

NM OIL CONSERVATION
OFFICE
JUN 10 2016

16-393

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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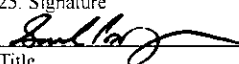
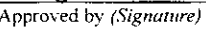
APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. SESW:NM-115410, SHL & BHL: fee	
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name N/A	
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No. will comm. w/fee leases	
2. Name of Operator MATADOR PRODUCTION COMPANY		8. Lease Name and Well No. Dr. Scrivner Fed. Com #204H	
3a. Address 5400 LBJ FREEWAY, STE 1500, DALLAS, TX 75240		9. API Well No. 30-015- 43821	
3b. Phone No. (include area code) 972-371-5241		10. Field and Pool or Exploratory wc, WOLF CAMP, Northern	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 691' FSL & 661' FEL At proposed prod. zone 990' FSL & 240' FWL		11. Sec., T. R. M. or Blk. and Survey or Area S21-24-28E NMPM	
14. Distance in miles and direction from nearest town or post office* 2-1/2 AIR MILES NE OF MALAGA, NM		12. County or Parish EDDY	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) SHL: 661' (comm. line) BHL: 240' (comm. line)		16. No of acres in lease lease= 40 ac, comm=320 ac	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease. ft. SHL: 2,320' (P&A) BHL: 2,070' (P&A)		17. Spacing Unit dedicated to this well S2S2 1-24S-28E	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2,984' UNGRADED		19. Proposed Depth TVD: 9,698' MD: 14,624'	
22. Approximate date work will start* 04/21/2016		20. BLM/BIA Bond No. in file BLM NMB-001079	
23. Estimated duration 3 MONTHS		24. Attachments	

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature 	Name (Printed/Typed) SAM PRYOR (PHONE: 972-371-5241)	Date 04/07/2016
Title SR. Staff Landman		
Approved by (Signature) 	Name (Printed/Typed) JAMES A. AMOS	Date JUN 1 - 2016
Title FIELD MANAGER		
Office CARLSBAD FIELD OFFICE		

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

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.

APPROVAL FOR TWO YEARS

NSL must be in place prior to placing well
on production

Carlsbad Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached
(Continued on page 2)

*(Instructions on page 2)

Matador Production Company

SURFACE PLAN PAGE 5

Dr. Scrivner Fed. 01-24S-28E RB 204H

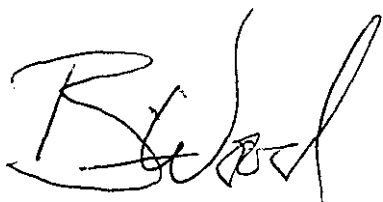
SHL 691' FSL & 661' FEL Sec. 1, T. 24 S., R. 28 E.

BHL 990' FSL & 240' FWL Sec. 1, T. 24 S., R. 28 E.

Eddy County, NM

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements. Executed this 12th day of January, 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

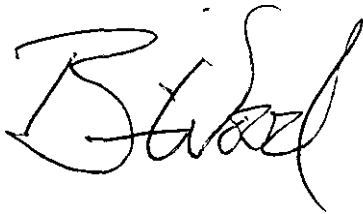
FAX: (214) 866-4841

January 12, 2016

To Who it May Concern:

Matador Resources Company has a private surface owner agreement with Johnson Enterprises (P. O. Box 1713, Roswell NM 88202) for the Dr. Scrivner Fed. 01-24S-28E RB 204H well site, battery, pipeline, power line, and road in Section 1, T. 24 S., R. 28 E. Eddy County, NM.

Matador Resources Company has a private surface owner agreement with John Draper Brantley, Jr. and Henry McDonald (706 W. Riverside Dr., Carlsbad NM 88220) for the Dr. Scrivner Fed. 01-24S-28E RB 123H pipeline and power line in Section 6, T. 24 S., R. 29 E. Eddy County, NM.

A handwritten signature in black ink, appearing to read "B. Wood". The signature is stylized with a large, looped initial "B" and a cursive "Wood".

Brian Wood

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

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

*Wolfcamp and its X
& Y sands are goals

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015- ¹ API Number 43821	² Pool Code 96712	³ Pool Name WE, Wolfcamp* Pure Crossing; VC, Northurst (gas)
⁴ Property Code 316327	⁵ Property Name DR, SCRIVNER FEDERAL 01-24S-28E RB	⁶ Well Number #204H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 2984'

¹⁰Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	1	24-S	28-E	-	691'	SOUTH	661'	EAST	EDDY

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	1	24-S	28-E	-	990'	SOUTH	240'	WEST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code C	¹⁵ Order No.
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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.

