.00	0.00
13,000.00	90.00	0.49	9,532.00	3,565.83	-324.45	3,562.93	0.00	0.00	0.00

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COMPASS 5000.14 Build 85



Planning Report



Database: Company: Project: Site: Well: Wellbore: Design:	EDM Conroe Matador Resources Eddy County, New Mexico (NAD 27) Charlie Sweeney Federal 31-23S-28E #204H Wellbore #1 Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature
Planned Survey	I		

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)
13,100.00	90.00	0.49	9,532.00	3,665.83	-323.59	3,662.93	0.00	0.00	0.00
13,200.00	90.00	0.49	9,532.00	3,765.82	-322.74	3,762.93	0.00	0.00	0.00
13,300.00	90.00	0.49	9,532.00	3,865.82	-321.88	3,862.93	0.00	0.00	0.00
13,400.00	90.00	0.49	9,532.00	3,965.82	-321.02	3,962.93	0.00	0.00	0.00
13,500.00	90.00	0.49	9,532.00	4,065.81	-320.17	4,062.93	0.00	0.00	0.00
13,600.00	90.00	0.49	9,532.00	4,165.81	-319.31	4,162.93	0.00	0.00	0.00
13,700.00	90.00	0.49	9,532.00	4,265.81	-318.45	4,262.93	0.00	0.00	0.00
13,800.00	90.00	0.49	9,532.00	4,365.80	-317.60	4,362.93	0.00	0.00	0.00
13,900.00	90.00	0.49	9,532.00	4,465.80	-316.74	4,462.93	0.00	0.00	0.00
14,000.00	90.00	0.49	9,532.00	4,565.79	-315.89	4,562.93	0.00	0.00	0.00
14,100.00	90.00	0.49	9,532.00	4,665.79	-315.03	4,662.93	0.00	0.00	0.00
14,200.00	90.00	0.49	9,532.00	4,765.79	-314.17	4,762.93	0.00	0.00	0.00
14,299.43	90.00	0.49	9,532.00	4,865.21	-313.32	4,862.35	0.00	0.00	0.00
PBHL									

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 - Charlie Sweeney - plan hits target ce - Point	0.00 nter	0.00	4,154.00	-137.98	-224.69	456,281.00	565,785.00	32° 15' 15.315 N	104° 7' 13.911 W
PBHL - Charlie Sweer - plan hits target ce - Point	0.00 nter	0.00	9,532.00	4,865.21	-313.32	461,284.19	565,696.37	32° 16' 4.830 N	104° 7' 14.828 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (")	Hole Diameter ('')
550.00	550.00	13 3/8"		13-3/8	17-1/2
2,600.00	2,596.54	9 5/8"		9-5/8	12-1/4
9,700.00	9,497.04	7"		7	7-1/2
14,299.43	9,532.00	4 1/2"		4-1/2	6



Planning Report



Well #204H Grid

EDM Conroe Local Co-ordinate Reference: Database: Company: Matador Resources TVD Reference: WELL @ 3128.50usft (Patterson 297) Project: Eddy County, New Mexico (NAD 27) MD Reference: WELL @ 3128.50usft (Patterson 297) Site: Charlie Sweeney Federal 31-23S-28E North Reference: Well: #204H Survey Calculation Method: Minimum Curvature Wellbore: Wellbore #1 Design: Design #1

Plan Annotations

Measured Vertical		Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,000.00	1,000.00	0.00	0.00	KOP, 1.50°/100' Build
1,266.67	1,266.45	-4.87	-7.93	Begin 4.00° Tangent
2,750.00	2,746.17	-59.02	-96.10	Begin 1.50°/100' Build
3,016.51	3,011.17	-73.59	-119.83	Begin 8.00° Tangent
3,633.90	3,622.55	-118.54	-193.03	Begin 1.50°/100' Drop
4,167.08	4,154.00	-137.98	-224.69	Begin Vertical Hold
8,959.11	8,946.03	-137.98	-224.69	Begin 10.00°/100' Build
9,709.11	9,499.46	281.82	-288.78	Begin 6.00°/100' Build
9,959.11	9,532.00	526.14	-326.08	Begin 90.00° Lateral; Begin 3.00°/100' Turn
10,264.80	9,532.00	830.73	-347.88	Hold 0.49° Azm
 14,299.43	9,532.00	4,865.21	-313.32	PBHL



Matador Resources

Eddy County, New Mexico (NAD 27) Charlie Sweeney Federal 31-23S-28E #204H

Wellbore #1 Design #1

Anticollision Report

05 August, 2016





Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well#204H
Project:	Eddy County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3128.50usft (Patterson 297)
Reference Site:	Charlie Sweeney Federal 31-23S-28E	MD Reference:	WELL @ 3128.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM Conroe
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum
Reference	Design #1		

Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA	
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D	
Results Limited by:	Maximum center-center distance of 10,000.00 u	Error Surface:	Pedal Curve	
Warning Levels Evalu	ated at: 2.00 Sigma	Casing Method:	Not applied	

Surve	ey tool Progra	m	Date 0/5/2016		
	From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
	0.00	14,299.24	Design #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary

	Reference	Offset	Dista	nce		
Site Name Offset Well - Wellbore - Design	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Charlie Sweeney Federal 31-23S-28E						
124H - Wellbore #1 - Design #1 (In Progress)	1,000.00	1,000.00	30.31	23.60	4.516 CC	2
124H - Wellbore #1 - Design #1 (In Progress)	1,100.00	1,100.30	30.93	23.53	4.180 ES	6
124H - Wellbore #1 - Design #1 (In Progress)	7,500.00	7,487.66	199.32	147.11	3.817 SF	-
208H - Wellbore #1 - Design #1 (In Progress)	1,000.00	1,000.00	60.31	53.60	8.985 CC	C, ES
208H - Wellbore #1 - Design #1 (In Progress)	14,299.43	14,289.23	659.62	485.22	3.782 SF	:
224H - Wellbore #1 - Design #1 (In Progress)	1,000.00	999.00	29.69	22.98	4.426 CC	2
224H - Wellbore #1 - Design #1 (In Progress)	1,266.67	1,263.77	30.24	21.73	3.555 ES	6
224H - Wellbore #1 - Design #1 (In Progress)	9,110.64	9,116.85	130.49	66.75	2.047 SF	-
228H - Wellbore #1 - Design #1 (In Progress)	1,000.00	1,000.00	90.31	83.60	13.454 CO	C, ES
228H - Wellbore #1 - Design #1 (In Progress)	14,299.43	15,052.31	1,012.39	880.76	7.691 SF	-

Offset D	esign	Charlie	- Sweene	ey Federal	31-235-	28E - 124	H - Wellbore	#1 - Desig	ın #1 (In F	Progress)			Offset Site Error:	0.00 usft
Survey Pro	ogram: 0-N	dWD		-				-		-			Offset Well Error:	0.00 usft
Refe	rence	Offs	et	Semi Majo	r Axis				Dist	ance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbo +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	89.96	0.02	30.31	30.31					
100.00	100.00	100.00	100.00	0.13	0.13	89.96	0.02	30.31	30.31	30.05	0.26	116.625		
200.00	200.00	200.00	200.00	0.49	0.49	89.96	0.02	30.31	30.31	29.33	0.98	31.029		
300.00	300.00	300.00	300.00	0.85	0.85	89.96	0.02	30.31	30.31	28.62	1.69	17.895		
400.00	400.00	400.00	400.00	1.21	1.21	89.96	0.02	30.31	30.31	27.90	2.41	12.573		
500.00	500.00	500.00	500.00	1.56	1.56	89.96	0.02	30.31	30.31	27.18	3.13	9.691		
600.00	600.00	600.00	600.00	1.92	1.92	89.96	0.02	30.31	30.31	26.47	3.84	7.884		
700.00	700.00	700.00	700.00	2.28	2.28	89.96	0.02	30.31	30.31	25.75	4.56	6.645		
800.00	800.00	800.00	800.00	2.64	2.64	89.96	0.02	30.31	30.31	25.03	5.28	5.742		
900.00	900.00	900.00	900.00	3.00	3.00	89.96	0.02	30.31	30.31	24.31	6.00	5.056		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	89.96	0.02	30.31	30.31	23.60	6.71	4.516 (cc	
1,100.00	1,099.99	1,100.30	1,100.29	3.70	3.70	90.95	-1.20	29.81	30.93	23.53	7.40	4.180 E	ES	
1,200.00	1,199.91	1,200.56	1,200.46	4.04	4.03	93.68	-4.85	28.30	32.83	24.77	8.06	4.072		
1,266.67	1,266.45	1,267.35	1,267.13	4.27	4.25	96.18	-8.62	26.74	34.88	26.37	8.51	4.097		
1,300.00	1,299.70	1,300.65	1,300.35	4.38	4.37	97.46	-10.77	25.85	36.08	27.34	8.74	4.128		
1,400.00	1,399.46	1,400.56	1,400.02	4.73	4.71	100.82	-17.20	23.20	39.76	30.34	9.42	4.219		
1,500.00	1,499.22	1,500.47	1,499.68	5.08	5.05	103.61	-23.64	20.54	43.56	33.44	10.12	4.305		



Anticollision Report



Company:Matador ResourcesProject:Eddy County, New Mexico (NAD 27)Reference Site:Charlie Sweeney Federal 31-23S-28ESite Error:0.00 usftReference Well:#204HWell Error:0.00 usftReference WellboreWellbore #1Reference Design:Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Offset D	esign 👘	Charlie	e Sweene	ey Federal	31-23S-	28E - 124I	H - Wellbore #	#1 - Desig	n #1 (in F	rogress)			Offset Site Error:	0.00 ustt
Survey Program: 0-MWD												Offset Well Error:	0.00 usft	
Refer	ence	Offs	et	Semi Majo	r Axis				Dist	ance				
Measured	Vertical	Measured	Vertical	Reference	Offset	Azimuth	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	from North (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
1,600.00	1,598.97	1,600.37	1,599.35	5.43	5.40	105.94	-30.07	17.88	47.45	36.63	10.82	4.385		
1,700.00	1,698.73	1,700.28	1,699.01	5.79	5.76	107.92	-36.51	15.22	51.41	39.88	11.53	4.458		
1,800.00	1,798.48	1,800.19	1,798.68	6.15	6.11	109.62	-42.94	12.57	55.41	43.17	12.24	4.526		
1,900.00	1,898.24	1,900.10	1,898.34	6.51	6.47	111.08	-49.37	9.91	59.46	46.50	12.96	4.588		
2,000.00	1,998.00	2,000.00	1,998.00	6.88	6.83	112.36	-55.81	7.25	63.55	49.86	13.68	4.644		
2,100.00	2,097.75	2,100.09	2,097.67	7.24	7.19	113.48	-62.24	4.59	67.66	53.25	14.41	4.696		
2,200.00	2,197.51	2,200.18	2,197.33	7.61	7.56	114.47	-68.68	1.93	71.79	56.66	15.14	4.743		
2,300.00	2,297.27	2,300.28	2,297.00	7.97	7.92	115.35	-75.11	-0.72	75.95	60.08	15.87	4.787		
2,400.00	2,397.02	2,400.37	2,396.66	8.34	8.29	116.15	-81.55	-3.38	80.12	63,52	16.60	4.827		
2,500.00	2,496.78	2,499.54	2,496.33	8.71	8.66	116.86	-87.98	-6.04	84.30	66.97	17.33	4.865		
2,600.00	2,596.54	2,599.45	2,595.99	9.08	9.02	117.51	-94.41	-8.70	88.50	70.43	18.06	4.899		
2,700.00	2,696.29	2,700.65	2,695.65	9.45	9.40	118.10	-100.85	-11.35	92.70	73.90	18.80	4.930		
2,750.00	2,746.17	2,749.31	2,745.49	9.63	9.58	118.37	-104.07	-12.68	94.81	75.64	19.17	4.946		
2,800.00	2,796.02	2,800.75	2,795.31	9.82	9.77	118.47	-107.28	-14.01	97.08	77.54	19.54	4.968		
2,900.00	2,895.56	2,900.91	2,894.91	10.20	10.14	117.69	-113.71	-16.67	102.61	82.32	20.29	5.058		
3,000.00	2,994.81	3,001.21	2,994.36	10.59	10.51	115.83	-120.13	-19.32	109.53	88.50	21.03	5.207		
3,016.51	3,011.17	3,015.23	3,010.76	10.65	10.56	115.44	-121.19	-19.76	110.82	89.67	21.15	5.240		
3,100.00	3,093.84	3,101.64	3,093.69	10.98	10.88	113.51	-126.55	-21.97	117.52	95.73	21.78	5.395		
3,200.00	3,192.87	3,197.90	3,193.01	11.38	11.24	111.29	-132.59	-24.46	125.70	103.19	22.52	5.583		
3,300.00	3,291.90	3,297.16	3,292.18	11.78	11.60	108.34	-136.47	-26.06	134.20	110.95	23.25	5.773		
3,400.00	3,390.93	3,395.99	3,390.99	12.18	11.94	104.73	-137.96	-26.68	143.33	119.38	23.95	5.986		
3,500.00	3,489,95	3,505.05	3,489,95	12.58	12.30	100.98	-137.98	-26.69	153.27	128.61	24.66	6.215		
3,600,00	3,588,98	3,606,03	3,588,98	12.99	12.64	97.69	-137.98	-26.69	163.79	138,44	25.35	6.461		
3,633,90	3,622,55	3.627.55	3.622.55	13.13	12.71	96.67	-137.98	-26.69	167.47	141,93	25.54	6.557		
3,700,00	3,688,09	3,706,92	3,688.09	13.39	12.98	94.91	-137.98	-26.69	174.34	148.30	26.04	6.695		
3,800.00	3,787.49	3,807.52	3,787.49	13.78	13.32	92.89	-137.98	-26.69	183.21	156.48	26.73	6.854		
						-				400.00	07.00	0.000		
3,900.00	3,887.14	3,907.87	3,887.14	14.16	13.66	91.47	-137.98	-26.69	190.11	162.69	27.42	6.933		
4,000.00	3,986.98	4,008.03	3,986.98	14.53	14.00	90.56	-137.98	-26.69	194.90	166.78	28.11	6.933		
4,100.00	4,086.93	4,108.08	4,086.93	14.89	14.34	90.09	-137.98	-26.69	197.50	168.70	28.80	6.857		
4,167.08	4,154.00	4,158.99	4,154.00	15.12	14.51	90.00	-137.98	-26.69	198.00	168.79	29.21	6.779		
4,200.00	4,186.92	4,208.09	4,186.92	15.22	14.68	90.00	-137.98	-26.69	198.00	168.52	29.48	6.715		
4,300.00	4,286.92	4,308.09	4,286.92	15.55	15.02	90.00	-137.98	-26.69	198.00	167.84	30.16	6.565		
4,400.00	4,386.92	4,408.09	4,386.92	15.88	15.36	90.00	-137.98	-26.69	198.00	167.16	30.84	6.420		
4,500.00	4,486.92	4,508.09	4,486.92	16.21	15.71	90.00	-137.98	-26.69	198.00	166.48	31.52	6.281		
4,600.00	4,586.92	4,608.09	4,586.92	16.55	16.05	90.00	-137.98	-26.69	198.00	165.80	32.20	6.148		
4,700.00	4,686.92	4,708.09	4,686.92	16.88	16.40	90.00	-137.98	-26.69	198.00	165.11	32.89	6.020		
4,800.00	4,786.92	4,808.09	4,786.92	17.21	16.74	90.00	-137.98	-26.69	198.00	164.43	33.57	5.897		
4,900.00	4,886.92	4,908.09	4,886.92	17.55	17.09	90.00	-137.98	-26.69	198.00	163.74	34.26	5.779		
5,000.00	4,986.92	5,008.09	4,986.92	17.89	17.43	90.00	-137.98	-26.69	198.00	163.05	34.95	5.666		
5,100.00	5,086.92	5,108.09	5,086.92	18.22	17.78	90.00	-137.98	-26.69	198.00	162.36	35.64	5.556		
5,200.00	5,186.92	5,208.09	5,186.92	18.56	18.13	90.00	-137.98	-26.69	198.00	161.67	36.33	5.450		
5,300.00	5,286.92	5,308.09	5,286.92	18.90	18.47	90.00	-137.98	-26.69	198.00	160.98	37.02	5.349		
5,400.00	5,386.92	5,408.09	5,386.92	19.24	18.82	90.00	-137.98	-26.69	198.00	160.29	37.71	5.251		
5,500.00	5,486.92	5,508.09	5,486.92	19.58	19.17	90.00	-137.98	-26.69	198.00	159.60	38.40	5.156		
5,600.00	5,586.92	5,608.09	5,586.92	19.92	19.52	90.00	-137.98	-26.69	198.00	158.90	39.10	5.064		•
5,700.00	5,686.92	5,708.09	5,686.92	20.26	19.87	90.00	-137.98	-26.69	198.00	158.21	39.79	4.976		
5,800.00	5,786.92	5,808.09	5,786.92	20.60	20.22	90.00	-137.98	-26.69	198.00	157.51	40.49	4.890		
5,900.00	5,886.92	5,908.09	5,886.92	20.95	20.57	90.00	-137.98	-26.69	198.00	156.82	41.18	4.808		
6,000.00	5,986.92	6,008.09	5,986.92	21.29	20.92	90.00	-137.98	-26.69	198.00	156.12	41.88	4.728		
6,100.00	6,086.92	6,108.09	6,086.92	21.63	21.27	90.00	-137.98	-26.69	198.00	155.42	42.58	4.650		
6,200.00	6,186.92	6,208.09	6,186.92	21.98	21.62	90.00	-137.98	-26.69	198.00	154.72	43.28	4.575		
6,300.00	6,286.92	6,308.09	6,286.92	22.32	21.97	90.00	-137.98	-26.69	198.00	154.02	43.98	4.503		



Anticollision Report



Company: Matador Resources Project: Eddy County, New Mexico (NAD 27) Charlie Sweeney Federal 31-23S-28E **Reference Site:** 0.00 usft Site Error: #204H **Reference Well:** Well Error: 0.00 usft Reference Wellbore Wellbore #1 Reference Design: Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference:

