Form 3160-3 (August 2007)

Carlsbad Field Office OCD Artesia

FORM APPROVED OMB No. 1004-0137 Expires July 31, 2010 5. Lease Serial No. SHL:NMNM-121941 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. N/A 8. Lease Name and Well No. Multiple Zone Charlie Sweeney Fed Com #124H 9. API Well No 30-015-10. Field and Pool, or Exploratory CULBERA BLUFF; BONE SPRING, S 11. Sec., T. R. M. or Blk. and Survey or Area **SWSE 31-23S-28E NMPM** 13. State **EDDY** NM 17. Spacing Unit dedicated to this well E2E2-31-23S-28E 20. BLM/BIA Bond No. on file BLM NMB-001079 23. Estimated duration 3 months (PHONE: 972-371-5241) 09/02/2016

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER **✓** DRILL REENTER la. Type of work: ✓ Oil Well Gas Well Other ✓ Single Zone lb. Type of Well: Name of Operator MATADOR PRODUCTION COMPANY 3b. Phone No. (include area code) 3a. Address 5400 LBJ FREEWAY, SUITE 1500 972-371-5241 **DALLAS, TX 75240** Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 188' FSL & 605' FEL At proposed prod. zone 240' FNL & 660' FEL 14. Distance in miles and direction from nearest town or post office* 2 AIR MILES SW OF LOVING, NM 15 Distance from proposed* 16. No. of acres in lease BLM lease=280 acres SHL:188' location to nearest BHL:240' property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth SHL:30'(Sween. 208H) to nearest well, drilling, completed, applied for, on this lease, ft. BHL:684'(Watts Fed 1) TVD:7902' MD:12663' 22. Approximate date work will start* 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3101' UNGRADED 09/01/2016 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form: Bond to cover the operations unless covered by an existing bond on file (see 1. Well plat certified by a registered surveyor. Item 20 above). 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification SUPO must be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the Name (Printed/Typed) 25. Signature SAM PRYOR Title SENIOR STAFF LANDMAN (FAX: 972-371-5201)

Name (Printed/Typed) Approved by (Signature) Title Office **FCR**

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

(Continued on page 2)

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL

*(Instructions on page 2)

APPROVAL FOR TWO YEARS

10 JON 17

ARTESIA DISTRICT

NM OIL CONSERVATION

Matador Production Company

Charlie Sweeney Fed 31-23S-28E 124H

SHL 188' FSL & 605' FEL Sec. 31, T. 23 S., R. 28 E.

BHL 240' FNL & 660' FEL Sec. 31, T. 23 S., R. 28 E.

Eddy County, NM

<u>CERTIFICATION</u>

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 5th day of July, 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 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Sante Fe, NM 87505

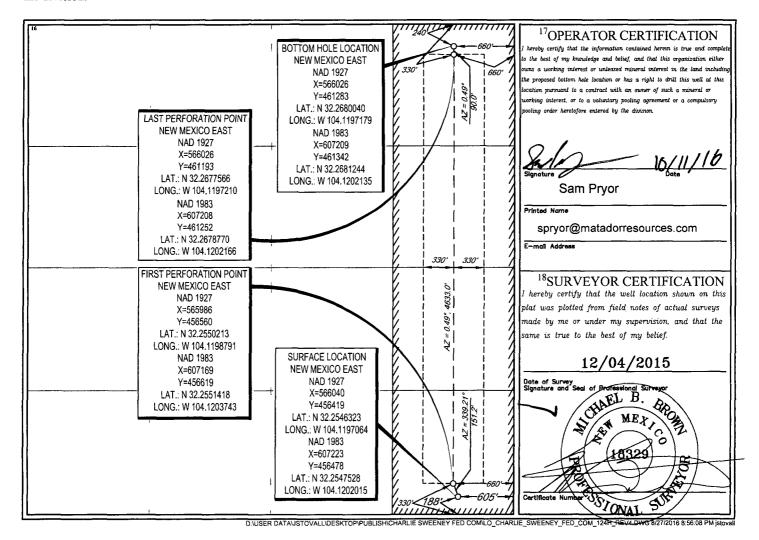
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Sante Fe, NM 87505

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

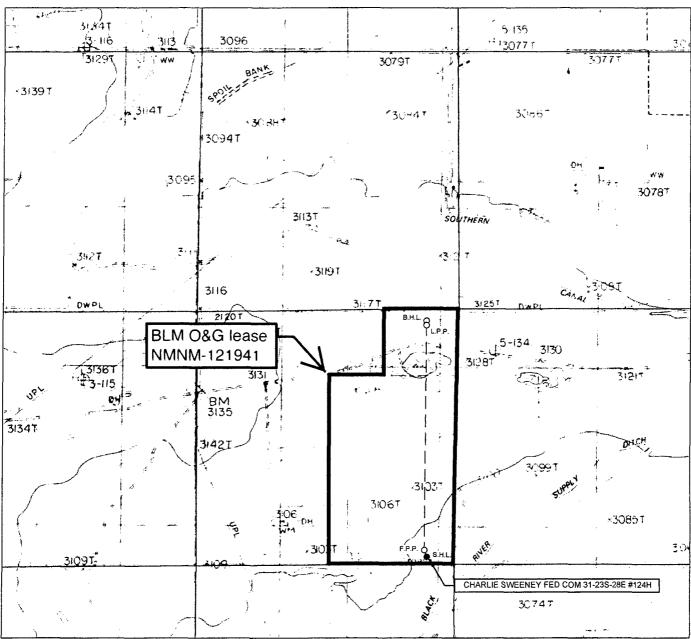
AMENDED REPORT

Thome. (303) 170-340	0 Tux. (303)		ELL LC	OCATIO	N AND ACR	EAGE DEDICA	ATION PLA	г 🗸		
	API Number	r		² Pool Code			³ Pool Nai	me		
30-015-	30-015- 44 02 3 15011					CULEBRA BLUF	F, BONE SPF	RING, SOUTH		
3/66°	Property Code 3/607/ CHARLIE SWEENEY FED COM 31 23 28PB 124H								\	
OGRID 1 228937	1						Practice Name OUCTION COMPANY 3101			
					¹⁰ Surface Lo	cation				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
P	31	23-S	28-E	-	188'	SOUTH	605'	EAST	EDDY	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
A	31	23-S	28-E	-	240'	NORTH	660'	EAST	EDDY	
¹² Dedicated Acres 160	¹³ Joint or 1	Infill 14Co	nsolidation Cod	te ¹⁵ Ord	er No.					

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



LOCATION & ELEVATION VERIFICATION MAP





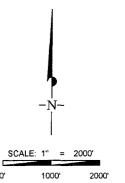
LEASE NAME & WELL NO.: __CHARLIE SWEENEY FED COM 31-23S-28E #124H

 SECTION
 31
 TWP
 23-S
 RGE
 28-E
 SURVEY
 N.M.P.M.

 COUNTY
 EDDY
 STATE
 NM
 ELEVATION
 3101'

 DESCRIPTION
 188' FSL & 605' FEL

LATITUDE N 32.2546323 LONGITUDE W 104.1197064



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.



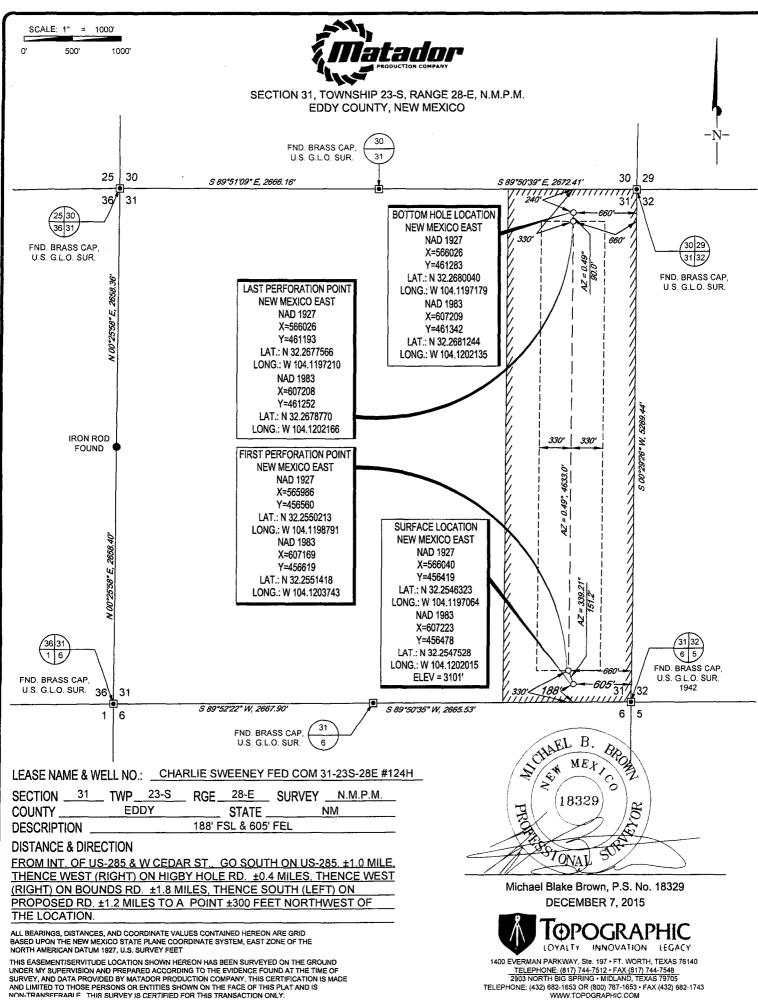
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140

TELEPHONE: (817) 744-7512 • FAX (817) 744-7548

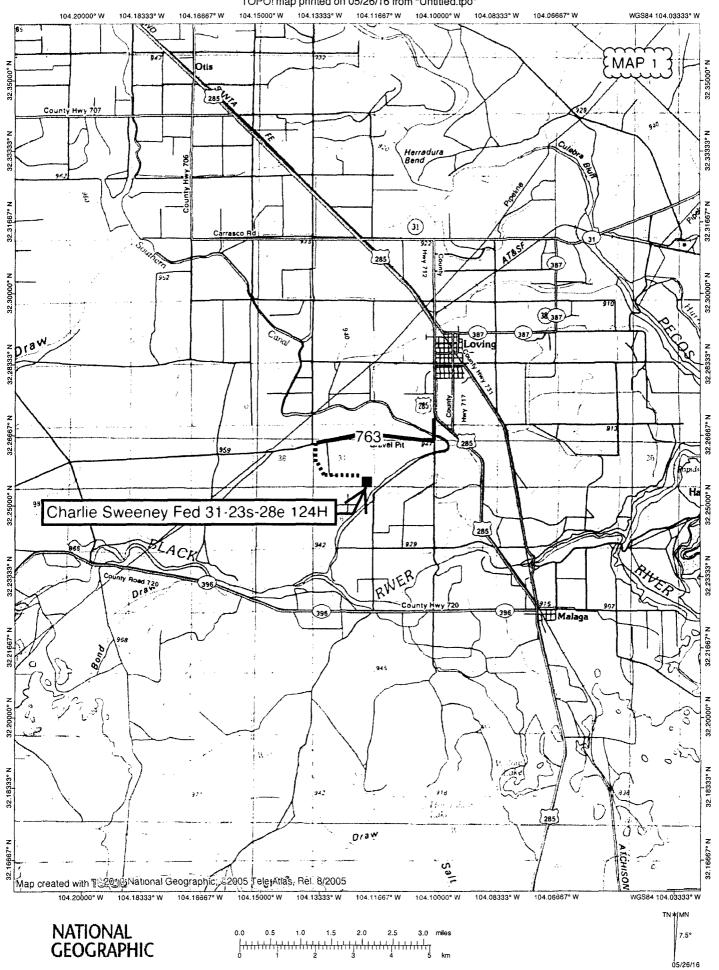
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705

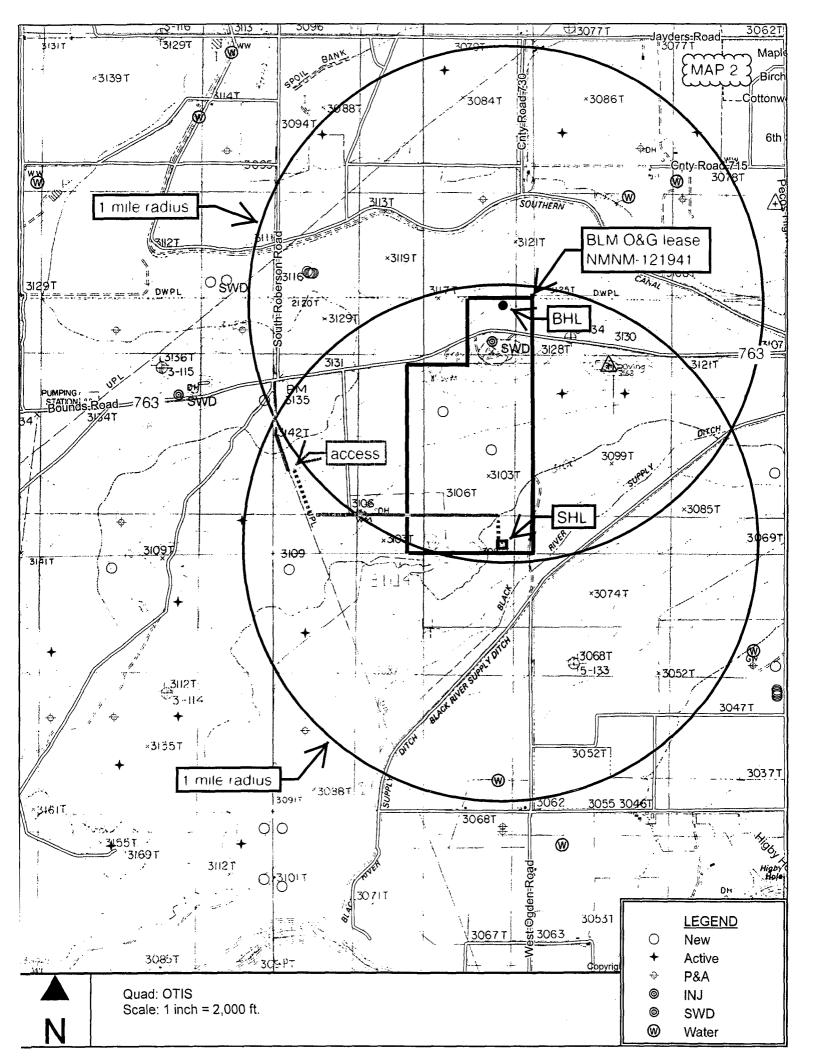
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743

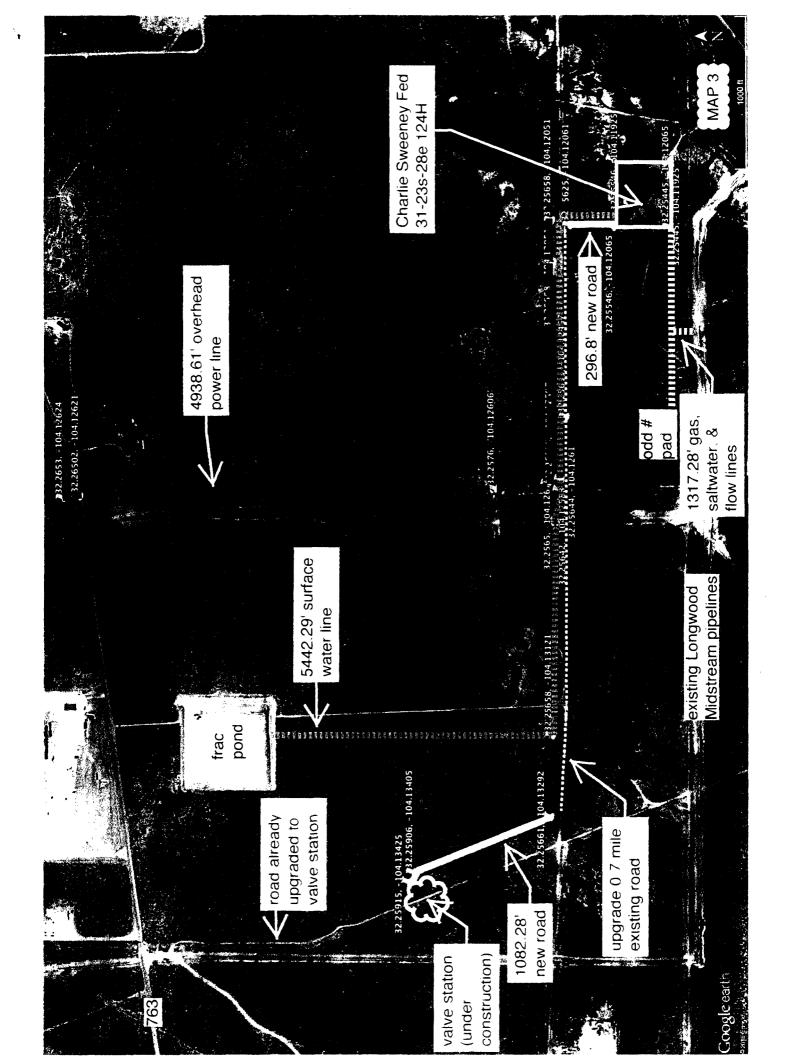
WWW.TOPOGRAPHIC.COM

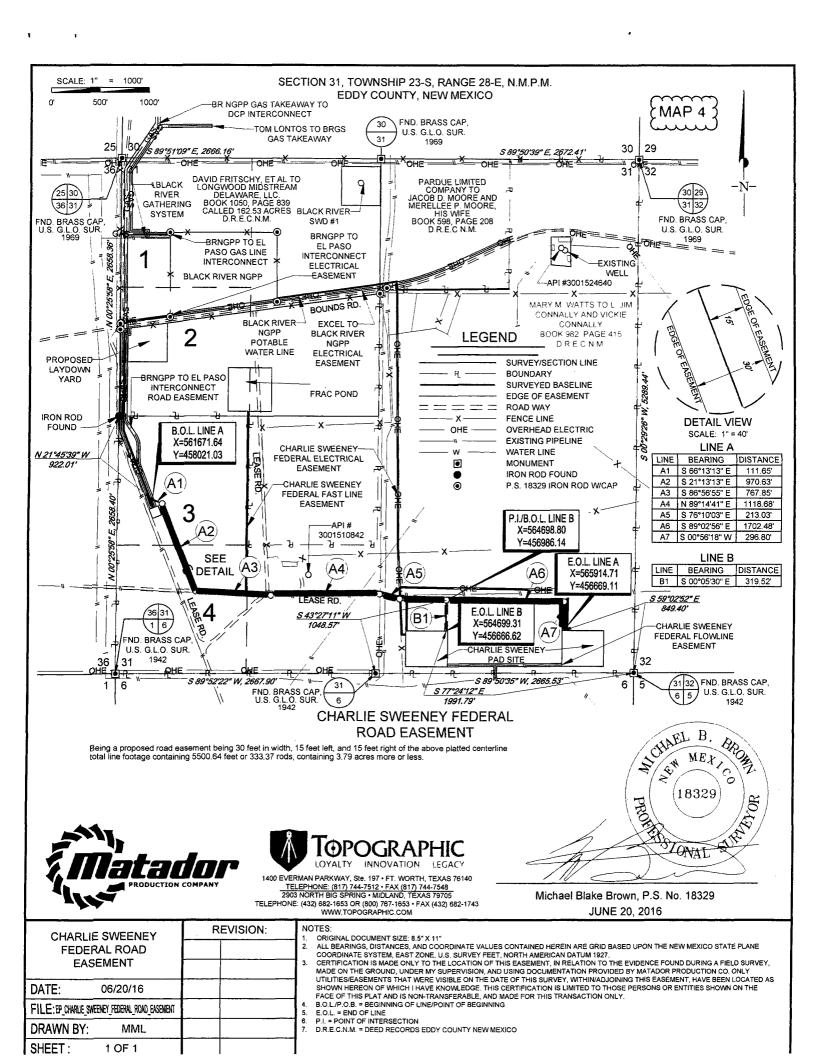


TELEPHONE: (817) 744-7512 • FAX (817) 744-7548 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743 WWW.TOPOGRAPHIC.COM





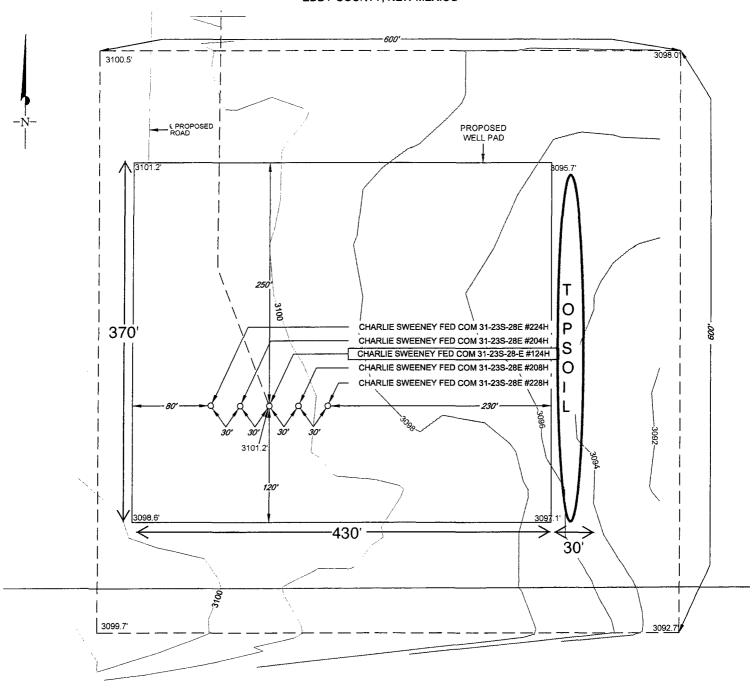








SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M. EDDY COUNTY, NEW MEXICO



 LEGEND
 LEASE NAME & WELL NO.:
 CHARLIE SWEENEY FED
 31-23S-28E #124H

 #124H LATITUDE
 N 32.2546323
 #124H LONGITUDE
 W 104.1197064



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

PROPOSED ROAD

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. 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.

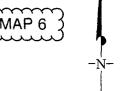


SCALE: 1" = 200 100 200'

EXHIBIT "A"

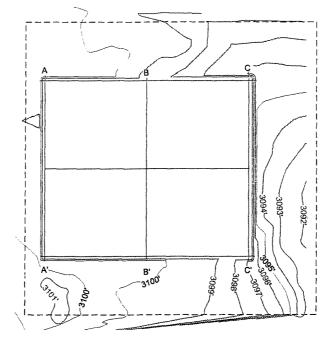
SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M. EDDY COUNTY, NEW MEXICO

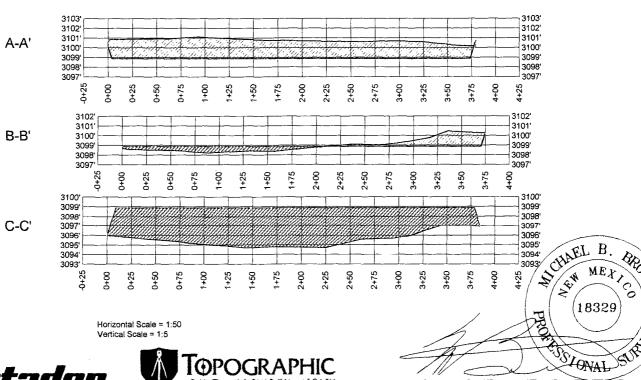




Top of pad elevation: 3098.8544 Cut Slope: 33.33% 3.00:1 18.43° Fill Slope: 33.33% 3.00:1 18.43° Balance Tolerance (C,Y.): 0.00 Cut Swell Factor: 1.00 Fill Shrink Factor: 1.00

Pad Earthwork Volumes Cut: 139,546.2 C.F., 5,168.38 C.Y. Fill: 139,546.2 C.F., 5,168.38 C.Y. Balance Export: 0.0 C.F., 0.00 C.Y. Area: 169247.4 Sq.Ft., 3.885 Acres









1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140 TELEPHONE: (817) 744-7512 • FAX (817) 744-7548 TEXAS FIRM REGISTRATION NO. 10042504 WWW.TOPOGRAPHIC.COM

Michael Blake Brown, P.S. No. 18329 JANUARY 27, 2016

BROWN

Field note description of even date accompanies this plat.

CHARLIE SWEENEY FED	R	REVISION:				
COM 31-23S-28E #224H	INT	DATE	1			
SURFACE PAD SITE PRO			1			
DATE: 01/27/16			l			
FILE: 3 CHE MEN PECH MAR 2019 SHALL WAS PORTED						
DRAWN BY: GLH						
SHEET: 1 OF 1			l			

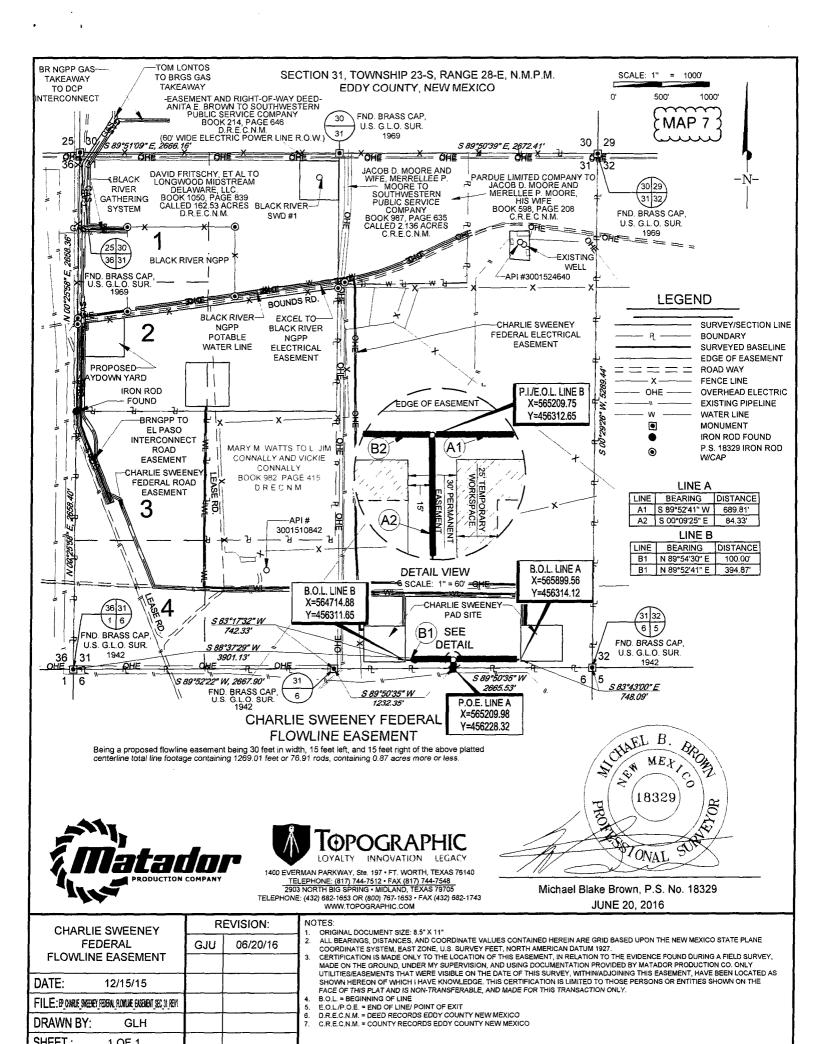
NOTES

1. 2.