¹⁶ BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=588132 Y=451962 LAT.: N 32.2422389 LONG.: W 104.0482794 NAD 1983 X=629316 Y=452021 LAT.: N 32.24236065 LONG.: W 104.0487713	LAST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=588222 Y=451962 LAT.: N 32.2422394 LONG.: W 104.0479883 NAD 1983 X=629406 Y=452021 LAT.: N 32.24236112 LONG.: W 104.0484801	SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=592560 Y=451683 LAT.: N 32.2414393 LONG.: W 104.0339601 NAD 1983 X=633744 Y=451742 LAT.: N 32.24156127 LONG.: W 104.0344513 ELEV = 2984'	FIRST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=592890 Y=451984 LAT.: N 32.2422626 LONG.: W 104.0328912 NAD 1983 X=634073 Y=452042 LAT.: N 32.245238454 LONG.: W 104.0333824	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Brian Wood</i> Date: 1-12-16 Printed Name: BRIAN WOOD E-mail Address: brian@permitswest.com
				18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. 11/19/2015 Date of Survey Signature and Seal of Professional Surveyor: <i>Michael B. Brown</i> Certificate Number: 18329



SECTION 1 TWP 24-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM ELEVATION 2984'
DESCRIPTION 691' FSL & 661' FEL

0' 1000' 2000'

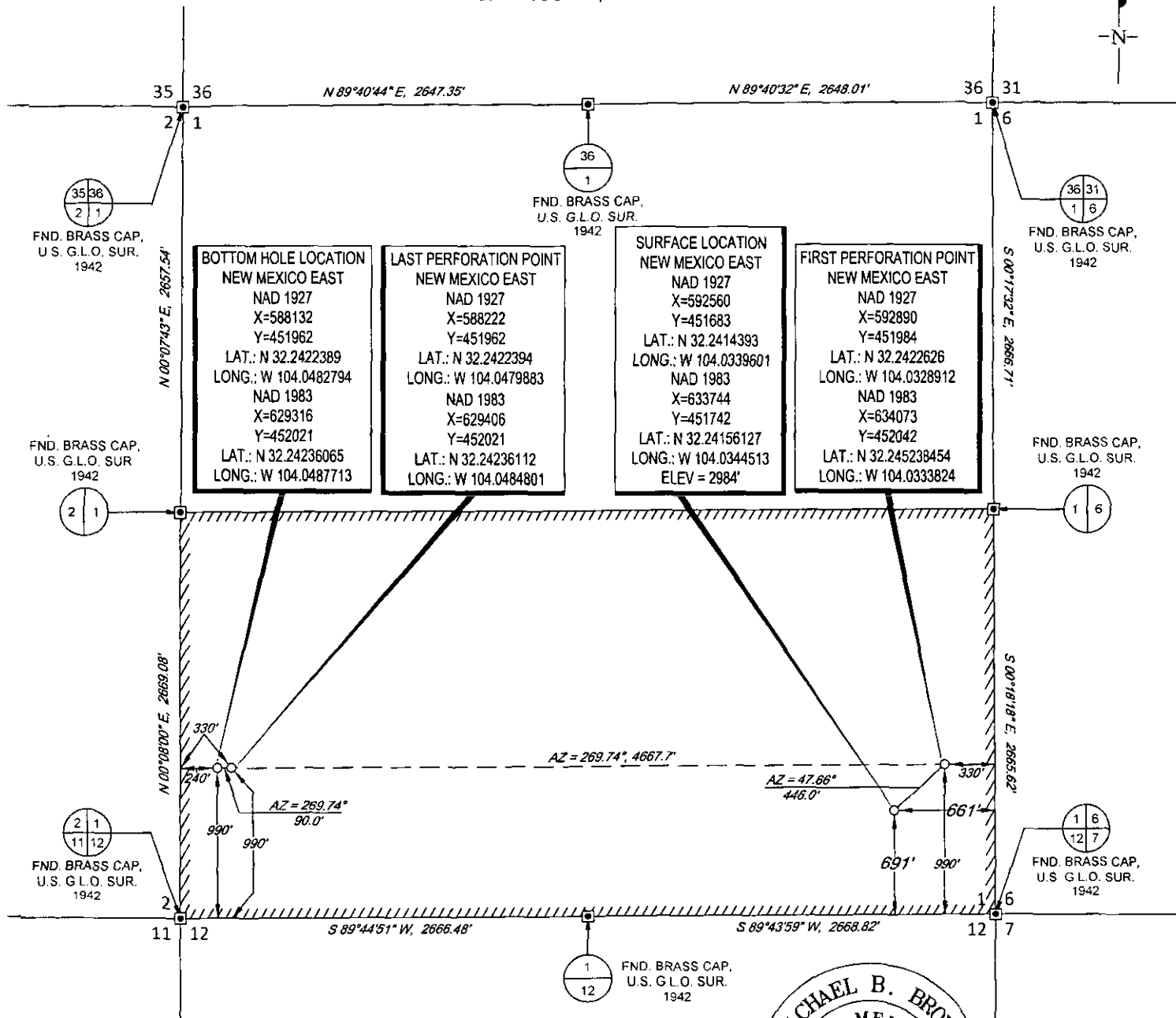


1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

SCALE: 1" = 1000'
0' 500' 1000'