Well#204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Offset D	esian	Charlie	Sweene	ev Federal	31-235	-28E - 124	- Wellbore	#1 - Desig	n #1 (In F	rogress)			Offset Site Error:	0.00 usft
Survey Pro	gram: 0-N	/WD							•	. ,			Offset Well Error:	0.00 usft
Refer	ence	Offs	et	Semi Majo	r Axis				Dist	ance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbo +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
6 400 00	6 386 92	6 408 09	6 386 92	22.67	22.32	90.00	-137.98	-26 69	198.00	153 33	44 67	4 432		
6.500.00	6.486.92	6,508.09	6,486.92	23.01	22.67	90.00	-137.98	-26.69	198.00	152.63	45.37	4.364		
6,600.00	6,586.92	6,608.09	6,586.92	23.36	23.02	90.00	-137.98	-26.69	198.00	151.93	46.07	4.297		
6,700.00	6,686.92	6,708.09	6,686.92	23.70	23.37	90.00	-137.98	-26.69	198.00	151.22	46.78	4.233		
6,800.00	6,786.92	6,808.09	6,786.92	24.05	23.73	90.00	-137.98	-26.69	198.00	150.52	47.48	4.170		
6,900.00	6,886.92	6,908.09	6,886.92	24.40	24.08	90.00	-137.98	-26.69	198.00	149.82	48.18	4.110		
7,000.00	6,986.92	7,008.09	6,986.92	24.75	24.43	90.00	-137.98	-26.69	198.00	149.12	48.88	4.051		
7,100.00	7,086.92	7,108.09	7,086.92	25.09	24.78	90.00	-137.98	-26.69	198.00	148.42	49.58	3.993		
7,200.00	7,186.92	7,208.09	7,186.92	25.44	25.14	90.00	-137.98	-26.69	198.00	147.71	50.29	3.937		
7,300.00	7,286.92	7,291.91	7,286.92	25.79	25.43	90.00	-137.98	-26.69	198.00	147.07	50.93	3.887		
7,304.69	7,291.61	7,303.39	7,291.61	25.81	25.47	90.00	-137.98	-26.69	198.00	147.01	50.99	3.883		
7,400.00	7,386.92	7,391.55	7,386.46	26.14	25.78	89.17	-135.10	-26.67	198.05	146.42	51.62	3.836		
7,500.00	7,486.92	7,487.66	7,480.83	26.49	26.10	84.10	-117.51	-26.51	199.32	14/.11	52.21	3.817 3	5F	
7,600.00	7,000.92	7 652 17	7,003.02	20.03	20.30	75.80	-67.76	-20.20	200.01	171 70	51.97	3.927		
7,700.00	7 796 00	7,003.17	7,031.93	27.10	20.00	57.01	-01.00	-20.90	223.00	205.54	50.16	4.312		
7,800.00	7,700.92	7,719.01	7,000.00	27.00	20.70	57.91	-13.13	-23.02	200.71	200.04	47.75	6.224		
8,000,00	7,000.92	7 802 66	7,720.14	21.00	20.92	20.93	23.07	-25.30	350.02	204.19	41.10	7.064		
8,000.00	8 086 92	7,862.32	7 785 59	20.23	27.00	43.33	88.79	-23.00	426.86	383 98	42.20	9 957		
8 200 00	8 186 92	7,002.02	7 807 35	28.93	27.29	37.86	119.54	-24.14	500 47	459.37	41 11	12 175		
8,300.00	8,286.92	7,924.42	7,820.36	29.28	27.37	35.77	140.21	-24.30	578.99	539.73	39.26	14.747		
8.400.00	8.386.92	7.950.00	7.833.03	29.63	27.45	33.73	162.43	-24.11	661.27	623.27	38.00	17.403		
8,500.00	8,486,92	7,970.08	7,842.26	29,99	27.52	32.24	180.25	-23.95	746.43	709.53	36.90	20,228		
8,600.00	8,586.92	8,000.00	7,854.86	30.34	27.62	30.20	207.39	-23.72	834.02	797.57	36.44	22.886		
8,700.00	8,686.92	8,000.00	7,854.86	30.69	27.62	30.20	207.39	-23.72	923.04	887.76	35.28	26.164		
8,800.00	8,786.92	8,018.90	7,862.08	31.04	27.68	29.00	224.85	-23.57	1,013.62	978.72	34.90	29.041		
8,900.00	8,886.92	8,031.55	7,866.59	31.39	27.73	28.24	236.68	-23.47	1,105.41	1,070.90	34.51	32.028		
8,959.11	8,946.03	8,050.00	7,872.69	31.60	27.79	27.19	254.08	-23.32	1,160.31	1,125.72	34.59	33.544		
9,000.00	8,986.89	8,050.00	7,872.69	31.74	27.79	27.30	254.08	-23.32	1,197.77	1,163.42	34.35	34.868		
9,050.00	9,036.54	8,050.00	7,872.69	31.91	27.79	27.74	254.08	-23.32	1,242.46	1,208.42	34.04	36.502		
9,100.00	9,085.51	8,050.00	7,872.69	32.08	27.79	28.54	254.08	-23.32	1,285.75	1,252.04	33.71	38.141		
9,150.00	9,133.41	8,066.38	7,877.64	32.24	27.86	28.71	269.70	-23.19	1,327.13	1,293.46	33.67	39,420		
9,200.00	9,179.89	8,075.55	7,880.22	32.39	27.89	29.66	278.50	-23.11	1,366.63	1,333.16	33.47	40.837		
9,250.00	9,224.59	8,100.00	7,886.39	32.53	27.98	29.98	302.15	-22.91	1,404.26	1,3/0.76	33.50	41.922		
9,300.00	9,267.16	8,100.00	7,885.39	32.66	27.98	32.29	302.15	-22.91	1,439.09	1,405.97	33.1Z	43,447		
9,350.00	9,307.30	8 117 61	7,000.39	32.11	27.90	33.21	310.34	-22.91	1,471.70	1,430.30	32.77	44,909		
9,400.00	9,044.00	8 120 16	7,050.27	32.00	20.00	40.32	330.68	-22.70	1 529 18	1 496 68	32.07	47.056		
9,500,00	9 410 09	8 150 00	7 895 84	33.08	28.10	43.02	351 23	-22.00	1,523.10	1,430.00	32.30	47.000		
9,550.00	9.437.61	8,150.00	7,895.84	33.21	28.18	48.81	351.23	-22.48	1,575.56	1.543.38	32,18	48,957		
9,600.00	9,461.39	8,150.00	7,895.84	33.37	28.18	55.83	351.23	-22.48	1,594.64	1,562.66	31.98	49.856		
9,650.00	9,481.25	8,178.06	7,899.26	33.53	28.30	59.37	379.08	-22.25	1,610.16	1,578.11	32.05	50.239		
9,700.00	9,497.04	8,200.00	7.900.99	33.71	28.39	64.29	400.95	-22.06	1,623.01	1,590.92	32.09	50,584		
9,709.11	9,499,46	8,200.00	7,900.99	33.74	28.39	65.93	400.95	-22.06	1,624.95	1,592.89	32.07	50.674		
9,750.00	9,509.20	8,200.00	7,900.99	33.89	28.39	73.68	400.95	-22.06	1,633.13	1,601.10	32.03	50,993		
9,800.00	9,518.78	8,216.30	7,901.72	34.09	28.46	80.35	417.23	-21.92	1,641.86	1,609.74	32.11	51.126		
9,850.00	9,525.78	8,234.03	7,902.00	34.31	28.54	86.73	434.96	-21.76	1,649.19	1,616.94	32.25	51.145		
9,900.00	9,530.17	8,264.29	7,902.00	34.53	28.68	90.49	465.21	-21.50	1,654.81	1,622.35	32,45	50.992		
9,950.00	9,531.96	8,313.61	7,902.00	34.76	28.92	90.49	514.53	-21.08	1,658.00	1,625.27	32.74	50.649		
9,959.11	9,532.00	8,322.60	7,902.00	34,81	28.97	90.49	523.52	-21.00	1,658.31	1,625.52	32.79	50.573		
10,000.00	9,532.00	8,363.04	7,902.00	35.01	29.19	90.49	563.96	-20.66	1,659.44	1,626.40	33.04	50.226		
10,100.00	9,532.00	8,462.39	7,902.00	35.55	29.77	90.49	663.31	-19.80	1,661.58	1,627.91	33.67	49.346		

8/5/2016 8:48:14AM



Anticollision Report



Company: Matador Resources Eddy County, New Mexico (NAD 27) **Project: Reference Site:** Charlie Sweeney Federal 31-23S-28E Site Error: 0.00 usft **Reference Well:** #204H Well Error: 0.00 usft Reference Wellbore Wellbore #1 Reference Design: Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference:

Well#204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Offset D	esign	Charlie	Sweene	y Federal	31-235-	28E - 124	-I - Wellbore	#1 - Desig	n #1 (ln P	rogress)			Offset Site Error:	0.00 usft
Survey Pro	gram: 0-M	WD						-		• ·			Offset Well Error:	0.00 usft
Refere	ence	Offs	et	Semi Majo	r Axis				Dista	ince				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (*)	Offset Wellbo +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10 200.00	9 532.00	8,562,20	7,902.00	36.15	30.44	90.49	763.12	-18.94	1.662.76	1.628.43	34.33	48,430		
10 264 80	9 532 00	8 626 99	7 902 00	36.56	30.91	90 49	827.90	-18.39	1.662.98	1.628.21	34.77	47.826		
10.300.00	9.532.00	8.662.19	7.902.00	36.79	31.19	90.49	863.10	-18.08	1.662.98	1.627.96	35.02	47.491		
10,400.00	9.532.00	8,762,19	7,902.00	37.49	32.00	90.49	963.10	-17.22	1.662.98	1.627.22	35.75	46,511		
10,500.00	9,532.00	8,862,19	7,902.00	38.24	32.87	90.49	1,063.09	-16.36	1,662.98	1,626.43	36.55	45.493		
10,600.00	9,532.00	8,962.19	7,902.00	39.05	33.80	90.49	1,163.09	-15.51	1,662.98	1,625.57	37.41	44.450		
10,700.00	9,532.00	9,062.19	7,902.00	39.91	34.79	90.49	1,263.08	-14.65	1,662.98	1,624.66	38.32	43.393		
10,800.00	9,532.00	9,162.19	7,902.00	40.82	35.83	90.49	1,363.08	-13.79	1,662.98	1,623.70	39.29	42.331		
10,900.00	9,532.00	9,262.19	7,902.00	41.77	36.91	90.49	1,463.08	-12.93	1,662.98	1,622.69	40.29	41.273		
11,000.00	9,532.00	9,362.19	7,902.00	42.77	38.03	90.49	1,563.07	-12.07	1,662.98	1,621.64	41.34	40.224		
11,100.00	9,532.00	9,462.19	7,902.00	43.80	39.19	90.49	1,663.07	-11.21	1,662.98	1,620.55	42.43	39.190		
11,200.00	9,532.00	9,562.19	7,902.00	44.88	40.38	90.49	1,763.07	-10.35	1,662.98	1,619.42	43.56	38.176		
11,300.00	9,532.00	9,662.19	7,902.00	45.99	41.61	90.49	1,863.06	-9.49	1,662.98	1,618.26	44.72	37.186		
11,400.00	9,532.00	9,762.19	7,902.00	47.13	42.86	90.49	1,963.06	-8.63	1,662.98	1,617.07	45.91	36.220		
11,500.00	9,532.00	9,862.19	7,902.00	48.29	44.14	90.49	2,063.05	-7.77	1,662.98	1,615.85	47.13	35.282		
11,600.00	9,532.00	9,962.19	7,902.00	49.49	45.44	90.49	2,163.05	-6.91	1,662.98	1,614.60	48.38	34.372		
11,700.00	9,532.00	10,062.19	7,902.00	50.71	46.77	90.49	2,263.05	-6.05	1,662.98	1,613.33	49.65	33.491		
11,800.00	9,532.00	10,162.19	7,902.00	51.96	48.12	90.49	2,363.04	-5.19	1,662.99	1,612.03	50. 9 5	32,639		
11,900.00	9,532.00	10,262.19	7,902.00	53.23	49.48	90.49	2,463.04	-4.33	1,662.99	1,610.72	52.27	31.817		
12,000.00	9,532.00	10,362.19	7,902.00	54.52	50.87	90.49	2,563.04	-3.47	1,662.99	1,609.38	53.60	31.024		
12,100.00	9,532.00	10,462.19	7,902.00	55.83	52.26	90.49	2,663.03	-2.61	1,662.99	1,608.03	54.96	30.259		
12,200.00	9,532.00	10,562.19	7,902.00	57.15	53.68	90.49	2,763.03	-1.75	1,662.99	1,606.66	56.33	29.522		
12,300.00	9,532.00	10,662.19	7,902.00	58.49	55.10	90.49	2,863.03	-0.89	1,662.99	1,605.27	57.72	28.813		
12,400.00	9,532.00	10,762.19	7,902.00	59.85	56.54	90.49	2,963.02	-0.03	1,662.99	1,603.87	59.12	28.129		
12,500.00	9,532.00	10,862.19	7,902.00	61.23	57.99	90.49	3,063.02	0.83	1,662.99	1,602.45	60.54	27.471		
12,600.00	9,532.00	10,962.19	7,902.00	62.61	59.45	90.49	3,163.01	1.69	1,662.99	1,601.03	61.96	26.838		
12,700.00	9,532.00	11,062.19	7,902.00	64.01	60.92	90.49	3,263.01	2.55	1,662.99	1,599.59	63.40	26.229		
12,800.00	9,532.00	11,162.19	7,902.00	65.42	62.40	90.49	3,363.01	3.41	1,662.99	1,598.13	64.86	25.642		
12,900.00	9,532.00	11,262.19	7,902.00	66.84	63.89	90.49	3,463.00	4.27	1,662.99	1,596.67	66.32	25.076		
13,000.00	9,532.00	11,362.19	7,902.00	68.28	65.39	90.49	3,563.00	5.13	1,662.99	1,595.20	67.79	24.532		
13,100.00	9,532.00	11,462.19	7,902.00	69.72	66.89	90.49	3,663.00	5.99	1,662.99	1,593.72	69.27	24.008		
13,200.00	9,532.00	11,562.19	7,902.00	71.17	68.40	90.49	3,762.99	6.84	1,662.99	1,592.23	70.76	23.503		
13,300.00	9,532.00	11,662.19	7,902.00	72.63	69.92	90.49	3,862.99	7.70	1,662.99	1,590.74	72.25	23.016		
13,400.00	9,532.00	11,762.19	7,902.00	74.10	71.44	90.49	3,962.98	8.56	1,662.99	1,589.23	73.76	22.546		
13,500.00	9,532.00	11,862.19	7,902.00	75.57	72.97	90.49	4,062.98	9.42	1,662.99	1,587.72	75.27	22.093		
13,600.00	9,532.00	11,962.19	7,902.00	77.06	74.50	90.49	4,162.98	10.28	1,662.99	1,586.20	76.79	21.657		
13,700.00	9,532.00	12,062.19	7,902.00	78.55	76.04	90.49	4,262.97	11.14	1,662.99	1,584.68	78.31	21.235		
13,800.00	9,532.00	12,162.19	7,902.00	80.04	77.59	90.49	4,362.97	12.00	1,662.99	1,583.15	79.84	20.828		
13,900.00	9,532.00	12,262.19	7,902.00	81.55	79.14	90.49	4,462.97	12.86	1,662.99	1,581.61	81.38	20.435		
14,000.00	9,532.00	12,362.19	7,902.00	83.05	80.69	90.49	4,562.96	13.72	1,662.99	1,580.07	82.92	20.055		
14,100.00	9,532.00	12,462.19	7,902.00	84.57	82.24	90.49	4,662.96	14.58	1,662.99	1,578.53	84.47	19.688		
14,200.00 14,299.43	9,532.00 9,532.00	12,562.19 12,661.62	7,902.00 7,902.00	86.09 87.60	83.80 85.36	90.49 90.49	4,762.96 4,862.38	15.44 16.30	1,663.00 1,663.00	1,576.98 1,575.43	86.02 87.56	19.333 18.992		