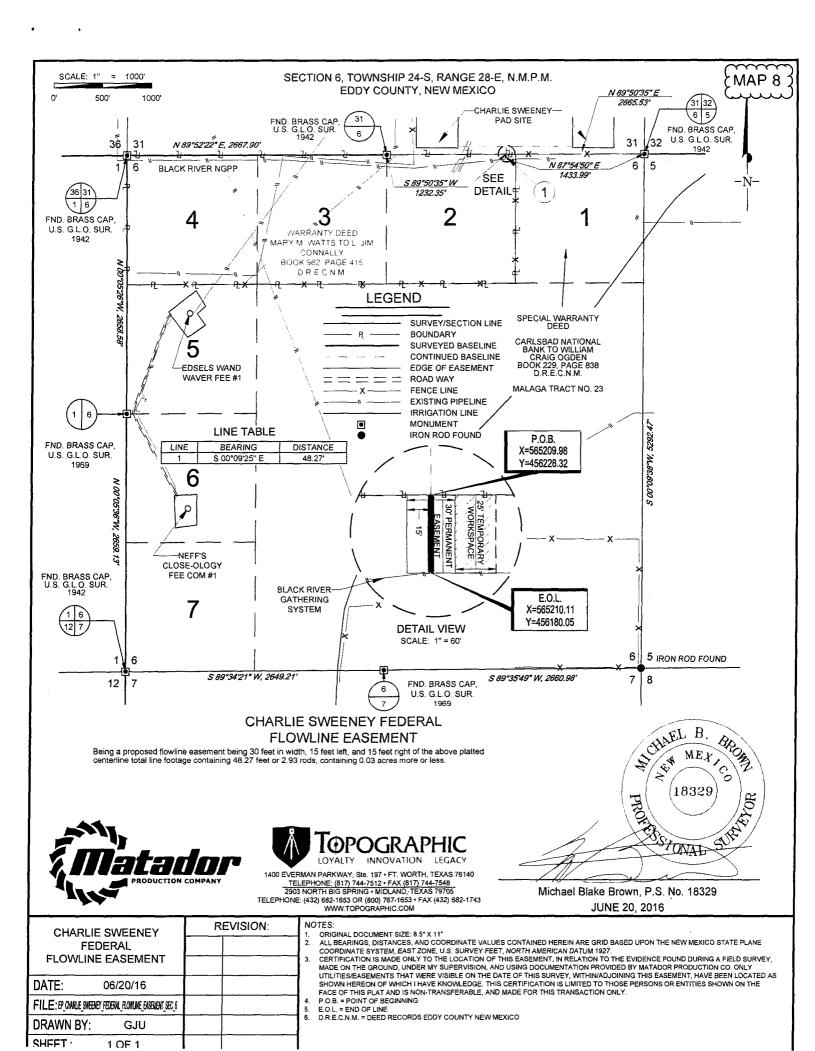
ORIGINAL DOCUMENT SIZE: 8.5" X 11"

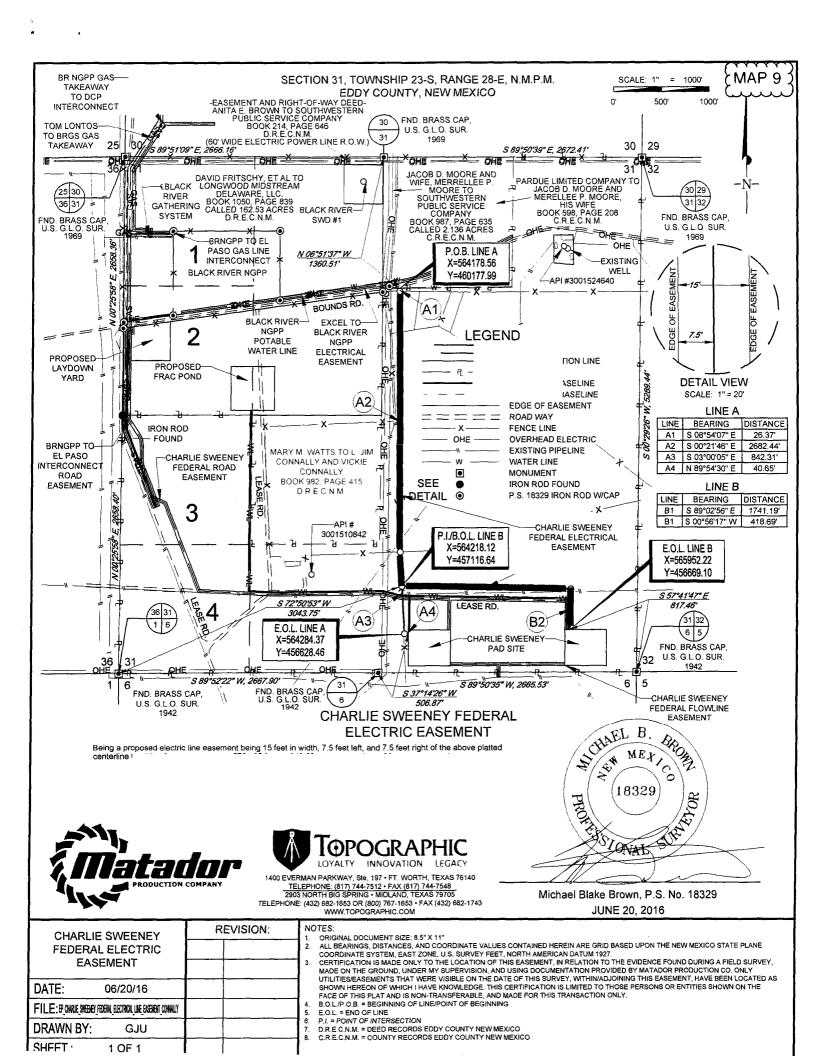
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.

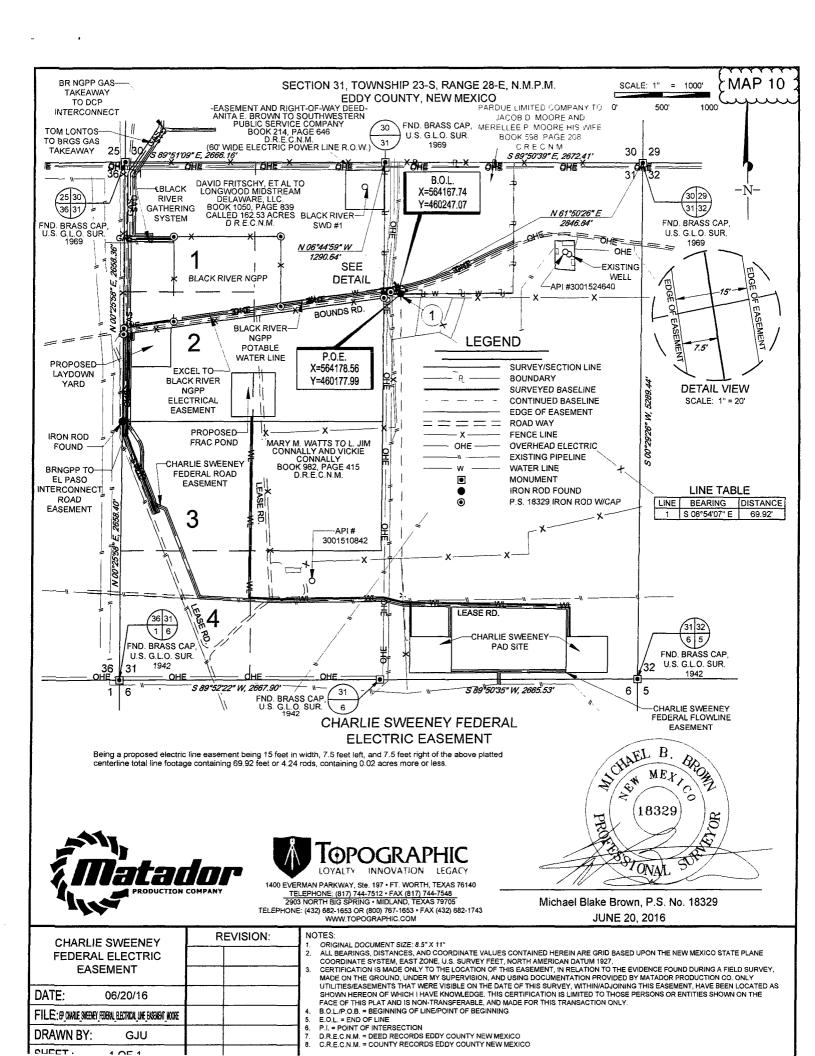
CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR RESOURCE COMPANY. ONLY UTILITIES/FASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHINADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

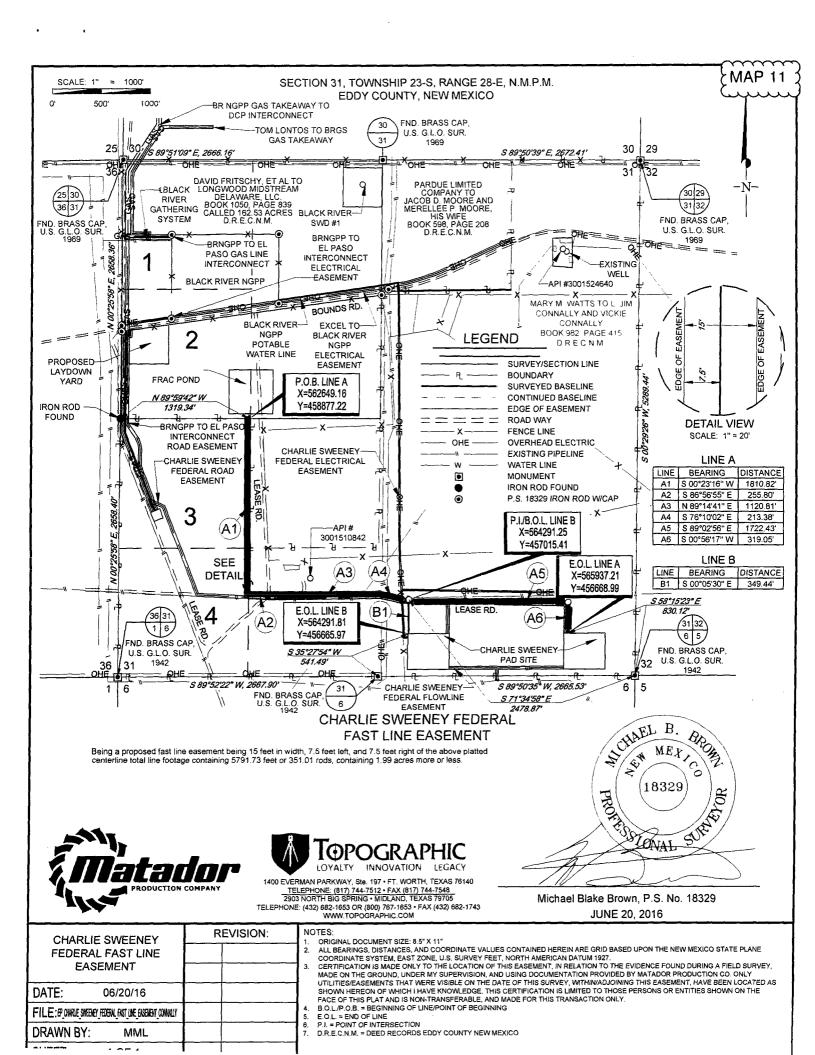


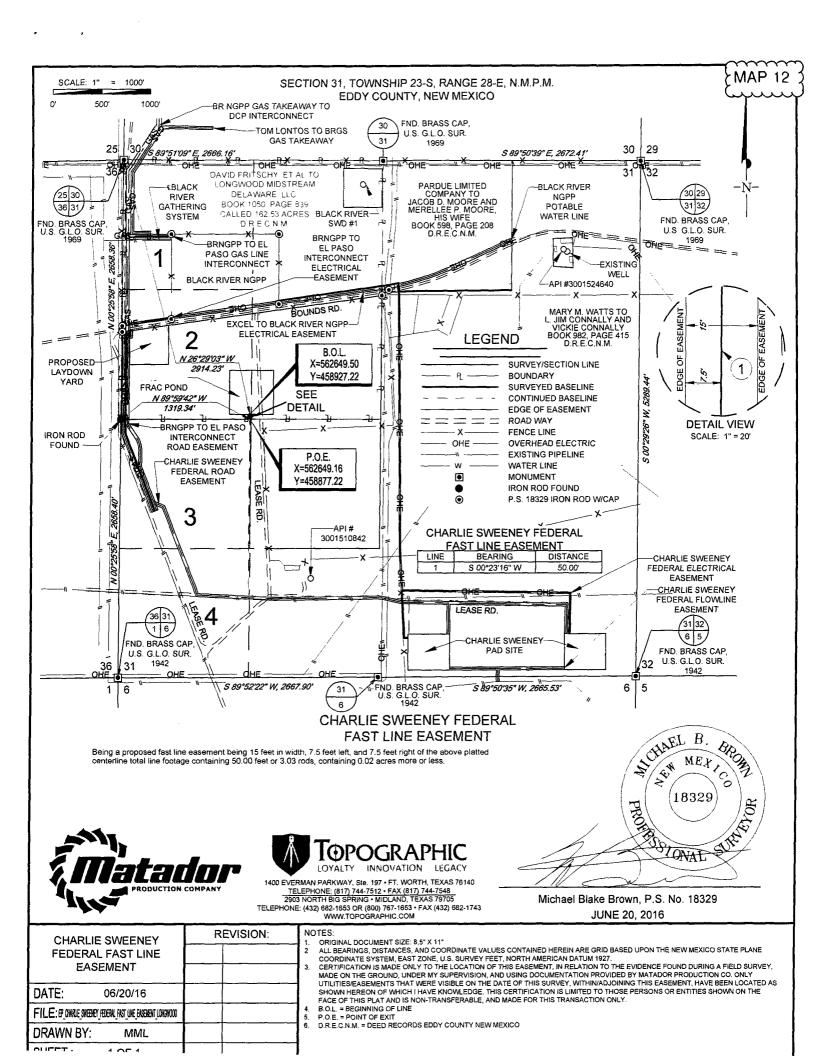
1 OF 1











Matador Production Company Charlie Sweeney Fed Com 124H SHL 188' FSL & 605' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 660' FEL Sec. 31, T. 23 S., R. 28 E. Eddy County, NM

Drilling Program

1. ESTIMATED TOPS

Formation	TVD	Bearing
Quaternary	GL	Water
Eroded Salado/Rustler	480	Water/Salt
Castille	800	Salt
Base of Salt/Top of Anhydrite	2367	Barren
Lamar	2520	Barren
Bell Canyon	2553	Hydrocarbon
Cherry Canyon	3350	Hydrocarbon
Brushy Canyon	4544	Hydrocarbon
Bone Spring Lime	6087	Hydrocarbon
1st Bone Spring Sand	7032	Hydrocarbon
2nd Bone Spring Carbonate	7297	Hydrocarbon
2nd Bono Spring Cand	7677	Hydrocarbon
2nd Bone Spring Sand	7077	(& Target Formation)
TVD (2nd Bone Spring Sand)	7902	Hydrocarbon
MD (2nd Bone Spring Sand)	12663	Hydrocarbon

2. NOTABLE ZONES

Closest water well (C 02022/02955/03218) is 3152' northwest. Depth of well and depth to water have not been reported to the State. Proposed depth was 190'. Closest (≈5,000' 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.

An accumulator that meets the requirements of Onshore Order 2 for the pressure rating of the BOP stack will be present. A 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. A Kelly cock and

Matador Production Company Charlie Sweeney Fed Com 124H SHL 188' FSL & 605' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 660' FEL Sec. 31, T. 23 S., R. 28 E. Eddy County, NM

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, BOP pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate, pressure tests will be made to 250 psi low and 3000 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 casing. In the case of running a speed head with landing mandrel for 9-5/8" 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 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. In the event the specific hose is not available, 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 ≥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	втс	1.125	1.125	1.8
8.75"	12663'	5.5"	New	20	P-110	BTC/TXP	1.125	1.125	1.8

Name	Туре	Sacks	Yield	Cubic Feet	Weight	Blend & Centralizers
Surface	Lead	240	1.82	436.8	12.8	Class C + bentonite + 2% CaCl ₂ + 3% NaCl + LCM
	Tail	350	1.38	483	14.8	Class C + 5% NaCl + LCM

Matador Production Company Charlie Sweeney Fed Com 124H SHL 188' FSL & 605' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 660' FEL Sec. 31, T. 23 S., R. 28 E. Eddy County, NM

TOC = 0			100%	Excess	Centralizers per Onshore Order 2.III.B.1f		
Intermediate	Lead	550	2.13	1171.5	12.6	Class C + bentonite + 1% CaCl ₂ + 8% NaCl + LCM	
	Tail	270	1.38	372.6	14.8	Class C + 5% NaCl + LCM	
TOC = 0	1		100%	Excess	2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface		
Production	Lead	830	2.35	1950.5	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM	
	Tail	1450	1.39	2015.5 13.2		TXI + Fluid Loss + Dispersant + Retarder + LCM	
TOC = 150	00'		35%	Excess	2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (500' above TOC)		

5. MUD PROGRAM

Mud monitoring system will be an electronic Pason system satisfying the requirements of Onshore Order 1. 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
Production	8-3/4"	9.00	30-32	NC	FW/Cut Brine

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud-logging program will be used from 7000' to TD.

DRILL PLAN PAGE 4

Matador Production Company Charlie Sweeney Fed Com 124H SHL 188' FSL & 605' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 660' FEL Sec. 31, T. 23 S., R. 28 E. Eddy County, NM

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 ≈3500 psi. Expected bottom hole temperature is ≈140° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H₂S from the surface to the Bone Spring to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since Matador has an H₂S safety package on all wells, attached is an "H₂S Drilling Operations Plan". Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. OTHER INFORMATION

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



Matador Resources

Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E 124H

OH

Plan: Preliminary Plan 1

Standard Planning Report

05 January, 2016





Planning Report



Database:

Compass 5000 GCR

Company:

Matador Resources

Project:

Eddy County, NM (NAD27 NME)

Site:

Charlie Sweeney Federal 31-23S-28E

Well: Wellbore: 124H

Design:

OH Preliminary Plan 1

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Local Co-ordinate Reference:

Well 124H

RKB @ 3128.50usft (Patterson 297)

RKB @ 3128.50usft (Patterson 297)

Minimum Curvature

Project

Eddy County, NM (NAD27 NME)

Map System:

US State Plane 1927 (Exact solution)

Geo Datum: Map Zone:

NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum:

Mean Sea Level

Site

Charlie Sweeney Federal 31-23S-28E

Site Position:

Мар

Northing: Easting:

456,416.00 usft 564,425.00 usft

Latitude: Longitude:

32° 15' 16.67754 N

104° 7' 29.74586 W

Position Uncertainty:

0.00 usft

Slot Radius:

13-3/16 "

Grid Convergence:

0.11°

Well

From:

Well Position

+N/-S +E/-W

124H

3.00 usft 1,615.00 usft

Easting:

Northing:

1/20/2016

456,419.00 usft

Latitude:

32° 15' 16.67581 N

48,252

Position Uncertainty

0.00 usft

Wellhead Elevation:

566,040.00 usft 0.00 usft Longitude: Ground Level: 104° 7' 10.93860 W

3,101.00 usft

Wellbore

ОН

Magnetics

Model Name

Sample Date

Declination

(°)

7.48

Dip Angle (°)

Field Strength

HDGM

Preliminary Plan 1

Audit Notes:

Version:

Design

Phase:

PROTOTYPE

Tie On Depth:

0.00

60.10

Vertical Section:

Depth From (TVD) (usft)

+N/-S (usft) +E/-W

Direction

0.00

0.00

(usft) 0.00

(°) 0.49

Plan Sections

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	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		:
1,266.37	4.00	202.44	1,266.16	-8.58	-3.54	1.50	1.50	0.00	202.44		
3,142.66	4.00	202.44	3,137.88	-129.42	-53.46	0.00	0.00	0.00	0.00		i
3,409.03	0.00	0.00	3,404.04	-138.00	-57.00	1.50	-1.50	0.00	180.00		į
7,334.03	0.00	0.00	7,329.04	-138.00	-57.00	0.00	0.00	0.00	0.00		i
8,234.03	90.00	0.49	7,902.00	434.94	-52.07	10.00	10.00	0.05	0.49		
12,663.26	90.00	0.49	7,902.00	4,864.00	-14.00	0.00	0.00	0.00	,0.00	BHL Sweeney 124H	



Planning Report



Database: Company: Compass 5000 GCR

Matador Resources

Project:

Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E

Site:

124H

Well: Wellbore:

ОН

Design:

Preliminary Plan 1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well 124H

RKB @ 3128.50usft (Patterson 297)

RKB @ 3128.50usft (Patterson 297)

Grid

Minimum Curvature

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)
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
							2.00	2.22	^ ^
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
13 3/8"									
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
Start Build 1	.5°/100'								
1,100.00	1.50	202.44	1,099.99	-1.21	-0.50	-1.21	1.50	1.50	0.00
1,200.00	3.00	202.44	1,199.91	-4.84	-2.00	-4.86	1.50	1.50	0.00
1,266,37	4.00	202.44	1,266.16	-8.58	-3.54	-8.61	1.50	1.50	0.00
Hold 4° Inc a	t 202.44° Azm								
1,300.00	4.00	202.44	1,299.70	-10.75	-4.44	-10.78	0.00	0.00	0.00
1,400.00	4.00	202.44	1,399.46	-17.19	-7.10	-17.25	0.00	0.00	0.00
1,500.00	4.00	202.44	1,499.22	-23.63	-9.76	-23.71	0.00	0.00	0.00
1,600.00	4.00	202.44	1,598.97	-30.07	-12.42	-30.17	0.00	0.00	0.00
1,700.00	4.00	202.44	1,698.73	-36.51	-15.08	-36.64	0.00	0.00	0.00
1,800.00	4.00	202.44	1,798.49	-42.95	-17.74	-43.10	0.00	0.00	0.00
1,900.00	4.00	202.44	1,898.24	-49.39	-20.40	-49.56	0.00	0.00	0.00
2,000,00	4.00	202.44	1,998.00	-55.83	-23.06	-56.02	0.00	0.00	0.00
2,100.00	4.00	202.44	2,097 76	-62.27	-25.72	-62.49	0.00	0.00	0.00
2,200.00	4.00	202,44	2,197.51	-68.71	-28.38	-68.95	0.00	0.00	0.00
2,300.00	4.00	202.44	2,297.27	-75.15	-31.04	-75.41	0.00	0.00	0.00
2,400,00	4,00	202.44	2,397.03	-81.59	-33.70	-81.87	0.00	0.00	0.00
2,500.00	4.00	202.44	2,496.79	-88.03	-36.36	-88.34	0.00	0.00	0.00
2,600.00	4.00	202.44	2,596.54	-94.47	-39.02	-94.80	0.00	0.00	0.00
9 5/8"									
2,700.00	4.00	202.44	2,696.30	-100.91	-41.68	-101.26	0.00	0.00	0.00
2,800.00	4.00	202.44	2,796.06	-107.35	-44.34	-107 73	0.00	0.00	0.00
2,900.00	4.00	202.44	2,895.81	-113.79	-47.00	-114,19	0.00	0.00	0.00
3,000.00	4.00	202.44	2,995.57	-120.23	-47.00 -49.66	-114.15	0.00	0.00	0.00
3,100.00	4.00	202.44	3,095.33	-126.67	-52.32	-127.11	0.00	0.00	0.00
3,142.66	4.00	202.44	3,137.88	-129.42	-53.46	-129.87	0.00	0.00	0.00
Start Drop 1.		202.74	0,107.00	120. 12	33.70	125.57	0.00	0.00	0.00
3,200.00	3.14	202.44	3,195.11	-132.71	-54.82	-133.18	1.50	-1.50	0.00
3,300.00	1,64	202.44	3,295.02	-136.56	-56.41	-137.04	1.50	-1.50	0.00
3,409.03	0.00	0.00	3,404.04	-138.00	-57.00	-138.48	1.50	-1.50	0.00
Hold Vertical									
3,500.00	0.00	0.00	3,495.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
3,600.00	0.00	0.00	3,595.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
3,700.00	0.00	0.00	3,695.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
3,800.00	0.00	0.00	3,795.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
3,900.00	0.00	0.00	3,895.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
4,000.00	0.00	0.00	3,995.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
4,100.00	0.00	0.00	4,095.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
4,200.00	0.00	0.00	4,195.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
4,300.00	0.00	0.00	4,295.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
4,400.00	0.00	0.00	4,395.01	-138.00	-57.00	-138.48	0.00	0.00	0.00



Planning Report



Database:

Compass 5000 GCR

Company:

Matador Resources

Project:

Eddy County, NM (NAD27 NME)

Site:

Charlie Sweeney Federal 31-23S-28E

Well: Wellbore:

124H OH

Design:

Preliminary Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well 124H

RKB @ 3128.50usft (Patterson 297)

RKB @ 3128.50usft (Patterson 297)