Anticollision Report



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Company:Matador ResourcesProject:Eddy County, New Mexico (NAD 27)Reference Site:Charlie Sweeney Federal 31-23S-28ESite Error:0.00 usftReference Well:#204HWell Error:0.00 usftReference WellboreWellbore #1Reference Design:Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Offset D	esign	Charlie	Sweene	ey Federal	31-235-	28E - 208	H - Wellbore i	#1 - Desig	n#1 (In P	rogress)			Unset Site Error:	0.00 usit
Survey Program: 0-MWD Offset Well Error: 0												0.00 usft		
Reference		Offset		Semi Major Axis			Distance							
Measured	Vertical	Measured	Vertical	Reference	Offset	Azimuth	Offset Wellbor	re Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	from North (*)	+N/-S	+E/-W	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.00	0.00	0.00	0.00	0.00	0.00	89.98	0.02	60.31	60.31					
100.00	100.00	100.00	100.00	0.00	0.00	89.98	0.02	60.31	60.31	60.05	0.26	232 058		
200.00	200.00	200.00	200.00	0.49	0.49	89.98	0.02	60.31	60.31	59.33	0.98	61 740		
300.00	300.00	300.00	300.00	0.45	0.45	89.99	0.02	60.31	60.31	58.62	1.69	35 607		
400.00	400.00	400.00	400.00	1.21	1.00	90.90	0.02	60.31	60.31	57 00	2.41	25.007		
500.00	400.00 600.00	400.00	500.00	1.21	1.21	09.90	0.02	60.31	60.31	57.19	2.41	10 283		
300.00	500.00	500.00	300.00	1.50	1.50	09.90	0.02	00.51	00.31	57.10	3.13	19.200		
600.00	600.00	600.00	600.00	1.92	1.92	89.98	0.02	60.31	60.31	56.47	3.84	15.687		
700.00	700.00	700.00	700.00	2.28	2.28	89.98	0.02	60.31	60.31	55.75	4.56	13.221		
800.00	800.00	800.00	800.00	2.64	2.64	89.98	0.02	60.31	60.31	55.03	5.28	11.426		
900.00	900,00	900.00	900.00	3.00	3.00	89.98	0.02	60.31	60.31	54.31	6.00	10.059		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	89.98	0.02	60.31	60.31	53.60	6.71	8,985 (CC, ES	
1,100.00	1.099.99	1.098.99	1.098.98	3.70	3.70	90.27	-0.98	61.11	62.23	54.84	7.40	8.415		
1,200.00	1,199,91	1,197,75	1.197.66	4.04	4.02	91.05	-3.98	63.50	68.01	59.95	8.06	8.441		
1 266.67	1 266 45	1,269,89	1,263 11	4 27	4 27	91 71	-7 07	65.96	74 00	65.48	8.52	8 682		
1.300.00	1,299,70	1.303.53	1,296 18	4 38	4 38	92.07	-8.88	67.41	77 45	68 70	8.75	8.850		
1,400.00	1,399.46	1,404.08	1,395.39	4.73	4.73	92.99	-14.31	71.73	87.80	78.36	9.44	9.305		
							10 70	70.05	00.40		10.10	0.000		
1,500.00	1,499.22	1,504.62	1,494.60	5.08	5.08	93.71	-19.73	76.05	98.16	88.04	10.13	9.693		
1,600.00	1,598.97	1,594.83	1,593.82	5.43	5.40	94.29	-25.15	80.38	108.54	97.76	10.79	10.060		
1,700.00	1,698.73	1,705.71	1,693.03	5.79	5.79	94.77	-30.58	84.70	118.93	107.41	11.53	10.316		
1,800.00	1,798.48	1,806.26	1,792.24	6.15	6.15	95.18	-36.00	89.02	129.33	117.09	12.24	10.569		
1,900.00	1,898.24	1,906.81	1,891.45	6.51	6.51	95.52	-41.42	93.34	139,73	126.79	12.95	10.792		
2,000.00	1,998.00	2,007.35	1,990.66	6.88	6.88	95.82	-46.85	97.67	150.14	136.48	13.66	10.990		
2,100.00	2,097.75	2,107.90	2,089.88	7.24	7.24	96.08	-52.27	101.99	160.55	146.17	14.38	11.166		
2,200.00	2,197.51	2,208.44	2,189.09	7.61	7.61	96.31	-57.70	106.31	170.96	155.87	15.10	11.325		
2,300.00	2,297.27	2,308.99	2,288.30	7.97	7.98	96.51	-63.12	110.64	181.38	165.56	15.82	11.467		
2,400.00	2,397.02	2,409.53	2,387.51	8.34	8.34	96.69	-68.54	114.96	191.80	175.26	16.54	11.597		
2 500 00	2 496 78	2 489 92	2 486 72	8.71	8 64	96.85	-73 97	119.28	202.22	185.03	17 19	11 764		
2,000.00	2,596.54	2 589 37	2 585 94	9.08	9.01	96.99	-79.39	123.61	212.64	194 73	17.91	11 872		
2,000.00	2,000.04	2,688,83	2,000.04	9.45	9.37	97 12	-84.81	127 93	223.06	204.43	18.63	11 972		
2,750.00	2,000.20	2 738 56	2 734 75	9.43	9.56	97.12	-04.01	130.09	228.00	209.28	18.99	12 019		
2,800,00	2 796 02	2 788 26	2 784 33	9.82	9.74	97 19	-90.24	132.25	233 73	214.38	19.36	12.076		
2,000.00	2,700.02	2,700.20	2,704.00	0.02	0.14	01.10	-50.24	102.20	200,70	214.00	10.00	12.070		
2,900.00	2,895.56	2,887.47	2,883.31	10.20	10.11	96.92	-95.65	136.57	246.18	226.10	20.08	12.259		
3,000.00	2,994.81	2,986.37	2,981.97	10.59	10.47	96.31	-101.04	140.87	260.67	239.85	20.81	12.524		
3,016.51	3,011.17	3,002.67	2,998.23	10.65	10.53	96.19	-101.93	141.57	263,26	242.32	20.93	12.575		
3,100.00	3,093.84	3,085.05	3,080.40	10.98	10.84	95.56	-106.42	145.15	276.51	254.97	21.54	12.834		
3,200.00	3,192.87	3,183.72	3,178.83	11.38	11.21	94.88	-111.80	149.44	292.43	270.15	22.28	13,127		
3,300.00	3,291.90	3,282.38	3,277.26	11.78	11.57	94.27	-117.18	153.73	308.38	285.37	23.01	13.402		
3,400.00	3,390.93	3,381.05	3,375.69	12.18	11.94	93.73	-122.56	158.02	324.36	300.62	23.74	13.661		
3,500.00	3,489.95	3,479.72	3,474.11	12.58	12.31	93.23	-127.95	162.31	340.38	315.90	24.48	13.905		
3,600.00	3,588.98	3,581.54	3,575.71	12.99	12.68	92.76	-133.23	166.52	356.20	330.96	25.23	14.115		
3,633.90	3,622.55	3,617.25	3,611.37	13.13	12.82	92.56	-134.67	167.68	361.24	335.74	25.50	14.168		
3 700 00	3 688 09	3 687 07	3 681 15	13 39	13.07	92 12	-136 74	169 32	370.03	344 03	26.00	14 230		
3 800 00	3 787 49	3 793 19	3 787 25	13.78	13 44	91.39	-137.98	170.31	380.09	353 34	26.75	14 210		
3,900,00	3 887 14	3,906,92	3 887 14	14.16	13.81	90.72	-137.98	170.31	387.08	359.59	27 49	14 079		
4,000,00	3 986 98	4 007 08	3 086 08	14.10	14.15	90.28	-137.08	170.31	301.00	363.70	28.19	13 903		
4,100.00	4,086.93	4,107.13	4,086.93	14.89	14.48	90.04	-137.98	170.31	394.50	365.62	28.88	13.660		
4,167.08	4,154.00	4,159.94	4,154.00	15.12	14.66	90.00	-137.98	170.31	395.00	365.71	29.29	13.486		
4,200.00	4,186.92	4,207.13	4,186.92	15.22	14.82	90.00	-137.98	170.31	395.00	305.44	29,56	13.303		
4,300.00	4,286.92	4,307.13	4,286.92	15.55	15,16	90.00	-137.98	1/0.31	395.00	364.//	30.23	13.065		
4,400.00	4,386.92	4,407.13	4,386.92	15.88	15.50	90.00	-137.98	170.31	395.00	364.09	30.91	12.779		
4,500.00	4,406.92	4,507.13	4,400.92	16.21	10,84	90.00	-137.98	170.31	393.00	303.41	31.59	12.505		
4,600.00	4,586.92	4,607.13	4,586.92	16.55	16.18	90.00	-137.98	170.31	395.00	362.73	32.27	12.242		



Anticollision Report



Company:Matador ResourcesProject:Eddy County, New Mexico (NAD 27)Reference Site:Charlie Sweeney Federal 31-23S-28ESite Error:0.00 usftReference Well:#204HWell Error:0.00 usftReference WellboreWellbore #1Reference Design:Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Offset D	esign	Charlie	Sweene	ey Federal	31-235-	28E - 208	H - Wellbore	#1 - Desig	n#1 (In F	rogress)			Unset Site Error:	0.00 usi(
Survey Pro	gram: 0-M	IWD or		.					D 1-4				Offset Well Error:	0.00 usft
Refer	Reterence O		et	Semi Majo	r Axis				Distance			•		
Measured	Vertical	Measured	Vertical	Reference	Offset	Azimuth	Offset Wellbo	re Centre	Between	Between	Minimum	Separation	Warning	
(usft)	(usft)	(usft)	ມອຸກາ (usft)	(usft)	(usft)	(*)	+N/-S	+E/-W	(usft)	cilipses (usft)	Jeparation (usft)	Pactor		
((((/	, ,	(,		(uait)	(00/0)						
4,700.00	4,686.92	4,707.13	4,686.92	16.88	16.52	90.00	-137.98	170.31	395.00	362.05	32.95	11.989		
4,800.00	4,786.92	4,807.13	4,786.92	17.21	16.86	90.00	-137.98	170.31	395.00	361.37	33.63	11,745		
4,900.00	4,886.92	4,907.13	4,886.92	17.55	17.20	90.00	-137.98	170.31	395.00	360.69	34.31	11.511		
5,000.00	4,986.92	5,007.13	4,986.92	17,89	17.55	90.00	-137.98	170.31	395.00	360.00	35.00	11.286		
5,100.00	5,086.92	5,107.13	5,086.92	18.22	17.89	90.00	-137.98	170.31	395.00	359.31	35.69	11.069		
5,200.00	5,186.92	5,207.13	5,186.92	18.56	18.23	90.00	-137.98	170.31	395.00	358.63	36.37	10.859		
5 000 00	E 000 00	E 207 42	5 200 00	10.00	40.50	00.00	107.09	170.24	205.00	257.04	27.00	10.057		
5,300.00	5,286.92	5,307.13	5,286,92	18.90	18.58	90.00	-137.98	170.31	395.00	357.94	37.00	10.657		
5,400.00	5,366.92	5,407.13	5,300.92	19.24	10.92	90.00	-137.90	170.31	395.00	357.25	37.75	10.403		
5,500.00	5,486.92	5,507.13	5,486.92	19.58	19.27	90.00	-137.98	170.31	395.00	356.56	38.44	10.275		
5,600.00	5,586.92	5,607.13	5,586.92	19.92	19.61	90.00	-137.98	170.31	395.00	355.86	39.14	10.093		
5,700.00	5,686.92	5,707.13	5,686.92	20.26	19.96	90.00	-137.98	170.31	395.00	355.17	39.83	9.917		
r 000 00	E 700 00	E 007 40	E 700 00	20.00	20.24	00.00	407.00	470.04	205.00	254 49	40.50	0.749		
5,800.00	5,786.92	5,607.13	5,700.92	20.60	20.31	90.00	-137.96	170.31	395.00	354.40	40.52	9.740		
5,900.00	5,886.92	5,907.13	5,886.92	20.95	20.66	90.00	-137.98	170.31	395.00	353.78	41.22	9.583		
6,000.00	5,986.92	6,007.13	5,986.92	21.29	21.00	90.00	-137.98	170.31	395.00	353.09	41.91	9.425		
6,100.00	6,086.92	6,107.13	6,086.92	21.63	21.35	90.00	-137.98	170.31	395.00	352.39	42.61	9.271		
6,200.00	6,186.92	6,207.13	6,186.92	21.98	21.70	90.00	-137.98	170.31	395.00	351.70	43.30	9.121		
0.000.00	0.000.00	0 007 40	0.000.00	00.00	00.05	00.00	107.00	470.04	205.00	054.00	44.00	0.077		
6,300.00	6,286.92	6,307.13	6,286.92	22.32	22.05	90.00	-137.98	170.31	395.00	351.00	44.00	8.977		
6,400.00	6,386.92	6,407.13	6,386.92	22.67	22.40	90.00	-137.98	170.31	395.00	350.30	44.70	8.837		
6,500.00	6,486.92	6,507.13	6,486.92	23.01	22.75	90.00	-137.98	170.31	395.00	349.60	45.40	8.701		
6,600.00	6,586.92	6,607.13	6,586.92	23.36	23.10	90.00	-137.98	170.31	395.00	348.90	46.10	8.569		
6,700.00	6,686.92	6,707.13	6,686.92	23.70	23.45	90.00	-137.98	170.31	395.00	348.20	46.80	8.441		
c 000 00	6 700 00	6 807 40	6 796 00	24.05	22.00	00.00	407.00	170.04	205.00	247 50	47.50	0.040		
6,800.00	6,786.92	6,807.13	6,786.92	24.05	23.80	90.00	-137.98	170.31	395.00	347.50	47.50	8.316		
6,900.00	6,886.92	6,907.13	6,886.92	24.40	24.15	90.00	-137.98	170.31	395.00	346.80	48.20	8.196		
7,000.00	6,986.92	7,007.13	6,986.92	24.75	24.50	90.00	-137.98	170.31	395.00	346.10	48.90	8.078		
7,100.00	7,086.92	7,107.13	7,086.92	25.09	24.85	90.00	-137.98	170.31	395.00	345.40	49.60	7.964		
7,200.00	7,186.92	7,207.13	7,186.92	25.44	25.20	90.00	-137.98	170.31	395.00	344.70	50.30	7.853		
7 200 00	7 296 02	7 207 12	7 200 02	25.70	76.66	00.00	127.09	170.91	205.00	244.00	E1 00	7 745		
7,300.00	7,200.92	7,307.13	7,200.92	25.79	25.55	90.00	-137.98	170.31	395.00	344.00	51.00	7,745		
7,400.00	7,386.92	7,407.13	7,386.92	26.14	25.90	90.00	-137.98	170.31	395.00	343.29	51.71	7.639		
7,500.00	7,486.92	7,507.13	7,486.92	26.49	26.26	90.00	-137.98	170.31	395.00	342.59	52.41	7.537		
7,600.00	7,586.92	7,607.13	7,586.92	26.83	26.61	90.00	-137.98	170.31	395.00	341.89	53.11	7,437		
7,700.00	7,686.92	7,707.13	7,686.92	27.18	26.96	90.00	-137.98	170.31	395.00	341.18	53.82	7.340		
7 800 00	7 786 92	7 807 13	7 786 92	27 53	27 31	90.00	137 08	170 31	395.00	340.48	54 52	7 245		
7,000.00	7,700.92	7,007.13	7,000.52	27.00	27.31	90.00	-137.90	170.31	390.00	340.40	54.52	7.240		
7,900.00	7,000.92	7,907.13	7,000.92	27.88	27.00	90.00	-137.90	170.31	393.00	000.07	55.23	7.102		
8,000.00	7,966.92	8,007.13	7,986.92	28.23	28.02	90.00	-137.90	470.31	395.00	339.07	55.93	7.062		
8,100.00	8,086.92	8,107.13	8,086.92	28.58	28.37	90.00	-137.98	170.31	395.00	338.30	56.64	6.9/4		
8,200.00	8,186.92	8,207.13	8,185.92	28.93	28.72	90.00	-137.98	170.31	395.00	337.00	57.34	0.889		
8 300 00	8 286 92	8.307.13	8 286 92	29.28	29.08	90.00	-137 98	170.31	395.00	336.95	58.05	6 805		
8,400.00	8 386 03	8 407 13	8 386 02	20.20	20.00	90.00	137.08	170.31	395.00	336.25	58.75	6 723		
9,400.00	0,000.02 0 406 00	9 507 13	9 496 02	29.00	20.40	90.00	-137.90	170.31	395.00	335.54	59.46	6.643		
8,500.00	0,400.92	8,507.13	0,400.92	29.99	29.70	90.00	-137.90	170.31	395.00	330.04	59.40	0.043		
8,600.00	0,000.92	0,607.13	0,000.92	30.34	30.14	90.00	-137.98	170.31	395.00	334.03	60.17	6.303		
8,700.00	8,686.92	8,707.13	8,666.92	30.69	30.49	90.00	-137.98	170.31	395.00	334.13	60.87	6.489		
8 800 00	8 786 92	8 807 13	8 786 92	31.04	30.84	90.00	-137 98	170 31	395.00	333 42	61.58	6 4 1 4		
8 900 00	8 886 02	8 902 97	8 886 02	31 30	31 15	90.00	-137.98	170.31	395.00	332.76	62.24	6 347		
8,900.00	0,000.92	0,092.07	9,000.92	31.39	31.10	90.00	-137.90	170.31	395.00	222.70	02.24	6 204		
0,959.11	6,940.03	0,951.97	0,946.03	31.60	31.30	90.00	-137.90	170.31	395.00	332.30	02.00	0.304		
9,000.00	8,985.89	8,988.58	8,982.61	31.74	31.48	90.04	-136.83	170.51	395.44	332.52	62.92	6.285		
9,050.00	9,036.54	9,033.32	9,027.10	31.91	31.64	90.21	-132.30	171.29	397.18	333.95	63.23	6.282		
9 100 00	0 085 51	9 079 02	9 071 07	30 00	31 70	00 40	104 27	172 66	400.22	336 70	63 63	6 301		
9,100.00	9,000.01	9,070.03	0.114.00	32.08	31.79	90.49	-124.37	174.00	400.22	330.70	00.0Z	0.001		
9,100.00	9,133.41	9,122.69	9,114.23	32.24	31.93	90.89	-113.10	1/4.00	404.55	340.75	03.80	0.341		
9,200.00	9,179.89	9,167.29	9,156.31	32.39	32.07	91.39	-98.58	1/7.10	410.12	346.06	64.06	6.402		
9,250.00	9,224.59	9,211.82	9,197.06	32.53	32.20	91.98	-80.90	180.15	416.90	352.59	64.31	6.482		
9,300.00	9,267.16	9,256.29	9,236.24	32.66	32.32	92.64	-60.19	183.72	424.84	360.28	64.56	6.580		
9 350 00	9 307 30	9 300 60	9 272 61	30 77	33 14	03 36	-26 50	187 70	433.80	360 08	64 81	6 695		
	9,001.00	3,000.08	3,213.01	52.11	52.44	33.30	-30.38	101.18	-55.08		04.01	0.030		
	CC - Min centre to center distance or covergent point. SF - min separation factor. ES - min ellipse separation													


Anticollision Report



Company:Matador ResourcesProject:Eddy County, New Mexico (NAD 27)Reference Site:Charlie Sweeney Federal 31-23S-28ESite Error:0.00 usftReference Well:#204HWell Error:0.00 usftReference WellboreWellbore #1Reference Design:Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Offset D	esign	Charlie	Sweene	ey Federal	31-23S-	28E - 208F	H - Weilbore	#1 - Desig	n#1 (In F	rogress)			Unset Site Error:	0.00 Usn
Survey Pro	gram: 0-M	WD											Offset Well Error:	0.00 usft
Refer	ence	Offs	et	Semi Major	r Axis				Dist	ance				
Measured	Vertical	Measured	Vertical	Reference	Offset	Azimuth	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			from North	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)			
9 400 00	9 344 68	9 345 04	9 308 98	32.88	32 54	94 13	-10.24	192 33	443 97	378 91	65.06	6 824		
9 450 00	9,011,00	9 389 36	9 342 16	32.08	32.65	94.91	18.71	197 32	455.01	389.70	65 31	6 967		
9,400.00	D 410 00	0,433.69	0 272 06	32.00	32.00	05.60	50.09	202 73	466.94	401 37	65.57	7 1 2 1		
9,500.00	0.427.64	9,433.00	9,372.90	33.00	22.70	90.09	90.05	202.75	470.69	412 92	65.94	7.121		
9,550.00	9,437.01	9,478.03	9,401.23	33.21	32.09	90.45	63.75	200.00	479.00	413.03	00.04	7.200		
9,600.00	9,401.39	9,522.46	9,420.01	33.37	33.02	97.17	119.53	214.70	493.13	427.01	00.12	7.436		
9,650.00	9,481.25	9,567.01	9,449.57	33.53	33,15	97.83	157.27	221.20	507.21	440.79	66.42	1.631		
9 700 00	9 497 04	9 611 76	0 /60 36	33 71	33.20	98 42	196.81	228.02	521.83	455 10	66 72	7 821		
9,700.00	0,400,46	9,011.70	0 472 64	33.71	22.23	50.42 08.62	204.10	220.02	524.54	457.76	66.79	7.955		
9,709.11	3,433,40	9,019.94	9,472.04	33.74	33.32	90.02	204.19	223.23	529.04	407.70	67.04	7.000		
9,750.00	9,509.20	9,030.04	9,400.00	33.69	33.43	90.90	236.06	235.13	550.00	409.03	67.04	0.000		
9,800.00	9,518.78	9,702.39	9,499.57	34.09	33.58	99.25	280.91	242.51	552.20	484.84	07.30	0.198		
9,850.00	9,525.78	9,748.81	9,510.47	34.31	33.74	99.45	325.38	250.18	567.73	500.03	67.70	6.386		
9 000 00	9 530 17	0 705 30	0 510 10	34 53	32 01	99.60	370.46	257 95	583 30	515 33	68.06	8 572		
9,900.00	0,521.06	0 942 15	0,515.13	24.33	24.00	00.71	416.00	265.82	500.00	520.70	EP 42	9755		
9,950.00	9,001.90	9,042.13	9,525.69	34.70	34.09	99.71	410.09	200.02	602.01	530.70	69.50	9,799		
9,959.11	9,552.00	9,650.69	9,526.63	34.61	34.12	99.73	424.40	207.20	602.01	535.51	66.50	0.700		
10,000.00	9,532.00	9,889.32	9,529.94	35.01	34.28	99.77	462.38	2/3.79	614.5Z	545.69	68.83	0.928		
10,100.00	9,532.00	10,002.41	9,532.00	35.55	34.77	98.27	573.89	292.34	641.19	5/1.3/	69.82	9.184		
10 200 00	9 532 00	10 152 05	9 532 00	36 15	35 55	93 78	722.66	308.03	656 80	585 55	71 25	9219		
10 264 80	9 532 00	10,752.00	9 532 00	36.56	36.13	90.81	821.36	311.99	659.94	587.67	72 27	9 132		
10,204.00	9,552.00	10,230.03	9,532.00	36.79	36.38	90.49	860 33	312 35	659.94	587.21	72.27	9.072		
10,300.00	0,502.00	10,200.01	0,532.00	27.40	37.06	00.40	000.00	312.00	650.05	695.92	74.10	8 904		
10,400.00	9,002.00	10,309.01	9,002.00	37.49	37.00	90.49	900.33	214.05	650.04	50J.00	74.12	0.304		
10,500.00	9,002.00	10,409.01	9,032.00	30.24	37.79	90.49	1,000.32	514.00	009.94	004.00	75.01	0.720		
10.600.00	9.532.00	10.589.81	9.532.00	39.05	38.58	90.49	1,160.32	314,90	659.93	582.71	77.22	8.546		
10,700.00	9.532.00	10.689.81	9.532.00	39.91	39.43	90.49	1.260.32	315.75	659.92	580.99	78.93	8.361		
10 800 00	9 532 00	10 789 81	9 532 00	40.82	40.32	90.49	1 360 31	316.60	659.92	579.17	80.74	8,173		
10,000,00	9 532 00	10,889,81	9.532.00	41 77	41.26	90.49	1 460 31	317 44	659 91	577.26	82.65	7 985		
11,000,00	9,532.00	10 989 81	9,532,00	42 77	42.25	90.49	1,560,31	318 29	659.90	575.26	84 64	7 797		
,	0,002.00		0,002.00		12.20		.,			•••===	••.			
11,100.00	9,532.00	11,089.8 1	9,532.00	43.80	43.28	90.49	1,660.30	319.14	659.89	573.18	86.71	7.611		
11,200.00	9,532.00	11,189.81	9,532.00	44.88	44.34	90.49	1,760.30	319.99	659.88	571.03	88.85	7.427		
11,300.00	9,532.00	11,289.81	9,532.00	45.99	45.44	90.49	1,860.30	320.84	659.87	568.81	91.07	7.246		
11,400.00	9,532.00	11,389.81	9,532.00	47.13	46.57	90.49	1,960.29	321.68	659.87	566.52	93.35	7.069		
11,500.00	9.532.00	11,489,81	9.532.00	48.29	47.73	90.49	2.060.29	322.53	659.86	564.17	95.69	6.896		
			•											
11,600.00	9,532.00	11,589.81	9,532.00	49.49	48.93	90.49	2,160.28	323.38	659.85	561.77	98.08	6.727		
11,700.00	9,532.00	11,689.81	9,532.00	50,71	50.14	90.49	2,260.28	324.23	659.84	559.31	100.53	6.564		
11,800.00	9,532.00	11,789.81	9,532.00	51.96	51.38	90.49	2,360.28	325.08	659.83	556.81	103.03	6.405		
11,900.00	9,532.00	11,889.81	9,532.00	53.23	52.65	90.49	2,460.27	325.93	659.82	554.26	105.57	6.250		
12,000.00	9,532.00	11,989.81	9,532.00	54.52	53.93	90.49	2,560.27	326.77	659.82	551.67	108.15	6.101		
12,100.00	9,532.00	12,089.81	9,532.00	55.83	55.24	90.49	2,660.27	327.62	659.81	549.04	110.77	5.957		
12,200.00	9,532.00	12,189.81	9,532.00	57.15	56.56	90.49	2,760.26	328.47	659.80	546.38	113.42	5.817		
12,300.00	9,532.00	12,289.81	9,532.00	58.49	57.90	90.49	2,860.26	329.32	659.79	543.68	116.11	5.682		
12,400.00	9,532.00	12,389.81	9,532.00	59.85	59.26	90.49	2,960.26	330.17	659.78	540.95	118.83	5.552		
12,500.00	9,532.00	12,489.81	9,532.00	61.23	60.63	90.49	3,060.25	331.02	659.77	538.19	121.58	5.427		
12 600 00	0 522 00	10 590 91	0 532 00	60.61	62.01	90.40	2 160 25	221.86	650 77	525 41	124.26	5 205		
12,800.00	9,552.00	12,009.01	9,002.00	02.01	02.01	90.49	3,100.25	331.00	650.76	500.41	124.50	5.305		
12,700.00	9,532.00	12,689.81	9,532.00	64.01	63,41	90.49	3,260.25	332.71	659.76	532.60	127.16	5,188		
12,800.00	9,532.00	12,789.81	9,532.00	65.42	64.82	90.49	3,360.24	333.56	659.75	529.76	129.99	5.075		
12,900.00	9,532.00	12,889.81	9,532.00	66.84	66.24	90.49	3,460.24	334.41	659.74	526.91	132.84	4.967		
13,000.00	9,532.00	12,989.81	9,532.00	68.28	67.67	90.49	3,560.23	335.26	659.73	524.03	135.70	4.862		
13 100 00	9 532 00	13 089 81	9 532 00	60 72	69 11	00 AQ	3 660 23	336 11	659 72	521 13	128 50	4 760		
13 200 00	9,532.00	13 189 81	9,532.00	71 17	70.56	90.49 90.49	3 760 23	336.95	659.72	518 22	141 50	4 662		
13 300 00	9 532 00	13 280 84	9,552.00	70.60	70.00	Q0.40	3 860 22	337 80	650.72	515.22	114 42	4 569		
13 400 00	9,502.00	13 390 94	0,002.00	74 10	72.02	00.40	3 060 22	338 65	650.70	510.20	117 20	A 477		
13,400.00	9,002.00 9,532.00	13 / 20 24	9,002.00 0,532.00	74.10	74.00	30.49 Q0 40	3,300.22 A 060 30	330.00	650 60	500 27	150 22	110.0		
10,000.00	3,332.00	10,403.01	3,332.00	10.01	14,30	30.43	-1,000.22	000.00	009.09	. 505.57	100.02	4.009		
13,600.00	9,532.00	13,589.81	9,532.00	77.06	76.45	90.49	4,160.21	340.35	659.68	506.39	153.29	4.304		

8/5/2016 8:48:14AM



Anticollision Report



Company:Matador ResourcesProject:Eddy County, New Mexico (NAD 27)Reference Site:Charlie Sweeney Federal 31-23S-28ESite Error:0.00 usftReference Well:#204HWell Error:0.00 usftReference WellboreWellbore #1Reference Design:Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

	Offset D	esign	Charlie	Sweene	ey Federal	31-235-	28E - 208	H - Wellbore	#1 - Desig	n #1 (In F	rogress)			Offset Site Error:	0.00 usft
	Survey Pro	gram: 0-N	IWD											Offset Well Error:	0.00 usft
	Refer	ence	Offs	et	Semi Majo	r Axis				Dist	ance				
	Measured	Vertical	Measured	Vertical	Reference	Offset	Azimuth	Offset Wellbo	re Centre	Between	Between	Minimum	Separation	Warning	
	Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	from North (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	-	
	13,700.00	9,532.00	13,689.81	9,532.00	78.55	77.94	90.49	4,260.21	341.20	659.67	503.40	156.27	4.221		
	13,800.00	9,532.00	13,789.81	9,532.00	80.04	79.43	90.49	4,360.21	342.04	659.67	500.40	159.27	4.142		
1	13,900.00	9,532.00	13,889.81	9,532.00	81.55	80.93	90.49	4,460.20	342.89	659.66	497.38	162.28	4.065		
	14,000.00	9,532.00	13,989.81	9,532.00	83.05	82.44	90.49	4,560.20	343.74	659.65	494.35	165.30	3.991		
ĺ	14,100.00	9,532.00	14,089.81	9,532.00	84.57	83.95	90.49	4,660.19	344.59	659.64	491.31	168.33	3.919	•	
	14,200.00	9,532.00	14,189.81	9,532.00	86.09	85.47	90.49	4,760.19	345.44	659.63	488.27	171.37	3.849		
	14,299.43	9,532.00	14,289.23	9,532.00	87.60	86.99	90.49	4,859.61	346.28	659.62	485.22	174.40	3.782 \$	SF	



Anticollision Report



Company:Matador ResourcesProject:Eddy County, New Mexico (NAD 27)Reference Site:Charlie Sweeney Federal 31-23S-28ESite Error:0.00 usftReference Well:#204HWell Error:0.00 usftReference WellboreWellbore #1Reference Design:Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Offset D	esign	Charlie	e Sweene	ey Federal	31-23S-	28E - 224I	H - Wellbore	#1 - Desig	n #1 (In P	rogress)			Offset Site Error:	0.00 usft
Survey Pro	gram: 0-M	WD											Offset Well Error:	0.00 usft
Refer	ence	Offs	et	Semi Majo	r Axis				Dist	ance				
Measured	Vertical	Measured	Vertical	Reference	Offset	Azimuth	Offset Wellbo	re Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			from North	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	-	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	1 00	1 00	0.00	0.00	80.00	0.02	20.60	20.60					
0.00	0.00	1.00	-1.00	0.00	0.00	-09.90	0.02	-29.09	29.09	00.40	0.00	440.005		
100.00	100.00	101.00	99.00	0.13	0.13	-89.96	0.02	-29.69	29.69	29,43	0.26	112.685		
200.00	200.00	201.00	199.00	0.49	0.49	-89.96	0.02	-29.69	29.69	28.71	0.98	30.283		
300.00	300.00	301.00	299.00	0.85	0.85	-89.96	0.02	-29.69	29.69	27.99	1.70	17.492		
400.00	400.00	401.00	399.00	1.21	1.21	-89,96	0.02	-29.69	29.69	27.28	2.41	12.298		
500.00	500,00	501.00	499.00	1.56	1.57	-89.96	0.02	-29.69	29.69	26.56	3.13	9.482		
600.00	600.00	601.00	599.00	1.92	1.93	-89.96	0.02	-29.69	29.69	25.84	3.85	7.715		
700.00	700.00	701.00	699.00	2.28	2.28	-89.96	0.02	-29.69	29.69	25.12	4.57	6,504		
800.00	800.00	801.00	799.00	2.64	2.64	-89 96	0.02	-29.69	29.69	24 41	5.28	5.621		
000.00	000.00	001.00	900.00	2.01	2.01	90.06	0.02	20.00	20.00	23.60	6.00	4 040		
900.00	900.00	901.00	899.00	3.00	3.00	-09.90	0.02	-29.09	29.09	23.09	0.00	4,545		
1,000.00	1,000.00	999,00	999.00	3,30	3,35	-89,90	0.02	-29.69	29,69	22,98	0.71	4.426 (
4 400 00	1 000 00	1 000 00	1 009 20	3 70	2 70	90.50	0.47	20.96	20.75	22.25	7 40	4 000		
1,100.00	1,099.99	1,098.30	1,098.29	3.70	3.70	-89.59	-0.47	-30.86	29.75	22.35	7.40	4.022		
1,200.00	1,199.91	1,197.58	1,197.50	4.04	4.03	-88.52	-1.97	-34.40	29.98	21.92	8.06	3.719		
1,266.67	1,266.45	1,263.77	1,263.57	4.27	4.26	-87.44	-3.52	-38.08	30.24	21.73	8.51	3.555 E	ES	
1,300.00	1,299.70	1,303.15	1,296.55	4.38	4.40	-86.94	-4.46	-40.31	30.52	21.77	8.75	3.487		
1,400.00	1,399.46	1,403.16	1,396.23	4.73	4.75	-85.98	-7.51	-47.54	31.84	22.40	9.44	3.373		
1,500.00	1,499.22	1,503.17	1,495.91	5.08	5.10	-85.10	-10.56	-54.77	33.17	23.03	10.14	3.273		
1,600.00	1,598.97	1,603,18	1,595.59	5.43	5,46	-84.29	-13.61	-61.99	34.50	23.67	10.84	3,184		
1 700.00	1,698,73	1,703,19	1.695.27	5.79	5.82	-83.54	-16.66	-69.22	35.85	24.30	11.54	3,105		
1 800 00	1 798 48	1 803 20	1 794 96	6 15	6 18	-82 84	-19 71	-76 45	37 19	24 94	12 25	3 035		
1,000.00	1 909 24	1,000.20	1 894 64	6.51	6.55	82.10	22.76	83.68	38.55	25.59	12.20	2 973		
1,900.00	1,050.24	1,303.21	1,034.04	0.51	0.00	-02.15	-22.70	-03.00	30.55	20.00	12.07	2.575		
2 000 00	1 998 00	1 996 78	1 994 32	6 88	6.89	_81 59	-25.81	-90 91	39.90	26.24	13.66	2 921		
2,000.00	2 007 75	2 006 77	2 004 00	7.24	7.26	91.00	-20.01	09.13	41.27	26.90	1/ 39	2.870		
2,100.00	2,097.75	2,096.77	2,094.00	7.24	7.20	-01.02	-20.00	-90.13	41.27	20.09	14.30	2.070		
2,200.00	2,197.51	2,203.24	2,193.68	7.61	7.65	-80.49	-31.91	-105.36	42.63	27.51	15.12	2.819		
2,300.00	2,297.27	2,303.25	2,293.36	7.97	8.03	-80.00	-34.96	-112.59	44.00	28,15	15.85	2.776		
2,400.00	2,397.02	2,403.26	2,393.05	8.34	8.40	-79.53	-38.01	-119.82	45.37	28,80	16.57	2.738		
2,500.00	2,496.78	2,503.27	2,492.73	8.71	8.77	-79.09	-41.06	-127.05	46.75	29.45	17.30	2.702		
2,600.00	2,596.54	2,603.28	2,592.41	9.08	9.14	-78.68	-44.11	-134.27	48.12	30.09	18.03	2.669		
2,700.00	2,696.29	2,703.29	2,692.09	9.45	9.52	-78.29	-47.16	-141.50	49.50	30.74	18.76	2.639		
2,750.00	2,746.17	2,746.70	2,741.93	9.63	9.68	-78.10	-48.69	-145.11	50.19	31.09	19.10	2.628		
2 800 00	2,796.02	2,796,55	2,791.63	9.82	9.87	-77.67	-50 22	-148.74	50.67	31.20	19.46	2.603		
_,	-,													
2,900.00	2,895.56	2,895.47	2,890.10	10.20	10.24	-76.29	-53.87	-157.38	51.51	31.32	20.19	2.551		
3,000.00	2,994.81	2,994.38	2,988.28	10.59	10.63	-74.60	-58.50	-168.36	52.63	31.70	20.93	2.515		
3 016 51	3.011.17	3.010.71	3.004.46	10.65	10 69	-74 29	-59 36	-170.40	52.84	31.79	21.05	2.510		
3 100 00	3 093 84	3 093 27	3 086 11	10.98	11.02	73 34	64.12	-181 69	54.65	32 98	21.67	2 5 2 2		
3 200 00	3 102 87	3 207 44	3 183 06	11 38	11.50	73.68	70.67	-107.19	58.47	36.01	22.47	2 603		
3,200.00	3, 192.07	3,207.44	3,103.90	11.50	11.50	-73.00	-70.07	-157.15	50.47	50,01	22.41	2.000		
3 300 00	3 291 90	3 307 53	3 282 35	11 78	11 91	-74 27	-77 41	-213 17	62 64	39.41	23 23	2 696		
3,400,00	3 200 02	3 303 20	3 380 74	10.10	10.07	-74 90	94.16	_220 15	66 90	10 07	22.04	2 701		
3,400.00	3,350.55	3,352.38	3,300.74	12.10	12.27	-74.00	-04.10	-225.15	70.00	46.07	23.34	2.731		
3,500.00	3,469.93	3,492.29	3,4/9.14	12.56	12.09	-75.20	-90.90	-245.14	70.90	40.27	24.70	2.075		
3,600.00	3,588.98	3,607.80	3,577.53	12.99	13.18	-/5.6/	-97.65	-261.12	75.15	49.62	25.53	2.943		
3,633.90	3,622.55	3,626.07	3,610.89	13.13	13.26	-75.80	-99.93	-266.54	76.57	50.84	25.73	2.976		
3,700.00	3,688.09	3,707.91	3,675.90	13.39	13.61	-76.33	-104.39	-277.10	79.74	53.44	26.30	3.032		
3,800.00	3,787.49	3,791.85	3,774.15	13.78	13.97	-78.06	-111.13	-293.06	86.12	59.15	26.97	3.194		
3,900.00	3,887.14	3,892.19	3,872.99	14.16	14.40	-80.60	-117.83	-308.95	94.39	66.70	27.69	3.409		
4,000.00	3,986,98	3,993.99	3,973.62	14.53	14.83	-83.12	-123.81	-323.11	103.02	74.59	28.42	3.625		
4 100 00	4 086 93	4 096 06	4 074 90	14 89	15 24	-85 39	-128 75	-334 83	111 54	82 40	29.14	3.828		
		.,				20.00	.20.70							
4,167.08	4,154.00	4,164 68	4,143,16	15.12	15 51	-86 81	-131 48	-341.30	117.20	87.60	29.60	3.959		
4 200 00	4 186 00	4 109 10	4 176 76	15 22	15.64	_87 //	-132 EF	-3// 06	110.94	QA 04	20.82	4 018		
4 200.00	4 000.02	-, 100.4Z	4 070 05	13.22	10.04	-07.44	-132.03	250 04	100.04	06.04	20.00	4.010		
4,300.00	4,200.92	4,301.18	4,2/9.20	15.55	16.02	-08.87	-135.50	-300.01	120.32	93.61	30.51	4,141		
4,400.00	4,386.92	4,404.25	4,382.23	15.88	16.40	-89.69	-137.27	-355.02	130.38	99.20	31,18	4.182		
4,500.00	4,486.92	4,507.51	4,485.46	16.21	16.75	-90.00	-137.97	-356.66	131.98	100.13	31.84	4.145		
	1 000 00		1 505 65	10.55				050.00		<u> </u>	00 F -	4 000		
4,600.00	4,586.92	4,607.97	4,585.92	16.55	17.08	-90.00	-137.98	-356.69	132.00	99.49	32.51	4.060		
		ĊĊ-	Min cent	re to cente	r distan		rent point SI	- min se	naration f	actor ES	- min ellir	ose separa	ation	