Grid

Minimum Curvature

Planned Survey

4,900.00 0.00 0.00 4,950.01 -138.00 -570.0 -138.48 0.00 0.00 0.00 0.00 4,700.00 0.00 0.00 4,800.00 0.00 0.00 4,800.00 0.00 0.00 4,800.00 0.00 0.00 4,800.00 0.00 0.00 4,800.00 0.00 0.00 4,800.00 0.00 0.00 4,800.00 0.00 0.00 4,700.01 138.48 0.00 0.00 0.00 0.00 4,800.00 0.00 0.00 4,700.01 138.48 0.00 0.00 0.00 0.00 4,800.00 0.00 0.00 4,800.00 0.00 0.00 4,700.01 138.48 0.00 0.00 0.00 0.00 4,800.00 0.00 0.00 4,800.00 0.00 0.00 4,800.00 0.00 0.00 1,800.00 0.00 0.00 4,800.00 0.00 0.00 4,800.00 0.00 0.00 4,800.00 0.00 0.00 4,800.00 0.00 0.00 0.00 4,800.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	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)
4 950.00 0 0.00 0.00 4,859.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 4,850.00 0.00 0.00 4,750.00 -138.48 0.00 0.00 0.00 0.00 4,850.00 0.00 0.00 1.00 4,850.00 0.00 0.00 0.00 1.00 4,850.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	4 500 00	0.00	0.00	4 495 01	-138.00	-57 00	-138 48	0.00	0.00	0.00
4 \$000 0 0.00 0.00 4,695.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 4,690.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0										
4,800,00 0,00 0,00 4,785,01 -138,00 -57,00 -138,48 0,00 0,00 0,00 0,00 0,00 0,00 0,00				•						
\$ 900.00 0 0.0 0 0.0 4,895.01 138.00 57.00 138.48 0 0.00 0.00 0.00 5.00 0.00 5.00 0.00 0	,			,						
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\$300.00 0.00 0.00 5.295.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 5.500.00 0.00 0.00	,		and the second s							
5,400.00 0.00 0.00 5,395.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 5,990.00 0		0.00	, 0.00	5,195.01	-138.00					
\$500.00 0.00 0.00 5.495.01 -138.00 5.700 -138.48 0.00 0.00 0.00 5.696.01 -138.00 5.700 -138.48 0.00 0.00 0.00 5.696.01 -138.00 5.700 -138.48 0.00 0.00 0.00 5.800.00 0.00 5.696.01 -138.00 5.700 -138.48 0.00 0.00 0.00 0.00 5.800.00 0.00 0.00	·			,						
\$5,000.00 0.00 0.00 \$5,995.01 -138.00 \$-57.00 -138.48 0.00 0.00 0.00 0.00 \$5,000.00 0.00 0.00 \$5,000.00 0.00 0.00 \$5,000.00 0.00 0.00 \$5,000.00 0.00 0.00 \$5,000.00 0.00 0.00 \$5,000.00 0.00 0.00 0.00 0.00 0.00 0.00 0	•									
\$\frac{5}{1,000} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 5,895.01 \ -138.00 \ -57.00 \ -138.48 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \										
\$,800.00										
\$300.00 0.00 0.00 5.895.01 -138.00 5.70 0.138.48 0.00 0.00 0.00 6.00 0.00 6.00 0.00 0.0	5,700.00	0.00	0.00	5,695.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
6,000,00 0,00 0,00 0,00 6,955.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 6,200.00 0.00 0.00 6,950.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 6,200.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	5,800.00	0.00	0.00	5,795.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
6,100.00	5,900.00		0.00	5,895.01		-57.00	-138.48	0.00	0.00	
6,200 00 0,00 0,00 0,00 6,195.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 6,400 00 0.00 0.00 0.00 6,400 00 0.00 0.00 0.00 6,395.01 -138.00 57.00 -138.48 0.00 0.00 0.00 0.00 6,500 0.00 0.00 6,395.01 -138.00 57.00 -138.48 0.00 0.00 0.00 0.00 6,500 0.00 0.00 0.00 6,500 0.00 0.00 0.00 6,500 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6,000.00	0.00	0.00	5,995.01	-138.00					
6,300.00 0,00 0,00 0,00 6,295.01 -138.00 -57.00 -138.48 0,00 0,00 0,00 6,400.00 0,00 0,00 6,495.01 -138.00 -57.00 -138.48 0,00 0,00 0,00 0,00 6,500.00 0,00 0,00 6,500.00 0,00 0,00 6,500.00 0,00 0,00 6,500.00 0,00 0,00 0,500.00 0,00 0,00 0,0										
6.400.00 0.00 0.00 0.00 6.395.01 -138.00 5-7.00 -138.48 0.00 0.00 0.00 6.500.00 0.00 0.00 6.500.00 0.00	6,200.00	0.00	0.00	6,195.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
6,500,00 0,00 0,00 6,495,01 -138,00 -57,00 -138,48 0,00 0,00 0,00 0,00 6,700,00 0,00 0,00	6,300.00	0.00	0.00	6,295.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
6,600,00 0,00 6,595,01 -138,00 -57,00 -138,48 0,00 0,00 0,00 6,700,00 0,00 0,00 6,695,01 -138,00 -57,00 -138,48 0,00 0,00 0,00 6,800,00 0,00 0,00 6,750,01 -138,00 -57,00 -138,48 0,00 0,00 0,00 7,000,00 0,00 0,00 6,895,01 -138,00 -57,00 -138,48 0,00 0,00 0,00 7,000,00 0,00 0,00 0,00 7,995,01 -138,00 -57,00 -138,48 0,00 0,00 0,00 7,200,00 0,00 0,00 7,995,01 -138,00 -57,00 -138,48 0,00 0,00 0,00 7,300,00 0,00 0,00 7,295,01 -138,00 -57,00 -138,48 0,00 0,00 0,00 7,334,03 0,00 0,00 7,295,01 -138,00 -57,00 -138,48 0,00 0,00 0,00	6,400.00	0.00	0.00	6,395.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
6,700.00 0.00 0.00 6,695.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 6,800.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	6,500.00	0.00	0.00	6,495.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
6,800.00 0.00 0.00 6,795.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 6,900.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	6,600.00	0.00	0.00	6,595.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
6,900.00 0.00 0.00 0.00 6,895.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 7,000.00 0.00 0.00 0.00	6,700.00	0.00	0.00	6,695.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
7,000.00 0.00 0.00 0.00 6,995.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 7,100.00 0.00 0.00 7,100.00 0.00 0.00 7,100.00 0.00 0.00 7,100.00 0.00 0.00 7,100.00 0.00 0.00 7,100.00 0.00 0.00 7,100.00 0.00 0.00 7,100.00 0.00 0.00 7,100.00 0.00 0.00 0.00 7,300.00 0.00 0.00 7,300.00 0.00 0.00 7,329.04 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 7,334.03 0.00 0.00 7,329.04 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6,800.00	0.00	0.00	6,795.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
7,100.00 0.00 0.00 7,95.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 7,95.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 7,395.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 7,300.00 0.00 7,295.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 7,334.03 0.00 0.00 7,329.04 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6,900.00	0.00	0.00	6,895.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
7,200.00 0.00 0.00 7,195.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 7,330.00 0.00 0.00 7,329.04 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 7,334.03 0.00 0.00 7,329.04 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 0.00 KOP: Start Build 10*/10*/ 7,350.00 1.60 0.49 7,345.01 -137.78 -57.00 -138.26 10.00 10.00 0.00 7,450.00 11.60 0.49 7,344.22 -126.30 -56.97 -134.69 10.00 10.00 0.00 7,450.00 11.60 0.49 7,444.22 -126.30 -56.97 -134.69 10.00 10.00 0.00 7,550.00 16.60 0.49 7,539.93 -97.78 -56.65 -98.26 10.00 10.00 0.00 7,550.00 21.60 0.49 7,539.93 -97.78 -56.65 -98.26 10.00 10.00 0.00 7,650.00 21.60 0.49 7,539.93 -97.78 -56.65 -98.26 10.00 10.00 0.00 7,650.00 31.60 0.49 7,539.93 -97.78 -56.65 -98.26 10.00 10.00 0.00 7,650.00 31.60 0.49 7,539.60 -77.37 -58.48 -77.85 10.00 10.00 0.00 7,650.00 31.60 0.49 7,670.63 -25.05 -56.03 -25.55 10.00 10.00 0.00 7,700.00 36.60 0.49 7,670.63 -25.05 -56.03 -25.55 10.00 10.00 0.00 7,700.00 36.60 0.49 7,709.42 6.47 -55.66 7 -53.55 10.00 10.00 0.00 7,850.00 51.60 0.49 7,745.31 41.26 -55.46 40.78 10.00 10.00 0.00 7,850.00 51.60 0.49 7,745.31 41.26 -55.46 40.78 10.00 10.00 0.00 7,850.00 51.60 0.49 7,745.31 41.26 -55.46 40.78 10.00 10.00 0.00 7,950.00 61.60 0.49 7,745.31 41.26 -55.46 40.78 10.00 10.00 10.00 0.00 7,950.00 61.60 0.49 7,807.35 119.52 -54.79 119.05 10.00 10.00 0.00 7,950.00 61.60 0.49 7,807.35 119.52 -54.79 119.05 10.00 10.00 0.00 7,950.00 61.60 0.49 7,807.35 119.52 -54.79 119.05 10.00 10.00 0.00 7,950.00 61.60 0.49 7,807.35 119.52 -54.79 119.05 10.00 10.00 0.00 8,050.00 71.60 0.49 7,854.86 207.37 -54.42 161.93 10.00 10.00 10.00 0.00 8,050.00 71.60 0.49 7,854.86 207.37 -54.42 161.93 10.00 10.00 10.00 0.00 8,050.00 71.60 0.49 7,854.86 207.37 -54.42 161.93 10.00 10.00 10.00 0.00 8,050.00 71.60 0.49 7,854.86 207.37 -54.60 -53.63 253.59 10.00 10.00 10.00 0.00 8,200.00 86.60 0.49 7,803.80 30.21 5.53.22 301.66 10.00 10.00 0.00 8,200.00 86.60 0.49 7,900.09 40.93 -52.37 400.46 10.00 10.00 10.00 0.00 8,200.00 86.60 0.49 7,902.00 500.90 500.90 500.90 50.50 50.00 0.00	7,000.00	0.00	0.00	6,995.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
7,300.00 0.00 0.00 7,295.01 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 7,334.03 0.00 0.00 7,329.04 -138.00 -57.00 -138.48 0.00 0.00 0.00 0.00 0.00 0.00 0.00	7,100.00	0.00	0.00	7,095.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
7,334.03 0.00 7,329.04 -138.00 -57.00 -138.48 0.00 0.00 0.00 KOP: Start Build 10°/100° V <th< td=""><td>7,200.00</td><td>0.00</td><td>0.00</td><td>7,195.01</td><td>-138.00</td><td>-57.00</td><td>-138.48</td><td>0.00</td><td>0.00</td><td>0.00</td></th<>	7,200.00	0.00	0.00	7,195.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
KOP: Start Build 10°/100' 7,350.00 1.60 0.49 7,345.01 -137.78 -57.00 -138.26 10.00 10.00 0.00 7,400.00 6.60 0.49 7,345.01 -137.78 -57.00 -134.69 10.00 10.00 0.00 7,450.00 11.60 0.49 7,444.22 -126.30 -56.90 -126.79 10.00 10.00 0.00 7,500.00 16.60 0.49 7,492.70 -114.13 -56.79 -114.61 10.00 10.00 0.00 7,550.00 21.60 0.49 7,539.93 -97.78 -56.65 -98.26 10.00 10.00 0.00 7,650.00 21.60 0.49 7,585.56 -77.37 -56.48 -77.85 10.00 10.00 0.00 7,600.00 26.60 0.49 7,670.63 -25.05 -56.03 -25.52 10.00 10.00 0.00 7,750.00 41.60 0.49 7,794.22 6.47 -55.76 6.00 10.00	7,300.00	0.00	0.00	7,295.01	-138.00	-57.00	-138.48	0.00	0.00	0.00
7,350.00 1.60 0.49 7,345.01 -137.78 -57.00 -138.26 10.00 10.00 0.00 7,400.00 6.60 0.49 7,394.86 -134.21 -56.97 -134.69 10.00 10.00 0.00 7,500.00 11.60 0.49 7,492.70 -114.13 -56.90 -126.79 10.00 10.00 0.00 7,500.00 16.60 0.49 7,539.93 -97.78 -56.65 -98.26 10.00 10.00 0.00 7,600.00 26.60 0.49 7,535.56 -77.37 -56.48 -77.85 10.00 10.00 0.00 7,600.00 36.60 0.49 7,670.83 -25.05 -56.03 -25.55 10.00 10.00 0.00 7,750.00 41.60 0.49 7,670.83 -25.05 -56.03 -25.52 10.00 10.00 0.00 7,800.00 46.60 0.49 7,745.31 41.26 -55.76 6.00 10.00 10.00 0.00 <	7,334.03	0.00	0.00	7,329.04	-138.00	-57.00	-138.48	0.00	0.00	0.00
7,400.00 6.60 0.49 7,394.86 -134.21 -56.97 -134.69 10.00 10.00 0.00 7,450.00 11.60 0.49 7,444.22 -126.30 -56.90 -126.79 10.00 10.00 0.00 7,500.00 16.60 0.49 7,492.70 -114.13 -56.79 -114.61 10.00 10.00 0.00 7,500.00 21.60 0.49 7,539.93 -97.78 -56.65 -98.26 10.00 10.00 0.00 7,500.00 26.60 0.49 7,539.93 -97.78 -56.65 -98.26 10.00 10.00 0.00 7,600.00 26.60 0.49 7,629.23 -53.07 -56.27 -53.55 10.00 10.00 0.00 7,750.00 41.60 0.49 7,769.63 -25.05 -56.03 -25.52 10.00 10.00 0.00 7,850.00 41.60 0.49 7,778.31 41.26 -55.76 6.00 10.00 10.00 0.00	KOP: Start B	uild 10°/100'								
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7,500.00 16.60 0.49 7,492.70 -114.13 -56.79 -114.61 10.00 10.00 0.00 7,550.00 21.60 0.49 7,539.93 -97.78 -56.65 -98.26 10.00 10.00 0.00 7,600.00 26.60 0.49 7,585.56 -77.37 -56.48 -77.85 10.00 10.00 0.00 7,600.00 31.60 0.49 7,629.23 -53.07 -56.27 -53.55 10.00 10.00 0.00 7,700.00 36.60 0.49 7,670.63 -25.05 -56.03 -25.52 10.00 10.00 0.00 7,700.00 36.60 0.49 7,709.42 6.47 -55.76 6.00 10.00 10.00 0.00 7,750.00 41.60 0.49 7,709.42 6.47 -55.76 6.00 10.00 10.00 0.00 7,800.00 46.60 0.49 7,778.04 79.03 -55.46 40.78 10.00 10.00 0.00 7,850.00 51.60 0.49 7,778.04 79.03 -55.13 78.56 10.00 10.00 0.00 7,900.00 56.60 0.49 7,807.35 119.52 -54.79 119.05 10.00 10.00 0.00 7,950.00 61.60 0.49 7,833.03 162.41 -54.42 161.93 10.00 10.00 0.00 8,050.00 71.60 0.49 7,854.86 207.37 -54.03 206.90 10.00 10.00 0.00 8,050.00 71.60 0.49 7,872.70 254.06 -53.63 253.59 10.00 10.00 0.00 8,150.00 76.60 0.49 7,895.85 361.21 -52.79 350.74 10.00 10.00 0.00 8,234.03 90.00 66.60 0.49 7,895.85 361.21 -52.79 350.74 10.00 10.00 0.00 8,234.03 90.00 0.49 7,902.00 434.94 -52.07 434.48 10.00 10.00 0.00 8,234.03 90.00 0.49 7,902.00 50.90 -51.51 50.04 0.00 0.00 0.00 8,300.00 86.60 0.49 7,902.00 434.94 -52.07 434.48 10.00 10.00 0.00 0.00 8,234.03 90.00 0.49 7,902.00 50.90 -51.51 50.04 0.00 0.00 0.00 0.00 8,300.00 90.00 0.49 7,902.00 50.90 -51.51 500.44 0.00 0.00 0.00 0.00 8,400.00 90.00 0.49 7,902.00 50.90 -50.65 600.44 0.00 0.00 0.00 0.00 0.00 8,400.00 90.00 0.49 7,902.00 60.90 -50.65 600.44 0.00 0.00 0.00 0.00 0.00 8,400.00 90.00 0.49 7,902.00 60.90 -50.65 600.44 0.00 0.00 0.00 0.00 0.00 0.00 0.										
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7,600.00	7,500.00	16.60	0.49		-114.13	-56.79	-114.61	10.00	10.00	
7,650.00 31.60 0.49 7,629.23 -53.07 -56.27 -53.55 10.00 10.00 0.00 7,700.00 36.60 0.49 7,670.63 -25.05 -56.03 -25.52 10.00 10.00 0.00 7,750.00 41.60 0.49 7,709.42 6.47 -55.76 6.00 10.00 10.00 0.00 7,800.00 46.60 0.49 7,745.31 41.26 -55.46 40.78 10.00 10.00 10.00 0.00 7,850.00 51.60 0.49 7,778.04 79.03 -55.13 78.56 10.00 10.00 10.00 0.00 7,900.00 56.60 0.49 7,807.35 119.52 -54.79 119.05 10.00 10.00 0.00 7,950.00 61.60 0.49 7,833.03 162.41 -54.42 161.93 10.00 10.00 0.00 8,050.00 71.60 0.49 7,854.86 207.37 -54.03 206.90 10.00 10.00 0.00 8,150.00 71.60 0.49 7,886.39 302.13 -53.22 301.66 10.00 10.00 0.00 8,150.00 81.60 0.49 7,895.85 351.21 -52.79 350.74 10.00 10.00 0.00 8,200.00 86.60 0.49 7,895.85 351.21 -52.79 350.74 10.00 10.00 0.00 8,234.03 90.00 0.49 7,902.00 434.94 -52.07 434.48 10.00 10.00 0.00 10.00 0.00 8,234.03 90.00 0.49 7,902.00 434.94 -52.07 434.48 10.00 10.00 0.00 10.00 0.00 8,234.03 90.00 0.49 7,902.00 500.90 -51.51 500.44 0.00 0.00 0.00 0.00 8,400.00 90.00 0.49 7,902.00 500.90 -51.51 500.44 0.00 0.00 0.00 0.00 8,400.00 90.00 0.49 7,902.00 600.90 -50.65 600.44 0.00 0.00 0.00 0.00 0.00 0.00 0.	7,550.00	21.60	0.49	7,539.93						
7,700,00 36.60 0.49 7,670.63 -25.05 -56.03 -25.52 10.00 10.00 0.00 7,750.00 41.60 0.49 7,709.42 6.47 -55.76 6.00 10.00 10.00 0.00 7,800.00 46.60 0.49 7,745.31 41.26 -55.46 40.78 10.00 10.00 0.00 7,850.00 51.60 0.49 7,778.04 79.03 -55.13 78.56 10.00 10.00 0.00 7,900.00 56.60 0.49 7,807.35 119.52 -54.79 119.05 10.00 10.00 0.00 7,950.00 61.60 0.49 7,833.03 162.41 -54.42 161.93 10.00 10.00 0.00 8,000.00 66.60 0.49 7,854.86 207.37 -54.03 206.90 10.00 10.00 0.00 8,050.00 71.60 0.49 7,886.39 302.13 -53.22 301.66 10.00 10.00 0.00										
7,750.00 41.60 0.49 7,709.42 6.47 -55.76 6.00 10.00 10.00 0.00 7,800.00 46.60 0.49 7,745.31 41.26 -55.46 40.78 10.00 10.00 0.00 7,850.00 51.60 0.49 7,778.04 79.03 -55.13 78.56 10.00 10.00 0.00 7,900.00 56.60 0.49 7,807.35 119.52 -54.79 119.05 10.00 10.00 0.00 7,950.00 61.60 0.49 7,833.03 162.41 -54.42 161.93 10.00 10.00 0.00 8,000.00 66.60 0.49 7,872.70 254.06 -53.63 253.59 10.00 10.00 0.00 8,150.00 76.60 0.49 7,886.39 302.13 -53.22 301.66 10.00 10.00 0.00 8,150.00 81.60 0.49 7,895.85 351.21 -52.79 350.74 10.00 10.00 0.00 8,234.03 90.00 0.49 7,902.00 434.94 -52.07 434.48 10.00 10.00 0.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10.00 10.00 0.00 10										
7,800.00 46.60 0.49 7,745.31 41.26 -55.46 40.78 10.00 10.00 0.00 7,850.00 51.60 0.49 7,778.04 79.03 -55.13 78.56 10.00 10.00 0.00 7,900.00 56.60 0.49 7,807.35 119.52 -54.79 119.05 10.00 10.00 0.00 7,950.00 61.60 0.49 7,833.03 162.41 -54.42 161.93 10.00 10.00 0.00 8,000.00 66.60 0.49 7,854.86 207.37 -54.03 206.90 10.00 10.00 0.00 8,050.00 71.60 0.49 7,872.70 254.06 -53.63 253.59 10.00 10.00 0.00 8,100.00 76.60 0.49 7,886.39 302.13 -53.22 301.66 10.00 10.00 0.00 8,200.00 81.60 0.49 7,895.85 351.21 -52.79 350.74 10.00 10.00 0.00	7,700.00	36,60	0.49	7,670.63	-25.05	-56.03	-25.52	10.00	10.00	0.00
7,850.00 51.60 0.49 7,778.04 79.03 -55.13 78.56 10.00 10.00 0.00 7,900.00 56.60 0.49 7,807.35 119.52 -54.79 119.05 10.00 10.00 0.00 7,950.00 61.60 0.49 7,833.03 162.41 -54.42 161.93 10.00 10.00 0.00 8,000.00 66.60 0.49 7,854.86 207.37 -54.03 206.90 10.00 10.00 0.00 8,050.00 71.60 0.49 7,872.70 254.06 -53.63 253.59 10.00 10.00 0.00 8,100.00 76.60 0.49 7,886.39 302.13 -53.22 301.66 10.00 10.00 0.00 8,150.00 81.60 0.49 7,895.85 351.21 -52.79 350.74 10.00 10.00 0.00 8,234.03 90.00 0.49 7,902.00 434.94 -52.07 434.48 10.00 10.00 0.00 <td></td> <td>41.60</td> <td>0.49</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10.00</td> <td></td>		41.60	0.49						10.00	
7,900.00 56,60 0.49 7,807.35 119.52 -54.79 119.05 10.00 10.00 0.00 7,950.00 61.60 0.49 7,833.03 162.41 -54.42 161.93 10.00 10.00 0.00 8,000.00 66.60 0.49 7,854.86 207.37 -54.03 206.90 10.00 10.00 0.00 8,050.00 71.60 0.49 7,872.70 254.06 -53.63 253.59 10.00 10.00 0.00 8,100.00 76.60 0.49 7,886.39 302.13 -53.22 301.66 10.00 10.00 0.00 8,150.00 81.60 0.49 7,895.85 351.21 -52.79 350.74 10.00 10.00 0.00 8,200.00 86.60 0.49 7,902.09 400.93 -52.37 400.46 10.00 10.00 0.00 LP: 90° Inc at 0.49° Azm 8,300.00 90.00 0.49 7,902.00 500.90 -51.51 500.44 0.00 <t< td=""><td>7,800.00</td><td>46.60</td><td>0.49</td><td>7,745.31</td><td>41.26</td><td>-55.46</td><td>40.78</td><td>10.00</td><td>10.00</td><td>0.00</td></t<>	7,800.00	46.60	0.49	7,745.31	41.26	-55.46	40.78	10.00	10.00	0.00
7,950.00 61.60 0.49 7,833.03 162.41 -54.42 161.93 10.00 10.00 0.00 8,000.00 66.60 0.49 7,854.86 207.37 -54.03 206.90 10.00 10.00 0.00 8,050.00 71.60 0.49 7,872.70 254.06 -53.63 253.59 10.00 10.00 0.00 8,100.00 76.60 0.49 7,886.39 302.13 -53.22 301.66 10.00 10.00 0.00 8,150.00 81.60 0.49 7,895.85 351.21 -52.79 350.74 10.00 10.00 0.00 8,200.00 86.60 0.49 7,900.99 400.93 -52.37 400.46 10.00 10.00 0.00 8,234.03 90.00 0.49 7,902.00 434.94 -52.07 434.48 10.00 10.00 0.00 LP: 90° Inc at 0.49° Azm 8,300.00 90.00 0.49 7,902.00 500.90 -51.51 500.44 0.00 <t< td=""><td>7,850.00</td><td>51.60</td><td>0.49</td><td>7,778.04</td><td>79.03</td><td><i>-</i>55.13</td><td></td><td>10.00</td><td></td><td></td></t<>	7,850.00	51.60	0.49	7,778.04	79.03	<i>-</i> 55.13		10.00		
8,000.00 66,60 0.49 7,854.86 207.37 -54.03 206.90 10.00 10.00 0.00 8,050.00 71.60 0.49 7,872.70 254.06 -53.63 253.59 10.00 10.00 0.00 8,100.00 76.60 0.49 7,886.39 302.13 -53.22 301.66 10.00 10.00 0.00 8,150.00 81.60 0.49 7,895.85 351.21 -52.79 350.74 10.00 10.00 0.00 8,200.00 86.60 0.49 7,900.99 400.93 -52.37 400.46 10.00 10.00 0.00 8,234.03 90.00 0.49 7,902.00 434.94 -52.07 434.48 10.00 10.00 0.00 LP: 90° Inc at 0.49° Azm 8,300.00 90.00 0.49 7,902.00 500.90 -51.51 500.44 0.00 0.00 0.00 8,400.00 90.00 0.49 7,902.00 600.90 -50.65 600.44 0.00 0.00 0.00	7,900.00	56.60	0.49		119.52					
8,050.00 71.60 0.49 7,872.70 254.06 -53.63 253.59 10.00 10.00 0.00 8,100.00 76.60 0.49 7,886.39 302.13 -53.22 301.66 10.00 10.00 0.00 8,150.00 81.60 0.49 7,895.85 351.21 -52.79 350.74 10.00 10.00 0.00 8,200.00 86.60 0.49 7,900.99 400.93 -52.37 400.46 10.00 10.00 0.00 8,234.03 90.00 0.49 7,902.00 434.94 -52.07 434.48 10.00 10.00 0.00 LP: 90° Inc at 0.49° Azm 8,300.00 90.00 0.49 7,902.00 500.90 -51.51 500.44 0.00 0.00 0.00 8,400.00 90.00 0.49 7,902.00 600.90 -50.65 600.44 0.00 0.00 0.00	7,950.00	61.60	0.49	7,833.03	162.41	-54.42	161.93	10.00	10.00	0.00
8,100.00 76.60 0.49 7,886.39 302.13 -53.22 301.66 10.00 10.00 0.00 8,150.00 81.60 0.49 7,895.85 351.21 -52.79 350.74 10.00 10.00 0.00 8,200.00 86.60 0.49 7,900.99 400.93 -52.37 400.46 10.00 10.00 0.00 8,234.03 90.00 0.49 7,902.00 434.94 -52.07 434.48 10.00 10.00 0.00 LP: 90° inc at 0.49° Azm 8,300.00 90.00 0.49 7,902.00 500.90 -51.51 500.44 0.00 0.00 0.00 8,400.00 90.00 0.49 7,902.00 600.90 -50.65 600.44 0.00 0.00 0.00	8,000.00	66.60	0.49	7,854.86	207.37	-54.03	206.90	10.00	10.00	0.00
8,150.00 81.60 0.49 7,895.85 351.21 -52.79 350.74 10.00 10.00 0.00 8,200.00 86.60 0.49 7,900.99 400.93 -52.37 400.46 10.00 10.00 0.00 8,234.03 90.00 0.49 7,902.00 434.94 -52.07 434.48 10.00 10.00 0.00 LP: 90° Inc at 0.49° Azm 8,300.00 90.00 0.49 7,902.00 500.90 -51.51 500.44 0.00 0.00 0.00 0.00 8,400.00 90.00 0.49 7,902.00 600.90 -50.65 600.44 0.00 0.00 0.00	-				254.06	-53.63	253.59	10.00	10.00	0.00
8,150.00 81.60 0.49 7,895.85 351.21 -52.79 350.74 10.00 10.00 0.00 8,200.00 86.60 0.49 7,900.99 400.93 -52.37 400.46 10.00 10.00 0.00 8,234.03 90.00 0.49 7,902.00 434.94 -52.07 434.48 10.00 10.00 0.00 LP: 90° Inc at 0.49° Azm 8,300.00 90.00 0.49 7,902.00 500.90 -51.51 500.44 0.00 0.00 0.00 8,400.00 90.00 0.49 7,902.00 600.90 -50.65 600.44 0.00 0.00 0.00								10.00	10.00	0.00
8,234.03 90.00 0.49 7,902.00 434.94 -52.07 434.48 10.00 10.00 0.00 LP: 90° Inc at 0.49° Azm 8,300.00 90.00 0.49 7,902.00 500.90 -51.51 500.44 0.00 0.00 0.00 8,400.00 90.00 0.49 7,902.00 600.90 -50.65 600.44 0.00 0.00 0.00		81.60	0.49	7,895.85	351.21	-52.79	350.74	10.00	10.00	0.00
LP: 90° Inc at 0.49° Azm 8,300.00 90.00 0.49 7,902.00 500.90 -51.51 500.44 0.00 0.00 0.00 8,400.00 90.00 0.49 7,902.00 600.90 -50.65 600.44 0.00 0.00				7,900.99		-52.37	400.46	10.00	10.00	0.00
8,300.00 90.00 0.49 7,902.00 500.90 -51.51 500.44 0.00 0.00 0.00 8,400.00 90.00 0.49 7,902.00 600.90 -50.65 600.44 0.00 0.00 0.00	8,234.03	90.00	0.49	7,902.00	434.94	-52.07	434.48	10.00	10.00	0.00
8,400.00 90.00 0.49 7,902.00 600.90 -50.65 600.44 0.00 0.00 0.00	LP: 90° Inc at	0.49° Azm								
***************************************	8,300.00	90.00	0.49	7,902.00	500.90	-51.51	500.44	0.00	0.00	0.00
8,500.00 90.00 0.49 7,902.00 700.89 -49.79 700.44 0.00 0.00 0.00	8,400.00	90.00	0.49	7,902.00	600,90			0.00	0.00	
	8,500.00	90.00	0.49	7,902.00	700.89	-49.79	700.44	0.00	0.00	0.00



Planning Report



Database: Company: Compass 5000 GCR Matador Resources

Project: Site: Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E

Well: Wellbore:

Design:

Charlie Swee 124H

ОН

Preliminary Plan 1

Local Co-ordinate Reference:

TVO Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 124H

RKB @ 3128.50usft (Patterson 297)

RKB @ 3128.50usft (Patterson 297)

Grid

Minimum Curvature

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)
8,600.00	90.00	0.49	7,902.00	800.89	-48.93	800.44	0.00	0.00	0.00
8,700.00	90.00	0.49	7,902.00	900.89	-48.07	900.44	0.00	0.00	0.00
8,800.00	90.00	0.49	7,902.00	1,000.88	-47.21	1,000.44	0.00	0.00	0.00
8,900.00	90.00	0.49	7,902.00	1,100.88	-46.35	1,100.44	0.00	0.00	0.00
9,000.00	90.00	0.49	7,902.00	1,200.88	-45.49	1,200.44	0.00	0.00	0.00
9,100.00	90.00	0.49	7,902.00	1,300.87	-44.63	1,300.44	0.00	0.00	0.00
9,200.00	90.00	0.49	7,902.00	1,400.87	-43.77	1,400.44	0.00	0.00	0.00
9,300.00	90.00	0.49	7,902.00	1,500.86	-42.91	1,500.44	0.00	0.00	0.00
9,400.00	90.00	0.49	7,902.00	1,600.86	-42.05	1,600.44	0.00	0.00	0.00
9,500.00	90.00	0.49	7,902.00	1,700.86	-41.19	1,700.44	0.00	0.00	0.00
9,600.00	90.00	0.49	7,902.00	1,800.85	-40.33	1,800.44	0.00	0.00	0.00
9,700.00	90.00	0.49	7,902.00	1,900.85	-39.47	1,900.44	0.00	0.00	0.00
9,800.00	90.00	0.49	7,902.00	2,000.85	-38.61	2,000.44	0.00	0.00	0.00
9,900.00	90.00	0.49	7,902.00	2,100.84	-37.75	2,100.44	0.00	0.00	0.00
10,000.00	90.00	0.49	7,902.00	2,200.84	-36.89	2,200.44	0.00	0.00	0.00
10,100.00	90.00	0.49	7,902.00	2,300.84	-36.03	2,300.44	0.00	0.00	0.00
10,200.00	90.00	0.49	7,902.00	2,400.83	-35.17	2,400.44	0.00	0.00	0.00
10,300.00	90.00	0.49	7,902.00	2,500.83	-34.32	2,500.44	0.00	0.00	0.00
10,400.00	90.00	0.49	7,902.00	2,600.82	-33.46	2,600.44	0.00	0.00	0.00
10,500.00	90.00	0.49	7,902.00	2,700.82	-32.60	2,700.44	0.00	0.00	0.00
10,600.00	90.00	0.49	7,902.00	2,800.82	-31.74	2,800.44	0.00	0.00	0.00
10,700.00	90.00	0.49	7,902.00	2,900.81	-30.88	2,900.44	0.00	0.00	0.00
10,800.00	90.00	0.49	7,902.00	3,000.81	-30.02	3,000.44	0.00	0.00	0.00
10,900.00	90.00	0.49	7,902.00	3,100.81	-29.16	3,100.44	0.00	0.00	0.00
11,000.00	90.00	0.49	7,902.00	3,200.80	<i>-</i> 28.30	3,200.44	0.00	0.00	0.00
11,100.00	90.00	0.49	7,902.00	3,300.80	-27.44	3,300.44	0.00	0.00	0.00
11,200.00	90.00	0.49	7,902.00	3,400.79	-26.58	3,400.44	0.00	0.00	0.00
11,300.00	90.00	0.49	7,902.00	3,500.79	-25.72	3,500.44	0.00	0.00	0.00
11,400.00	90.00	0.49	7,902.00	3,600.79	-24.86	3,600.44	0.00	0.00	0.00
11,500.00	90.00	0.49	7,902.00	3,700.78	-24.00	3,700.44	0.00	0.00	0.00
11,600.00	90.00	0.49	7,902.00	3,800.78	-23.14	3,800.44	0.00	0.00	0.00
11,700.00	90.00	0.49	7,902.00	3,900.78	-22.28	3,900.44	0.00	0.00	0.00
11,800.00	90.00	0.49	7,902.00	4,000.77	-21.42	4,000.44	0.00	0.00	0.00
11,900.00	90.00	0.49	7,902.00	4,100.77	-20.56	4,100.44	0.00	0.00	0.00
12,000.00	90.00	0.49	7,902.00	4,200.77	-19.70	4,200.44	0.00	0.00	0.00
12,100.00	90.00	0.49	7,902.00	4,300.76	-18.84	4,300.44	0.00	0.00	0.00
12,200.00	90.00	0.49	7,902.00	4,400.76	-17.98	4,400.44	0.00	0.00	0.00
12,300.00	90.00	0.49	7,902.00	4,500.75	-17 12	4,500.44	0.00	0.00	0.00
12,400.00	90.00	0.49	7,902.00	4,600.75	-16.26	4,600.44	0.00	0.00	0.00
12,500.00	90.00	0.49	7,902.00	4,700.75	-15.40	4,700.44	0.00	0.00	0.00
12,600.00	90.00	0.49	7,902.00	4,800.74	-14.54	4,800.44	0.00	0.00	0.00
12,663.26	90.00	0.49	7,902.00	4,864.00	-14.00	4,863.70	0.00	0.00	0.00
TD at 12663.2	6								



Planning Report



Database: Company: Compass 5000 GCR

Matador Resources

Project: Well:

Eddy County, NM (NAD27 NME) Chartie Sweeney Federal 31-23S-28E

Site:

124H

Wellbore:

OH

Design:

Preliminary Plan 1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Well 124H

RKB @ 3128.50usft (Patterson 297)

RKB @ 3128.50usft (Patterson 297)