Anticollision Report



Company:Matador ResourcesProject:Eddy County, New Mexico (NAD 27)Reference Site:Charlie Sweeney Federal 31-23S-28ESite Error:0.00 usftReference Well:#204HWell Error:0.00 usftReference WellboreWellbore #1Reference Design:Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Offset D	esign	Charlie	e Sweene	ey Federal	31-23S-	28E - 224	H - Wellbore #	#1 - Desig	ın #1 (In F	rogress)			Offset Site Error:	0.00 ustt
Survey Pro	gram: 0-N	1WD											Offset Well Error:	0.00 usft
Refer	ence	Offs	et	Semi Majo	r Axis				Dist	ance				
Measured	Vertical	Measured	Vertical	Reference	Offset	Azimuth	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			from North	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)			
4 700 00	4 686 92	4 707 97	4 685 92	16.88	17 40	-90.00	-137 98	-356 69	132.00	98.81	33 19	3 978		
4 800 00	4 786 92	4 807 97	4 785 92	17 21	17 72	-90.00	-137 98	-356 69	132 00	98 14	33.86	3 898		
4 900 00	4 886 92	4 907 97	4 885 92	17.55	18.05	-90.00	-137.98	-356.69	132.00	97.46	34 54	3 822		
5,000,00	4,000.02	5 007 97	4,000.02	17.80	19.39	-90.00	-137.08	356.60	132.00	06.78	35.22	3 748		
5,000.00	4,500.52	5,007.97	4,303.92	17.09	10.30	-90.00	-107.90	-350.09	132.00	06.10	35.00	3.740		
5,100.00	5,000.92	5,107.97	5,065.92	18.22	10.71	-90.00	-137.90	-330.09	132.00	90.10	30.50	3.077		
5,200.00	5,186.92	5,207.97	5,185.92	18.36	19.04	-90.00	-137.96	-330.09	132.00	95.42	30.36	3.609		
5 300 00	5 286 92	5 307 97	5 285 92	18 90	19 37	-90.00	-137 98	-356 69	132.00	94 74	37.26	3 542		
5 400 00	5 386 92	5 407 97	5 385 92	19.24	19.70	-90.00	-137.98	-356.69	132.00	94.05	37.95	3 478		
5,500.00	5 496 02	5,407.07	5 495 02	10.59	20.02	-50.00	127.98	356.60	132.00	03.37	38.63	3 /17		
5,500.00	5,400.92	5,507.97	5,403.92	19.50	20.03	-90.00	-137.90	-000.09	132.00	30.07	30.03	3.417		
5,000.00	5,000.92	5,607.97	5,000.92	19.92	20.37	-90.00	-137.90	-300.09	132.00	92.00	39.32	3.307		
3,700.00	5,000.92	5,707.97	0,000.92	20.26	20.70	-90.00	-137.90	-350.09	132.00	91.99	40.01	3.299		
5,800.00	5,786.92	5.807.97	5,785,92	20.60	21.04	-90.00	-137.98	-356.69	132.00	91.30	40.70	3,244		
5,900,00	5 886.92	5 907 97	5,885,92	20.95	21 37	-90.00	-137.98	-356.69	132.00	90.61	41.39	3,189		
6,000,00	5 986 92	6 007 97	5 985 92	21 29	21 71	-90.00	-137 98	-356.69	132.00	89.92	42.08	3 137		
6 100 00	6 086 92	6 107 97	6 085 92	21.63	22.05	-90.00	-137.98	-356.69	132.00	89.23	42 77	3.086		
6 200 00	6 186 92	6 207 97	6 185 92	21.00	22.00	-90.00	-137.98	-356.69	132.00	88.54	43.46	3 037		
0,200.00	0,100.02	0,207.07	0,100.02	21.00	22.00	-30.00	-107.00	000.00	102.00	00.04	40,40	0.007		
6,300.00	6,286.92	6,307.97	6,285.92	22.32	22.72	-90.00	-137.98	-356.69	132.00	87.85	44.15	2.990		
6,400.00	6,386.92	6,407.97	6,385.92	22.67	23.06	-90.00	-137.98	-356.69	132.00	87.15	44.85	2.943		
6,500.00	6,486.92	6,507.97	6,485.92	23.01	23.40	-90.00	-137.98	-356.69	132.00	86.46	45.54	2.898		
6,600,00	6,586.92	6,607.97	6,585,92	23.36	23.74	-90.00	-137.98	-356.69	132.00	85.76	46.24	2.855		
6,700.00	6.686.92	6,707,97	6.685.92	23.70	24.08	-90.00	-137.98	-356.69	132.00	85.07	46.93	2.812		
	•	•	,											
6,800.00	6,786.92	6,807.97	6,785.92	24.05	24.42	-90.00	-137.98	-356.69	132.00	84.37	47.63	2.771		
6,900.00	6,886.92	6,907.97	6,885.92	24.40	24.77	-90.00	-137.98	-356.69	132.00	83.67	48.33	2.731		
7,000.00	6,986.92	7,007.97	6,985.92	24.75	25.11	-90.00	-137.98	-356.69	132.00	82.97	49.03	2.693		
7,100.00	7,086.92	7,107.97	7,085.92	25.09	25.45	-90.00	-137.98	-356.69	132.00	82.28	49.72	2.655		
7,200.00	7,186.92	7,207.97	7,185.92	25.44	25.79	-90.00	-137.98	-356.69	132.00	81.58	50.42	2.618		
7,300.00	7,286.92	7,307.97	7,285.92	25.79	26.14	-90.00	-137.98	-356.69	132.00	80.88	51.12	2.582		
7,400.00	7,386.92	7,407.97	7,385.92	26.14	26.48	-90.00	-137.98	-356.69	132.00	80.18	51.82	2.547		
7,500.00	7,486.92	7,507.97	7,485.92	26.49	26.83	-90.00	-137.98	-356.69	132.00	79.48	52.52	2.513		
7,600.00	7,586.92	7,607.97	7,585.92	26.83	27.17	-90.00	-137.98	-356.69	132.00	78.78	53.22	2.480		
7,700.00	7,686.92	7,707.97	7,685.92	27.18	27.52	-90.00	-137.98	-356.69	132.00	78.08	53.92	2.448		
7 900 00	7 700 00	7 007 07	7 705 00	07.50	07.00	~~~~~	407.00	250.00	400.00	77.00	64.00	0.446		
7,000.00	7,700.92	7,007.97	7,705.92	27.00	27.00	-90.00	-137.96	-356.69	132.00	77.30	54.62	2.416		
7,900.00	7,886.92	7,907.97	7,685.92	27.88	28.21	-90.00	-137.98	-356.69	132.00	76.67	55.33	2.386		
8,000.00	7,986.92	8,007.97	7,985,92	28.23	28,55	-90.00	-137.98	-356.69	132.00	/5.9/	55.03	2.356		
8,100.00	8,086.92	8,107.97	8,085.92	28.58	28.90	-90.00	-137.98	-356.69	132.00	75.27	56.73	2.327		
8,200.00	8,186.92	8,207.97	8,185.92	28.93	29.25	-90.00	-137.98	-356.69	132.00	/4.5/	57.43	2.298		
8 300 00	8 286 92	8 307 97	8 285 92	29.28	29.59	-90.00	-137 98	-356 69	132.00	73.86	58 14	2 270		
8 400 00	8 386 92	8 407 97	8 385 92	29.63	20.00	90.00	-137.08	-356.69	132.00	73.16	58.84	2 243		
8 500 00	8 486 92	8 507 97	8 485 02	29.00	20.04	-90.00	-137.98	-356.69	132.00	72.45	59.55	2.240		
8 600 00	8 586 92	8 607 97	8 585 92	30.34	30.23	-90.00	-137.98	-356.69	132.00	71.75	60.25	2 191		
8 700 00	0,000.02	9,007.97	9,000.92 9,695,00	30.04	20.04	-30.00	-137.30	356.60	132.00	71.05	60.25	2.101		
0,700.00	0,000.92	0,101.91	0,005.92	30.09	30.90	-90.00	-137.50	-330.09	132.00	11.00	00.55	2.100		
8,800,00	8,786,92	8.807.97	8,785,92	31.04	31.33	-90.00	-137.98	-356.69	132.00	70.34	61.66	2.141		
8,900,00	8 886.92	8 907 97	8 885 92	31.39	31.68	-90.00	-137.98	-356.69	132.00	69 64	62.36	2.117		
8 959 11	8 946 03	8 967 08	8 945 03	31.60	31.89	-90.00	-137.98	-356 69	132.00	69.22	62 78	2 103		
9,000,00	8 086 80	9,007,93	8 985 89	31.74	32.03	-90.63	-137.98	-356.69	131 79	68 73	63.06	2 090		
9 050 00	0,000.09	0,007.00	0,000.00	21.74	32.00	-30.03	-137.00	-356 60	121 11	67 73	62.00	2.000		
3,450.00	9,030.04	9,007.09	9,039.04	31.31	3 <u>2</u> .20	-93.11	-137.90	-000.09	(3 1,11	01.13	03.36	2.009		
9,100.00	9,085.51	9,106.55	9,084.51	32.08	32.37	-97.50	-137.98	-356.69	130.52	66.83	63.68	2.050		
9,110.64	9,095.80	9,116.85	9,094.80	32.11	32.41	-98.68	-137.98	-356.69	130.49	66.75	63.74	2.047 \$	SF	
9,150.00	9,133,41	9,154.46	9,132 41	32 24	32 54	-103 75	-137.98	-356.69	131 00	67.03	63.97	2.048		
9 200 00	9 179 89	9 200 94	9 178 89	32 30	32 70	-111 62	-137 98	-356.69	133.89	69.61	64.28	2 083		
9,250.00	9 224 59	9 245 63	9,223,59	32.53	32.70	-120 54	-137.98	-356 69	140.60	75.99	64 61	2.000		
-,00.00	0,227.00	0,240.00	5,220.00	02.00	02.00	.20.04	107.00		, 40.00	10.00	01.01	2.170		
9,300.00	9,267.16	9,288.21	9,266.16	32.66	33.01	-129.72	-137.98	-356.69	152.30	87.32	64.98	2.344		



Anticollision Report



Matador Resources Company: Eddy County, New Mexico (NAD 27) Project: Charlie Sweeney Federal 31-23S-28E **Reference Site:** Site Error: 0.00 usft #204H Reference Well: Well Error: 0.00 usft Reference Wellbore Wellbore #1 Reference Design: Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference:

Well#204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Offset D	esign	Charlie	e Sweene	y Federal	31-235	28E - 224	H - Wellbore	#1 - Desig	n #1 (In F	rogress)			Offset Site Error:	0.00 usft
Survey Pro	gram: 0-M	IWD						-		•			Offset Well Error:	0.00 usft
Refer	ence	Offs	set	Semi Majo	r Axis			_	Dist	ance		.		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (*)	Offset Wellbo +N/-S (บรft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,350.00	9,307.30	9,328.34	9,306.30	32.77	33.15	-138.38	-137.98	-356.69	169.59	104.24	65.36	2.595		
9,400.00	9,344.68	9,365.73	9,343.68	32.88	33.28	-146.00	-137.98	-356.69	192.49	126.77	65.72	2.929		
9,450.00	9,379.03	9,400.08	9,378.03	32.98	33.40	-152.41	-137.98	-356.69	220.56	154.51	66.05	3.339		
9,500.00	9,410.09	9,431.13	9,409.09	33.08	33.51	-157.66	-137.98	-356.69	253.20	186.86	66.33	3.817		
9,550.00	9,437.61	9,458.66	9,436.61	33.21	33.60	-161.91	-137.98	-356.69	289.75	223.18	66.57	4.352		
9,600.00	9,461.39	9,482.44	9,460.39	33.37	33.69	-165.36	-137.98	-356.69	329.60	262.83	66.77	4.936		
9,650.00	9,481.25	9,502.30	9,480.25	33.53	33.76	-168.15	-137.98	-356.69	372.17	305.24	66.93	5.561		
9,700.00	9,497.04	9,518.08	9,496.04	33.71	33.81	-1/0,44	-137.98	-356.69	416.91	349.80	67.05	6.218		
9,709.11	9,499.40	9,520.51	9,490.40	33.74	33.62	-170,01	-137.90	-300.09	423.20	306.07	67.07	6 800		
9,700.00	9,509.20	9,000.20	9,508.20	34.09	33.80	-172.32	-137.98	-356.69	510 49	443.27	87.22	7 595		
9,850,00	9,510.70	9,535.00	9,574.78	34 31	33.01	-175.17	-137.98	-356.69	558.49	491 22	67.22	8 302		
9,000,00	9,520.10	9 551 22	9,529,17	34 53	33.93	-176.27	-137.98	-356.69	607.02	539 71	67.31	9.018		
9,950.00	9.531.96	9 553 01	9.530.96	34.76	33.93	-177 20	-137.98	-356.69	655.90	588.57	67.33	9.741		
9,959,11	9,532.00	9,553.05	9.531.00	34.81	33.93	-177.36	-137.98	-356.69	664.83	597.49	67.34	9.873		
10,000.00	9,532.00	9,553.05	9,531.00	35.01	33.93	-177.98	-137.98	-356.69	705.05	637.70	67.35	10.469		
10,100.00	9,532.00	10,868.42	10,300.01	35.55	37.89	-89.50	666.15	-349.78	769.04	730.24	38.80	19.820		
10,200.00	9,532.00	10,968.23	10,300.01	36.15	38.41	-89.47	765.95	-348.92	769.00	729.69	39.32	19.560		
10,264.80	9,532.00	11,033.02	10,300.01	36.56	38.78	-89.38	830.74	-348.36	769.00	729.34	39.67	19.387		
10,300.00	9,532.00	11,068.21	10,300.01	36.79	39.00	-89.38	865.94	-348.06	769.00	729.14	39.86	19.291		
10,400.00	9,532.00	11,168.21	10,300.01	37.49	39.64	-89.38	965.93	-347.20	769.00	728.54	40.46	19.007		
10,500.00	9,532.00	11,268.21	10,300.01	38.24	40.34	-89.38	1,065.93	-346.34	769.00	727.90	41.11	18.707		
10,600.00	9,532.00	11,368.21	10,300.01	39.05	41.09	-89.38	1,165.92	-345.48	769.00	727.20	41.80	18.395		
10,700.00	9,532.00	11,468.21	10,300.01	39.91	41.90	-89.38	1,265.92	-344.02	769.00	725.40	42.55	17.746		
10,800.00	9,532.00	11,008.21	10,300.01	40.82	42.75	-09.37	1,305.92	-343.70	769.00	720.07 724 BA	43.33	17 413		
11,000,00	9,002.00	11,000.21	10,300.01	41.77	43.05	-03.37	1 565 91	-342.90	769.00	724.04	45.03	17.413		
11,000.00	9,532.00	11,700.21	10,300.00	42.77	45.57	-09.37	1,505.91	-341 19	769.00	723.06	45.03	16 740		
11 200 00	9,532.00	11 968 21	10,300.00	44.88	46.59	-89.37	1 765 90	-340.33	769.00	722.00	46.88	16 404		
11 300 00	9 532.00	12 068 21	10,300.00	45 99	47 64	-89.37	1.865.90	-339.47	769.00	721.15	47.85	16.070		
11,400.00	9,532.00	12,168.21	10,300.00	47.13	48.73	-89.37	1,965.89	-338.61	769.00	720.15	48.86	15.740		
11,500.00	9,532.00	12,268.21	10,300.00	48.29	49.85	-89.37	2,065.89	-337.75	769.00	719.11	49.89	15.414		
11,600.00	9,532.00	12,368.21	10,300.00	49.49	51.00	-89.37	2,165.89	-336.89	769.00	718.05	50.95	15.093		
11,700.00	9,532.00	12,468.21	10,300.00	50.71	52.18	-89.37	2,265.88	-336.03	769.00	716.96	52.04	14.778		
11,800.00	9,532.00	12,568.21	10,300.00	51.96	53.38	-89.37	2,365.88	-335.17	769.00	715.85	53.15	14.469		
11,900.00	9,532.00	12,668.21	10,300.00	53.23	54.60	-89.37	2,465.88	-334.31	769.00	714.72	54.28	14.167		
12,000.00	9,532.00	12,700.21	10,300.00	54.52	25.85	-69.36	2,000.07	-333.45	769.00	713.00	55.44	13.072		
12,100.00	9,532.00	12,000.21	10,300.00	55.63	57.11	-09.30	2,000.07	-332.09	769.00	712.39	57.91	13 202		
12,200.00	9,532.00	13.068.21	10,300.00	58.49	59.40	-09.30	2,705.87	-330.87	769.00	711.20	59.02	13.030		
12,400.00	9,532.00	13,168.21	10,300.00	59.85	61.02	-89.36	2,965.86	-330.01	769.00	708.76	60.24	12.765		
12,500.00	9,532.00	13,268,21	10,300.00	61.23	62.36	-89.36	3,065.85	-329.15	769.00	707.51	61.49	12.507		
12,600.00	9,532.00	13,368.21	10,300.00	62.61	63.71	-89.36	3,165.85	-328.29	769.00	706.26	62.74	12.256		
12,700.00	9,532.00	13,468.21	10,300.00	64.01	65.08	-89.36	3,265.85	-327.43	769.00	704.99	64.02	12.013		
12,800.00	9,532.00	13,568.21	10,300.00	65.42	66.46	-89.36	3,365.84	-326.58	769.00	703.70	65.30	11.776		
12,900.00	9,532.00	13,668.21	10,300.00	66.84	67.85	-89.36	3,465.84	-325.72	769.00	702.40	66.60	11.547		
13,000.00	9,532.00	13,768.21	10,300.00	68.28	69.25	-89,35	3,565.84	-324,86	769.00	701.10	67.90	11.325		
13,100.00	9,532.00	13,868.21	10,300.00	69.72	70.66	-89.35	3,665.83	-324.00	769.00	699.78	69.22	11.109		
13,200.00	9,532.00	13,968.21	10,300.00	71.17	72.09	-89.35	3,765.83	-323.14	769.00	698.45	70.55	10.900		
13,300.00	9,532.00	14,068.21	10,300.00	72.63	73.52	-89.35	3,865.82	-322.28	769.00	697.11	71.89	10.697		
13,400.00	9,532.00	14,168.21	10,300.00	74.10	74.96	-89.35	3,965.82	-321.42	769.00	695.76	73.24	10.500		
13,500.00	9,532.00	14,268.21	10,300.00	75.57	76.41	-89.35	4,065.82	-320.56	769.00	694.40	74.60	10.309		

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Anticollision Report



Company:Matador ResourcesProject:Eddy County, New Mexico (NAD 27)Reference Site:Charlie Sweeney Federal 31-23S-28ESite Error:0.00 usftReference Well:#204HWell Error:0.00 usftReference WellboreWellbore #1Reference Design:Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Offset D	esign	Charlie	e Sweene	ey Federal	31-238-	28E - 224	H - Wellbore	#1 - Desig	n #1 (In F	Progress)			Offset Site Error:	0.00 usft
Survey Pro Refer	ogram: 0-N rence	IWD Offe	iet	Semi Majo	r Axis				Dist	ance			Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbo +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
13,600.00	9,532.00	14,368.21	10,300.00	77.06	77. 87	-89.35	4,165.81	-319.70	769.00	693.04	75.96	10.124		
13,700.00	9,532.00	14,468.21	10,300.00	78.55	79.34	-89.35	4,265.81	-318.84	769.00	691.67	77.33	9.944		
13,800.00	9,532.00	14,568.21	10,300.00	80.04	80.81	-89.35	4,365.81	-317.98	769.00	690.29	78.71	9.770		
13,900.00	9,532.00	14,668.21	10,300.00	81.55	82.29	-89.34	4,465.80	-317.12	769.00	688.90	80.10	9.601		
14,000.00	9,532.00	14,768.21	10,300.00	83.05	83.78	-89.34	4,565.80	-316.26	769.00	687.51	81.49	9.436		
14,100.00	9,532.00	14,868.21	10,300.00	84.57	85.27	-89.34	4,665.80	-315.40	769.00	686.11	82.89	9.277		
14,200.00	9,532.00	14,968.21	10,300.00	86.09	86.77	-89.34	4,765.79	-314.54	769.00	684.70	84.30	9.122		
14,299.43	9,532.00	15,067.64	10,300.00	87.60	88.27	-89.34	4,865.21	-313.69	769.00	683.30	85.70	8.973		



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MS Energy Services



Anticollision Report

Company: Matador Resources Project: Eddy County, New Mexico (NAD 27) Reference Site: Charlie Sweeney Federal 31-23S-28E Site Error: 0.00 usft **Reference Well:** #204H Well Error: 0.00 usft Reference Wellbore Wellbore #1 Reference Design: Design #1

Local Co-ordinate Reference: **TVD Reference:** MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference:

Well#204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Offset D	esign	Charlie	Sweene	y Federal	31-23S	-28E - 228	H - Wellbore	#1 - Desig	ın #1 (In P	rogress)			Offset Site	e Error:	0.00 usft
Survey Pro	gram: 0-M	IWD		•				-	•	• ·			Offset Wei	Il Error:	0.00 usft
Refer	ence	Offs	et	Semi Majo	r Axis				Dista	ance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbo +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		Warning	
0.00	0.00	0.00	0.00	0.00	0.00	89.99	0.02	90.31	90.31						
100.00	100.00	100.00	100.00	0.13	0.13	89.99	0.02	90.31	90.31	90.05	0.26	347.490			
200.00	200.00	200.00	200.00	0.49	0.49	89,99	0.02	90.31	90.31	89.33	0.98	92.452			
300.00	300.00	300.00	300.00	0.85	0.85	89.99	0.02	90.31	90.31	88.62	1.69	53.319			
400.00	400.00	400.00	400.00	1.21	1.21	89.99	0.02	90.31	90.31	87.90	2.41	37.462			
500.00	500.00	500.00	500.00	1.56	1.56	89.99	0.02	90.31	90.31	87.18	3.13	28.875			
600.00	600.00	600.00	600.00	1.92	1.92	89.99	0.02	90.31	90.31	86.47	3.84	23.490			
700.00	700.00	700.00	700.00	2.28	2.28	89.99	0.02	90.31	90.31	85.75	4.56	19.798			
800.00	800.00	800.00	800.00	2.64	2.64	89.99	0.02	90.31	90.31	85.03	5.28	17.109			
900.00	900.00	900.00	900.00	3.00	3.00	89.99	0.02	90.31	90.31	84.31	6.00	15.063	00 50		
1,000.00	1,000.00	1,000.00	1,000.00	3.30	3.36	89.99	0.02	90.31	90.31	83.60	6.71	13.454 (UU, ES		
1,100.00	1,099.99	1,098.01	1,098.00	3.70	3.69	89.99	-0.66	91.37	92.50	85.11	7.39	12.510			
1,200.00	1,199.91	1,195.73	1,195.65	4.04	4.02	89.98	-2.71	94.52	99.07	91.02	8.05	12.300			
1,266.67	1,266.45	1,260.59	1,260.39	4.27	4.24	89.97	-4.81	97.77	105.87	97.37	8.50	12.459			
1,300.00	1,299.70	1,300.40	1,293.27	4.38	4.40	89.99	-0.00	105 51	109.79	1101.03	0.//	12.524			
1,400.00	1,399.40	1,407.14	1,392.33	4.73	4.75	90.04	-9.03	105.51	121.57	112.12	5.45	12.001			
1,500.00	1,499.22	1,507.84	1,491.40	5.08	5.11	90.09	-13.59	111.32	133.35	123.20	10.15	13.143			
1,600.00	1,598.97	1,608.54	1,590.46	5.43	5.46	90.13	-17.36	117.13	145.13	134.28	10.84	13.383			
1,700.00	1,090.73	1,709.23	1,009.52	5.79	0.0Z	90.16	-21.13	122.90	100.91	140.30	11.00	13,569			
1,000.00	1,790.48	1,009.93	1,700.00	0.10 6.51	6.19	90.19	-24.09	120.70	180.00	100.43	12.20	14 003			
1,900.00	1,090.24	1,009.00	1,007.04	0.01	0.47	90.21	-20.00	134.57	100.40	107.00	12.09	14.003			
2,000.00	1,998.00	1,988.68	1,986.70	6.88	5.83	90.24	-32.43	140.39	192.24	1/8.00	13.59	14.141			
2,100.00	2,097.75	2,067.90	2,000.11	7.24	7.20	90.25	-30.19	152.01	204.02	200 79	15.01	14.204			
2,200.00	2,137.31	2,107.25	2 283 89	7.01	7.92	90.27	-35.50	157.83	213.00	211 85	15.01	14.373			
2,400.00	2,397.02	2,385.90	2,382.95	8.34	8.29	90.30	-47.49	163.64	239.36	222.91	16.44	14.558			
2,500.00	2,496.78	2,485.20	2,482.01	8.71	8.65	90.31	-51.26	169.45	251.13	233.98	17.16	14.638			
2,600.00	2,596.54	2,584.50	2,581.08	9.08	9.02	90.32	-55.03	175.27	262.91	245.04	17.87	14.710			•
2,700.00	2,696.29	2,683.81	2,680.14	9.45	9.38	90.33	-58.79	181.08	274.69	256.10	18.59	14.776			
2,750.00	2,746.17	2,733.46	2,729.67	9.63	9.57	90.34	-60.68	183.99	280.58	261.63	18.95	14.807			
2,800.00	2,796.02	2,781.11	2,777.19	9.82	9.74	90.31	-62.55	186.88	286.86	267.56	19.30	14.867			
2,900.00	2,895.56	2,873.84	2,869.55	10.20	10.09	90.20	-67.09	193.89	302.53	282.56	19.97	15.148			
3,000.00	2,994.81	2,965.54	2,960.64	10.59	10.45	90.07	-72.77	202.66	322.38	301.74	20.64	15.619			
3,016.51	3,011.17	2,980.56	2,975.54	10.65	10.51	90.04	-73.82	204.27	326.05	305.30	20.75	15,713			
3,100.00	3,093.84	3,059.14	3,053.38	10.98	10.81	90.00	-79.67	213.31	345.42	324.09	21.33	16,193			
3,200.00	3,192.87	3,156.37	3,149.67	11.38	11.20	90.01	-87.03	224.66	368.79	346.73	22.06	16.719			
3,300.00	3,291.90	3,253.60	3,245.95	11.78	11.59	90.02	-94.39	236.02	392.17	369.38	22.79	17.210			
3,400.00	3,390.93	3,350.83	3,342.23	12.18	11.98	90.03	-101.74	247.38	415.54	392.02	23.52	17.669			
3,500.00	3,489.95	3,448.06	3,438.52	12.58	12.37	90.04	-109.10	258.73	438.91	414.66	24.25	18.099			
3,600.00	3,588.98	3,545.29	3,534.80	12.99	12.76	90.05	-116,46	270.09	462.29	437.31	24.98	18.503			
3,633.90	3,022.00	3,560.06	3,509.24	13.13	12.90	90.07	-119.07	274.12	470.18	444.93	25.25	18.621			
3,700.00	3,688.09	3,652.21	3,640.81	13.39	13.19	90.11	-123.98	281.71	484.40	458.60	25.80	18.775			
3,800.00	3,787.49	3,762.62	3,750.66	13.78	13.61	90.15	-130.08	291.11	502.14	475.52	26.62	18.862			
3,900.00	3,887.14	3,874.27	3,862.00	14.16	14.03	90.15	-134.48	297.91	515.27	487.84	27.43	18.786			
4,000.00	3,986.98	3,986.77	3,974.40	14.53	14.44	90.12	-137.13	302.00	523.73	495.51	28.22	18.562			
4,100.00	4,086.93	4,100.69	4,086.93	14.89	14.83	90.03	-137.98	303.31	527.50	498.52	28.97	18.206			
4,167.08	4,154.00	4,166.39	4,154.00	15.12	15.05	90.00	-137.98	303.31	528.00	498.58	29.42	17.944			
4,200.00	4,186.92	4,200.69	4,186.92	15.22	15.16	90.00	-137.98	303.31	528.00	498.35	29.65	17.808			
4,300.00	4,286.92	4,300.69	4,286.92	15.55	15.49	90.00	-137.98	303.31	528.00	497.68	30.32	17.414			
4,400.00	4,386.92	4,400.69	4,386.92	15.88	15.82	90.00	-137.98	303.31	528.00	497.01	30.99	17.035			
4,500.00	4,486.92	4,500.69	4,486.92	16.21	16.16	90.00	-137.98	303.31	528.00	496.33	31.67	16.672			
4,600.00	4,586.92	4,600.69	4,586.92	16.55	16.49	90.00	-137.98	303.31	528.00	495.65	32.35	16.323			



Anticollision Report



Company:Matador ResourcesProject:Eddy County, New Mexico (NAD 27)Reference Site:Charlie Sweeney Federal 31-23S-28ESite Error:0.00 usftReference Well:#204HWell Error:0.00 usftReference WellboreWellbore #1Reference Design:Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Offset D	esian	Charlie	Sweene	v Federal	31-235-	28E - 228	H - Wellbore	#1 - Desia	ın #1 (In F	Progress)			Offset Site Error:	0.00 usft
Survey Pro	gram: 0-N	IWD		,					•	-3,			Offset Well Error:	0.00 usft
Refer	ence	Offs	iet	Semi Majo	r Axis				Dist	ance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbo +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4 700 00	4 686 92	4 700.69	4 686 92	16 88	16 83	90.00	-137.98	303.31	528.00	494.97	33.03	15.987		
4,800.00	4.786.92	4,800.69	4.786.92	17.21	17.16	90.00	-137.98	303.31	528.00	494.29	33.71	15.664		
4,900.00	4,886.92	4,900.69	4,886.92	17.55	17.50	90.00	-137.98	303.31	528.00	493.61	34.39	15.354		
5,000.00	4,986.92	5,000.69	4,986.92	17.89	17.84	90.00	~137.98	303.31	528.00	492.93	35.07	15.054		
5,100.00	5,086.92	5,100.69	5,086.92	18.22	18.18	90.00	-137.98	303.31	528.00	492.24	35.76	14.766		
5,200.00	5,186.92	5,200.69	5,186.92	18.56	18.52	90.00	-137.98	303.31	528.00	491.56	36.44	14.488		
5,300.00	5,286.92	5,300.69	5,286.92	18.90	18.86	90.00	-137.98	303.31	528.00	490.87	37.13	14.220		
5,400.00	5,386.92	5,400.69	5,386.92	19.24	19.20	90.00	-137.98	303.31	528.00	490.18	37.82	13.961		
5,500.00	5,486.92	5,500.69	5,486.92	19.58	19.54	90.00	-137.98	303.31	528.00	489.49	38.51	13.711		
5,600.00	5,586.92	5,600.69	5,586.92	19.92	19.88	90.00	-137.98	303.31	528.00	488.80	39.20	13.470		
5,700.00	5,686.92	5,700.69	5,686.92	20.26	20.22	90.00	-137.98	303.31	528.00	488.11	39.89	13.236		
5,800.00	5,786.92	5,800.69	5,786.92	20.60	20.57	90.00	-137.98	303.31	528.00	487.42	40.58	13.011		
5,900.00	5,886.92	5,900.69	5,886.92	20.95	20.91	90.00	-137.98	303.31	528.00	486.72	41.28	12.792		
6,000.00	5,986.92	6,000.69	5,986.92	21.29	21.26	90.00	-137.98	303.31	528.00	486.03	41.97	12.581		
6,100.00	6,086.92	6,100.69	6,086.92	21.63	21.60	90.00	-137.98	303.31	528.00	485.34	42.66	12.376		
6,200.00	6,186.92	6,200.69	6,186.92	21.98	21.95	90.00	-137.98	303.31	528.00	484.64	43.36	12.177		
6,300.00	6,286.92	6,300.69	6,286.92	22.32	22.29	90.00	-137.98	303.31	528.00	483.94	44.06	11.985		
6,400.00	6,386.92	6,400.69	6,386.92	22.67	22.64	90.00	-137.98	303.31	528.00	483.25	44.75	11.798		
6,500.00	6,486.92	6,500.69	6,486.92	23.01	22.98	90.00	-137.98	303.31	528.00	482.55	45.45	11.617		
6,600.00	6,586.92	6,600.69	6,586.92	23.36	23.33	90.00	-137.98	303.31	528.00	481.85	46.15	11.442		
6,700.00	6,686.92	6,700.69	6,686.92	23.70	23.68	90.00	-137.98	303.31	528.00	481.15	46.85	11.271		
6,800.00	6,786.92	6,800.69	6,786.92	24.05	24.02	90.00	-137.98	303.31	528.00	480.46	47.54	11.105		
6,900.00	6,886.92	6,900.69	6,886.92	24.40	24.37	90.00	-137.98	303.31	528.00	479.76	48.24	10.944		
7,000.00	6,986.92	7,000.69	6,986.92	24.75	24.72	90.00	-137.98	303.31	528.00	479.06	48.94	10.788		
7,100.00	7,086.92	7,100.69	7,086.92	25.09	25.07	90.00	-137.98	303.31	528.00	4/8.30	49.64	10.636		
7,200.00	7,100.92	7,200.69	7,166.92	25.44	25.42	90.00	-137.98	303.31	526.00	477.00	50.35	10.466		
7,300.00	7,286.92	7,300.69	7,286.92	25.79	25.77	90.00	-137.98	303.31	528.00	476.95	51.05	10.343		
7,400.00	7,386.92	7,400.69	7,386.92	26.14	26.12	90.00	-137.98	303.31	528.00	4/6.25	51.75	10.203		
7,500.00	7,486.92	7,500.69	7,486.92	26.49	26.46	90.00	137,98	303.31	528.00	475.55	52.45	10.067		
7,600.00	7,000.92	7,000.09	7,500.92	20.03	20.01	90.00	-137.98	303.31	528.00	4/4.00	53.15	9.933		
7,700.00	7,000.92	7,700.09	7,000.92	27.10	27.10	90.00	-137.90	303.31	528.00	474.14	53.60	9.004		
7,800.00	7,786.92	7,800.69	7,786.92	27.53	27.51	90.00	-137.98	303.31	528.00	4/3.44	54.56	9.677		
7,900.00	7,000.92	7,900.69	7,000.92	27.00	27.00	90.00	-137.90	202.31	526.00	472.74	55.20 EE 07	9.554		
8 100 00	8 086 92	8 100 69	7,900.92 8 086 92	20.23	20.21	90.00	-137.90	303.31	528.00	472.03	56.67	9.434		
8 200 00	8 186 92	8 200 69	8 186 92	28.93	28.92	90.00	-137.98	303.31	528.00	470.62	57.38	9,202		
8 200 00	9,786,02	9 200 60	0,100.02	20.00	20.02	00.00	127.09	202.24	528.00	460.02	59.09	9.001		
8,00,00	8 386 92	8 400 69	8 386 92	29.20	29.27	90.00	-137.98	303.31	528.00	469.92	58.00	8 982		
8,400.00	8 486 92	8 500 69	8 486 92	29.03	29.02	90.00	-137.98	303.31	528.00	468 51	59.79	8 875		
8,600.00	8.586.92	8.600.69	8.586.92	30.34	30.32	90.00	-137.98	303.31	528.00	467.80	60.20	8.771		
8,700.00	8,686.92	8,700.69	8,686.92	30.69	30.67	90.00	-137.98	303.31	528.00	467.10	60.90	8.669		
8.800.00	8,786.92	8,800.69	8,786.92	31.04	31.03	90.00	-137.98	303.31	528.00	466.39	61.61	8.570		
8,900.00	8,886.92	8,900.69	8,886.92	31.39	31.38	90.00	-137.98	303.31	528.00	465.68	62.32	8.473		
8,959,11	8,946.03	8,958.42	8,946.03	31.60	31.58	90.00	-137.98	303.31	528.00	465.27	62.73	8.417		
9,000.00	8,986.89	9,000.72	8,986.89	31.74	31.73	90.16	-137.98	303.31	528.22	465.20	63.02	8.381		
9,050.00	9,036.54	9,048.93	9,036.54	31.91	31.90	90.77	-137.98	303.31	529.13	465.77	63.36	8.351		
9,100.00	9,085.51	9,102.10	9,085.51	32.08	32.09	91.84	-137.98	303.31	530.87	467.16	63.72	8.332		
9,150.00	9,133.41	9,145.80	9,133.41	32.24	32.24	93.35	-137.98	303.31	533.66	469.64	64.03	8.335		
9,200.00	9,179.89	9,207.72	9,179.89	32.39	32.46	95.26	-137.98	303.31	537.80	473.40	64.40	8.351		
9,250.00	9,224.59	9,236.97	9,224.59	32.53	32.56	97.55	-137.98	303.31	543.62	478.97	64.65	8.409		
9,300.00	9,267.16	9,279.55	9,267.16	32.66	32.71	100.16	-137.98	303.31	551.51	486.58	64.94	8.493		
9,350.00	9,307.30	9,319.69	9,307.30	32.77	32.85	103.04	-137.98	303.31	561.85	496.64	65.21	8.616		