Minimum Curvature

Design Targets

Target	Name
--------	------

hit/miss targetShape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
t .									· ·
LPP Sweeney 124H	0.00	0.00	7,902.00	4,774.00	-14.00	461,193.00	566,026.00	32° 16′ 3.92081 N	104° 7' 10.99099 W
plan misses targetPoint	center by 0.77	usft at 1257	3.26usft MD	(7902.00 TVD), 4774.01 N , -	14.77 E)			
BHL Sweeney 124H - plan hits target cer - Point	0.00 nter	0.00	7,902.00	4,864.00	-14.00	461,283.00	566,026.00	32° 16′ 4.81147 N	104° 7' 10.98891 W
FPP Sweeney 124H - plan misses target	0.00 center by 71.0	0.00 2usft at 796	7,902.00 0.88usft MD	141.00 (7838.11 TVD	-54.00), 172.03 N , -5	456,560.00 4.33 E)	565,986.00	32° 15′ 18.07225 N	104° 7' 11.56418 W

Casing Points

De	sured ' epth isft)	Vertical Depth (usft)		Name	Casing ameter (")	Hole Diameter (")	
•	600.00	600.00	13 3/8"		13-3/8	17-1/2	
1	2,600.00	2,596.54	9 5/8"		9-5/8	12-1/4	

Plan Annotations

	Measured	Vertical	Local Coord	linates		
	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
;	1,000.00	1,000.00	0.00	0.00	Start Build 1.5°/100'	
-	1,266.37	1,266.16	-8.58	-3.54	Hold 4° Inc at 202.44° Azm	
i	3,142.66	3,137.88	-129.42	-53.46	Start Drop 1.5°/100'	
}	3,409.03	3,404.04	-138.00	-57.00	Hold Vertical	
i	7,334.03	7,329.04	-138.00	-57.00	KOP: Start Build 10°/100'	1
1	8,234.03	7,902.00	434,94	-52.07	LP: 90° Inc at 0.49° Azm	
	12,663.26	7,902.00	4,864.00	-14.00	TD at 12663.26	

00 -200 0 200 400 600 800 West(-)/East(+) (200 ustVin) Start Drop 1.5*/100' -400 -200 0 Hold Vertical KOP: Start Build 10*/100* 909 9 -800 908--1200 -1000 1200 -1000 Map System: US State Plane 1927 (Exact sobulor Datum: NAD 1927 (NADCON CONUS) Ellipsold: Clarke 1966 Zone Name: New Mexico East 3001 Policiament a Magmetti. Direction to a fand Onestean And v. 37. To convert a Magmetti. Direction to a True Direction, Subtract 0.11*
To convert a True Direction to a Grid Direction, Subtract 0.11* South(-)/North(+) (20 usft/in) Local Origin: Well 124H, Grid North 4800 5000 5200 5400 5600 Latitude: 32° 15' 16.67581 N Longitude: 104° 7' 10.93859 W BHL Sweeney 124H LPP Sweeney 124H Grid East, 566040.00 Grid North: 456419.00 Scale Factor, 1.000 Geomagnetic Model. HDGM Sample Date: 20-Jan-16 Magnetic Declination: 7.48* Dip Angle from Horizoniai: 60.10* Magnetic Field Strength: 48252 120 TD at 12663.26 LEGEND 8 8 g. West(-)/East(+) (20 usfuln) 4600 4400 Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E 124H 4200 Start Build 1.5*1100
Hold 4* Inc at 202.44* Azm
Start Drop 1.5*1/900
Hold Vertical
KOP: Start Build 10*1/00
I.P. 90* Inc at 0.49* Azm
TD at 12653.26 4000 Longlude 104* 7: 10.98890 W 104* 7: 10.99099 W 3800 Wellbore: OH Design: Preliminary Plan 1 Rig: Patterson 297 3600 Langitude 104* 7* 10.93859 W Labbude 32* 16* 4.81147 N 32* 15* 18.07225 N 32* 16* 3.92081 N 1800 2000 2200 2400 2600 2800 3000 3200 3400 Vertical Section at 0.49* (200 usfulin) BHL Sweeney 124H Lattude 32* 15* 16.67581 N Project: 1 Site: (Well: Easting 566026.00 565986.00 566026.00 DESIGN TARGET DETAILS Ground Level: 3101.00 Easting 566040.00 32*15*1 SECTION DETAILS LP: 90° Inc at 0.49° Azn WELL DETAILS Northing 461283.00 456560.00 461193.00 8 FPP Sweeney 124H 0 100 200 300 400 500 Vertical Section at 0.49* (100 usft/in) Dleg 0.00 1.50 1.50 0.00 0.00 0.00 0.00 14.00 14.00 14.00 £4.8 3.54 57.80 57.80 14.00 +N+S 4864.00 141.00 4774.00 Northing 456419.00 7902.00 7902.00 7902.00 KOP: Start Build 10"/100" 1600 ₩./⊒ 0.00 A2 0.00 202.44 202.44 0.00 0.00 0.49 7 1400 Name BHL Sweeney 124H FPP Sweeney 124H LPP Sweeney 124H 0.00 0.00 1200 9 MD 0.00 1006.00 1266.37 3142.66 3409.03 7334.03 8234.03 LP. 90" inc at 0.49" Azm 1000 8000-200 7200-7300-7700 200 400 600 800 FPP Sweeney 124H RXB @ 3128.50wsft (Patterson 297) 3101.00 70003 | 1 | 500 1000 1500 200 -500 0 500 1000 1500 200 Vertical Section at 0.49* (500 ustVIn) Start Build 1:51/100-Hold 4* Inc at 202.44* Azm KOP: Start Build 10*/100 Ground Level: Start Drop 1,5*/100" Hold Vertical 98 Depth Depth (VIV) 200 5500 6000 rattin) 1118 8000 1000 ₩ 4000 911 005 5000

outh(-

3000 2800 Nort Soot

(20022

LEASE LINE

330 HARD LINE

5000 S

1800 1600 1400 1200 1000 900 900 400

LP: 90° Inc

--200

Start Build 1.5*1100* Hold 4" Inc at 202.44" Azm

500

18y 124H

FPP (

TECHNOLOGY SERVICES PHOENIX

Magnetic Field Strength: 48252.1snT Dip Angle: 60.10* Date: 1/20/2016 Model; HDGM Azemuths to Grid North True North: -0.11* Magnetic North: 7.37* West(-)/East(+) (200 ustt/in)

4800

228H 10300 -2652 BHL Sweeney 124H

LPP Sweeney 124H

1000 1200

4400 4200 4000 3800 3600 3400 3200



Matador Resources

Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E 124H

OH Preliminary Plan 1

Anticollision Report

05 January, 2016





Anticollision Report



Company:

Matador Resources

Project:

Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E

Reference Site: Site Error:

0.00 usft

Reference Well: Well Error:

124H 0.00 usft

Reference Wellbore

OH

Reference Design:

Preliminary Plan 1

Local Co-ordinate Reference:

TVD Reference:

Well 124H

RKB @ 3128.50usft (Patterson 297)

RKB @ 3128.50usft (Patterson 297)

North Reference: Survey Calculation Method:

2.00 sigma

Output errors are at

Minimum Curvature Compass 5000 GCR

Database: Offset TVD Reference:

MD Reference:

Reference Datum

Reference

Preliminary Plan 1

Filter type:

NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method:

MD + Stations Interval 100.00usft

Error Model:

ISCWSA

Depth Range:

Unlimited

Scan Method:

Results Limited by:

Maximum center-center distance of 5,000.00 usft

Error Surface:

Closest Approach 3D Elliptical Conic

Warning Levels Evaluated at:

2.00 Sigma

Casing Method:

Not applied

Survey Tool Program

Date 1/5/2016

From (usft) To

(usft)

Survey (Wellbore)

Tool Name

Description

0.00

12,663.26 Preliminary Plan 1 (OH)

PHX+MWD+HDGM

PHX+OWSG MWD + HDGM

	Reference	Offset	Dista	nce		
Site Name Offset Well - Wellbore - Design	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Eilipses (usft)	Separation Factor	Warning
Charlie Sweeney Federal 31-23S-28E						
204H - OH - Preliminary Plan 1	1,000.00	1,000.00	30.00	23.29	4.469	CC
204H - OH - Preliminary Plan 1	1,100.00	1,099.33	30.61	23.22	4.139	ES
204H - OH - Preliminary Plan 1	7,450.00	7,457.31	198.45	146.49	3.820	SF
208H - OH - Preliminary Plan 1	1,000.00	1,000.00	30.00	23.29	4.469	CC, ES
208H - OH - Preliminary Plan 1	7,500.00	7,498.64	198.24	146.05	3.798	SF
224H - OH - Preliminary Plan 1	1,000.00	999.00	60.00	53.29	8.943	CC
224H - OH - Preliminary Plan 1	1,100.00	1,097.58	60.67	53.28	8.208	ES
224H - OH - Preliminary Plan 1	7,500.00	7,513.74	331.07	278.74	6.327	SF
228H - OH - Preliminary Plan 1	1,000.00	1,000.00	60.00	53.29	8.939	CC, ES
228H - OH - Preliminary Plan 1	7,550.00	7,552.32	332.10	279.54	6.318	SF

Offset De	sign	Charlie	Sweeney	Federal 31-	-23S-28E	- 204H - OI	H - Preliminan	/ Plan 1					Offset Site Error:	0 00 usf
Survey Prog	ram: 0-Pi	HX+MWD+HD	3M										Offset Well Error:	0 00 usf
Refer	ence	Offse	et	Semi Major	Axis				Dista	nce				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (*)	Offset 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	-90.00	0.00	-30 00	30.00					
100,00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-30.00	30.00	29.74	0.26	115.432		
200.00	200.00	200.00	200.00	0.49	0 49	-90.00	0.00	-30.00	30.00	29.02	0.98	30.711		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-30 00	30.00	28.31	1.69	17.712		
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-30.00	30.00	27.59	2.41	12.444		
500.00	500.00	500.00	500.00	1.56	1.56	-90 00	0.00	-30 00	30.00	26.87	3.13	9.592		
600.00	600.00	600.00	600.00	1.92	1 92	-90.00	0.00	-30.00	30.00	26.16	3.84	7.803		
700.00	700.00	700.00	700.00	2.28	2.28	-90.00	0.00	-30.00	30.00	25.44	4.56	6.577		
800.00	800,00	800.00	800.00	2.64	2.64	-90 00	0.00	-30.00	30.00	24.72	5.28	5.683		
900.00	900.00	900.00	900.00	3.00	3.00	-90.00	0.00	-30.00	30.00	24.00	6.00	5.004		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-90.00	0.00	-30.00	30 00	23.29	6.71	4.469 CC		
1,100.00	1,099.99	1,099.33	1,099.32	3.70	3.70	68,53	-0.68	-31 10	30.61	23.22	7,40	4.139 ES		
1,200.00	1,199.91	1,198.62	1,198.53	4.03	4.03	71.24	-2.70	-34.40	32.50	24.45	8.06	4.034		
1,266.37	1,266.16	1,264.48	1,264.27	4.25	4.26	73.71	-4.79	-37.80	34.52	26.02	8.50	4.061		
1,300.00	1,299.70	1,298.06	1,297.77	4.36	4.37	75.01	-6.01	-39.80	35.73	27 00	8.73	4 093		
1,400.00	1,399.46	1,397.97	1,397.43	4.70	4.72	78.41	-9.65	-45.74	39.42	30.01	9.41	4.188		
1,500.00	1,499.22	1,497.88	1,497.10	5.05	5 07	81.23	-13.30	-51.68	43.23	33.12	10.10	4.278		



Anticollision Report



Company:

Matador Resources

Project: Reference Site: Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E

Site Error:

0.00 usft

Reference Well: Well Error:

124H 0.00 usft

Reference Wellbore Reference Design:

ОН Preliminary Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

RKB @ 3128.50usft (Patterson 297) RKB @ 3128.50usft (Patterson 297)

Grid North Reference:

Minimum Curvature

Well 124H

Survey Calculation Method: Output errors are at

2.00 sigma

Database:

Compass 5000 GCR

Offset TVD Reference:

Reference Datum

urvey Progr	ram· n.o.	4X+MWD+HD	GM										Officet Well Come	0 00 0
urvey Progr Refen		Offs		Semi Major	Axis				Dista	nce			Offset Well Error:	u 00 t
leasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+EI-W {usft}	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	***************************************	
1,600.00	1,598.97	1,597.78	1,596.76	5.39	5 42	83.58	-16 94	-57.62	47.12	36 32	10.80	4.362		
1,700.00	1,698.73	1,697.69	1,696.42	5.75	5.77	85.57	-20.59	-63 56	51.08	39.57	11 51	4.439		
1,800.00	1,798.49	1,797 60	1,796.09	-6 10	6.13	87.27	-24 23	-69 50	55.09	42.88	12.22	4.510		
1,900.00	1,898.24	1,897.50	1,895.75	6.46	6 49	88.74	-27.87	-75.44	59.15	46.22	12.93	4.575		
2,000.00	1,998.00	1,997.41	1,995 41	6.81	6 85	90.02	-31.52	-81.38	63.24	49 60	13.64	4.635		
2,100.00	2,097.76	2,097.32	2,095.08	7.17	7.21	91.15	-35.16	-87.32	67.36	52 99	14.36	4.690		
2,200.00	2,197.51	2,197.22	2,194.74	7.53	7.57	92.14	-38.81	-93.26	71.50	56.41	15.08	4.740		
2,300.00	2,297.27	2,297 13	2,294.40	7.90	7.94	93.03	-42.45	-99.20	75.66	59.85	15.81	4.786		
2,400.00	2,397.03	2,397.04	2,394.07	8.26	8.30	93.82	-46.09	-105.14	79.83	63.30	16.53	4.829		
2,500.00	2,496 79	2,496.95	2,493.73	8.62	8.66	94.53	-49.74	-111.09	84.02	66.76	17.26	4.868		
2,600.00	2,596.54	2,596.85	2,593 40	8.99	9.03	95.18	-53.38	-117.03	88.22	70.23	17.99	4.905		
2,700.00	2,696.30	2,696.76	2,693.06	9.35	9.39	95.77	-57.03	-122.97	92 43	73.72	18.72	4.939		
2,800.00	2,796.06	2,796.09	2,792.12	9.72	9.76	96.16	-60.79	-129.11	96.79	77.35	19.45	4 978		
2,900.00	2,895.81	2,894.64	2,890.23	10.08	10 13	95 44	-65.67	-137.06	102.26	82.09	20.17	5.069		
3,000.00	2,995.57	2,992.94	2,987.81	10.45	10.50	93.66	-71.85	-147.14	109.10	88.19	20.91	5.218		
3,100.00	3,095.33	3,092.15	3,086.07	10.82	10.88	91.33	-79.03	-158.84	117.06	95.41	21.64	5.408		
3,142.66	3,137.88	3,134.62	3,128 13	10.97	11.05	90.42	-82 12	-163.88	120.52	98.56	21.96	5.488		
3,200.00	3,195.11	3,191.70	3,184.65	11.18	11 27	89.15	-86.27	-170.65	125.23	102.85	22.38	5.595		
3,300.00	3,295.02	3,291.11	3,283.09	11.54	11.65	86.28	-93.50	-182.43	133.72	110.61	23 11	5.787		
3,400.00	3,395.01	3,390.29	3,381.32	11.89	12.04	82.75	-100 71	-194.20	142.83	119.02	23.81	5.999		
3,409.03	3,404.04	3,399.24	3,390.17	11.92	12.08	-75.16	-101.36	-195.26	143.70	119.83	23.87	6.020		
3,500.00	3,495.01	3,489.32	3,479.38	12.23	12 43	-78.58	-107.91	-205.94	152.75	128.26	24.49	6.236		
3,600.00	3,595.01	3,588.35	3,577.45	12.56	12.82	-81.89	-115.12	-217.68	163.25	138.07	25.18	6.483		
3,700.00	3,695.01	3,689.33	3,677.49	12.90	13.21	-84.78	-122.27	-229.35	173.95	148.07	25.87	6.723		
3,800.00	3,795.01	3,792.64	3,780.15	13.24	13.61	-86.95	-128 31	-239.20	183.06	156.48	26.58	6.888		
3,900.00	3,895.01	3,896.50	3,883.64	13.58	14 00	-88.46	-132.92	-246.71	190.12	162.83	27.28	6.968		
4,000.00	3,995.01	4,000.77	3,987.73	13.92	14 38	-89.43	-136.06	-251.84	194.98	166.99	27.99	6.966		
4,100.00	4,095.01	4,105.29	4,092.20	14.26	14.76	-89.92	-137.72	-254.55	197.57	168.86	28.70	6.883		
4,200.00	4,195.01	4,208.10	4,195.01	14.60	15.10	-90.00	-138.00	-255.00	198.00	168.61	29.39	6.736		
4,300.00	4,295.01	4,308.10	4,295.01	14.94	15.44	-90.00	-138.00	-255.00	198.00	167.93	30.07	6.584		
4,400.00	4,395.01	4,408.10	4,395.01	15.29	15.77	-90.00	-138.00	-255.00	198.00	167.24	30.76	6.438		
4,500.00	4,495.01	4,508.10	4,495.01	15.63	16.10	-90.00	-138.00	-255.00	198.00	166.56	31.44	6 298		
4,600.00	4,595.01	4,608.10	4,595.01	15.98	16.44	-90 00	-138.00	-255.00	198.00	165.88	32.12	6.164		
4,700.00	4,695.01	4,708.10	4,695.01	16.32	16 77	-90.00	-138.00	-255.00	198.00	165.19	32 81	6.035		
4,800.00	4,795.01	4,808.10	4,795.01	16.67	17.11	-90.00	-138.00	-255.00	198.00	164.50	33.50	5.911		
4,900.00	4,895.01	4,908.10	4,895.01	17 01	17.45	-90 00	-138 00	-255.00	198.00	163.82	34 18	5.792		
5,000.00	4,995.01	5,008.10	4,995.01	17,36	17 79	-90 00	-138.00	-255.00	198.00	163.13	34.87	5.678		
5,100.00	5,095.01	5,108.10	5,095.01	17.71	18 13	-90.00	-138.00	-255.00	198.00	162.44	35.56	5.568		
5,200.00	5,195.01	5,208.10	5,195.01	18.06	18.47	-90.00	-138.00	-255.00	198.00	161.75	36.25	5.461		
5,300.00 5,400.00	5,295.01 5,395.01	5,308.10 5,408.10	5,295.01 5,395.01	18 41 18 75	18.81 19.15	-90.00 -90.00	-138.00 -138.00	-255.00 -255.00	198.00 198.00	161.05 160 36	36.95 37.64	5.359 5.260		
5,500.00	5,495.01	5,508.10	5,495.01	19.10	19.49	-90 00	-138.00	-255.00	198.00	159.67	38.33	5.165		
5,600.00	5,595.01	5,608.10	5,595.01	19.45	19.84	-90.00	-138.00	-255.00	198.00	158.97	39.03	5.073		
5,700.00	5,695.01	5,708.10	5,695.01	19.80	20.18	-90.00	-138.00	-255.00	198.00	158.27	39.73	4.984		
5,800.00	5,795.01	5,808.10	5,795.01	20.15	20.52	-90.00	-138.00	-255.00	198.00	157.58	40.42	4.898		
5,900.00	5,895.01	5,908.10	5,895.01	20.50	20.87	-90,00	-138.00	-255.00	198.00	156.88	41.12	4.815		
6,000.00	5,995.01	6,008.10	5,995.01	20.85	21.21	-90.00	-138.00	-255 00	198.00	156 18	41.82	4.735		
6,100.00	6,095.01	6,108.10	6,095.01	21.20	21 56	-90.00	-138.00	-255 00	198.00	155.48	42.52	4.657		
6,200.00	6,195.01	6,208.10	6,195.D1	21.56	21.90	-90.00	-138.00	-255.00	198.00	154.78	43.22	4 582		
6,300.00	6,295.01	6,308.10	6,295.01	21.91	22.25	-90 00	-138.00	-255.00	198.00	154.08	43.92	4.509		
6,400.00	6,395.01	6,408.10	6,395.01	22.26	22.60	-90.00	-138.00	-255.00	198.00	153.38	44.62	4.438		
6,500.00	6,495.01	6,508.10	6,495.01	22.61	22.94	-90.00	-138.00	-255.00	198.00	152.68	45.32	4.369		



Anticollision Report



Company:

Well Error:

Matador Resources

Project: Eddy County, NM (NAD27 NME)

Reference Site:

Charlie Sweeney Federal 31-23S-28E

Site Error: Reference Well: 0.00 usft 124H 0.00 usft

Reference Wellbore

ОН

Reference Design:

Preliminary Plan 1

Local Co-ordinate Reference:

TVD Reference:

Well 124H

RKB @ 3128.50usft (Patterson 297)

RKB @ 3128.50usft (Patterson 297)

North Reference: Grid

Minimum Curvature

Survey Calculation Method: Output errors are at

2.00 sigma

Database:

MD Reference:

Compass 5000 GCR

Offset TVD Reference:

Reference Datum

Depth	vertical Depth (usft) 6,595.01	HX+MWD+HD Offs Measured Depth		Semi Major	Axis				Dista	nce			Offset Well Error:	0.00 us
6,600.00 6,700.00 6,800.00 6,900.00 7,000.00	Vertical Depth (usft) 6,595.01	Measured Depth			WYIS									
0.600.00 6,700.00 6,800.00 6,900.00 7,000.00	Depth (usft) 6,595.01	Depth		Reference	Offset	Highside	Offset Wellbore	Centre	Between	Between	Minimum	Separation	Warning	
6,600.00 6,700.00 6,800.00 6,900.00 7,000.00	6,595.01	(usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
6,700.00 6,800.00 6,900.00 7,000.00					•							4.000		
6,800.00 6,900.00 7,000.00		6,608.10	6,595.01	22.96	23.29	-90.00	-138.00	-255.00	198 00	151.98 151.28	46.02 46.72	4.303 4.238		
6,900.00 7,000.00	6,695.01	6,708 10	6,695.01	23.31	23.64	-90.00	-138.00 -138.00	-255.00 -255.00	198.00 198.00	150.58	47.42	4.230		
7,000.00	6,795.01 6,895.01	6,808 10 6,908 10	6,795.01 6,895.01	23.67 24.02	23.99 24.34	-90.00 -90.00	-138.00	-255.00	198.00	149.88	48.12	4.175		
	6,995 01	7,008.10	6,995.01	24.02	24.68	-90.00	-138.00	-255.00	198.00	149.00	48.83	4.055		
.,	7,095.01	7,108.10	7,095.01	24.73	25.03	-90.00	-138.00	-255.00	198.00	148 47	49 53	3.998		
	1,00001	7,700.70	7,000.07	24.70	20 00	00.00	755.50	200.00	,00.00	.,,				
7,200.00	7,195 01	7,208.10	7,195.01	25.08	25.38	-90.00	-138.00	-255.00	198.00	147 77	50.23	3,942		
7,300.00	7,295 01	7,308.10	7,295.01	25.43	25.73	-90 00	-138.00	-255.00	198.00	147.06	50.94	3.887		
7,334.03	7,329.04	7,342.14	7,329.04	25.55	25.85	-90.00	-138.00	-255.00	198.00	146 82	51.18	3.869		
7,350.00	7,345.01	7,358.10	7,345.01	25.61	25.91	-90.56	-138.00	-255.00	198.00	146.71	51.29	3.860		
7,400.00	7,394.86	7,407.96	7,394 86	25.78	26.08	-91.58	-138.00	-255.00	198.07	146.44	51.63	3.836		
7,450.00	7,444.22	7,457.31	7,444.22	25.95	26 25	-93.79	-138.00	-255.00	198.45	146 49	51.95	3.820 SF		
	7,444.22	7,505.79	7,444.22	26.11	26.42	-93.79 -97.06	-138.00	-255.00	199.64	147 41	52.22	3.823		
	7,539.93	7,553.79	7,539 93	26.27	26.59	-101.14	-138.00	-255.00	202.38	149.98	52.40	3.862		
	7,585.56	7,598.65	7,585.56	26.42	26.75	-105.72	-138.00	-255.00	207.57	155.17	52.41	3.961		
	7,629 23	7,642.33	7,629.23	26.57	26.90	-110.44	-138.00	-255.00	216.12	163.96	52.16	4.143		
	7,670.63	7,683.72	7,670 63	26.71	27.05	-114.94	-138 00	-255.00	228.80	177.18	51.62	4 432		
	7,709.42	7,722.51	7,709.42	26.85	27.18	-118.90	-138.00	-255.00	246.11	195 32	50.79	4.845		
	7,745.31	7,758.41	7,745.31	26.99	27 31	-122.13	-138.00	-255.00	268.23	218.47	49.76	5,390		
	7,778.04	7,791.14	7,778.04	27 13	27.42	-124.46	-138.00	-255.00	295.04	246.37	48.67	6.062		
7,900.00	7,807.35	7,820.45	7,807.35	27.27	27 52	-125 78	-138.00	-255.00	326 19	278.49	47 70	6,838		
7,950.00	7,833.03	7,846.12	7,833.03	27.41	27.61	-125.97	-138.00	-255.00	361.22	314.13	47 08	7.672		
8,000.00	7,854.86	7,867.96	7,854.86	27 56	27.69	-124.85	-138.00	-255.00	399.58	352.52	47.06	8.490		
8,050.00	7,872 70	7,885.79	7,872.70	27.71	27.75	-122.12	-138.00	-255.00	440.75	392 86	47.89	9.203		
8,100.00	7,886.39	7,899.49	7,886.39	27.87	27.80	-117.35	-138 00	-255.00	484.18	434.47	49 71	9.740		
8,150.00	7,895 85	7,908.94	7,895 85	28.03	27 83	-109.92	-138.00	-255.00	529.35	476.97	52.38	10 107		
8,200.00	7,900.99	7,914.08	7,900 99	28.20	27.85	-99.21	-138.00	-255.00	575.76	520.71	55.05	10.459		
8,234.03	7,902.00	7,915.09	7,902.00	28.32	27.86	-90 00	-138.00	-255 00	607 81	551.83	55.98	10.858		
8,300.00	7,902.00	7,915.09	7,902.00	28.56	27.86	-90.00	-138.00	-255.00	670.53	614 31	56.22	11.927		
8,400.00	7,902.00	7,915 09	7,902.00	28.98	27.86	-90.00	-138.00	-255.00	766.64	710 00	56.64	13.535		
8,500.00	7,902.00	7,915.09	7,902.00	29.47	27 86	-90.00	-138.00	-255.00	863.63	806.50	57 13	15,118		
8,600 00	7,902 00	7,915.09	7,902.00	30 02	27.86	-90.00	-138.00	-255.00	961.24	903.56	57.68	16.666		
	7,902.00	7,915.09	7,902.00	30.62	27.86	-90.00	-138.00	-255.00	1,059.30	1,001.01	58.29	18.174		
	7,902.00	7,915.09	7,902.00	31 29	27 86	-90.00	-138.00	-255.00	1,157.68	1,098 73	58.95	19.639		
	7,902.00	7,915.09	7,902.00	32.01	27.86	-90.00	-138.00	-255.00	1,256.33	1,196.66	59.67	21.056		
	7,902.00	7,915.09	7,902.00	32.77	27.86	-90.00	-138.00	-255.00	1,355.17	1,294.74	60.43	22.425		
9,100.00	7,902.00	7,915.09	7,902.00	33.58	27 86	-90.00	-138.00	-255.00	1,454.17	1,392.93	61.24	23.744		
	7,902.00	7,915.09	7,902.00	34.44	27.86	-90.00	-138.00	-255.00	1,553.30	1,491.20	62.10	25.015		
	7,902.00	7,915.09	7,902.00	35.33	27.86	-90.00	-138.00	-255.00	1,652.53	1,589.54	62.99	26.236		
	7,902.00	11,037.90	9,532.00	36.26	41.28	-168 55	1,603.70	-372.05	1,663.08	1,628.44	34.63	48.018		
	7,902.00	11,137.90	9,532.00	37.22	42.14	-168.55	1,703.70	-371.19	1,663.08	1,627 16	35.91	46.312		
9,600.00	7,902.00	11,237.90	9,532.00	38.21	43.03	-168 55	1,803.69	-370 33	1,663.08	1,625.86	37.22	44 688		
	7,902.00	11,337.90	9,532.00	39.23	43.94	-168 55	1,903.69	-369.47	1,663.08	1,624.53	38.55	43.146		
	7,902.00	11,437.90	9,532.00	40.28	44.89	-168.55	2,003.69	-368.61	1,663.07	1.623.18	39.90	41.683		
	7,902.00	11,537.90	9,532.00	41.35	45 86	-168.55	2,103.68	-367.75	1,663.07	1,621.80	41.27	40.295		
	7,902.00	11,637.90	9,532.00	42.45	46.86	-168.55	2,203.68	-366 89	1,663.07	1,620.41	42.66	38 980		
,,,,,,,	.,		-1			-3.44	_,	- -						
0,100.00	7.902.00	11,737.90	9,532.00	43.56	47.88	-168.55	2,303.67	-366.03	1,663 07	1,619.00	44.07	37.733		
0,200.00	7,902.00	11,837.90	9,532.00	44.70	48.92	-168.55	2,403.67	-365.17	1,663.07	1.617 57	45.50	36.551		
0,300.00	7,902.00	11,937.90	9,532.00	45.85	49 99	-168.55	2,503.67	-364.31	1,663.07	1,616.13	46.94	35.430		
	7,902.00	12,037.90	9,532.00	47.02	51 07	-168.55	2.603.66	-363.45	1,663.07	1,614.68	48.39	34.367		
0,500.00	7,902.00	12,137.90	9,532.00	48.21	52.17	-168.55	2,703.66	-362.59	1,663.07	1,613.22	49.86	33,358		
0,600.00	7,902.00	12,237.90	9,532.00	49.41	53.29	-168.55	2,803.66	-361.73	1,663.07	1,611.74	51.33	32.400		



Anticollision Report



Company: Project:

Matador Resources

Eddy County, NM (NAD27 NME)

Reference Site:

Charlie Sweeney Federal 31-23S-28E

Site Error: Reference Well: 0.00 usft 124H

Well Error:

0.00 usft

Reference Wellbore

ОН

Reference Design:

Preliminary Plan 1

Local Co-ordinate Reference:

TVD Reference:

Well 124H

RKB @ 3128.50usft (Patterson 297)

MD Reference:

RKB @ 3128.50usft (Patterson 297)

North Reference:

Grid Minimum Curvature

Survey Calculation Method:

2.00 sigma

Output errors are at Database:

Offset TVD Reference:

Compass 5000 GCR Reference Datum

Offset De	sign	Charlie	Sweeney	Federal 31-	23S-28E	- 204H - OI	d - Preliminary	Plan 1					Offset Site Error:	0.00 us
urvey Prog	ram: 0-Pl	X+MWD+HD	3M										Offset Well Error:	0.00 us
Refer	ence	Offse	et	Semi Major	Axis				Dista	ince				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (ueft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,700.00	7,902 00	12,337.90	9,532.00	50 62	54.42	-168.55	2,903.65	-360.87	1,663.07	1,610.26	52.81	31.489		
10,800.00	7,902 00	12,437.90	9,532.00	51.85	55.57	-168.55	3,003.65	-360 01	1,663.07	1,608.76	54.31	30.623		
10,900.00	7,902.00	12,537.90	9,532.00	53.08	56 73	-168.55	3,103.65	-359.15	1,663.07	1,607 26	55.81	29.799		
11,000.00	7,902.00	12,637.90	9,532.00	54.33	57.90	-168.55	3,203.64	-358 29	1,663 07	1,605.75	57 32	29.014		
11,100.00	7,902.00	12,737.90	9,532.00	55.59	59.09	-168.55	3,303.64	-357.43	1,663.07	1,604 24	58 84	28.266		
11,200.00	7,902.00	12,837 90	9,532.00	56.85	60.29	-168.55	3,403.63	-356.57	1,663.07	1,602.71	60.36	27.552		
11,300.00	7,902.00	12,937.90	9,532.00	58.13	61.50	-168.55	3,503.63	-355.71	1,663.07	1,601.18	61.89	26,872		
11,400.00	7,902.00	13,037.90	9,532.00	59.41	62.72	-168.55	3,603.63	-354.85	1,663.07	1,599 65	63.42	26.221		
11,500.00	7,902.00	13,137.90	9,532.00	60.70	63.95	-168.55	3,703.62	-353.99	1,663.07	1,598.11	64.97	25,599		
11,600.00	7,902 00	13,237.90	9,532.00	62.00	65.19	-168.55	3,803.62	-353.13	1,663.07	1,596.56	66.51	25.005		
11,700.00	7,902.00	13,337.90	9,532.00	63.31	66.44	-168.55	3,903.62	-352.27	1,663.07	1,595.01	68.06	24.435		
11,800.00	7,902.00	13,437.90	9,532.00	64.62	67.69	-168,55	4,003.61	-351.41	1,663.07	1,593.46	69.61	23.890		
11,900.00	7,902.00	13,537.90	9,532.00	65.94	68.96	-168.55	4,103.61	-350.55	1,663.07	1,591.90	71.17	23.367		
12,000.00	7,902.00	. 13,637.90	9,532.00	67.26	70.23	-168 55	4,203.60	-349.69	1,663.07	1,590.34	72 73	22.865		
12,100.00	7,902.00	13,737.90	9,532.00	68.59	71.51	-168.55	4,303.60	-348.83	1,663.07	1,588.77	74.30	22,383		
12,200.00	7,902 00	13,837.90	9,532.00	69.92	72.79	-168.55	4,403.60	-347.97	1,663.07	1,587.20	75.87	21.920		
12,300.00	7,902.00	13,937.90	9,532.00	71.26	74.08	-168.56	4,503 59	-347.11	1,663.07	1,585.63	77.44	21.475		
12,400.00	7,902.00	14,037 90	9,532.00	72.60	75.38	-168.56	4,603.59	-346.25	1,663.07	1,584.05	79.02	21.047		
12,500.00	7,902.00	14,137.90	9,532.00	73.95	76.68	-168.56	4,703.59	-345.39	1,663.07	1,582 48	80 59	20.636		
12,600.00	7,902.00	14,237.90	9,532.00	75 30	77 99	-168.56	4,803.58	-344.53	1,663.07	1,580 90	82.17	20,239		
12,646.65	7,902.00	14,284.55	9,532.00	75.93	78.60	-168.56	4,850.23	-344.13	1,663.07	1,580 16	82.91	20.059		
12,663.26	7,902.00	14,299.32	9,532.00	76.15	78.79	-168,56	4,865.00	-344.00	1,663 07	1,579,91	83.16	19,999		



Anticollision Report



Company:

Matador Resources

Project:

Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E

Reference Site: Site Error:

0.00 usft

Reference Well: Well Error: 124H 0.00 usft

Reference Wellbore

ОН

Reference Design:

Preliminary Plan 1

Local Co-ordinate Reference:

TVD Reference:

Well 124H

RKB @ 3128.50usft (Patterson 297)

MD Reference:

RKB @ 3128.50usft (Patterson 297)

North Reference: Gr

Survey Calculation Method:

Minimum Curvature

Output errors are at

2.00 sigma

Database:

Compass 5000 GCR

Offset TVD Reference: Reference Datum

	sign		-	rederar 5 i-	200-20L	20011-01	H - Preliminary	i lan i					Offset Site Error:	0 00 u
rvey Prog Refer		NH+CWM+XH Offs		Semi Major	A vie				Dista	nce.			Offset Well Error:	0.00 u
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	vvag	
(usft)	(usft)	(usft)	(usft)	(usft)	(usit)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	30.00	30.00					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	30.00	30.00	29.74	0.26	115.432		
200.00	200.00	200 00	200.00	0.49	0.49	90.00	0.00	30 00	30.00	29.02	0.98	30 711		
300.00	300.00	300.00	300.00	0.85	0.85	90 00	0.00	30.00	30.00	28.31	1.69	17.712		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	30.00	30.00	27 59	2.41	12.444		
500.00	500.00	500.00	500.00	1.56	1 56	90.00	0.00	30.00	30 00	26 87	3.13	9.592		
600.00	600.00	600.00	600.00	1.92	1.92	90.00	0.00	30.00	30.00	26.16	3.84	7.803		
700.00	700.00	700.00	700.00	2.28	2.28	90.00	0.00	30.00	30.00	25.44	4 56	6.577		
800.00	800.00	800.00	800.00	2 64	2.64	90.00	0.00	30.00	30.00	24.72	5.28	5.683		
900.00	900.00	900,00	900.00	3.00	3 00	90.00	0.00	30.00	30.00	24.00	6.00	5.004		
1,000 00	1,000.00	1,000.00	1,000.00	3.36	3 36	90.00	0.00	30.00	30 00	23.29	6.71	4 469 C	C, ES	
1,100.00	1,099.99	1,099.50	1,099.48	3.70	3.70	-112.77	-1.01	30.81	31.31	23 92	7.39	4.235		
1,200.00	1,199.91	1,198.89	1,198.80	4.03	4 03	-113.61	-4.05	33.23	35.25	27.20	8.05	4.378		
1,266.37	1,266.16	1,264.75	1,264.54	4.25	4.25	-114.30	-7.17 0.00	35.72 37.17	39.32	30.83	8.49	4.630		
1,300.00	1,299.70 1,399.46	1,298.28	1,297.98	4.36	4.36	-114.64 -115.49	-9.00 14.44	37.17	41.68	32.97	8.72 9.40	4.781 5.185		
1,400.00	1,399.46	1,398.03	1,397.49	4.70	4.70	-115.48	-14 44	41.51	48.73	39.33	9.40	3, 103		
1,500.00	1,499.22	1,497.78	1,497.00	5.05	5.05	-116.10	-19.88	45.85	55.78	45.69	10.08	5.531		
1,600.00	1,598.97	1,597.53	1,596.50	5.39	5.40	-116.58	-25.32	50.18	62.83	52.05	10.78	5 830		
1,700.00	1,698.73	1,697.28	1,696.01	5.75	5.75	-116.97	-30.76	54.52	69.89	58.41	11,48	6.090		
1,800.00	1,798.49	1,797.03	1,795.52	6.10	6 10	-117 28	-36.20	58.85	76.95	64.77	12.18	6.317		
1,900.00	1,898.24	1,896.78	1,895.03	6.46	6 46	-117 55	-41.64	63,19	84.01	71.12	12,89	6.518		
2,000.00	1,998 00	1,996.53	1,994.53	6.81	6.82	-117 77	-47.08	67.53	91.07	77.47	13.60	6.697		
2,100.00	2,097.76	2,096.28	2,094.04	7.17	7.18	-117.96	-52 52	71,86	98.14	83.83	14.31	6.856		
2,200.00	2,197.51	2,196.02	2,193.55	7.53	7.54	-118.12	-57.96	76.20	105.20	90.18	15.03	7.000		
2,300.00	2,297.27	2,295.77	2,293.05	7.90	7.90	-118.26	-63.40	80.54	112 27	96.52	15.75	7.129		
2,400.00	2,397.03	2,395.52	2,392.56	8.26	8 26	-118.39	-68.84	84.87	119.34	102 87	16.47	7.246		
2,500.00	2,496.79	2,495.27	2,492.07	8.62	8.62	-118.50	-74.28	89.21	126.41	109.22	17.19	7.353		
2,600.00	2,596.54	2,595.02	2,591.57	8.99	8.99	-118.60	-79 72	93 54	133.47	115.56	17.91	7.451		
2,700.00	2,696.30	2,694.77	2,691.08	9.35	9.35	-118.69	-85.16	97.88	140.54	121.91	18.64	7.541		
2,800.00	2,796.06	2,794.52	2,790.59	9.72	9.72	-118.78	-90,60	102.22	147.61	128.25	19.36	7.623		
2,900.00	2,895 81	2,894.27	2,890.09	10.08	10.08	-118.85	-96.04	106.55	154.68	134 59	20.09	7.699		
3,000.00	2,995.57	2,994.02	2,989.60	10.45	10.45	-118.92	-101 48	110.89	161.75	140.93	20.82	7 770		
3,100.00	3,095.33	3,093.77	3,089.11	10.82	10.82	-118.98	-106 92	115.22	168.82	147.27	21.55	7.835		
3,142.66	3,137.88	3,136.32	3,131.55	10.97	10.97	-119.00	-109 24	117 07	171.84	149 98	21.86	7.862		
3,200.00	3,195,11	3,193.53	3,188.63	11.18	11,18	-118.96	-112.36 -117.80	119.56 123.90	175.68 181.41	153.40 158.40	22.28 23.01	7.886 7.884		
3,300.00	3,295.02	3,293.34	3,288.19	11.54	11.55	-118.32	-117 00	123.90	101.41	130.40	23 07	7.004		
3,400.00	3,395 01	3,393.14	3,387.74	11.89	11.92	-116.99	-123.24	128.24	185.96	162.24	23.72	7.839		
3,409.03	3,404.04	3,402.15	3,396.73	11.92	11.95	85.61	-123.73	128.63	186.32	162.53	23.79	7.833		
3,500.00	3,495.01	3,492.89	3,487.26	12.23	12.28	87.19	-128.68	132.57	189.96	165.54	24.42	7.778		
3,600.00	3,595.01	3,594.63	3,588.78	12.56	12.66	88.76	-133.81	136 66	193.81	168.68	25.13	7.713		
3,700.00	3,695.01	3,697.79	3,691.85	12.90	13.03	89.71	-136.99	139.20	196.23	170 39	25.83	7.595		
		0.05				** **				4=4	20.5-	7 100		
3,800.00	3,795.01	3,800.95	3,795.01	13.24	13.39	90.00	-138.00	140.00	197.00	170.47	26.53	7.426		
3,900.00	3,895.01	3,900.95	3,895.01	13.58	13.72	90.00	-138.00	140.00	197.00	169.80	27.20	7.241		
4,000.00	3,995 01	4,000.95	3,995.01	13.92	14.06	90.00	-138.00	140.00	197.00	169.12	27.88	7.065		
4,100 00	4,095.01	4,100.95	4,095.01	14.26	14.39	90.00	-138.00	140.00	197.00	168 44	28.56	6.897		
4,200.00	4,195.01	4,200.95	4,195.01	14.60	14.73	90.00	-138.00	140.00	197.00	167.76	29.24	6.737		
4,300.00	4,295.01	4,300.95	4,295.01	14.94	15.07	90.00	-138.00	140.00	197 00	167.07	29.93	6.583		
4,400.00	4,395.01	4,400.95	4,395.01	15.29	15.41	90.00	-138.00	140.00	197 00	166 39	30.61	6.436		
4,500.00	4,495.01	4,500.95	4,495.01	15.63	15.75	90.00	-138.00	140.00	197.00	165 70	31.30	6.295		
4,600.00	4,595.01	4,600.95	4,595.01	15.98	16.09	90.00	-138.00	140.00	197.00	165.02	31.98	6.159		
4,700.00	4,695.01	4,700.95	4,695.01	16.32	16.43	90.00	-138.00	140.00	197.00	164 33	32.67	6.030		
.,,	.,000.01	.,. 50.50	.,555.01	10.02	, 5.46	33.00	700.00	. ,						
4.800.00	4,795.01	4,800.95	4,795.01	16,67	16.78	90.00	-138.00	140.00	197.00	163.64	33.36	5.905		



Anticollision Report



Company: Matador Resources

Project: Eddy County, NM (NAD27 NME) Reference Site: Charlie Sweeney Federal 31-23S-28E

0.00 usft Site Error: Reference Well: 124H 0.00 usft Well Error:

Reference Wellbore ОН

Reference Design: Preliminary Plan 1 Local Co-ordinate Reference:

RKB @ 3128.50usft (Patterson 297) TVD Reference: RKB @ 3128.50usft (Patterson 297) MD Reference:

Well 124H

Grid North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at

2.00 sigma Database: Compass 5000 GCR

Offset TVD Reference: Reference Datum

Reference Measured Vertical Depth Depth Depth (usft) Depth Depth (usft) Depth Depth (usft) Depth Dept	Offset Well Error: Warning	0 00 usft
Measured Depth (ust) Dept	Warning	
Depth (usft) Dept	Warning	
\$\begin{array}{cccccccccccccccccccccccccccccccccccc		
5,100.00 5,095.01 5,100.95 5,095.01 17.71 17.81 90.00 -138.00 140.00 197.00 161.56 35.44 5.559 5,200.00 5,195.01 5,200.95 5,195.01 18.06 18.16 90.00 -138.00 140.00 197.00 160.87 3613 5.452 5,300.00 5,295.01 5,300.95 5,295.01 18.41 18.50 90.00 -138.00 140.00 197.00 160.17 36.83 5.349 5,400.00 5,395.01 5,400.95 5,395.01 18.75 18.85 90.00 -138.00 140.00 197.00 158.48 37.52 5.250 5,500.00 5,495.01 5,500.95 5,495.01 19.10 19.19 90.00 -138.00 140.00 197.00 158.78 38.22 5.155 5,600.00 5,595.01 5,695.01 19.45 19.45 49.00 -138.00 140.00 197.00 158.08 38.92 5.062 5,700.00 5,695.01		
5,200.00 5,195.01 5,200.95 5,195.01 18.06 18.16 90.00 -138.00 140.00 197.00 160.87 36.13 5,452 5,300.00 5,295.01 5,300.95 5,295.01 18.41 18.50 90.00 -138.00 140.00 197.00 160.17 36.83 5.349 5,400.00 5,395.01 5,400.95 5,395.01 18.75 18.85 90.00 -138.00 140.00 197.00 159.48 37.52 5.250 5,500.00 5,495.01 5,500.95 5,495.01 19.10 19.19 90.00 -138.00 140.00 197.00 158.78 38.22 5.155 5,600.00 5,595.01 19.45 19.54 90.00 -138.00 140.00 197.00 158.08 38.92 5.062 5,700.00 6,695.01 5,700.95 5,695.01 19.80 19.89 90.00 -138.00 140.00 197.00 157.39 39.61 4.973 5,800.05 5,795.01 5,895.01		
5,300.00 5,295.01 5,300.95 5,295.01 18.41 18.50 90.00 -138.00 140.00 197.00 160.17 36.83 5.349 5,400.00 5,395.01 5,400.95 5,395.01 18.75 18.85 90.00 -138.00 140.00 197.00 159.48 37.52 5.250 5,500.00 5,495.01 5,500.95 5,495.01 19.10 19.19 90.00 -138.00 140.00 197.00 158.78 38.22 5.155 5,600.00 5,595.01 5,595.01 19.45 19.54 90.00 -138.00 140.00 197.00 158.08 38.92 5.062 5,700.00 5,695.01 5,695.01 19.80 19.89 90.00 -138.00 140.00 197.00 157.39 39.61 4.973 5,800.00 5,795.01 5,895.01 20.15 20.24 90.00 -138.00 140.00 197.00 156.69 40.31 4.887 5,900.01 5,895.01 20.50 20.58		
5,400 00 5,395.01 5,400.95 5,395.01 18 75 18 85 90.00 -138.00 140.00 197.00 159.48 37 52 5.250 5,500.00 5,495.01 5,500.95 5,495.01 19.10 19 19 90.00 -138.00 140.00 197.00 158 78 38 22 5.165 5,600.00 5,595.01 5,600.95 5,595.01 19.80 19.89 90.00 -138.00 140.00 197.00 158.08 38.92 5.062 5,700.00 5,695.01 5,700.95 5,695.01 19.80 19.89 90.00 -138.00 140.00 197.00 157.39 39.61 4.973 5,800.00 5,795.01 5,805.01 19.80 19.89 90.00 -138.00 140.00 197.00 156.69 40.31 4.887 5,900.00 5,895.01 5,909.95 5,895.01 20.50 20.58 90.00 -138.00 140.00 197.00 155.99 41.01 4.804 6,000.00 6,995.01		
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6,200 00 6,195.01 6,200.95 6,195.01 21.56 21.63 90.00 -138.00 140.00 197.00 153.89 43.11 4.569 6,300.00 6,295.01 6,300.95 6,295.01 21.91 21.98 90.00 -138.00 140.00 197.00 153.19 43.81 4.496 6,400.00 6,395.01 6,400.95 6,395.01 22.26 22.33 90.00 -138.00 140.00 197.00 152.48 44.52 4.425 6,500.00 6,495.01 6,500.95 6,495.01 22.61 22.68 90.00 -138.00 140.00 197.00 151.78 45.22 4.357 6,600.00 6,595.01 6,600.95 6,595.01 22.96 23.03 90.00 -138.00 140.00 197.00 151.08 45.92 4.290 6,700.00 6,695.01 6,700.95 6,695.01 23.31 23.38 90.00 -138.00 140.00 197.00 150.38 46.62 4.225 6,800.00 6,795.01 6,800.95 6,795.01 23.67 23.73 90.00 -138.00 140.00 197.00 149.67 47.33 4,162		
6,300.00 6,395.01 6,300.95 6,295.01 21.91 21.98 90.00 -138.00 140.00 197.00 153.19 43.81 4.496 6,400.00 6,395.01 6,400.95 6,395.01 22.26 22.33 90.00 -138.00 140.00 197.00 152.48 44.52 4.425 6,500.00 6,495.01 6,500.95 6,495.01 22.61 22.68 90.00 -138.00 140.00 197.00 151.78 45.22 4.357 6,600.00 6,595.01 6,600.95 6,595.01 22.96 23.03 90.00 -138.00 140.00 197.00 151.08 45.92 4.290 6,700.00 6,695.01 6,700.95 6,695.01 23.31 23.38 90.00 -138.00 140.00 197.00 150.38 46.62 4.225 6,800.00 6,795.01 6,800.95 6,795.01 23.67 23.73 90.00 -138.00 140.00 197.00 149.67 47.33 4,162		
6,400.00 6,395.01 6,400.95 6,395.01 22.26 22.33 90.00 -138.00 140.00 197.00 152.48 44.52 4.425 6,500.00 6,495.01 6,500.95 6,495.01 22.61 22.68 90.00 -138.00 140.00 197.00 151.78 45.22 4.357 6,600.00 6,595.01 6,600.95 6,595.01 22.96 23.03 90.00 -138.00 140.00 197.00 151.08 45.92 4.290 6,700.00 6,695.01 6,700.95 6,695.01 23.31 23.38 90.00 -138.00 140.00 197.00 150.38 46.62 4.225 6,800.00 6,795.01 6,800.95 6,795.01 23.67 23.73 90.00 -138.00 140.00 197.00 149.67 47.33 4.162		
6,500.00 6,495.01 6,500.95 6,495.01 22.61 22.68 90.00 -138.00 140.00 197.00 151.78 45.22 4.357 6,600.00 6,595.01 6,600.95 6,595.01 22.96 23.03 90.00 -138.00 140.00 197.00 151.08 45.92 4.290 6,700.00 6,695.01 6,700.95 6,695.01 23.31 23.38 90.00 -138.00 140.00 197.00 150.38 46.62 4.225 6,800.00 6,795.01 6,800.95 6,795.01 23.67 23.73 90.00 -138.00 140.00 197.00 149.67 47.33 4.162		
6,600.00 6,595.01 6,600.95 6,595.01 22.96 23.03 90.00 -138.00 140.00 197.00 151.08 45.92 4.290 6,700.00 6,695.01 6,700.95 6,695.01 23.31 23.38 90.00 -138.00 140.00 197.00 150.38 46.62 4.225 6,800.00 6,795.01 6,800.95 6,795.01 23.67 23.73 90.00 -138.00 140.00 197.00 149.67 47.33 4.162		
6,600.00 6,595.01 6,600.95 6,595.01 22.96 23.03 90.00 -138.00 140.00 197.00 151.08 45.92 4.290 6,700.00 6,695.01 6,700.95 6,695.01 23.31 23.38 90.00 -138.00 140.00 197.00 150.38 46.62 4.225 6,800.00 6,795.01 6,800.95 6,795.01 23.67 23.73 90.00 -138.00 140.00 197.00 149.67 47.33 4.162		
6,700.00 6,695.01 6,700.95 6,695.01 23.31 23.38 90.00 -138.00 140.00 197.00 150.38 46.62 4.225 6,800.00 6,795.01 6,800.95 6,795.01 23.67 23.73 90.00 -138.00 140.00 197.00 149.67 47.33 4.162		
6,800.00 6,795.01 6,800.95 6,795.01 23.67 23.73 90.00 -138.00 140.00 197.00 149.67 47.33 4.162		
6,900.00 6,895.01 6,900.95 6,895.01 24.02 24.08 90.00 -138.00 140.00 197.00 148.97 48.03 4.101		
7,000.00 6,995.01 7,000.95 6,995.01 24.37 24.44 90.00 -138.00 140.00 197.00 148.26 48.74 4.042		
7,100.00 7,095.01 7,100.95 7,095.01 24.73 24.79 90.00 -138.00 140.00 197.00 147.56 49.44 3.985		
7,200.00 7,195.01 7,200.95 7,195.01 25.08 25.14 90.00 -138.00 140.00 197.00 146.85 50.15 3.929		
7,300.00 7,295.01 7,300.95 7,295.01 25.43 25.49 90.00 -138.00 140.00 197.00 146.15 50.85 3.874		
7,334.03 7,329.04 7,334.98 7,329.04 25.55 25.61 90.00 -138.00 140.00 197.00 145.91 51.09 3.856		
7,350.00 7,345.01 7,350.95 7,345.01 25.61 25.67 89.57 -138.00 140.00 197.00 145.79 51.20 3.847		
7,378.07 7,373.03 7,378.98 7,373.03 25.71 25.77 90.00 -138.00 140.00 196.99 145.59 51.40 3.833		
7,400.00 7,394.86 7,400.81 7,394.86 25.78 25.84 90.61 -138.00 140.00 197.00 145.45 51.55 3.822		
7,450.00 7,444.22 7,450.16 7,444.22 25.95 26.02 92.85 -138.00 140.00 197.25 145.36 51.89 3.801		
7,500.00 7,492.70 7,498.64 7,492.70 26.11 26.19 96.16 -138.00 140.00 198.24 146.05 52.19 3.798 SF		
7,550.00 7,539.93 7,545.87 7,539.93 26.27 26.35 100.31 -138.00 140.00 200.73 148.31 52.42 3.829		
7,600.00 7,585.56 7,591.50 7,585.56 26.42 26.51 104.98 -138.00 140.00 205.62 153.14 52.48 3.918		
7,650.00 7,629.23 7,635.18 7,629.23 26.57 26.67 109.80 -138.00 140.00 213.86 161.55 52.31 4.089		
7,700.00 7,670.63 7,676.57 7,670.63 26.71 26.81 114.39 -138.00 140.00 226.24 174.42 51.83 4.365		
7,750.00 7,709.42 7,715.36 7,709.42 26.85 26.95 118.46 -138.00 140.00 243.30 192.24 51.06 4.765		
7,800.00 7,745.31 7,751.26 7,745.31 26.99 27.08 121.77 -138.00 140.00 265.21 215.14 50.07 5.296		
7,850.00 7,776.04 7,783.99 7,779.04 27.13 27.19 124.18 -138.00 140.00 291.86 242.84 49.02 5.954		
7,900.00 7,807.35 7,813.30 7,807.35 27.27 27.30 125.56 -138.00 140.00 322.89 274.81 48.08 6.716		
7,950.00 7,833.03 7,838.97 7,833.03 27.41 27.39 125.80 -138.00 140.00 357.83 310.35 47.48 7.537		
8,000.00 7,854.86 7,860.81 7,854.86 27.56 27.46 124.72 -138.00 140.00 396.14 348.68 47.46 8.347		
8,050.00 7,872.70 7,878.64 7,872.70 27.71 27.53 122.03 -138.00 140.00 437.27 389.01 48.26 9.060		
8,100.00 7,886.39 7,892.34 7,886.39 27.87 27.58 117.29 -138.00 140.00 480.67 430.65 50.02 9.609		
8,150.00 7,895.85 7,901.79 7,895.85 28.03 27.61 109.88 -138.00 140.00 525.83 473.24 52.59 9.999		
8,200.00 7,900.99 7,906.93 7,900.99 28.20 27.63 99.20 -138.00 140.00 572.23 517.13 55.10 10.385		
8,234.03 7,902.00 7,907.94 7,902.00 28.32 27.63 90.00 -138.00 140.00 604.28 548.39 55.89 10.812		
8,300.00 7,902.00 7,907.94 7,902.00 28 56 27 63 90 00 -138.00 140.00 666.99 610.86 56.13 11 883		
8,400.00 7,902.00 7,907.94 7,902.00 28.98 27.63 90.00 -138.00 140.00 763.10 706.54 56.55 13.494		
8,500.00 7,902.00 7,907.94 7,902.00 29.47 27.63 90.00 -138.00 140.00 860.10 803.06 57.04 15.079		
8,600.00 7,902.00 7,907.94 7,902.00 30.02 27.63 90.00 -138.00 140.00 957.71 900.12 57.59 16.630		
8,700.00 7,902.00 7,907.94 7,902.00 30.62 27.63 90.00 -138.00 140.00 1,055.77 997.57 58.20 18 141		
8,800.00 7,902.00 7,907.94 7,902.00 31.29 27.63 90.00 -138.00 140.00 1,154.17 1.095.30 58.86 19.608		



Anticollision Report



Company:

Matador Resources

Project: Reference Site: Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E

Site Error:

0.00 usft

Reference Well: 124H Well Error: 0.00 usft

Reference Wellbore

Reference Design:

ОН Preliminary Plan 1

Local Co-ordinate Reference:

Well 124H

RKB @ 3128.50usft (Patterson 297) RKB @ 3128.50usft (Patterson 297)

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

Output errors are at

TVD Reference:

MD Reference:

2.00 sigma

Database:

Compass 5000 GCR

Offset TVD Reference:

Reference Datum

Offset De Survey Prog	-	Charlie X+MWD+HD0		Federal 31-	235-28E	- 208H - OI	d - Preliminary	Plan 1					Offset Site Error: Offset Well Error:	0 00 u
Refer	ence	Offse	et	Semi Major	Axis				Dista	ince				
leasured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbon	e Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)			
8,900.00	7,902.00	7,907.94	7,902.00	32.01	27.63	90.00	-138.00	140.00	1,252.82	1,193.24	59.58	21.028		
9,000.00	7,902.00	7,907.94	7,902.00	32.77	27.63	90.00	-138 00	140.00	1,351.66	1,291.32	60.35	22.399		
9,100.00	7,902.00	7,907.94	7.902.00	33 58	27.63	90 00	-138 00	140.00	1,450.67	1,389.51	61.16	23.721		
9,200.00	7,902.00	7,907.94	7,902.00	34.44	27 63	90 00	-138.00	140.00	1,549.80	1,487 79	62.01	24 993		
9,300.00	7,902.00	7,907.94	7,902.00	35.33	27.63	90.00	-138.00	140.00	1,649.04	1,586 14	62.90	26.216		
9,400.00	7,902.00	11,027.59	9,532.00	36.26	40 54	168.54	1,598.06	288.30	1,663.15	1,628.19	34.96	47.575		
9,500.00	7,902.00	11,127,59	9,532.00	37.22	41.37	168.54	1,698.06	289.15	1,663.14	1,626.92	36.23	45.910		
9,600.00	7,902.00	11,227.59	9,532.00	38.21	42.24	168.54	1,798.05	290.00	1,663.14	1,625 62	37 52	44.323		
9,700.00	7,902.00	11,327.59	9,532.00	39.23	43.14	168.54	1,898.05	290.85	1,663.14	1,624.29	38.85	42.814		
9,800.00	7,902.00	11,427.59	9,532.00	40.28	44.07	168.54	1,998.05	291.70	1,663.14	1,622.95	40.19	41.380		
9,900.00	7,902.00	11,527.59	9,532.00	41.35	45.03	168.54	2,098.04	292.54	1,663.13	1,621.58	41.56	40.019		
10,000.00	7,902.00	11,627.59	9,532.00	42.45	46.01	168.54	2,198.04	293.39	1,663.13	1,620.19	42.94	38.728		
10,100.00	7,902.00	11,727.59	9,532.00	43.56	47.01	168.55	2,298.03	294.24	1,663.13	1,618 78	44 35	37.502		
10,200.00	7,902.00	11,827.59	9,532.00	44.70	48.04	168.55	2,398.03	295.09	1,663.13	1,617.36	45 77	36.340		
10,300.00	7,902.00	11,927.59	9,532.00	45.85	49.09	168.55	2,498.03	295.94	1,663.12	1,615.93	47.20	35.236		
10,400.00	7,902.00	12,027.59	9,532.00	47.02	50.17	168 55	2,598.02	296.79	1,663.12	1,614 48	48.65	34.189		
10,500.00	7,902.00	12,127.59	9,532.00	48.21	51.25	168.55	2,698 02	297 63	1,663.12	1,613.02	50.10	33.194		
10,600.00	7,902.00	12,227.59	9,532.00	49.41	52.36	168.55	2,798.02	298.48	1,663.12	1,611.54	51.57	32.248		
10,700.00	7,902.00	12,327.59	9,532.00	50.62	53.49	168.55	2,898.01	299.33	1,663.12	1,610 06	53.05	31.349		
10,800.00	7,902.00	12,427.59	9,532.00	51 85	54.63	168.55	2,998.01	300.18	1,663.11	1,608 57	54.54	30,493		
10,900.00	7,902.00	12,527.59	9,532.00	53.08	55.78	168.55	3,098.01	301.03	1,663.11	1,607 07	56.04	29.679		
11,000.00	7,902.00	12,627.59	9,532.00	54.33	56 95	168.55	3,198.00	301.88	1,663.11	1,605.57	57.54	28.902		
11,100.00	7,902.00	12,727.59	9,532.00	55.59	58.13	168.55	3,298.00	302.72	1,663.11	1,604.05	59.05	28.162		
11,200.00	7,902.00	12,827.59	9,532.00	56.85	59.32	168.55	3,398.00	303.57	1,663.10	1,602.53	60.57	27 456		
11,300.00	7,902.00	12,927.59	9,532.00	58.13	60.52	168.55	3,497.99	304.42	1,663.10	1,601.00	62.10	26 782		
11,400.00	7,902.00	13,027.59	9,532.00	59.41	61.74	168,55	3,597.99	305.27	1,663.10	1,599.47	63.63	26.138		
44 500 00	7 000 00	40 407 50	0.520.00	60.70	62.00	460 55	2 607 00	206 40	1 663 10	1,597 93	65.16	25.521		
11,500.00	7,902.00	13,127.59	9,532.00	60.70	62.96	168.55	3,697.98 3,797.98	306.12 306.97	1,663.10	1,597.93	66.71	24.932		
11,600.00	7,902.00	13,227.59	9,532.00	62.00	64.20	168 55	•	305.97	1,663.09 1,663.09	1,596.39	68.25	24.932 24.367		
11.700.00	7,902.00	13,327.59	9,532.00	63.31	65.44	168.55 168.55	3,897.98					23.826		
11,800.00	7,902.00	13,427.59	9,532.00	64.62	66.69	168.55	3,997.97	308.66	1,663.09	1,593.29	69.80			
11,900.00	7,902.00	13,527.59	9,532.00	65.94	67.95	168.55	4,097.97	309.51	1,663.09	1,591.73	71.36	23.307		
12,000.00	7,902.00	13,627.59	9,532 00	67.26	69.22	168.55	4,197.97	310.36	1,663.08	1,590.17	72.91	22 809		
12,100.00	7,902.00	13,727.59	9,532.00	68.59	70.49	168.55	4,297.96	311.21	1,663.08	1,588.61	74.48	22.330		
12,200.00	7,902.00	13,827.59	9,532.00	69.92	71.77	168.55	4,397.96	312.05	1,663.08	1,587.04	76.04	21.871		
12,300.00	7,902.00	13,927.59	9,532.00	71.26	73.06	168.55	4,497.96	312.90	1,663.08	, 1,585 47	77.61	21.429		
12,400.00	7,902.00	14,027.59	9,532.00	72.60	74.36	168 55	4,597.95	313.75	1,663.08	1,583.89	79 18	21 004		
12,500.00	7,902.00	14,127.59	9,532.00	73.95	75.66	168.55	4,697.95	314.60	1,663.07	1,582.32	80.75	20.594		
12,600.00	7,902.00	14,227.59	9,532.00	75.30	76.96	168.55	4,797.94	315.45	1,663.07	1,580.74	82.33	20.200		
12,663.26	7,902.00	14,290.85	9,532.00	76.15	77.79	168.56	4,861.20	315.98	1,663.07	1,579.74	83.33	19.958		



Anticollision Report



Company:

Matador Resources

Project: Reference Site: Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E

Site Error:

0.00 usft

Reference Well:

124H

Well Error:

0.00 usft

Reference Wellbore

OH

Reference Design:

Preliminary Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well 124H

RKB @ 3128.50usft (Patterson 297) RKB @ 3128.50usft (Patterson 297)

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

Output errors are at Database:

2.00 sigma Compass 5000 GCR

Offset TVD Reference:

Reference Datum

ffset De	sign	Charlie	Sweeney	Federal 31-	23S-28E	- 224H - OH	d - Preliminary	Plan 1					Offset Site Error:	1 00 usft
urvey Prog		-IX+MWD+HD											Offset Well Error:	0.00 usft
Refer		Offs		Semi Major		****			Dista		A45	0		
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Waming	
0.00	0.00	0.00	1.00	0.00	0 00	-90.00	0.00	-60.00	60.01					
100.00	100.00	99.00	100.00	0.13	0 13	-90.00	0.00	-60 00	60.00	59.74	0.26	232.025		
200.00	200.00	199 00	200.00	0.49	0.48	-90.00	0.00	-60 00	60.00	59.03	0.97	61.649		
300.00	300.00	299.00	300.00	0.85	0.84	-90.00	0.00	-60.00	60 00	58.31	1.69	35.499		
400.00	400.00	399.00	400.00	1.21	1 20	-90.00	0 00	-60.00	60 00	57.59	2.41	24.926		
500.00	500.00	499 00	500.00	1.56	1.56	-90.00	0.00	-60.00	60.00	56.88	3.12	19.206		
600.00	600.00	599.00	600.00	1.92	1 92	-90 00	0.00	-60.00	60.00	56 16	3.84	15.621		
700.00	700.00	699.00	700.00	2.28	2.28	-90.00	0.00	-60.00	60.00	55.44	4.56	13.164		
800.00	800.00	799,00	800.00	2.64	2.64	-90,00	0.00	-60.00	60.00	54.73	5.27	11.375		
900.00	900.00	899.00	900.00	3.00	2.99	-90.00	0.00	-60.00	60.00	54.01	5.99	10.014		
1,000.00	1,000.00	999.00	1,000 00	3.36	3.35	-90.00	0.00	-60 00	60 00	53.29	6.71	8 943 CC		
1,100.00	1,099.99	1,097.58	1,098.57	3.70	3.69	68.22	-0.48	-61.15	60.67	53.28	7.39	8.208 ES		
1,200.00	1,199.91	1,196.09	1 197.00	4.03	4.03	70 09	-1.96	-64.64	62.77	54.72	8.05	7.796		
1,266.37	1,266.16	1,261.41	1,262.21	4.25	4.25	71.88	-3.48	-68.24	65.02	56.52	8.50	7.653		
1,300.00	1,299.70	1,294.49	1,295.19	4.36	4.37	72.82	-4.41	-70.45	66.47	57.75	8.72	7.622		
1,400.00	1,399 46	1,394 24	1,394.64	4.70	4.71	75.18	-7.45	-77.66	71.39	61 99	9.41	7.591		
1,500.00	1,499.22	1,494.08	1,494.17	5.05	5.06	77.24	-10.50	-84.88	76.42	66.33	10.10	7.569		
1,600.00	1,598 97	1,593.92	1,593.70	5.39	5.42	79.04	-13.54	-92.09	81.54	70.75	10.80	7.554		
1,700.00	1,698 73	1,693.75	1,693.23	5 75	5 78	80.63	-16.59	-99.31	86.73	75.23	11.50	7.542		
1,800.00	1,798 49	1,793.59	1,792.76	6.10	6 14	82.04	-19.64	-106.53	91.98	79.77	12.21	7.534		
1,900 00	1,898.24	1.893.43	1,892.29	6.46	6.50	83.30	-22.68	-113.75	97.27	84.35	12.92	7.529		
2,000.00	1,998.00	1,993.27	1,991.82	6 81	6.86	84.42	-25.73	-120.96	102.61	88.98	13.64	7.525		
2,100.00	2,097.76	2,093 11	2,091.35	7.17	7 22	85.44	-28.77	-128.18	107.99	93.63	14.35	7.523		
2,200.00	2,197.51	2,192.95	2,190.88	7.53	7.59	86.35	-31.82	-135.40	113.39	98.31	15.08	7.521		
2,300.00	2,297.27	2,292.78	2,290.41	7.90	7.95	87.19	-34.86	-142.61	118.82	103.02	15,80	7.521		
2,400.00	2,397 03	2.392.62	2,389.94	8.26	8.32	87.95	-37.91	-149.83	124.28	107.75	16.52	7.520		
2,500.00	2,496.79	2,492.46	2,489 48	8 62	8 69	88 64	-40.95	-157.05	129.75	112 50	17.25	7.521		
2,600.00	2,596.54	2,592.30	2,589.01	8.99	9 05	89.28	-44 00	-164.26	135.24	117.26	17 98	7.522		
2,700.00	2,696.30	2,692.14	2,688.54	9.35	9.42	89.87	-47.05	-171.48	140 75	122.04	18.71	7.523		
2,800.00	2,796 06	2,791.75	2,787.84	9.72	9 79	90.42	-50.09	-178.69	146.27	126 83	19.44	7.525		
2,900.00	2,895 81	2,888.89	2,884.56	10.08	10.15	90.51	-53.61	-187.04	152.84	132.68	20.16	7 580		
3,000.00	2,995.57	2,985 75	2,980.73	10.45	10.52	89.97	-58.08	-197.62	161.17	140.28	20,89	7.716		
3,100.00	3,095.33	3,082.21	3,076.19	10.82	10.90	88.90	-63.47	-210.39	171 31	149.69	21.62	7.925		
3,142.66	3.137.88	3,123.21	3,116.65	10.97	11.06	88.32	-66.04	-216.49	176.20	154.28	21 93	8.036		
3,200.00	3,195.11	3,179.12	3,171.73	11.18	11 29	87.42	-69.78	-225.35	183.27	160.93	22,34	8,202		
3,300.00	3,295.02	3,278.03	3,269 13	11.54	11 68	85 36	-76.46	-241.17	196.01	172.94	23 07	8.496		
3,400.00	3,395.01	3,376.68	3,366.29	11.89	12.08	82.88	-83.12	-256.95	209.33	185.55	23.78	8.804		
3,409.03	3,404.04	3,385.58	3,375.05	11.92	12.12	-74.91	-83.72	-258.38	210 57	186.73	23.84	8,834		
3,500.00	3,495.01	3,475.17	3,463.27	12.23	12.48	-77.40	-89.77	-272.71	223.30	198.84	24.46	9 128		
3,600 00	3,595.01	3,573.65	3,560.26	12.56	12 89	-79.81	-96.41	-288.46	237.72	212.57	25 15	9,451		
3,700.00	3,695.01	3,672.13	3,657.24	12 90	13 29	-81.96	-103.06	-304.22	252.51	226.67	25.85	9.770		
3,800.00	3,795.01	3,770.61	3,754 23	13.24	13.70	-83.86	-109.71	-319.97	267.61	241.07	26.54	10.084		
3,900.00	3,895.01	3,870 05	3,852,17	13.58	14.11	-85.57	-116.41	-335.85	282.95	255.71	27.24	10.389		
4,000.00	3,995 01	3,976.04	3,956.86	13.92	14 54	-87.05	-122.85	-351.10	296.96	269.00	27.96	10.622		
‡,1 00 .00	4,095 01	4,082.89	4,062.81	14 26	14 96	-88.17	-128.19	-363.76	308.60	279 92	28.68	10.760		
4,200.00	4,195.01	4,190 43	4,169.80	14.60	15.37	-88,99	-132.41	-373.74	317.79	288.39	29.41	10,806		
4,300.00	4,295.01	4,298.49	4,277.57	14.94	15.77	-89.55	-135.46	-380 97	324.45	294 32	30 14	10 766		
4,400.00	4,395 01	4,406.92	4,385.89	15 29	16 16	-89.88	-137.33	-385.40	328 53	297 66	30.86	10.645		
4,500.00	4,495.01	4,515.53	4,494.49	15.63	16.54	-90 00	-138.00	-386.99	330.00	298 41	31 59	10.447		
4,600.00	4,595.01	4,616.05	4,595.01	15.98	16.87	-90.00	-138.00	-387.00	330.00	297.73	32 27	10.226		
4,700.00	4,695.01	4,716 05	4.695.01	16.32	17.20	-90.00	-138.00	-387 00	330.00	297.05	32.95	10.014		
4,800.00	4,795.01	4,816.05	4,795.01	16.67	17.53	-90.00	-138.00	-387.00	330.00	296.36	33.64	9.811		



Anticollision Report



Company:

Matador Resources

Project: Reference Site:

Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E

Site Error:

0.00 usft

Reference Well:

124H

Well Error:

0.00 usft

Reference Wellbore Reference Design:

ОН Preliminary Plan 1 Local Co-ordinate Reference:

Well 124H

TVD Reference: MD Reference:

RKB @ 3128.50usft (Patterson 297) RKB @ 3128.50usft (Patterson 297)

North Reference:

Survey Calculation Method:

Minimum Curvature

Output errors are at

2.00 sigma

Database: Offset TVD Reference: Compass 5000 GCR

Reference Datum

Offset De	-			Federal 31-	23S-28E	- 224H - Ol	H - Preliminary	Plan 1					Offset Site Error:	0 00 usft
urvey Prog		HX+MWD+HD		Comitted	• !				Diete				Offset Well Error:	0 00 usfi
Refer Neasured	rence Vertical	Offs Measured	et Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	a Cantra	Dista Between	nce Between	Minimum	Separation	****	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usit)	Factor	Warning	
												0.045		
4,900 00	4,895.01	4,916.05	4,895 01	17.01	17.86	-90.00	-138.00	-387 00	330.00	295.68	34.32	9.615		
5,000.00	4,995.01	5,016.05	4,995.01	17.36	18.19	-90.00	-138.00	-387.00	330 00	294.99	35.01 35.69	9.427		
5,100.00	5,095.01	5,116.05	5,095.01	17,71	18.52	-90.00	-138 00	-387.00	330.00	294.31		9.245		
5,200.00	5,195.01	5,216.05	5,195.01	18.06	18.85	-90.00	-138.00	-387 00	330.00	293.62	36.38	9.071		
5,300.00	5,295.01	5,316.05	5,295.01	18.41	19 19	-90.00	-138.00	-387.00	330.00	292.93	37.07	8.902		
5,400.00	5,395.01	5,416.05	5,395.01	18.75	19 52	-90.00	-138.00	-387.00	330.00	292.24	37.76	8.739		
5,500.00	5,495,01	5,516.05	5,495.01	19.10	19.86	-90.00	-138.00	-387.00	330.00	291.55	38.45	8.582		
5,600.00	5,595.01	5,616.05	5,595.01	19.45	20.20	-90.00	-138.00	-387 00	330.00	290.86	39.14	8.430		
5,700.00	5,695.01	5,716.05	5,695.01	19.80	20.53	-90.00	-138.00	-387.00	330.00	290.16	39.84	8.284		
5,800.00	5,795.01	5,816.05	5,795.01	20.15	20.87	-90,00	-138 00	-387.00	330.00	289.47	40.53	8.142		
5,900.00	5,895.01	5,916.05	5,895.01	20.50	21.21	-90.00	-138.00	-387.00	330.00	288.77	41.23	8.005		
0.000.00	C 00E 04	C 04C 05	F 00F 04	20.05	04.55	00.00	400.00	207.00	220.00	200.00	44.00	7 070		
6,000.00	5,995.01	6,016.05	5,995.01	20.85	21.55	-90.00	-138.00	-387.00 -387.00	330.00	288.08 287.38	41.92 42.62	7.872 7.743		
6,100.00	6,095.01	6,116.05	6,095.01	21.20	21.89	-90.00	-138.00		330.00					
6,200.00	6,195.01	6,216.05	6,195.01	21.56	22.23	-90.00	-138.00 138.00	-387.00 -387.00	330 00 330.00	286.69 285.99	43.31 44.01	7.619 7.498		
6,300.00 6,400.00	6,295.01 6,395.01	6,316.05 6,416.05	6,295.01 6,395.01	21.91	22.57 22.92	-90.00 -90.00	-138.00 -138.00	-387.00	330.00	285.99	44.71	7.498 7.381		
0,400.00	0,393.01	U ₁ 4 (U.U5	0,385.01	22.26	22.92	-90.00	~130.00	-301.00	330.00	203.29	**.11	1.301		
6,500.00	6,495.01	6,516.05	6,495 01	22.61	23.26	-90.00	-138.00	-387 00	330.00	284.59	45.41	7.267		
6,600.00	6,595.01	6,616.05	6,595.01	22.96	23.60	-90.00	-138.00	-387.00	330.00	283.89	46.11	7,157		
6,700.00	6,695.01	6,716.05	6,695 01	23.31	23 94	-90.00	-138.00	-387.00	330.00	283.19	46 81	7.050		
6,800.00	6,795.01	6,816.05	6,795.01	23.67	24.29	-90.00	-138.00	-387.00	330.00	282 49	47 51	6.946		
6,900.00	6,895.01	6,916.05	6,895.01	24.02	24.63	-90.00	-138.00	-387.00	330.00	281 79	48.21	6.845		
7,000.00	6,995.01	7,016.05	6,995.01	24.37	24.98	-90.00	-138.00	-387 00	330.00	281 09	48.91	6.747		
7,100.00	7,095.01	7,116.05	7,095.01	24.73	25.32	-90.00	-138.00	-387.00	330.00	280.39	49.61	6.652		
7,200.00	7,195.01	7,216.05	7,195.01	25.08	25.67	-90.00	-138.00	-387.00	330.00	279.69	50.31	6.559		
7,300.00	7,295.01	7,316.05	7,295.01	25.43	26.01	-90 00	-138.00	-387.00	330.00	278.98	51.02	6.469		
7,334.03	7,329.04	7,350.09	7,329.04	25.55	26.13	-90.00	-138.00	-387.00	330.00	278.75	51.25	6.438		
7,350.00	7,345.01	7,366.05	7,345.01	25.61	26.19	-90.53	-138.00	-387.00	330.00	278.63	51.37	6.424		
7,400.00	7,394.86	7,415.91	7,394.86	25.78	26.36	-90,55	-138 00	-387.00	330.05	278.34	51.71	6.383		
7,450.00	7,444.22	7,465.26	7,444.22	25.95	26.53	-92.47	-138.00	-387.00	330.31	278.28	52.03	6.348		
7,500.00	7,492.70	7,513.74	7,492.70	26.11	26.70	-94.44	-138.00	-387.00	331.07	278.74	52.33	6.327 SF		
7,550.00	7,539.93	7,560.98	7,539.93	26.27	26.86	-96.92	-138 00	-387.00	332.79	280 21	52.57	6.330		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,	7,000.00	7,000.00	20.21	20.00	55.52	135 00	331.00	502.75	2002	02.57	5.55		
7,600.00	7,585.56	7,606 61	7,585.56	26.42	27.02	-99.76	-138.00	-387 00	336.04	283.30	52.73	6.372		
7,650.00	7,629.23	7,650.28	7,629.23	26.57	27.17	-102.77	-138.00	-387.00	341.46	288.68	52.78	6.469		
7,700.00	7,670.63	7,691.67	7,670.63	26.71	27.31	-105.73	-138.00	-387.00	349.71	297.03	52.68	6.638		
7,750.00	7,709.42	7,730.46	7,709.42	26.85	27.45	-108.46	-138.00	-387.00	361.38	308.94	52.43	6.892		
7,800.00	7,745 31	7,766.36	7,745 31	26.99	27.57	-110 77	-138 00	-387.00	376.90	324.83	52.07	7 239		
7 050 00	7 770 07	7 700 00	7 770 04	07.10	07.00	440.40	*******	207.00	200 52	244.00	C4 00	7.070		
7,850.00	7,778 04	7,799.09	7,778.04	27.13	27.69	-112.49	-138.00	-387.00	396.53	344.88	51.66	7.676		
7,900.00	7,807 35	7,828.40	7,807.35	27 27	27.79	-113.48	-138.00	-387.00	420.34	369.02	51.31	8.192		
7,950.00	7,833.03	7,854 07	7,833.03	27.41	27.88	-113.61	-138.00	-387 00	448.17	397.00	51.16 51.24	8.760		
8,000.00	7,854.86	7,875.91	7,854.86	27.56	27.95	-112.74	-138 00	-387.00	479.74	428.39	51.34	9.344		
8,050.00	7,872.70	7,893.74	7,872.70	27.71	28.02	-110.70	-138.00	-387.00	514.63	462.68	51.95	9.907		
8,100.00	7,886.39	7,907 44	7,886.39	27.87	28.06	-107.28	-138.00	-387.00	552.38	499.39	52.99	10 425		
8,150.00	7,895.85	7,916.89	7,895.85	28.03	28.10	-102.29	-138.00	-387 00	592.47	538.15	54.32	10.907		
8,200.00	7,900.99	7,922.03	7,900.99	28.20	28.12	-95.57	-138.00	-387.00	634.37	578.81	55.56	11.418		
8,234.03	7,902.00	7,923.05	7,902.00	28.32	28.12	-90.00	-138.00	-387.00	663.65	607.60	56.05	11.841		
8,300.00	7,902.00	7,923.05	7,902.00	28.56	28.12	-90.00	-138.00	-387.00	721.63	665.34	56.29	12.821		
1,223,00	.,	.,	.,	20.00			. • • • • •							
8,400.00	7,902.00	7,923.05	7,902.00	28 98	28.12	-90.00	-138.00	-387.00	811.85	755 14	56,71	14.316		
8,500.00	7,902.00	7,923.05	7,902.00	29 47	28.12	-90.00	-138.00	-387.00	904.13	846.94	57.20	15.808		
8,600.00	7,902.00	7,923.05	7,902.00	30.02	28.12	-90.00	-138.00	-387.00	997.90	940.16	57.74	17.281		
8,700.00	7,902.00	7,923.05	7,902.00	30.62	28.12	-90.00	-138.00	-387.00	1,092.78	1,034.42	58.35	18.727		
8,800.00	7,902.00	7,923,05	7,902.00	31.29	28.12	-90.00	-138.00	-387 00	1,188.49	1,129.47	59.02	20.138		
8,900.00	7,902.00	7.923.05	7,902.00	32.01	28.12	-90.00	-138.00	-387.00	1,284.86	1,225.13	59.74	21.509		



Anticollision Report



Company:

Matador Resources

Project: Reference Site: Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E

Site Error: Reference Well: 0.00 usft

Well Error:

124H 0.00 usft

Reference Wellbore

ОН

Reference Design:

Preliminary Plan 1

Local Co-ordinate Reference:

Well 124H

RKB @ 3128.50usft (Patterson 297)

TVD Reference: MD Reference:

RKB @ 3128.50usft (Patterson 297)

North Reference:

Survey Calculation Method:

Minimum Curvature 2.00 sigma

Output errors are at

Database: Offset TVD Reference: Compass 5000 GCR Reference Datum

Offset De	sign	Charlie	Sweeney	Federal 31-	23S-28E	- 224H - Ol	H - Preliminary	Plan 1					Offset Site Error:	0.00 usf
Survey Prog	ram: 0-P	HX+MWD+HD	GM										Offset Well Error:	0 00 usf
Refer	rence	Offs	et	Semi Major	Axis				Dist	ance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,000.00	7 000 00	7 007 05	7 000 00	20.77	20.42	-90.00	-138.00	-387.00	1,381.74	1,321.24	60.50	22.839		
9,100.00	7,902.00 7,902.00	7,923.05 7,923.05	7,902.00 7,902.00	32.77 33.58	28.12 28.12		-138.00	-387.00	1,479.04	1,321.24	61.31	24.123		
9,100.00	7,902.00	7,923.05	7,902.00	34.44		-90.00	-138.00	-387.00	1,576.68	1,514.52	62.16	25,363		
9,300.00	7,902.00	7,923.05			28.12	-90.00	-138.00	-387.00	1,674.60	1,611.54	63.06	26,557		
9,400.00	7,902.00	7,923.05	7,902.00 7,902.00	35.33 36.26	28.12 28.12	-90.00 -90.00	-138.00	-387.00	1,772.75	1,708.76	63.99	27.706		
9,500.00	7,902.00						-138.00	-387.00	1,871.09	1,806.14	64.95	28.809		
9,500.00	7,902.00	7,923.05	7,902.00	37 22	28.12	-90.00	+130.00	-367.00	1,071.09	1,000.14	04.90	20.009		
9,600.00	7,902.00	7,923,05	7,902.00	38.21	28.12	-90,00	-138.00	-387 00	1,969.60	1,903.66	65.94	29.869		
9,700.00	7,902.00	7,923.05	7,902.00	39.23	28 12	-90.00	-138.00	-387.00	2,068.26	2,001.29	66.96	30.887		
9,800.00	7,902.00	7,923.05	7,902.00	40.28	28.12	-90.00	-138.00	-387.00	2,167.03	2,099.02	68.01	31.863		
9,900 00	7,902.00	7,923.05	7,902.00	41.35	28.12	-90,00	-138.00	-387.00	2,265.92	2,196.84	69.08	32.800		
10,000.00	7,902.00	7,923.05	7,902.00	42.45	28.12	-90.00	-138.00	-387.00	2,364.90	2,294.72	70.18	33.699		
10,100.00	7,902.00	12,506.02	10,301.00	43.56	49.24	-172.17	2,303.68	-366.03	2,421.59	2,377.75	43.84	55.235		
10,200.00	7,902.00	12,606.02	10,301.00	44.70	50.24	-172.17	2,403.67	-365.17	2,421.59	2,376.38	45.22	53.555		
10,300.00	7,902.00	12,706.02	10,301.00	45.85	51 26	-172.17	2,503.67	-364 31	2,421.59	2,374.99	46.61	51.958		
10,400.00	7,902.00	12,806.02	10,301.00	47.02	52.29	-172.17	2,603.66	-363.45	2,421.59	2,373.58	48.01	50.440		
10,500.00	7,902.00	12,906.02	10,301.00	48.21	53.35	-172.17	2,703.66	-362 59	2,421.59	2,372.17	49.42	48.997		
10,600.00	7,902.00	13,006.02	10,301.00	49.41	54.43	-172.17	2,803.66	-361.73	2,421.59	2,370.74	50.85	47.623		
10,700 00	7,902.00	13,106.02	10,301.00	50.62	55.52	-172.17	2,903.65	-360.87	2,421.59	2,369.31	52.28	46.315		
10,800.00	7,902.00	13,206.02	10,301.00	51.85	56.63	-172.17	3,003.65	-360.01	2,421.59	2,367 86	53.73	45.070		
10,900.00	7,902.00	13,306.02	10,301.00	53.08	57 75	-172.17	3,103.65	-359.15	2,421.59	2,366 41	55.18	43.883		
11,000.00	7,902.00	13,406.02	10,301.00	54.33	58.89	-172.17	3,203.64	-358.29	2,421 59	2,364.95	56.65	42.750		
11,100.00	7,902.00	13,506.02	10,301.00	55.59	60.04	-172.17	3,303.64	-357 43	2,421.59	2,363.48	58.11	41.670		
11,200.00	7,902 00	13,606.02	10,301.00	56.85	61.21	-172.17	3,403.63	-356.57	2,421.59	2,362.00	59.59	40.637		
11,300.00	7,902.00	13,706.02	10,301.00	58.13	62.38	-172.17	3,503.63	-355.71	2,421.59	2,360 52	61.07	39.651		
11,400.00	7,902.00	13,806.02	10,301.00	59.41	63.57	-172.17	3,603 63	-354.85	2,421.59	2,359.03	62.56	38.708		
11,500.00	7,902.00	13,906.02	10,301.00	60.70	64.77	-172.17	3,703.62	-353.99	2,421.59	2,357.54	64.05	37.805		
11,600.00	7,902.00	14,006.02	10,301.00	62.00	65.98	-172.17	3,803.62	-353.13	2,421.59	2,356.04	65.55	36.941		
11,700.00	7,902.00	14,106.02	10,301 00	63.31	67.20	-172 17	3,903.62	-352.27	2,421 59	2,354.53	67.06	36.112		
11,800.00	7,902.00	14,206.02	10,301.00	64.62	68.42	-172.17	4,003.61	-351.41	2,421.59	2,353.03	68.57	35.318		
11,900.00	7,902.00	14,306.02	10,301.00	65.94	69.66	-172.17	4,103.61	-350.55	2,421 59	2,351 51	70.08	34.556	•	
12,000.00	7,902.00	14,406.02	10,301.00	67.26	70.91	-172.17	4,203.60	-349.69	2,421.59	2,350.00	71.59	33.824		
12,100.00	7,902.00	14,506.02	10,301.00	68.59	72.16	-172.17	4,303.60	-348 83	2,421.59	2,348.48	73.11	33.120		
12,200.00	7,902.00	14,606.02	10,301.00	69.92	73.42	-172.17	4,403.60	-347.97	2,421.59	2,346.95	74.64	32.444		
12,300.00	7,902.00	14,706.02	10,301.00	71.26	74.68	-172.17	4,503.59	-347.11	2,421.59	2,345 43	76.17	31 794		
12,400.00	7,902.00	14,806.02	10,301.00	72.60	75.96	-172.17	4,603.59	-346.25	2,421.59	2,343.90	77.70	31.168		
12,500.00	7,902.00	14,906.02	10,301.00	73.95	77.24	-172.17	4,703.59	-345.39	2,421.59	2,342.36	79.23	30.565		
12,600.00	7,902.00	15,006.02	10,301.00	75.30	78.52	-172.17	4,803.58	-344.53	2,421.59	2,340.83	80.76	29 983		
12,646.89	7,902.00	15,052.91	10,301.00	75.93	79.13	-172.17	4,850.47	-344.12	2,421.59	2,340.10	81.49	29.718		
12,663.26	7,902.00	15,068.02	10,301.00	76.15	79.33	-172.17	4,865 58	-344.00	2,421.59	2,339.86	81.73	29 631		



Anticollision Report



Company:

Site Error:

Matador Resources

Project:

Eddy County, NM (NAD27 NME)

Reference Site:

Charlie Sweeney Federal 31-23S-28E

Reference Well:

124H

Well Error:

0.00 usft

Reference Wellbore

ОН

Reference Design:

Preliminary Plan 1

Local Co-ordinate Reference:

e:

RKB @ 3128.50usft (Patterson 297)

TVD Reference: RKE

RKB @ 3128.50usft (Patterson 297)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: Compass 5000 GCR
Offset TVD Reference: Reference Datum

rvey Progr Refere		HX+MWD+HD											Offset Well Error:	0 00 u
	елсе	Offs	et	Semi Major	Axis				Dista	nce				
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor		Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90 00	0.00	60.00	60.00					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	60.00	60.00	59.74	0.26	230 865		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	60 00	60.00	59.02	0.98	61.423		
300.00	300.00	300.00	300.00	0.85	0 85	90.00	0.00	60.00	60.00	58.31	1.69	35.424		
400.00	400.00	400.00	400.00	1.21	1 21	90.00	0.00	60.00	60.00	57.59	2.41	24.889		
500.00	500.00	500.00	500.00	1.56	1.56	90.00	0.00	60.00	60.00	56 87	3,13	19.184		
600.00	600.00	600.00	600.00	1 92	1 92	90.00	0.00	60.00	60.00	56.16	3,84	15.606		
700.00	700.00	700.00	700.00	2.28	2.28	90.00	0 00	60.00	60.00	55.44	4.56	13.153		
800.00	800.00	800.00	800 00	2.64	2.64	90.00	0.00	60.00	60.00	54.72	5 28	11.367		
900.00	900.00	900.00	900.00	3.00	3 00	90.00	0.00	60.00	60.00	54.00	6.00	10.008		
1,000.00	1,000.00	1,000.00	1,000.00	3 36	3.36	90.00	0 00	60.00	60.00	53.29	6.71	8.939 C	C, ES	
1,100.00	1,099.99	1,098.67	1,098.66	3 70	3.70	-112.89	-0.69	61.07	61.59	54.19	7.39	8.329		
1,200.00	1,199.91	1,197.18	1,197.09	4.03	4.03	-114.09	-2.77	64.27	66.36	58.31	8.05	8.241		
1,266.37	1,266.16	1,262.40	1,262 19	4.25	4.25	-115.15	-4.90	67 56	71.31	62.82	8.49	8.396		
1,300.00	1,299.70	1,295.82	1,295.54	4.36	4 36	-115.73	-6.17	69.52	74.21	65.49	8.72	8.510		
1,400.00	1,399.46	1,395.43	1,394.90	4.70	4.71	-117.21	-9.94	75.35	82.89	73.49	9.40	8.819		
4 500 00	4 400 00	4 405 00	1 404 00	6.00	£ 00	440 44	40.70	04.40	04.64	04 50	10.09	9.083		
1,500.00	1,499.22	1,495.03	1,494 26	5.05	5.06	-118.41	-13.72	81.18	91.61	81.52 89.58	10.09	9.003		
1,600.00	1,598.97	1,594.63	1,593.62 1,692.98	5.39 5.75	5.41	-119.40 -120.23	-17.50 -21.28	87.01 92.84	100.36 109.14	97.66	11.48	9.509		
1,700.00 1,800.00	1,698.73 1,798.49	1,694.23 1,793.84	1,792.34	6.10	5.76 6 12	-120.23	-21.26	98.67	117.94	105.76	12.18	9.683		
1,900.00	1,898.24	1,893.44	1,891.70	6 46	6.47	-121.55	-28.83	104.50	126.75	113 86	12.89	9.836		
1,000.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,	11		• • • • • • • • • • • • • • • • • • • •									
2,000.00	1,998.00	1,993.04	1,991.06	6.81	6.83	-122.08	-32.61	110.33	135 58	121.98	13.60	9.972		
2,100.00	2,097.76	2,092.64	2,090.42	7.17	7.19	-122.54	-36,39	116.16	144.41	130.10	14,31	10.094		
2,200.00	2,197.51	2,192.25	2,189.78	7.53	7.55	-122.96	-40.17	121.99	153.25	138.23	15.02	10.203		
2,300.00	2,297.27	2,291.85	2,289 14	7.90	7.91	-123.32	-43.95	127.83	162.11	146.37	15.74	10.301		
2,400.00	2,397.03	2,391.45	2,388.50	8.26	8.28	-123.65	-47.72	133.66	170.96	154.51	16.45	10.390		
2,500.00	2,496.79	2,491.05	2,487.85	8.62	8 64	-123 95	-51.50	139.49	179.82	162.65	17.17	10.471		
2,600.00	2,596.54	2,590.66	2,587.21	8.99	9.00	-124 22	-55.28	145.32	188.69	170.80	17 89	10.545		
2.700.00	2,696.30	2,690.26	2,686.57	9.35	9.37	-124.46	-59.06	151.15	197.56	178.94	18.62	10.613		
2,800.00	2,796.06	2,788.40	2,784.46	9.72	9 73	-124 64	-62.88	157.06	206.57	187.24	19.33	10.685		
2,900.00	2,895.81	2,884.11	2,879.76	10.08	10.08	-124.43	-67.69	164.47	217.03	196.98	20.05	10.827		
3,000.00	2,995,57	2,979.38	2,974.37	10.45	10.44	-123.82	-73.75	173.83	229.26	208.50	20.76	11.043		
3,100.00	3,095.33	3,076.75	3,070.82	10 82	10.82	-122.92	-81.02	185.05	242.96	221.48	21.49	11 308		
3,142.66	3,137.88	3,118.96	3,112.62	10 97	10.98	-122.55	-84.22	189.98	248.89	227.09	21.80	11.417		
3,200.00	3,195.11	3,175.73	3,168.83	11 18	11.20	-122.10	-88.51	196.61	256.64	234.41	22.22	11.547		
3,300.00	3,295.02	3,274.77	3,266.91	11.54	11.59	-121.00	-96.01	208.18	269.15	246.19	22.96	11.722		
0.400.00	2 225 24	2 220 00	2.205.00	44.50	44.07	440.60	102 50	240.75	200 60	256.82	23.68	11.846		
3,400.00	3,395.01	3,373.82	3,365.00	11.89	11,97	-119.53	-103.50	219.75 220.80	280,50 281,47	257.73	23.75	11.854		
3,409.03	3,404.04	3,382.76	3,373.86 3,463.06	11.92 12.23	12 01 12.36	83.06 84.65	-104.18 -111 00	231.32	291.34	266.95	24.38	11.948		
3,500.00 3,600.00	3,495.01 3,595.01	3,472.85 3,572.51	3,463.06	12.23	12.35	86.29	-118,53	242.95	302.41	277.33	25.09	12 054		
3,700.00	3,695.01	3,678.69	3,667.13	12.90	13 16	87.72	-125.62	253.89	312.39	286.57	25.81	12.101		
3,800.00	3,795.01	3,785.53	3,773.48	13.24	13.57	88 77	-131.15	262.42	320.22	293.68	26 54	12.065		
3,900.00	3,895.01	3,892.85	3,880.56	13.58	13.96	89.48	-135.07	268.47	325.80	298.54	27.27	11.949		
4,000.00	3,995.01	4,000.50	3,988.12	13.92	14.35	89.89	-137.35	272.00	329.07	301.08	27.99	11 756		
4,100.00	4,095.01	4,107.40	4,095.01	14.26	14.71	90.00	-138.00	273.00	330.00	301.30	28.70	11 498		
4,200.00	4,195.01	4,207.40	4,195.01	14.60	15.05	90.00	-138.00	273.00	330.00	300.62	29,38	11.232		
4,300.00	4,295.01	4,307.40	4,295.01	14 94	15.38	90.00	-138.00	273 00	330.00	299 94	30.06	10.978		
4,400.00	4,395.01	4,407.40	4,395.01	15.29	15 72	90.00	-138.00	273.00	330.00	299.26	30.74	10.735		
4,500.00	4.495.01	4,507.40	4,495.01	15.63	16 05	90.00	-138.00	273.00	330.00	298.57	31 43	10.501		
4,600.00	4,595.01	4,607.40	4,595.01	15.98	16.39	90 00	-138.00	273.00	330.00	297.89	32.11	10.277		
4,700.00	4,695.01	4,707.40	4,695.01	16.32	16.73	90.00	-138.00	273.00	330.00	297.20	32.80	10.062		



Anticollision Report



Company:

Matador Resources

Project: Reference Site: Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E

Site Error:

0.00 usft

Reference Well:

124H

Well Error: Reference Wellbore 0.00 usft ОН

Reference Design:

Preliminary Plan 1

Local Co-ordinate Reference:

TVD Reference:

Well 124H

RKB @ 3128.50usft (Patterson 297)

MD Reference:

RKB @ 3128.50usft (Patterson 297)

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

Output errors are at

Offset TVD Reference:

2.00 sigma

Database:

Compass 5000 GCR

Reference Datum

Offset De	-			Federal 31-	23S-28E	- 228H - OI	H - Preliminary	Plan 1					Offset Site Error:	0 00 usft
Survey Prog		HX+MWD+HD		Cami Maia-	Avie				Diese	nce.			Offset Well Error:	0 00 usft
Refer Messured	ence Vertical	Offs Measured	et Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbon	e Centre	Dista Between	nce Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	(usft)		Toolface	+N/-S	+E/-W	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	र•असस्ति ु	
(usft)	(usft)	(usft)	(usft)	(usit)	(usft)	(°)	(usft)	(usft)						
4,900.00	4,895.01	4,907 40	4,895.01	17.01	17.41	90.00	-138.00	273.00	330 00	295.83	34.17	9.656		
5,000.00	4,995 01	5,007.40	4,995.01	17 36	17.75	90.00	-138.00	273.00	330.00	295.14	34.86	9.465		
5,100.00 5,200.00	5,095.01 5,195.01	5,107 40	5,095.01	17.71 18.06	18.0 9 18 43	90 00 90.00	-138 00 -138.00	273.00 273.00	330 00 330 00	294 44 293.75	35.56 36.25	9.281 9.104		
5,200.00	5,195 01	5,207.40 5,307.40	5,195.01 5,295.01	18.41	18 77	90.00	-138.00	273.00	330 00	293.75	36.23	8.933		
5,400.00	5,395.01	5,407 40	5,395.01	18.75	19.11	90.00	-138.00	273.00	330 00	292.37	37.63	8.769		
5,700.00	5,000.01	0,707 70	0,000.01	10.10	10.77	00.00	100.00	210.00				0.700		
5,500.00	5,495.01	5,507 40	5,495 01	19.10	19.46	90.00	-138.00	273.00	330.00	291.67	38.33	8.610		
5,600.00	5,595 01	5,607.40	5,595.01	19 45	19.80	90.00	-138.00	273.00	330.00	290.98	39.02	8.456		
5,700.00	5,695.01	5,707.40	5,695.01	19.80	20.15	90.00	-138.00	273.00	330.00	290.28	39.72	8.308		
5,800.00	5,795.01	5,807.40	5,795.01	20.15	20.49	90.00	-138.00	273.00	330 00	289.58	40.42	8.165		
5,900.00	5,895.01	5,907 40	5,895 01	20.50	20.84	90.00	-138.00	273 00	330.00	288.88	41 12	8.026		
6,000.00	5,995.01	6,007.40	5,995.01	20.85	21.18	90.00	-138.00	273.00	330 00	288 19	41.81	7.892		
6,100.00	6,095.01	6,107.40	6,095.01	21 20	21.53	90.00	-138.00	273.00	330.00	287.49	42.51	7.762		
6,200.00	6,195.01	6,207.40	6,195 01	21.56	21.87	90.00	-138.00	273.00	330.00	286.79	43.21	7.637		
6,300 00	6,295.01	6,307.40	6,295.01	21.91	22.22	90.00	-138.00	273.00	330.00	286 09	43.91	7.515		
6,400.00	6,395.01	6,407.40	6,395.01	22.26	22.57	90.00	-138.00	273.00	330.00	285 39	44 61	7.397		
6,500 00	6,495.01	6,507 40	6,495 01	22.61	22.92	90 00	-138.00	273.00	330.00	284.68	45.32	7 282		
6,600.00	6,495.01	6,507.40	6,495 01 6,595 01	22.61 22.96	23.26	90.00	-138.00	273.00	330.00	283.98	45.32	7.282 7.171		
6,700.00	6,695.01	6,707.40	6,695.01	23.31	23.61	90.00	-138.00	273.00	330.00	283.28	46 72	7.063		
6,800.00	6,795.01	6,807.40	6,795.01	23.67	23.96	90.00	-138.00	273.00	330.00	282.58	47 42	6.959		
6,900.00	6,895.01	6,907 40	6,895.01	24.02	24.31	90.00	-138.00	273.00	330.00	281.88	48.12	6.857		
	·	.,	•											
7,000.00	6,995 01	7,007.40	6,995.01	24.37	24 66	90.00	-138.00	273.00	330.00	281 17	48.83	6.758		
7,100.00	7,095.01	7,107.40	7,095.01	24.73	25 01	90.00	-138.00	273.00	330.00	280.47	49.53	6.662		
7,200.00	7,195.01	7,207.40	7,195.01	25.08	25.36	90.00	-138.00	273.00	330.00	279 76	50.24	6.569		
7,300.00	7,295.01	7,307 40	7,295.01	25.43	25.71	90.00	-138.00	273.00 273.00	330.00 330.00	279.06 278.82	50.94 51.18	6.478 6.448		
7,334.03	7,329.04	7,341.43	7,329.04	25.55	25.83	90.00	-138.00	273.00	330.00	270 02	31.10	0.440		
7,350.00	7,345.01	7,357.39	7,345.01	25.61	25 88	89.55	-138.00	273.00	330.00	278 71	51.29	6.434		
7,391.07	7,385.98	7,398.37	7.385 98	25.75	26.03	90.00	-138.00	273.00	329.99	278 41	51.58	6.398		
7,400.00	7,394.86	7,407.25	7,394.86	25.78	26.06	90.17	-138.00	273.00	329.99	278.35	51.64	6.390		
7,450.00	7,444.22	7,456.61	7,444.22	25 95	26.23	91.51	-138.00	273.00	330.11	278.13	51.97	6.352		
7,500.00	7,492 70	7,505 09	7,492.70	26.11	26.40	93.50	-138.00	273.00	330.66	278 37	52.29	6.324		
7,550.00	7,539.93	7,552.32	7,539.93	26.27	26.57	96.01	-138.00	273.00	332.10	279 54	52.56	6.318 SF		
7,600.00	7,585.56	7,597.95	7,585.56	26.42	26 73	98.90	-138.00	273.00	335.01	282 24	52.77	6.349		
7,650.00	7,629.23	7,641.62	7,629.23	26.57	26.88	101.96	-138.00	273.00	340.05	287 18	52.87	6.432		
7,700.00	7,670.63	7,683 01	7,670.63	26.71	27.03	105.00	-138.00	273.00	347.88	295.05	52.82	6.586		
7.750.00	7,709.42	7,721.81	7.709 42	26.85	27.16	107.80	-138 00	273.00	359 10	306.47	52.63	6.823		
7 800 00	774504	7 757 70	7 745 04	00.00	27.00	110 17	400.00	972.00	274.40	204.00	E0 04	7 459		
7,800.00 7,850.00	7,745.31	7,757.70	7,745 31	26 99 27 13	27.29 27.40	110.17	-138.00 -138.00	273.00 273.00	374 19 393.42	321 88 341.47	52.31 51.95	7 153 7 574		
7,850.00 7,900.00	7,778.04 7,807.35	7,790.43 7,819.74	7,778.04 7,807.35	27.13 27.27	27.40 27.51	111.96 113.02	-138.00 -138.00	273.00	393.42 416.85	365.22	51.95	8.074		
7,900.00	7,833.03	7,845.42	7,833 03	27.41	27.60	113.02	-138.00	273.00	444.35	392.86	51.49	8.629		
8,000.00	7,854.86	7,867.25	7,854.86	27.56	27.67	112.41	-138.00	273.00	475 63	423 97	51.66	9.206		
	.,	.,_57.20	.,	2. 55		, .								
8,050.00	7,872.70	7,885 08	7,872.70	27 71	27.74	110.42	-138.00	273.00	510.29	458 06	52.23	9.769		ļ
8,100.00	7,886.39	7,898.78	7,886 39	27 87	27.78	107.08	-138.00	273.00	547 84	494.63	53.21	10 295		
8,150.00	7,895.85	7,908.24	7,895.85	28.03	27.82	102.16	-138.00	273.00	587.76	533 31	54.45	10.794		
8,200.00	7,900.99	7,913.38	7,900.99	28.20	27.83	95.51	-138.00	273.00	629.53	573 95	55.57	11.328		
8,234.03	7,902.00	7,914.39	7,902.00	28.32	27.84	90.00	-138.00	273.00	658.73	602.76	55.97	11.769		Ì
8,300.00	7,902.00	7,914 39	7,902.00	28.56	27 84	90.00	-138.00	273.00	716.59	660 38	56.21	12.748		
8,400.00	7,902.00	7,914.39	7,902.00	28 98	27 84	90.00	-138.00	273.00	806 67	750 04	56.64	14.243		
8,500.00	7,902.00	7,914.39	7,902.00	29.47	27 84	90.00	-138.00	273.00	898.85	841.73	57.12	15.735		
8,600.00	7,902.00	7,914.39	7,902.00	30.02	27.84	90.00	-138.00	273.00	992.55	934.88	57.67	17.210		
8,700.00	7,902.00	7,914.39	7,902.00	30.62	27 84	90.00	-138.00	273.00	1,087.37	1,029.09	58.28	18.657		
8,800.00	7,902.00	7,914.39	7,902.00	31 29	27.84	90.00	-138.00	273.00	1,183.04	1,124.10	58.95	20.070		



Anticollision Report



Company:

Matador Resources

Preliminary Plan 1

Project: Reference Site:

Eddy County, NM (NAD27 NME) Charlie Sweeney Federal 31-23S-28E

Site Error:

0.00 usft

Reference Well: 124H Well Error:

Reference Wellbore

OH

Reference Design:

0.00 usft

Local Co-ordinate Reference:

Well 124H

TVD Reference: MD Reference:

RKB @ 3128.50usft (Patterson 297) RKB @ 3128.50usft (Patterson 297)

North Reference:

Survey Calculation Method:

Minimum Curvature 2.00 sigma

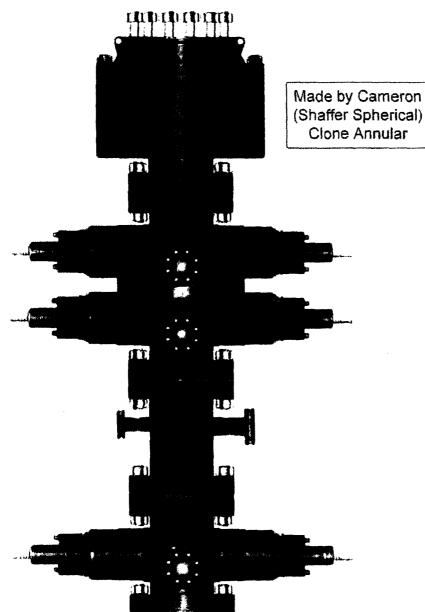
Output errors are at

Database: Offset TVD Reference: Compass 5000 GCR Reference Datum

Offset De Survey Prog	•	Charlie		Federal 31-	23S-28E	- 228H - OI	H - Preliminary	Plan 1					Offset Site Error:	0 00 usft 0 00 usft
Refer		Offs		Semi Major	Axis				Dista	ince			Oliset Well Ellot.	0 00 0310
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	· · · · · · · · · · · · · · · · · · ·	
(usft)	(nstt)	(usft)	(usft)	(usft)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)			
8,900.00	7,902.00	7,914.39	7,902.00	32 01	27 84	90.00	-138.00	273.00	1,279.38	1,219.72	59.66	21.444		
9,000.00	7,902.00	7,914.39	7,902.00	32.77	27.84	90.00	-138.00	273.00	1,376.24	1,315.81	60.43	22.775		
9,100.00	7,902.00	7,914.39	7,902.00	33.58	27.84	90.00	-138 00	273.00	1,473.51	1,412.27	61.24	24.062		
9.200.00	7,902.00	7,914.39	7,902.00	34.44	27 84	90.00	-138.00	273.00	1,571.13	1,509.04	62.09	25 303		
9,300.00	7,902.00	7,914.39	7,902.00	35.33	27.84	90.00	-138.00	273.00	1,669.04	1,606 05	62.98	26.499		
9,400.00	7,902.00	7,914.39	7,902.00	36.26	27 84	90.00	-138.00	273.00	1,767.17	1,703.26	63.91	27.650		
9,500.00	7,902.00	7,914.39	7,902 00	37.22	27.84	90.00	-138.00	273.00	1,865.51	1,800.63	64.87	28 755		
9,600.00	7,902.00	7,914.39	7,902.00	38.21	27 84	90.00	-138.00	273.00	1,964.01	1,898.14	65.87	29.817		
9,700.00	7,902.00	7,914.39	7,902.00	39.23	27.84	90.00	-138.00	273.00	2,062.66	1,995.77	66.89	30.837		
9,800.00	7,902.00	7,914.39	7,902.00	40.28	27.84	90.00	-138.00	273.00	2,161.43	2,093.49	67.94	31.815		
9,900.00	7,902.00	7,914.39	7,902.00	41.35	27.84	90.00	-138.00	273.00	2,260 31	2,191.30	69.01	32.753		
10,000.00	7,902.00	7,914.39	7,902.00	42.45	27 84	90.00	-138.00	273.00	2,359.28	2,289.17	70.11	33.653		
10,100.00	7,902.00	12,490.69	10,300.00	43.56	49.22	172.17	2,298.00	293.93	2.420.60	2,376.61	43.99	55.025		
10,200.00	7,902.00	12,590.69	10,300.00	44.70	50.21	172.16	2,397.99	294.79	2,420.60	2,375.24	45.36	53 362		
10,300.00	7,902.00	12,690.69	10,300.00	45.85	51.23	172,16	2,497.99	295.65	2,420.60	2,373.85	46.75	51.781		
10,400 00	7,902 00	12,790.69	10,300.00	47.02	52.27	172.16	2,597.99	296.51	2,420.60	2,372.46	48 14	50.278		
10,500.00	7,902.00	12,890.69	10,300.00	48.21	53.33	172.16	2,697.98	297 37	2,420.60	2,371.05	49.55	48.847		
10,600.00	7,902.00	12,990.69	10,300.00	49.41	54.41	172.16	2,797.98	298.23	2,420.60	2,369.62	50.98	47.485		
10,700.00	7,902 00	13,090.69	10,300.00	50 62	55.50	172.16	2,897.98	299.09	2,420 60	2,368 19	52 41	46.188		
10,800.00	7,902 00	13,190.69	10,300.00	51.85	56.61	172.16	2,997.97	299.95	2,420.60	2,366.75	53 85	44.951		
10,900.00	7,902.00	13,290.69	10,300 00	53.08	57.74	172.16	3,097.97	300.81	2,420.60	2,365.30	55.30	43.773		
11,000.00	7,902.00	13,390.69	10,300.00	54.33	50.00	170 46	2 107 06	204.67	2 400 00	2 202 04	EC 70	40.640		
11,100.00	7,902.00	13,490.69	10,300.00	55.59	58 88 60.03	172.16 172.16	3,197.96 3,297.96	301.67 302.53	2,420.60 2,420.60	2,363.84 2,362.38	56.76 58.22	42.648 41.575		
11,200.00	7,902.00	13,590.69	10,300.00	56.85	61.20	172.16	3,297.96	302.53	2,420.60	2,360.90	59.70	40.549		
11,300.00	7,902.00	13,690.69	10,300.00	58.13	62.38	172.16	3,497.95	304.26	2,420.60	2,359.42	61.17	39.569		
11,400.00	7,902.00	13,790.69	10,300.00	59,41	63 57	172.16	3,597.95	304.26	2,420.60	2,359.42	62.66	38.631		
11,500.00	7,902.00	13,890.69	10,300.00	60.70	64.77	172.16	3,697.95	305.98	2,420.60	2,356.45	64.15	37.733		
11,600.00	7,902.00	13,990.69	10,300.00	62.00	65.98	172 16	3,797.94	306.84	2,420.60	2,354 95	65.65	36.873		
11,700.00	7,902.00	14,090.69	10,300.00	63.31	67.20	172,16	3,897.94	307.70	2,420.60	2,353.45	67 15	36.049		
11,800.00	7,902.00	14,190.69	10,300.00	64.62	68.43	172.16	3,997.94	308.56	2,420.60	2,351 95	68.65	35 258		
11,900.00	7,902.00	14,290.69	10,300.00	65.94	69.66	172.16	4,097.93	309.42	2,420.60	2,350.44	70.16	34.500		
12,000.00	7,902.00	14,390.69	10,300.00	67.26	70.91	172.16	4,197.93	310.28	2,420.60	2,348.92	71.68	33 771		
12,100.00	7,902.00	14,490.69	10,300.00	68.59	72 16	172.16	4,297.92	311.14	2,420 60	2,347.40	73.19	33.071		
12,200.00	7,902.00	14,590.69	10,300 00	69.92	73.42	172.16	4,397.92	312.00	2,420.60	2,345.88	74.72	32.397		
12,300.00	7,902.00	14,690.69	10,300.00	71.26	74 69	172.16	4,497.92	312.86	2,420.60	2,344.36	76.24	31 749		
12,400.00	7,902.00	14,790.69	10,300.00	72.60	75.97	172.16	4,597.91	313.72	2,420.60	2,342.83	77 77	31 126		
12,500.00	7,902 00	14,890.69	10,300.00	73.95	77.25	172.16	4,697.91	314.58	2,420.60	2,341.30	79.30	30.525		
12,600.00	7,902.00	14,990 69	10,300.00	75.30	78.53	172.16	4,797.91	315.44	2,420.60	2,339.77	80.83	29.946		
12,663.26	7,902.00	15,053.95	10,300.00	76.15	79.35	172.16	4,861.16	315.98	2,420.60	2,338.80	81.80	29.590		







PATTERSON-UTI # PS2-628

STYLE: New Shaffer Spherical

BORE 13 5/8" PRESSURE 5,000

HEIGHT: 48 ½" 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

Length 40" Outlets 4" 10M

DSA 4" 10M x 2" 10M

PATTERSON-UTI # PC2-228

STYLE: New Cameron Type U

BORE 13 5/8" PRESSURE 10,000

RAMS: 5" Pipe

HEIGHT: 41 5/8" WEIGHT: 13,000 lbs

WING VALVES

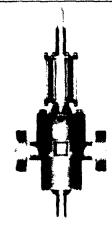


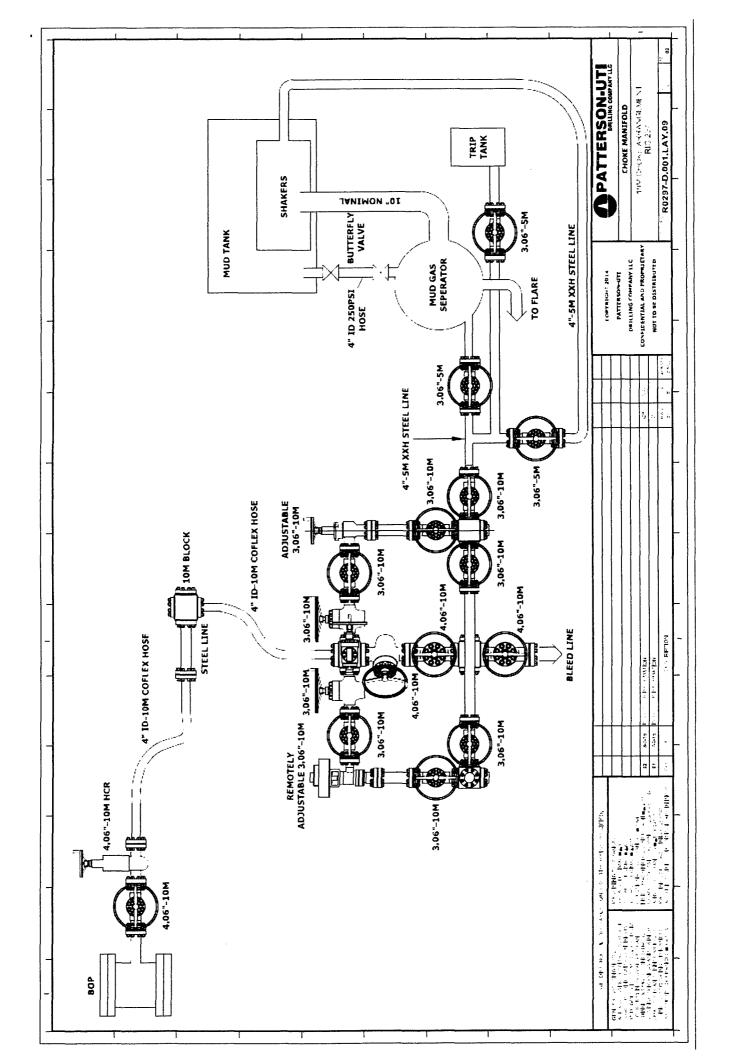


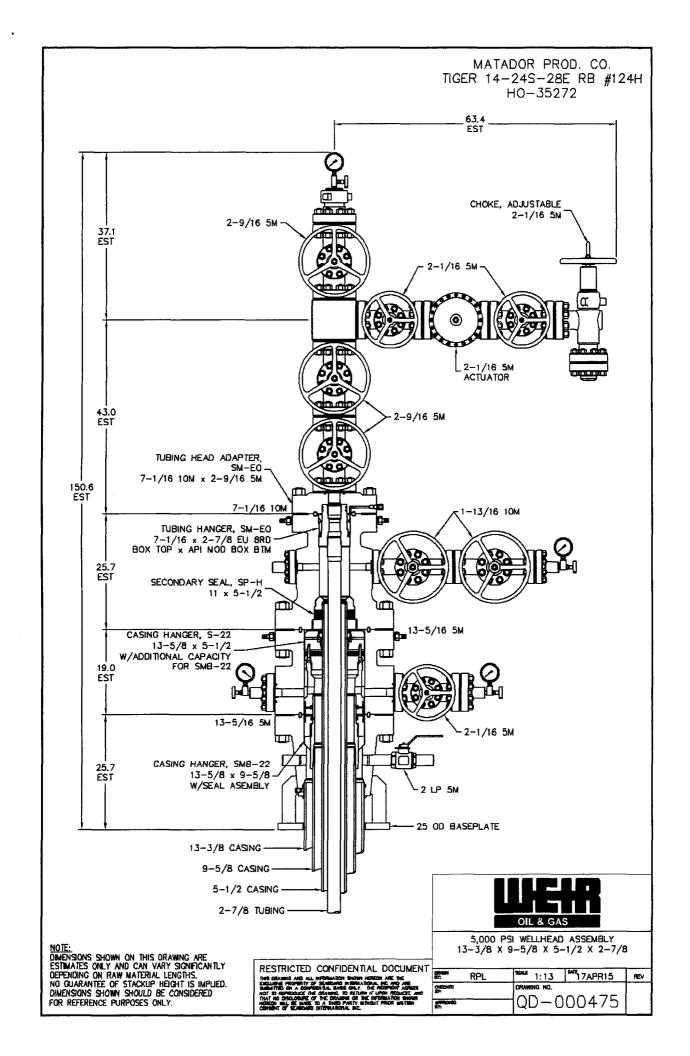














Internal Hydrostatic Test Graph

Customer: Patterson

Pick Ticket #: 284918

Hose	
Midwest Hose & Specialty, Inc.	