Anticollision Report



Company:Matador ResourcesProject:Eddy County, New Mexico (NAD 27)Reference Site:Charlie Sweeney Federal 31-23S-28ESite Error:0.00 usftReference Well:#204HWell Error:0.00 usftReference WellboreWellbore #1Reference Design:Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Offset D	esian	Charlie	e Sweene	ev Federal	31-235	28E - 228I	H - Wellbore	#1 - Desig	ın #1 (In F	Progress)			Offset Site Error:	0.00 usft
Survey Pro	gram: 0-N	IWD						•		• •			Offset Well Error:	0.00 usft
Refer	ence	Offe	set	Semi Majo	r Axis		.	. .	Dist	ance		_		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbo +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,400.00	9,344.68	9,357.07	9,344.68	32.88	32,99	106.11	-137.98	303.31	574.95	509.49	65.47	8.782		
9,450.00	9,379.03	9,408.58	9,379.03	32.98	33.17	109.31	-137.98	303.31	591.10	525.33	65.77	8.988		
9,500.00	9,410.09	9,422.48	9,410.09	33.08	33.22	112.56	-137.98	303.31	610.46	544.54	65.92	9.260		
9,550.00	9,437.61	9,450.00	9,437.61	33.21	33.31	115.79	-137.98	303.31	633.10	566.99	66.12	9.576		
9,600.00	9,461.39	9,473.78	9,461.39	33.37	33.40	118.94	-137.98	303.31	658.98	592.70	66.29	9.941		
9,650.00	9,481.25	9,506.36	9,481.25	33.53	33.51	121.97	-137.98	303.31	687.95	621.47	66.48	10.349		
9,700.00	9,497.04	9,509.43	9,497.04	33.71	33.52	124.83	-137.98	303.31	719.74	653.19	66.55	10.815		
9,709.11	9,499.46	9,511.85	9,499.46	33.74	33.53	125.34	-137.98	303.31	725.81	659.24	66.57	10.903		
9,750.00	9,509.20	9,521.59	9,509.20	33.89	33.57	127.51	-137.98	303.31	753.95	687.31	66.64	11.314		
9,800.00	9,518.78	9,531.17	9,518.78	34.09	33.60	129.97	-137.98	303.31	790.09	723.37	66.72	11.842		
9,850.00	9,525.78	9,538.17	9,525.78	34.31	33.63	132.24	-137.98	303.31	827.90	761.12	66.78	12.398		
9,900.00	9,530.17	9,542.56	9,530.17	34.53	33.64	134.31	-137.98	303.31	867.12	800.30	66.82	12.977		
9,950.00	9,531.96	9,544.35	9,531.96	34.76	33.65	136.21	-137.98	303.31	907.52	840.67	66.85	13.576		
9,959.11	9,532.00	9,544.39	9,532.00	34.81	33.65	136.54	-137.98	303.31	914.98	848.13	66.85	13.686		
10,000.00	9,532.00	9,544.39	9,532.00	35.01	33.65	137.97	-137.98	303.31	948.61	881.74	66,87	14.186		
10,100.00	9,532.00	10,853.08	10,300.00	35.55	37.79	90.49	660.47	310.18	1,007.69	951.84	55.84	18.045		
10,200.00	9,532.00	10,952.89	10,300.00	36.15	38.31	90.49	760.28	311.03	1,011.59	954.80	56.79	17.812		
10,264.80	9,532.00	11,017.68	10,300.00	36.56	38.67	90.49	825.06	311.59	1,012.31	954.92	57.38	17.641		
10,300.00	9,532.00	11,052.88	10,300.00	36.79	38.89	90.49	860.26	311.89	1,012.31	954.60	57.71	17.541		
10,400.00	9,532.00	11,152.88	10,300.00	37.49	39.53	90.49	960.26	312.75	1,012.31	953.62	58.69	17.249		
10,500.00	9,532.00	11,252.88	10,300.00	38.24	40.23	90.49	1,060.25	313.61	1,012.31	952.56	59.75	16,942		
10,600.00	9,532.00	11,352.88	10,300.00	39.05	40.98	90.49	1,160.25	314.47	1,012.31	951.41	60.90	16,623		
10,700.00	9,532.00	11,452.88	10,300.00	39.91	41.79	90.49	1,260.25	315.33	1,012.31	950.20	62.12	16.296		
10,800.00	9,532.00	11,552.88	10,300.00	40.82	42.64	90.49	1,360.24	316.19	1,012.32	948.90	63.41	15.964		
10,900.00	9,532.00	11,652.88	10,300.00	41.77	43.54	90.49	1,460.24	317.05	1,012.32	947.55	64.77	15,629		
11,000.00	9,532.00	11,752.88	10,300.00	42.77	44.48	90.49	1,560.23	317.91	1,012.32	946.12	66.20	15.293		
11,100.00	9,532.00	11,852.88	10,300.00	43.80	45.47	90.49	1,660.23	318.77	1,012.32	944.64	67.68	14,957		
11,200.00	9,532.00	11,952.88	10,300.00	44.88	46.49	90.49	1,760.23	319.63	1,012.32	943.10	69.22	14.625		
11,300.00	9,532.00	12,052.88	10,300.00	45.99	47.54	90.49	1,860.22	320.49	1,012.33	941.52	70,81	14.296		
11,400.00	9,532.00	12,152.88	10,300.00	47.13	48.63	90.49	1,960.22	321.35	1,012.33	939.88	72.45	13.973		
11,500.00	9,532.00	12,252.88	10,300.00	48.29	49.75	90.49	2,060.22	322.21	1,012.33	938,19	74.14	13.655		
11,600.00	9,532.00	12,352.88	10,300.00	49.49	50.90	90.49	2,160.21	323.07	1,012.33	936.47	75.86	13.344		
11,700.00	9,532.00	12,452.88	10,300.00	50.71	52.08	90.49	2,260.21	323.93	1,012.33	934.70	77.63	13.040		
11,800.00	9,532.00	12,552.88	10,300.00	51.96	53.28	90.49	2,360.21	324.79	1,012.34	932.90	79.43	12.744		
11,900.00	9,532.00	12,652.88	10,300.00	53.23	54.51	90.49	2,460.20	325.65	1,012.34	931.07	81.27	12.456		
12,000.00	9,532.00	12,752.88	10,300.00	54.52	55.76	90.49	2,560.20	326.51	1,012.34	929.20	83.14	12.176		
12,100.00	9,532.00	12,852.88	10,300.00	55.83	57.02	90.49	2,660.19	327.37	1,012.34	927.30	85.04	11.904		
12,200.00	9,532.00	12,952.88	10,300.00	57.15	58.31	90.49	2,760.19	328.23	1,012.34	925.37	86.97	11.640		
12,300.00	9,532.00	13,052.88	10,300.00	58.49	59.62	90.49	2,860.19	329.09	1,012.35	923.42	88.93	11.384		
12,400.00	9,532.00	13,152.88	10,300.00	59.85	60.94	90.49	2,960.18	329.95	1,012.35	921.44	90.91	11,136		
12,500.00	9,532.00	13,252.88	10,300.00	61.23	62.28	90.49	3,060.18	330.81	1,012.35	919.44	92.91	10.896		
12,600.00	9,532.00	13,352.88	10,300.00	62.61	63.63	90.49	3,160.18	331.67	1,012.35	917.42	94.93	10.664		
12,700.00	9,532.00	13,452.88	10,300.00	64.01	65.00	90.49	3,260.17	332.53	1,012.35	915.38	96.98	10.439		
12,800.00	9,532.00	13,552.88	10,300.00	65.42	66.38	90.49	3,360.17	333.39	1,012.36	913.32	99.04	10.222		
12,900.00	9,532.00	13,652.88	10,300.00	66.84	67.77	90.49	3,460.16	334.25	1,012.36	911.24	101.12	10.011		
13,000.00	9,532.00	13,752.88	10,300.00	68.28	69.18	90.49	3,560.16	335.11	1,012.36	909.14	103.22	9.808		
13,100.00	9,532.00	13,852.88	10,300.00	69.72	70.59	90.49	3,660.16	335.97	1,012.36	907.03	105.33	9.611		
13,200.00	9,532.00	13,952.88	10,300.00	71.17	72.02	90.49	3,760.15	336.83	1,012.37	904.90	107.46	9.421		
13,300.00	9,532.00	14,052.88	10,300.00	72.63	73.45	90.49	3,860.15	337.69	1,012.37	902.76	109.60	9.237		
13,400.00	9,532.00	14,152.88	10,300.00	74.10	74.89	90.49	3,960.15	338.55	1,012.37	900.61	111.76	9.059		
13,500.00	9,532.00	14,252.88	10,300.00	75.57	76.35	90.49	4,060.14	339.41	1,012.37	898.45	113,93	8,886		
13,600.00	9,532.00	14,352.88	10,300.00	77.06	77.81	90.49	4,160.14	340.27	1,012.37	896.27	116.11	8,719		



Anticollision Report



Company:Matador ResourcesProject:Eddy County, New Mexico (NAD 27)Reference Site:Charlie Sweeney Federal 31-23S-28ESite Error:0.00 usftReference Well:#204HWell Error:0.00 usftReference WellboreWellbore #1Reference Design:Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

	Offset D	esign	Charlie	e Sweene	ey Federal	31-235-	28E - 228I	H - Wellbore	#1 - Desig	ın #1 (in P	rogress)			Offset Site Error:	0.00 usft
l	Survey Pro	gram: 0-A	1WD		•									Offset Well Error:	0.00 usft
ļ	Refer	ence	Offs	set .	Semi Majo	r Axis				Dist	ance				
I	Measured	Vertical	Measured	Vertical	Reference	Offset	Azimuth	Offset Wellbo	re Centre	Between	Between	Minimum	Separation	Warning	
	Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	from North (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
ł	13,700.00	9,532.00	14,452.88	10,300.00	78.55	79.27	90.49	4,260.13	341.13	1,012.38	894.08	118.30	8.558		
I	13,800.00	9,532.00	14,552.88	10,300.00	80.04	80.75	90.49	4,360.13	341.99	1,012.38	891.88	120.50	8.402		
	13,900.00	9,532.00	14,652.88	10,300.00	81.55	82.23	90.49	4,460.13	342.85	1,012.38	889.67	122.71	8.250		
	14,000.00	9,532.00	14,752.88	10,300.00	83.05	83.72	90.49	4,560.12	343.71	1,012.38	887.45	124.93	8.104		
1	14,100.00	9,532.00	14,852.88	10,300.00	84.57	85.21	90.49	4,660.12	344.57	1,012.38	885.23	127.16	7.962		
1	14,200.00	9,532.00	14,952.88	10,300.00	86.09	86.71	90.49	4,760.12	345.43	1,012.39	882.99	129.39	7.824		
	14,299.43	9,532.00	15,052.31	10,300.00	87.60	88.21	90.49	4,859.54	346.28	1,012.39	880.76	131.63	7.691 \$	SF	



Anticollision Report



Company:Matador ResourcesProject:Eddy County, New Mexico (NAD 27)Reference Site:Charlie Sweeney Federal 31-23S-28ESite Error:0.00 usftReference Well:#204HWell Error:0.00 usftReference WellboreWellbore #1Reference Design:Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

 Reference Depths are relative to WELL @ 3128.50usft (Patterson 297) Coordinates are relative to: #204H

 Offset Depths are relative to Offset Datum
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

 Central Meridian is 104° 20' 0.000 W
 Grid Convergence at Surface is: 0.11°





Anticollision Report



Company:Matador ResourcesProject:Eddy County, New Mexico (NAD 27)Reference Site:Charlie Sweeney Federal 31-23S-28ESite Error:0.00 usftReference Well:#204HWell Error:0.00 usftReference WellboreWellbore #1Reference Design:Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well #204H WELL @ 3128.50usft (Patterson 297) WELL @ 3128.50usft (Patterson 297) Grid Minimum Curvature 2.00 sigma EDM Conroe Offset Datum

Reference Depths are relative to WELL @ 3128.50usft (Patterson 297) Coordinates are relative to: #204HOffset Depths are relative to Offset DatumCoordinate System is US State Plane 1927 (Exact solution), New Mexico East 30Central Meridian is 104° 20' 0.000 WGrid Convergence at Surface is: 0.11°



Exhibit E-1: BOP Sweeney Fed. #204H Matador Resources Company PATTERSON-UTI Well Control	297
Made by Cameron (Shaffer Spherical) Clone Annular	PATTERSON-UTI #PS2-628 STYLE:New Shaffer Spherical BORE13 5/8"PRESSURE5,000 HEIGHT:48 1/2"WEIGHT:13,800 lbs
	PATTERSON-UTI # PC2-128 STYLE: New Cameron Type U BORE 13 5/8" PRESSURE 10,000 RAMS: TOP 5" Pipe BIM Blinds HEIGHT: 66 5/8" WEIGHT: 24,000 lbs
	Length40"Outlets4" 10M DSA4" 10M x 2" 10M DSA4" 10M x 2" 10M PATTERSON-UTI #PC2-228 STYLE:New Cameron Type U BORE13 5/8"PRESSURE10,000 RAMS:5" Pipe
	неіднт: <u>41 5/8" weight: 13,000 lbs</u>







December 31 2015



Connection: TenarisXP® BTC Casing/Tubing: CAS Coupling Option: REGULAR Size: 4.500 in. Wall: 0.290 in. Weight: 13.50 lbs/ft Grade: P110-ICY Min. Wall Thickness: 87.5 %

Nominal OD	4.500 in.	Nominal Weight	13.50 lbs/ft	Standard Drift Diameter	3.795 in.
Nominal ID	3.920 in.	Wall Thickness	0.290 in.	Special Drift Diameter	N/A
Plain End Weight	13.05 lbs/ft				
Body Yield Strength	479 x 1000 lbs	Internal Yield	14100 psi	SMYS	125000 psi
Collapse	11620 psi				
Connection OD	5.000 in.	Coupling Length	9.075 in.	Connection ID	3.908 in.
Critical Section Area	3.836 sq. in.	Threads per in.	5.00	Make-Up Loss	4.016 in.
<u> </u>			۰		
Tension Efficiency	100 %	Joint Yield Strength	479 x 1000 lbs	Internal Pressure Capacity ⁽¹⁾	14100 psi
-		Structural		Structural	
Structural	4 0 0 0		479 x 1000 lbs	n (2)	127 °/100 fr
Structural Compression Efficiency	100 %	Compression Strength		Bending (=)	
Structural Compression Efficiency External Pressure	100 % 11620 psi	Compression Strength		Bending ⁽⁼⁾	
Structural Compression Efficiency External Pressure Capacity	100 % 11620 psi	Compression Strength		Bending'='	
Structural Compression Efficiency External Pressure Capacity Minimum	100 % 11620 psi 6950 ft-lbs	Compression Strength	7720 ft-lbs	Bending'='	8490 ft-lbs

Blanking Dimensions

Exhibit E-2: Co-Flex Certifications Sweeney Fed. #204H Matador Resources Company



Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

Pick Ticket #: 284918

Customer: Patterson

December 8, 2014



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Midw & Spec rnal Hydrostc mation	est Hose cialty, Inc. The state of the state	
copec rnal Hydrostc mation	nany, mc. The set certificate Hose Specific	
rnal Hydrostc mation	ntic Test Certificate	
mation	Hose Specific	
DATTERCONDER		cations
PATTERSON BAE	Hose Assembly Type	Choke & Kill
AMY WHITE	Certification	ΑΡΙ 7Κ
12/8/2014	Hose Grade	MUD
ОКС	Hose Working Pressure	10000
236404	Hose Lot # and Date Code	10490-01/13
260471	Hose I.D. (Inches)	3"
287918-2	Hose O.D. (Inches)	5.30"
10'	Armor (yes/no)	YES
Fit	tings	
	End B	
R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
91996	Stem (Heot #)	91996
DE2 0		1
KF3.U	+errule (Part and Revision #)	RF3.0
37DA5631	Ferrule (Part and Revision #)	RF3.0 37DA5631
37DA5631 4 1/16 10K	Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #)	RF3.0 37DA5631 4 1/16 10K
37DA5631 4 1/16 10K	Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #) Connection (Heat #)	RF3.0 37DA5631 4 1/16 10K
AF3.0 37DA5631 4 1/16 10K 5.3	Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #) Connection (Heat #) 7 Dies Used	RF3.0 37DA5631 4 1/16 10K 5.37
37DA5631 4 1/16 10K 5.3 Hydrostatic Te	Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #) Connection (Heat #) 7 Dies Used St Requirements	RF3.0 37DA5631 4 1/16 10K 5.37
37DA5631 4 1/16 10K 5.3 Hydrostatic Te 15,000	Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #) Connection (Heat #) Dies Used St Requirements Hose assembly was tested	RF3.0 37DA5631 4 1/16 10K 5.37 with ambient water
	12/8/2014 OKC 236404 260471 287918-2 10' Fit R3.0X64WB 91996	12/8/2014Hose GradeOKCHose Working Pressure236404Hose Lot # and Date Code260471Hose I.D. (Inches)287918-2Hose O.D. (Inches)10'Armor (yes/no)FittingsEnd BR3.0X64WBStem (Part and Revision #)91996Stem (Heat #)

N Sz	Aidwest Hose Specialty, Inc.
Certifica	ate of Conformity
Customer: PATTERSON B&E	Customer P.O.# 260471
Sales Order # 236404	Date Assembled: 12/8/2014
Sp	ecifications
Hose Assembly Type: Choke & Kill	
Assembly Serial # 287918-2	Hose Lot # and Date Code 10490-01/13
Hose Working Pressure (psi) 10000	Test Pressure (psi) 15000
We hereby certify that the above material supp to the requirements of the purchase order and Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd	ilied for the referenced purchase order to be true according current industry standards.
Oklahoma City, OK 73129	
Oklahoma City, OK 73129 Comments:	
Oklahoma City, OK 73129 Comments: Approved By	Date



Exhibit E-2: Co-Flex Certifications Sweeney Fed. #204H

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	Micho	est Hoce	
	& Spec	rialty Inc.	
Inte	ernal Hydrosta	atic Test Certificate	
General Info	rmation	Hose Specifi	cations
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K
Date Assembled	12/8/2014	Hose Grade	MUD
Location Assembled	ОКС	Hose Working Pressure	10000
Sales Order #	236404	Hose Lot # and Date Code	10490-01/13
Customer Purchase Order #	260471	Hose I.D. (Inches)	3"
Assembly Serial # (Pick Ticket #)	287918-1	Hose O.D. (Inches)	5.30"
Hose Assembly Length	20'	Armor (yes/no)	YES
	Fit	tings	
End A		End B	
Stem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
Stem (Heat #)	A141420	Stem (Heat #)	A141420
Ferrule (Port and Revision #)	RF3.0	Ferrule (Part and Revision #)	RF3.0
Ferrule (Heat #)	37DA5631	Ferrule (Heat #)	37DA5631
Connection (Part #)	4 1/16 10K	Connection (Part #)	4 1/16 10K
Connection (Heat #)	V3579	Connection (Heat #)	V3579
Dies Used	5.3	7 Dies Used	5.37
	Hydrostatic Te	st Requirements	
Test Pressure (psi)	15,000	Hose assembly was tested u	with ambient water
Test Pressure Hold Time (minutes,	15 1/2	temperatu	re.
	-		
Date Tested	Teste	d By A	pproved By
12/9/2014	14.11		/Ulauna

	Į.,, j	
	Mi & S	dwest Hose pecialty, Inc.
	Certificat	e of Conformity
Customer: PATTER	SON B&E	Customer P.O.# 260471
Sales Order # 236404		Date Assembled: 12/8/2014
	Spe	cifications
Hose Assembly Type	: Choke & Kill	
Assembly Serial #	287918-1	Hose Lot # and Date Code 10490-01/13
Hose Working Pressure	(psi) 10000	Test Pressure (psi) 15000
We hereby certify that the to the requirements of the Supplier: Midwest Hose & Specialty 3312 S I-35 Service Rd Oklahoma City, OK 73129	e above material supplie purchase order and cu y, Inc .	ed for the referenced purchase order to be true accordin rrent industry standards.
Comments:		
	nved By	Date

Exhibit E-2: Co-Flex Certifications Sweeney Fed. #204H Matador Resources Company

Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

Pick Ticket #: 234918

Customer: Patterson



Comments: if ose assembly pressure tested with water at ambient temperature.