<u> (erification</u>	Coupling Method Swage Final O.D. 5.37"	Hose Assembly Serial # 284918-2
Veri	Type of Fitting 4-1/16 10K Die Size 5.37"	Hose Serial # 10490
cifications	Length 10' Q.D. 4.79"	Burst Pressure Standard Safety Multiplier Applies
Hose Specificati	Hose Type CK LD. 3"	Working Pressure 10000 PSI

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0007			\$	

Test Pressure 15000 PSI

Time Held at Test Pressure 15 2/4 Minutes

Actual Burst Pressure

Peak Pressure 15732 PSI

Approved By: Ryan Adams

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By://Tyler Hill



General Inform	nation	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 #)	287918-2	Hose O.D. (Inches)	5.30"
Hose Assembly Length	10'	Armor (yes/no)	YES
	Fiet	ngs	
End A		End B	
Stem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
Stem (Heat #)	91996	Stem (Heat #)	91996
Ferrule (Part 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#)		Connection (Heat #)	
Dies Used	5.37	Dies Used	5.3
	Hydros attelles	Requirements	
Test Pressure (psi)	15,000	Hose assembly was tested	with ambient water
	15 1/2] temperatu	ire.



		Certifica	ate of	Conformity	
Customer:	PATTERSON E	3&E		Customer P.O.# 260471	
Sales Order #	236404			Date Assembled: 12/8/2014	
		Sp	ecific	ations	
Hose Assem	bly Type:	Choke & Kill			
Assembly	Serial #	287918-2		Hose Lot # and Date Code	10490-01/13
Hose Working F	Pressure (psi)	10000		Test Pressure (psi)	15000
				1	

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

Approved By	Date
Fan Alana	12/9/2014

Internal Hydrostatic Test Graph

Customer: Patterson

Pick Ticket #: 284918

)	dwest Hose	necialty Inc	Permusy and

Verification	Coupling Method	Swage	Final Q.D.	5.40"	Hose Assembly Serial # 284918-1
Veri	Type of Fitting	4-1/16 10K	Die Size	5.37"	Hose Serial # 10490
cifications	Length	20,	70 0	4,77"	Burst Pressure Standard Safety Multiplier Applies
Hose Specificatio	Hose Type	ŏ	d 1	^t m	Working Pressure 10000 PSI

											SEUTE PEASSULE 15893 PSI
re Test	The state of the s	angus sa firana. Pal							23 25 25 25 410 AM	Time in Minutes	Actual Burst Pressure
Pressure Test	desputation and a second secon								29 129 29 29 29 248 249 249 249 249 250 25 25 255 255 258 256 149	Time in	Time Held at Test Pressure 15 2/4 Minutes
180%	16000	1,4000	13061	10000	PSI sono	5003	4000	2000	0 22 22 20		Test Pressure 15000 PSI

Time Held at Test Pressure 15 2/4 Minutes Test Pressure 15000 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Tyler Hill

Approved By: Ryan Adams



Internal Hydrostatic Test Certificate

General Infor	mation	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 (Part 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	5.3
	Hydrostatic Te	st Requirements	
est Pressure (psi)	15,000	Hose assembly was tested	with ambient water
	15 1/2	temperatu	



Customer: PATTERSON E	3&E	Customer P.O.# 260471	
Sales Order# 236404		Date Assembled: 12/8/2014	
	Specific	ations	
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
		1	
		•	
			to be true according
We hereby certify that the above the requirements of the purcl			to be true according
o the requirements of the purci			to be true according
o the requirements of the purch			to be true according
o the requirements of the purch Supplier: Midwest Hose & Specialty, Inc.			to be true according
o the requirements of the purch Supplier: Midwest Hose & Specialty, Inc. 1312 S I-35 Service Rd			to be true according
The state of the s			to be true according
o the requirements of the purch Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City, OK 73129			to be true according

12/9/2014



Internal Hydrostatic Test Graph

Customer: Patterson

Pick Ticket #: 284918

lidwest Hose	Specialty, Inc.
Mid	gz Sp

erification	Coupling Method Swage Final O.D.	5.37" Hose Assembly Serial # 284918-3
Veri	Type of Fitting 4 1/16 10k Die Size	5.37" Hose Serial # 10490
cifications	Length 70' Q.D.	4,79" Burst Pressure Standard Safety Multiplier Applies
Hose Specification	Hose Type Mud I.D.	3" Working Pressure 10000 PSI

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14000 part denderman and the second		
12050 100-10 5000 + 4000		
\$600 ± 4000		
4000		
4000	· · · · · · · · · · · · · · · · · · ·	
2000		

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Apler Hill

Approved By: Ryan Agams

Peak Pressure 15410 PSI

Actual Burst Pressure

Time Held at Test Pressure 16 3/4 Minutes

Test Pressure 15000 PSI



General Inform	mation	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 #)	287918-3	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	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 #)		Connection (Heat #)	
Dies Used	5.3	7 Dies Used	5.3
	Hydrostatic Te	st Requirements	
Test Pressure (psi)	15,000	Hose assembly was tested	with ambient water
Test Pressure Hold Time (minutes)	16 3/4	temperatu	ıre.

Date Tested	Tested By	Approved By
12/9/2014	tyling	Gar Alaus



	Certificate o	of Conformity	
Customer: PATTERSON E	3&E	Customer P.O.# 260471	
Sales Order # 236404		Date Assembled: 12/8/2014	
	Specifi	ications	
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 supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

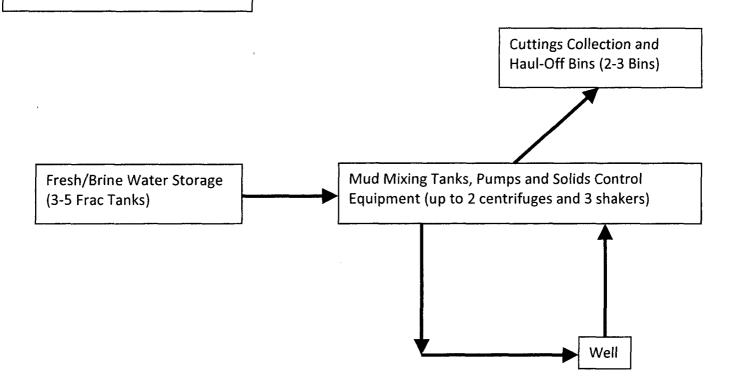
Oklahoma City, OK 73129

Comments:

Approved By	Date	
Fran Alaus	12/9/2014	

Closed-Loop System

Matador Production Company 31-235-28E Eddy County, NM

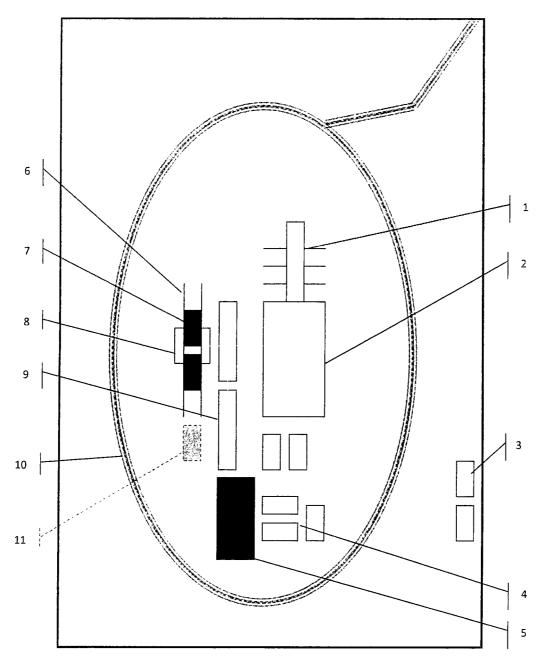


Operating and Maintenance Plan:

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.

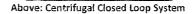


Schematic Closed Loop Drilling Rig*

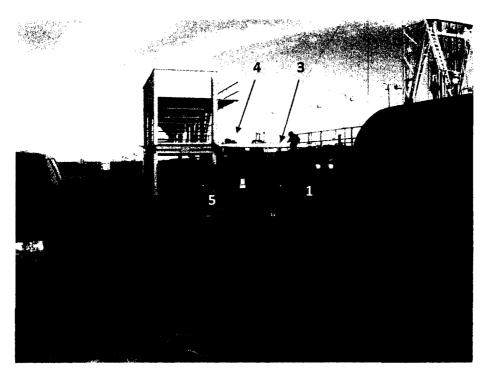
- 1. Pipe Rack
- 2. Drill Rig
- 3. House Trailers/ Offices
- 4. Generator/Fuel/Storage
- 5. Overflow-Frac Tank
- 6. Skids
- 7. Roll Offs
- 8. Hopper or Centrifuge
- 9. Mud Tanks
- 10. Loop Drive
- 11. Generator (only for use with centrifuge)

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









Closed Loop Drilling System: Mud tanks to right (1)

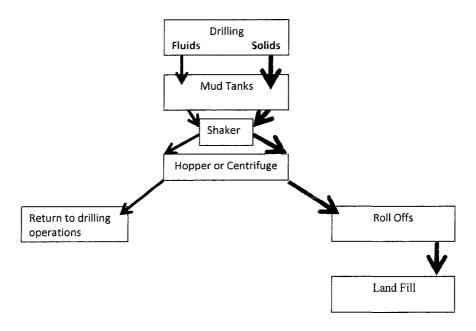
Hopper in air to settle out solids (2)

Water return pipe (3)

Shaker between hopper and mud tanks (4)

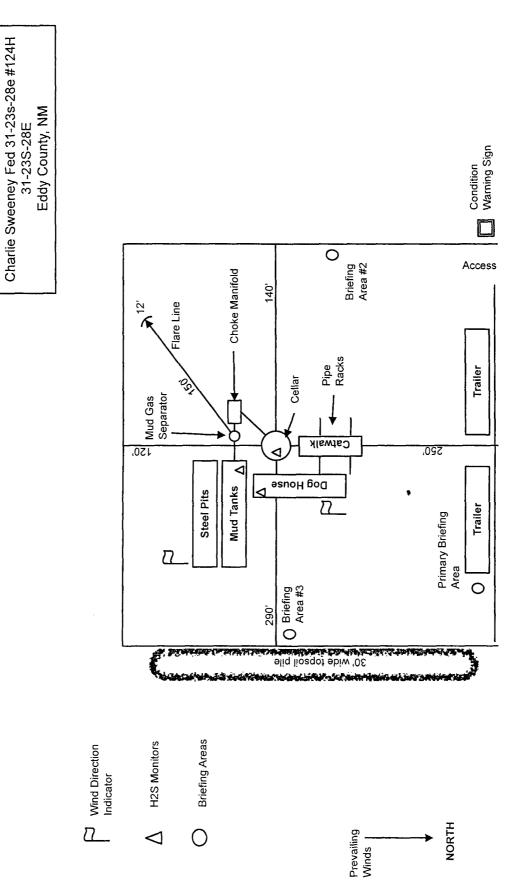
Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids













Hydrogen Sulfide Drilling Operations Plan

Matador Production Company

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and 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 30min 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, 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
- Windsock 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
 - 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 <u>Drilling Stem Testing:</u>

• 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

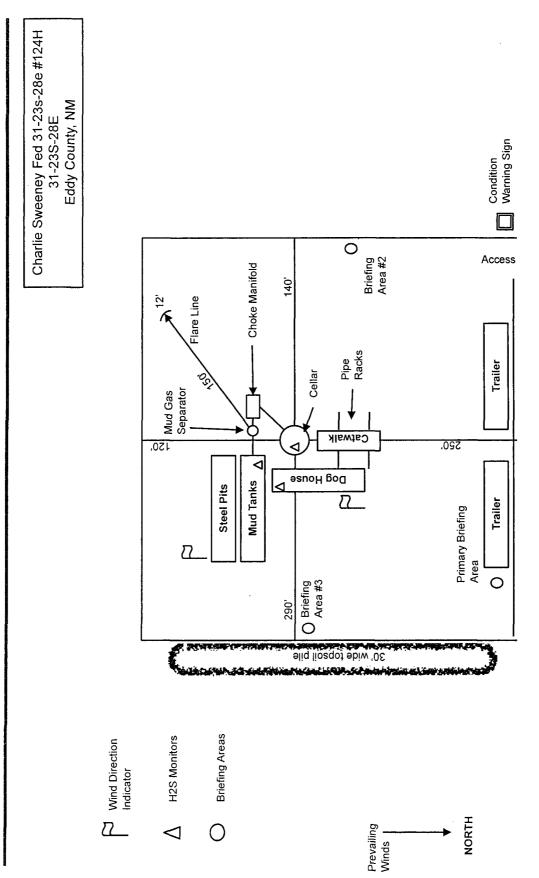
9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary

11 Emergency Contacts

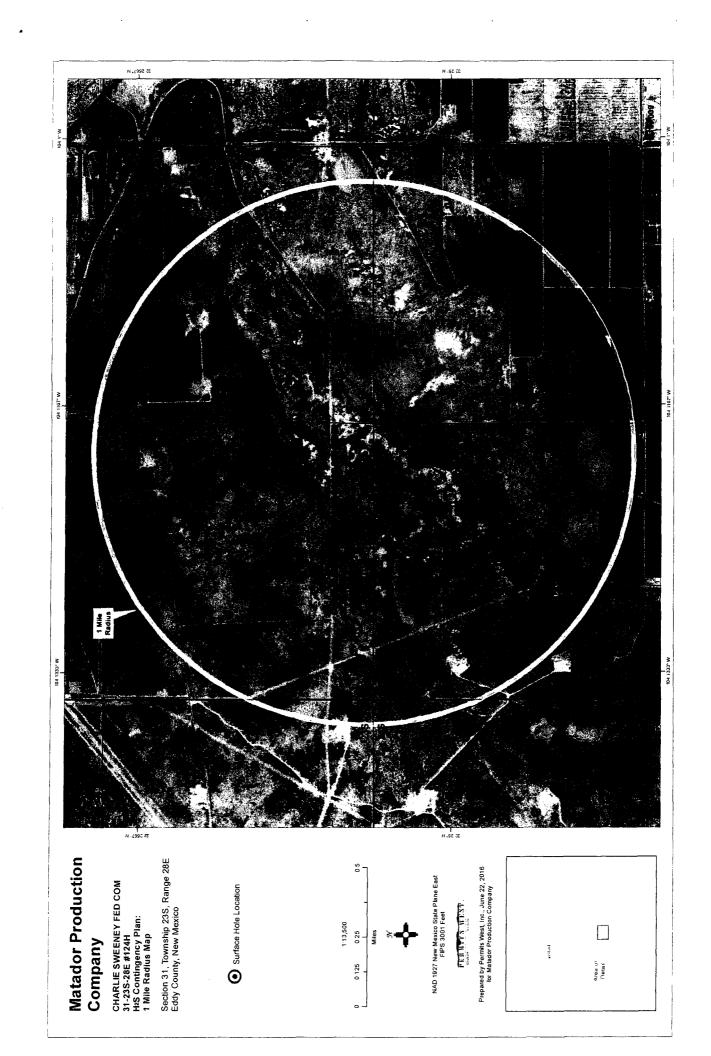
• See next page

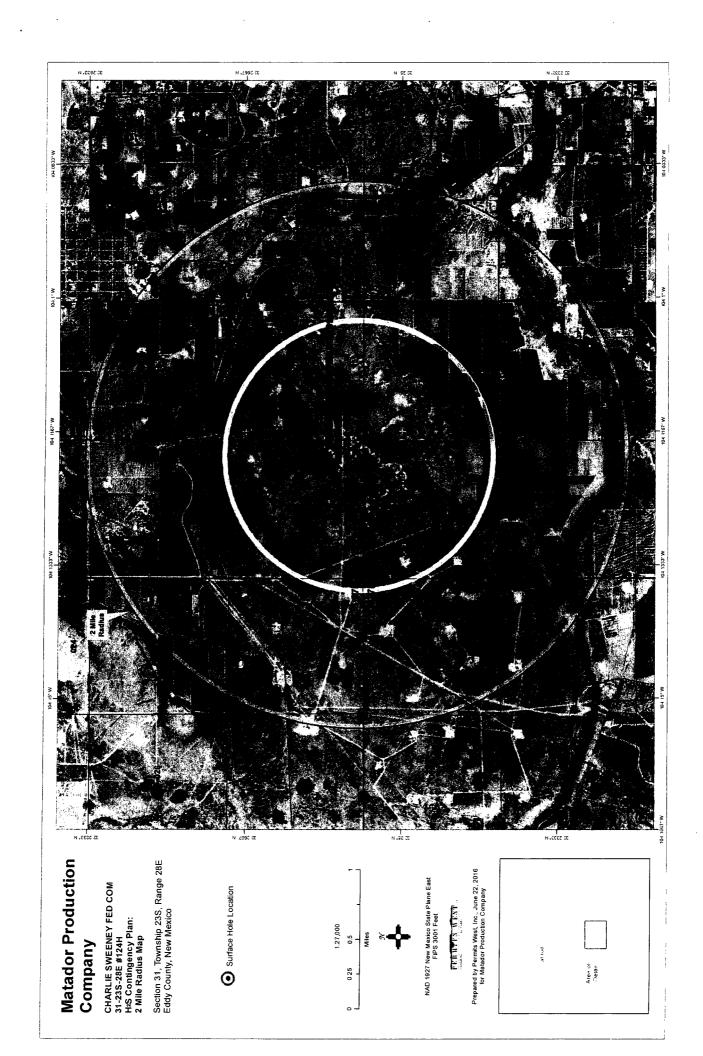
H2S Contingency Plan Emergency Contacts Matador Production Company Sec. 31, 23S, 28E, Eddy County, NM

Matador Production Company	(972)-371-5200		
Key Personnel	(0.2) 0.1 3200		
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		
<u>Artesia</u>			
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	າ	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	1	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 Operat	ions Center	505-476-9635	
National		575 024 5072	
Carlsbad BLM		575-234-5972	
National Emergency Response Center	(Washington, D.C.)	800-424-8802	
Medical	TV	006 742 0011	
Flight for Life- 4000 24th St.; Lubbock, 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 SB Air Med Service- 2505 Clark Carr Loop S.E.; Albuquerque, NM		505-842-4433	
	oop s.e.; Albuquerque, MM	505-842-4949	,
Other		900 250 0000	o# 204 024 000
Boots & Coots IWC		800-256-9688	or 281-931-8884
		422 COO 0420	- 422 FC2 22F4
Cudd Pressure Control Halliburton		432-699-0139 575-746-2757	or 432-563-3356









Matador Production Company SURFACE PLAN PAGE 1
Charlie Sweeney Fed 31-23S-28E 124H
SHL 188' FSL & 605' FEL Sec. 31, T. 23 S., R. 28 E.
BHL 240' FNL & 660' FEL Sec. 31, T. 23 S., R. 28 E.
Eddy County, NM

Surface Use Plan

1. ROAD DIRECTIONS & DESCRIPTIONS (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 SURFACE PLAN PAGE 2 Charlie Sweeney Fed 31-23S-28E 124H SHL 188' FSL & 605' FEL Sec. 31, T. 23 S., R. 28 E. BHL 240' FNL & 660' 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 ≈ 10 " O. D. surface "Fast Line" from an existing frac pond on private land in S2NW4 31-23s-28e.

6. CONSTRUCTION MATERIALS & METHODS (see MAPS 5-7)

NM One Call (811) will be notified before construction starts. Top ≈ 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 SURFACE PLAN PAGE 3
Charlie Sweeney Fed 31-23S-28E 124H
SHL 188' FSL & 605' FEL Sec. 31, T. 23 S., R. 28 E.
BHL 240' FNL & 660' 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. RECLAMATION

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 ≈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 similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled.



Matador Production Company
Charlie Sweeney Fed 31-23S-28E 124H
SHL 188' FSL & 605' FEL Sec. 31, T. 23 S., R. 28 E.
BHL 240' FNL & 660' 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

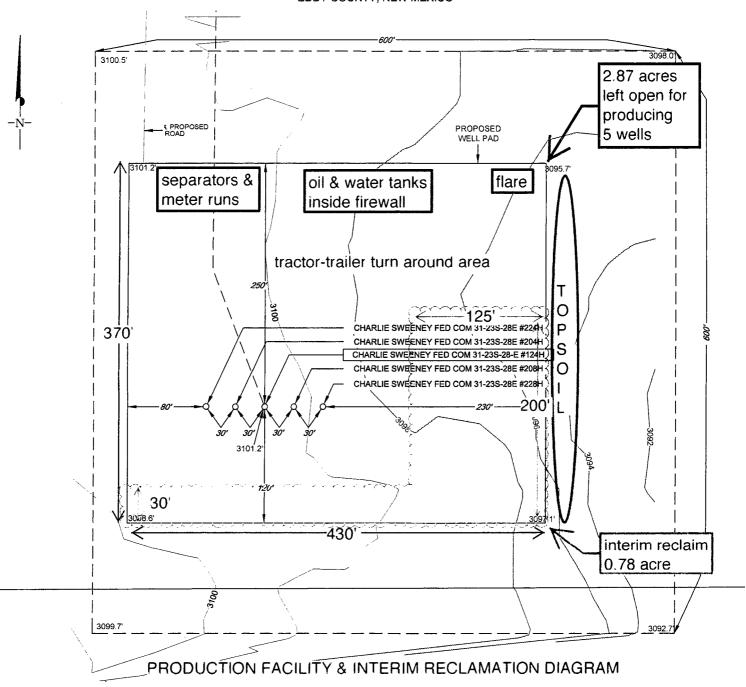
On site inspection was held with Trish Bad Bear (BLM) on December 10, 2015.

Lone Mountain submitted archaeology report NMCRIS-135215 on February 29, 2016 for the well site and will file a report for the associated infrastructure.





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



LEASE NAME & WELL NO .: CHARLIE SWEENEY FED **LEGEND** 31-23S-28E #124H W 104.1197064 SECTION LINE ARCH SITE

PROPOSED ROAD



To Who it May Concern:

Matador Resources Company has a private surface owner agreement with Vickie Connally (R211 Ash Road, Loving NM 88256) for the Charlie Sweeney Fed 31-23s-28e 124H well site, pipelines, power line, and road in NWSW, S2S2, SWNE, & NWSE 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.

Brian Wood

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:

LEASE NO.:

WELL NAME & NO.:

SURFACE HOLE FOOTAGE:

BOTTOM HOLE FOOTAGE

LOCATION:

COUNTY:

Matador Operating Company

NMNM121941

124H-Charlie Sweeney Fed Com

188'/S & 605'/E

240'/N & 660'/E

Section 31, T. 23 S., R. 28 E., NMPM

Eddy County, New Mexico

TABLE OF CONTENTS

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
Cultural
☐ 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 and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

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

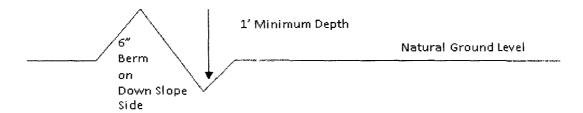
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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



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:
$$\frac{400'}{40\%} + 100' = 200'$$
 lead-off ditch interval

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.

Construction Steps

- 1. Salvage topsoil
- 2. Construct road 4. Revegetate slopes

3. Redistribute topsoil

center line of roadway shoulderturnout 10' 100 transition full turnout width Intervisible tumouts shall be constructed on all single lane roads on all blind curves with additional tunouts as needed to keep spacing below 1000 feet. **Typical Turnout Plan** crown natural ground **Level Ground Section** road type crown earth surface .03 - .05 ft/ft .02 – .04 ft/ft aggregate surface paved surface .02 - .03 ft/ft Depth measured from the bottom of the ditch **Side Hill Section** center center line travel surface -> travel surface 🗻 (slope 2 - 4%) (slope 2 - 4%) **Typical Outsloped Section Typical Inslope Section**

Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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, **Shale Green** 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 et seq. (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, 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 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 <u>20</u> 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 <u>24</u> 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 et seq. (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, 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 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 right-of-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. When broadcasting the seed, 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

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Matador Operating Company

LEASE NO.: NMNM121941

WELL NAME & NO.: | 124H-Charlie Sweeney Fed Com

SURFACE HOLE FOOTAGE: | 188'/S & 605'/E BOTTOM HOLE FOOTAGE | 240'/N & 660'/E

LOCATION: | Section 31, T. 23 S., R. 28 E., NMPM

COUNTY: | Eddy County, New Mexico

A. DRILLING OPERATIONS REQUIREMENTS

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

a. Spudding well (minimum of 24 hours)

b. Setting and/or Cementing of all casing strings (minimum of 4 hours)

c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. It is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM

office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium Cave/Karst

Possibility of water flows in the Castile and Salado. Possibility of lost circulation in the Red Beds, Rustler, and Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 350 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of

six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

If cement does not circulate to surface on the intermediate casing, the cement on the production casing must come to surface.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing, which shall be set at approximately 2450 feet, is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

- 3. The minimum required fill of cement behind the 5 1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored

according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi
- 4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 inch intermediate casing shoe shall be 3000 (3M) psi.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not** a **cup** or **J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.

- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

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

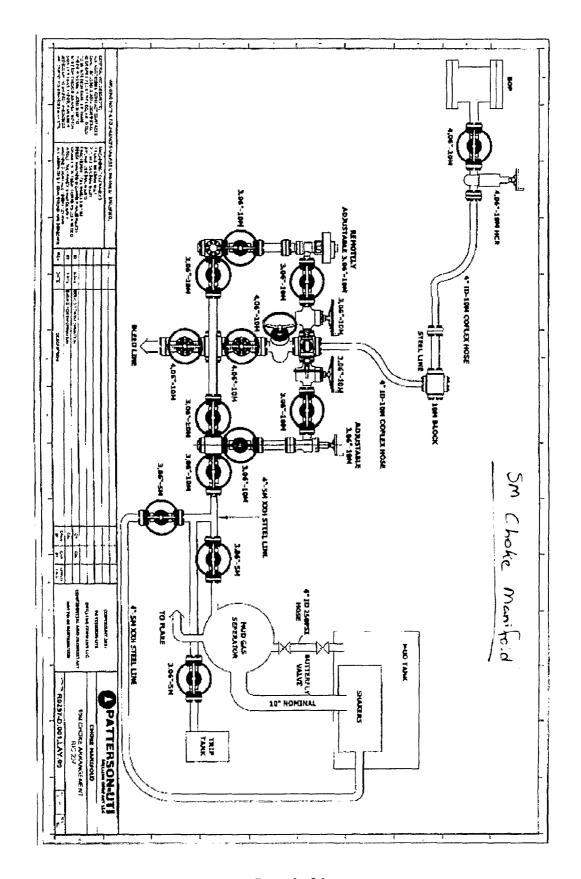
Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

F. SPECIAL REQUIREMENT (S)

Well Name

Operator shall submit a sundry to remove 'Com' from the well name.

MHH 11152016



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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.