December 9, 2014

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Inte General Infor Customer	Midw & Spec ernal Hydrosta mation	est Hose cialty, Inc. atic Test Certificate	
Inte General Infor Customer	ernal Hydrosta mation	cialty, Inc.	
Inte General Infor Customer	ernal Hydrosta mation	atic Test Certificate	
Inte General Infor Customer	rnal Hydrosta mation	atic Test Certificate	
General Infor	rmation	lless Encelfi	
Customer MMUH Sales Poprocentative		888 8000000000000000000000000000000000	cations
MIN/H Sales Ponrocontative	PATTERSON B&E	Hose Assembly Type	Choke & Kill
ivivin Jules Representative	AMY WHITE	Certification	API 7K
Date Assembled	12/8/2014	Hose Grade	MUD
Location Assembled	окс	Hose Working Pressure	10000
Sales Order #	236404	Hose Lot # and Date Code	10490-01/13
Customer Purchase Order #	260471	Hose I.D. (Inches)	3"
Assembly Serial # (Pick Ticket #)	287918-3	Hose O.D. (Inches)	5.23"
Hose Assembly Length	70'	Armor (yes/no)	YES
	Fit	tings	
End A		End B	
Stem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
Stem (Heat #)	A141420	Stem (Heat #)	A141420
Ferrule (Part and Revision #)	RF3.0	Earry (Part and Paulsion #)	
		(renue (Purt unu Revision #)	RF3.0
Ferrule (Heat #)	37DA5631	Ferrule (Heat #)	RF3.0 37DA5631
Ferrule (Heat #) Connection (Port #)	37DA5631 4 1/16 10K	Ferrule (Heat #) Connection (Part #)	RF3.0 37DA5631 4 1/16 10K
Ferrule (Heat #) Connection (Part #) Connection (Heat #)	37DA5631 4 1/16 10К	Ferrule (Heat #) Connection (Part #) Connection (Heat #)	RF3.0 37DA5631 4 1/16 10K
Ferrule (Heat #) Connection (Port #) Connection (Heat #) Dies Used	37DA5631 4 1/16 10К 5.3	Ferrule (Heat #) Connection (Part #) Connection (Heat #) Tolies Used	RF3.0 37DA5631 4 1/16 10K 5.37
Ferrule (Heat #) Connection (Port #) Connection (Heat #) Dies Used	37DA5631 4 1/16 10К 5.3 Hydrostatic Te	Ferrule (Heat #) Connection (Part #) Connection (Part #) Connection (Heat #) T Dies Used Ext Requirements	RF3.0 37DA5631 4 1/16 10K 5.37
Ferrule (Heat #) Connection (Port #) Connection (Heat #) Dies Used Test Pressure (psi)	37DA5631 4 1/16 10К 5.3 Нуdrostatic Te 15,000	Ferrule (Heat #) Ferrule (Heat #) Connection (Part #) Connection (Heat #) Toies Used Est Requirements Hose assembly was tested	RF3.0 37DA5631 4 1/16 10K 5.37 with ambient water

Exhibit E-2: Co-Flex Certifications Sweeney Fed. #204H Matador Resources Company

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# 3 .		
Mi	idwest Hose	
	e of Conformity	
Customer: PATTERSON B&E	Customer P.O.# 2604/1	
	Date Assembled: 12/8/2014	
Spe		
Hose Assembly Type: Choke & Kill	······	
Assembly Serial # 287918-3	Hose Lot # and Date Code	10490-01/13
Hose Working Pressure (psi) 10000	Test Pressure (psi)	15000
We hereby certify that the above material supplie to the requirements of the purchase order and cu Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd	ed for the referenced purchase order prrent industry standards.	to be true according
Oklahoma City, OK 73129	<u>`</u>	
Commonte		
Comments:		
Comments: Approved By	Date	

Closed-Loop System





Operating and Maintenance Plan:

During drilling operations, third party service companies will utilize solids control equipment to remove cuttings from the drilling fluids and collect it in haul-off bins. Equipment will be closely monitored at all times while drilling by the derrick man and the service company employees.

Closure Plan:

During drilling operations, third party service companies will haul off drill solids and fluids to an approved disposal facility. At the end of the well, all closed loop equipment will be removed from the location.



Schematic Closed Loop Drilling Rig*

- 1. Pipe Rack
- 2. Drill Rig
- 3. House Trailers/ Offices
- 4. Generator/Fuel/Storage
- 5. Overflow-Frac Tank
- 6. Skids
- 7. Roll Offs
- 8. Hopper or Centrifuge
- 9. Mud Tanks
- 10. Loop Drive
- 11. Generator (only for use with centrifuge)

*Not drawn to scale: Closed loop system requires at least 30 feet beyond mud tanks. Ideally 60 feet would be available





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Above: Centrifugal Closed Loop System



Closed Loop Drilling System: Mud tanks to right (1) Hopper in air to settle out solids (2) Water return pipe (3) Shaker between hopper and mud tanks (4) Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids



Photos Courtesy of Gandy Corporation Oil Field Service







Hydrogen Sulfide Drilling Operations Plan

Matador Production Company

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects & hazards
- Principal and operation of H2S detectors, warning system, and briefing areas
- Evacuation procedures, routes, and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure / cellar area, and on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary.
- An audio alarm system will be installed on the derrick floor and in the doghouse.

3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area should be high enough to be visible.
- Windsocks on the rig floor and top of doghouse should be high enough to be visible.

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
 - o Green Flag Normal Safe Operation Condition
 - Yellow Flag Potential Pressure and Danger
 - Red Flag Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

See APD

6 Communications:

- While working under masks, chalkboards will be used for communications
- Hand signals will be used where chalk board is inappropriate
- Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at drilling foreman's trailer or living quarters.



7 Drill Stem Testing:

• No DST or cores are planned at this time

8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary

11 Emergency Contacts

• See next page

H2S Contingency Plan Emergency Contacts Matador Production Company Sec. 31, 23S, 28E, Eddy County, NM

Company Office			
Matador Production Company	(972)-371-5200		
Key Personnel			
Name	Title	Office	Mobile
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Aaron Byrd	Drilling Engineer	972-371-5267	214-507-2333
	Construction Superintendent		
· · · · · · · · · · · · · · · · · · ·	Construction Superintendent		
Artesia			
Ambulance		911	
State Police		575-746-2703	
City Police		575-746-2703	
Sheriff's Office		575-746-9888	
Fire Department		575-746-2701	
Local Emergency Planning Committee		575-746-2122	
New Mexico Oil Conservation Division		575-748-1283	
<u>Carlsbad</u>			
Ambulance		911	
State Police		575-885-3137	
City Police		575-885-2111	
Sheriff's Office		575-887-7551	
Fire Department		575-887-3798	
Local Emergency Planning Committee		575-887-6544	
New Mexico Oil Conservation Division		575-887-6544	
<u>Santa Fe</u>			
New Mexico Emergency Response Commission (Santa Fe)		505-476-9600	
New Mexico Emergency Response Commission (Santa Fe) 24 hrs		505-827-9126	
New Mexico State Emergency Operations Center		505-476-9635	
National			
Carlsbad BLM		575-234-5972	
National Emergency Response Center (Washington, D.C.)	800-424-8802	
Medical			
Flight for Life- 4000 24th St.; Lubbock, 1	TX	806-743-9911	
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb- 2301 Yale Blvd S.E., D3; Albuquerque, NM		505-842-4433	
SB Air Med Service- 2505 Clark Carr Loc	p S.E.; Albuquerque, NM	505-842-4949	
<u>Other</u>			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
Halliburton		575-746-2757	
B.J. Services		575-746-3569	



H2S Rig Layout





Matador Production Company Charlie Sweeney Federal 31-23S-28E 204H SHL 188' FSL & 635' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 990' FEL Sec. 31, T. 23 S., R. 28 E. Eddy County, NM

Surface Use Plan

1. <u>ROAD DIRECTIONS & DESCRIPTIONS</u> (See MAPS 1 – 4)

From the gas stations in Loving, NM... Go South 1.0 mile on US 285 to a substation Then turn right onto paved County Road 716 and continue South 0.4 mile Turn right at a transfer station and go West 2.05 mi. on paved County Rd. 763 Then turn left and go South & SE 0.35 mile on a caliche road to a valve station Then turn left at the valve station and go Southeast 1082.28' cross-country Then turn left and go East 0.7 mile on an existing road Then turn right and go South 296.8' cross-country to the proposed pad

Non-county roads will be maintained as needed to Gold Book standards. This includes pulling ditches, preserving the crown, and cleaning culverts. This will be done at least once a year, and more often as needed. Caliche will be hauled from existing caliche pits on private land in NWSE 1-24s-28e and NWSW 6-24s-29e.

2. ROAD TO BE BUILT OR UPGRADED (See MAPS 3 & 4)

Road from County Road 763 to the valve station is 2 lanes, crowned, and surfaced with caliche. No upgrade is needed.

All of the road (0.95 mile) from the valve station to the pad will be crowned, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 20'. Maximum grade = 4%. Maximum cut or fill = 5'. A cattle guard will be installed in an existing fence. A 36" x 50' culvert will be installed in an old irrigation canal. No vehicle turn out is needed.


Matador Production Company Charlie Sweeney Federal 31-23S-28E 204H SHL 188' FSL & 635' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 990' FEL Sec. 31, T. 23 S., R. 28 E. Eddy County, NM

3. EXISTING WELLS (See MAP 2)

Existing oil, gas, water, disposal, and P & A wells are within a mile. There are no injection wells within a mile radius.

4. PROPOSED PRODUCTION FACILITIES (See MAPS 3 & 7-10)

Oil tanks, water tanks, meter runs, separators, and a flare will be installed on the north side of the pad (see preceding diagram). A \approx 6" O. D. steel buried gas line and \approx 6" O. D. HDPE buried saltwater disposal line will be laid 822.41' west and then south in the same trench to Longwood Midstream's Black River Gathering System. \approx 4" O. D. HDPE surface low pressure (<125 psi) flow lines may be laid 1184.68' west to the odd number Charlie Sweeney pad. A 3-phase raptor safe overhead power line will be built 4938.61' north to the gas plant power line that is under construction.

5. <u>WATER SUPPLY</u> (See MAPS 3, 11, & 12)

Water will be piped 5442.29' via a $\approx 10^{\circ}$ O. D. surface "Fast Line" from an existing frac pond on private land in S2NW4 31-23s-28e.

6. <u>CONSTRUCTION MATERIALS & METHODS</u> (see MAPS 5-7)

NM One Call (811) will be notified before construction starts. Top \approx 6" of soil and brush will be stockpiled east of the pad. Pipe racks will be to the north. A closed loop drilling system will be used. Caliche will be hauled from existing caliche pits on private land in NWSE 1-24s-28e and NWSW 6-24s-29e.



Matador Production Company Charlie Sweeney Federal 31-23S-28E 204H SHL 188' FSL & 635' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 990' FEL Sec. 31, T. 23 S., R. 28 E. Eddy County, NM

7. WASTE DISPOSAL

All trash will be placed in a portable trash cage. It will be hauled to the Eddy County landfill. There will be no trash burning. Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to CRI's state approved (NM-01-0006) disposal site. Human waste will be disposed of in chemical toilets and hauled to the Carlsbad wastewater treatment plant.

8. ANCILLARY FACILITIES

There will be no airstrip or camp. Camper trailers will be on location for the company man, tool pusher, or mud logger.

9. WELL SITE LAYOUT

See Rig Layout diagram for depictions of the well pad, trash cage, access onto the location, parking, living facilities, and rig orientation.

10. <u>RECLAMATION</u>

Interim reclamation will be completed within 6 months of completing the last well on the pad. (A variance is requested for the intervening wells.) Interim reclamation will consist of shrinking the pad $\approx 21\%$ by removing caliche and reclaiming the south (30') and east (125') sides. This will leave 2.87 acres for the production equipment, 5 pump jacks, and tractor-trailer turn around. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas. Disturbed areas will be seeded in accordance with the surface owner's requirements. Enough stockpiled topsoil will be retained to cover the remainder of the pad when the wells are plugged. Once the last well is plugged, then the remainder of the pad will be controlled.



Matador Production Company Charlie Sweeney Federal 31-23S-28E 204H SHL 188' FSL & 635' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 990' FEL Sec. 31, T. 23 S., R. 28 E. Eddy County, NM

11. SURFACE OWNER

All construction will be on private surface.

Matador Resources Company has a private surface owner agreement with Vickie Connally (R211 Ash Road, Loving NM 88256) for the well site, pipelines, power line, and road in NWSW, S2S2, NWSE, & SWNE Section 31, T. 23 S., R. 28 E. and pipelines in Lot 2 Section 6, T. 24 S., R. 28 E.; all Eddy County, NM.

Matador Resources Company has a private surface owner agreement with Jacob & Merrellee Moore (1011 Bounds Road, Loving NM 88256) for their portion (NWNE 31-23s-28e) of the power line.

Matador Resources Company has a private surface owner agreement with Longwood Midstream Delaware LLC (5400 LBJ Freeway, Suite 1500, Dallas TX 75240) for their portion (Lot 2 31-23s-28e) of the water (Fast Line) pipeline.

12. OTHER INFORMATION

On site inspection was held with Trish Bad Bear (BLM) on December 10, 2015.

Lone Mountain submitted archaeology report NMCRIS-135215 on February 29, 2016 for the well site and report NMCRIS-136171 on July 8, 2016 for the infrastructure.





SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M. EDDY COUNTY, NEW MEXICO



ORIGINAL DOCUMENT SIZE: 8.5" X 11"

SUSURVEY MATADOR RESOURCESICHARLIE SWEENEY FED COM 31-235-28E 204HIFINAL PRODUCTSILO CHARLIE SWEENEY FED COM 31-235-28E 204H REV3.DWG 4/27/2016 5:32:22 PM istove

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

.

OPERATOR'S NAME:	Matador Operating Company
LEASE NO.:	NMNM121941
WELL NAME & NO.:	204H-Charlie Sweeney Fed Com
SURFACE HOLE FOOTAGE:	188'/S & 635'/E
BOTTOM HOLE FOOTAGE	240'/N & 990'/E
LOCATION:	Section 31, T. 23 S., R. 28 E., NMPM
COUNTY:	Eddy County, New Mexico

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

 General Provisions Permit Expiration Archaeology, Paleontology, and Historical Sites Noxious Weeds 		
Special Requirements		
Cave/Karst		
Construction		
Notification		
Topsoil		
Closed Loop System		
Federal Mineral Material Pits		
Well Pads		
Roads		
Road Section Diagram		
Production (Post Drilling)		
Well Structures & Facilities		
Pipelines		
Electric Lines		
Interim Reclamation		
Final Abandonment & Reclamation		

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery Liners and Berms:

Tank battery locations and all facilities will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain $1\frac{1}{2}$ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch 6" Berm on Down Slope Side

All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: 400' + 100' = 200' lead-off ditch interval 4%

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.





VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq.</u> (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to

the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be $\underline{30}$ feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (Blading is defined as the complete removal of brush and ground vegetation.)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6_{--} inches in depth. The topsoil will be

segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

(X) seed mixture 1	() seed mixture 3
() seed mixture 2	() seed mixture 4
() seed mixture 2/LPC	() Aplomado Falcon Mixture

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. <u>Escape Ramps</u> - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to

review a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (*see* 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.

4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting

(4) Vandalism and sabotage;

c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.

6. All construction and maintenance activity shall be confined to the authorized right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.

8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their

former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

17. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

C. ELECTRIC LINES STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the

above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this rightof-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 1 for Loamy Sites

Holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed shall be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed shall be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed shall be broadcast and the area shall be raked or chained to cover the seed. <u>When broadcasting the seed</u>, the pounds per acre shall be doubled. The seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	<u>lb/acre</u>
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

NMOCD CONDITION OF APPROVAL

The New! Gas Capture Plan (GCP) notice is posted on the NMOCD website under Announcements. The Plan became effective May 1, 2016. A copy of the GCP form is included with the NOTICE and is also in our FORMS section under Unnumbered Forms. Please review filing dates for all applicable activities currently approved or pending and submit accordingly. Failure to file a GCP may jeopardize the operator's ability to obtain C-129 approval to flare gas after the initial 60-day completion period.

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