SECTION 1, TOWNSHIP 24-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: DR. SCRIVNER FEDERAL 01-24S-28E RB #204H

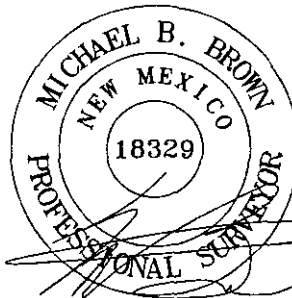
SECTION 1 TWP 24-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 691' FSL & 661' FEL

DISTANCE & DIRECTION

FROM INT. OF US-285 S. & HWY. 720 GO EAST (RIGHT) ON DUARTE RD. ± 0.8 MILES, THENCE GO NORTH (LEFT) ON HARROUN RD. ± 2.6 MILES, THENCE GO SOUTH (RIGHT) ON LEASE RD. ± 0.1 MILES, THENCE WEST (RIGHT) ON LEASE RD. ± 67 FEET TO A POINT ± 250 FEET NORTHEAST OF THE LOCATION.

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

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.

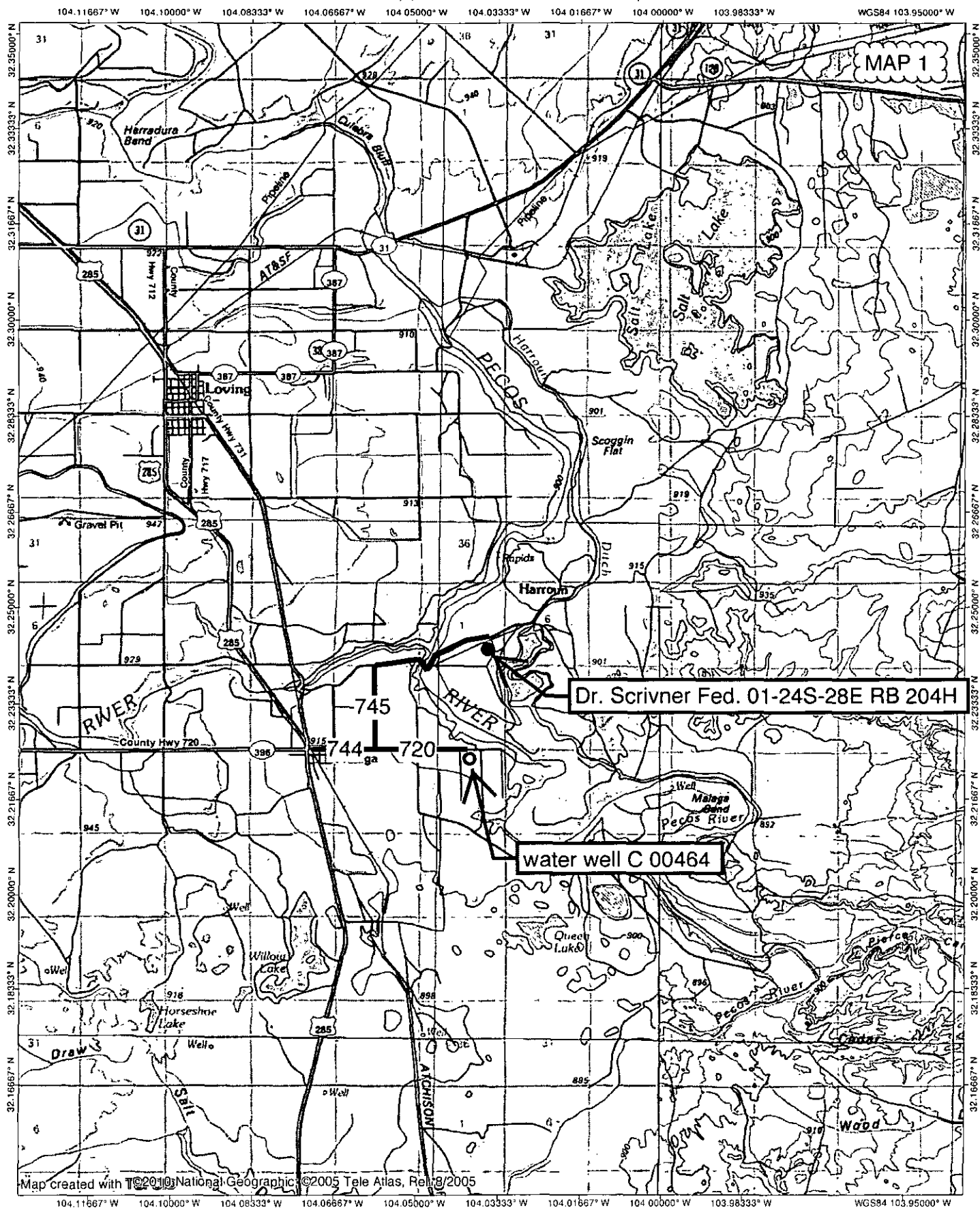


Michael Blake Brown, P.S. No. 18329
NOVEMBER 25, 2015



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

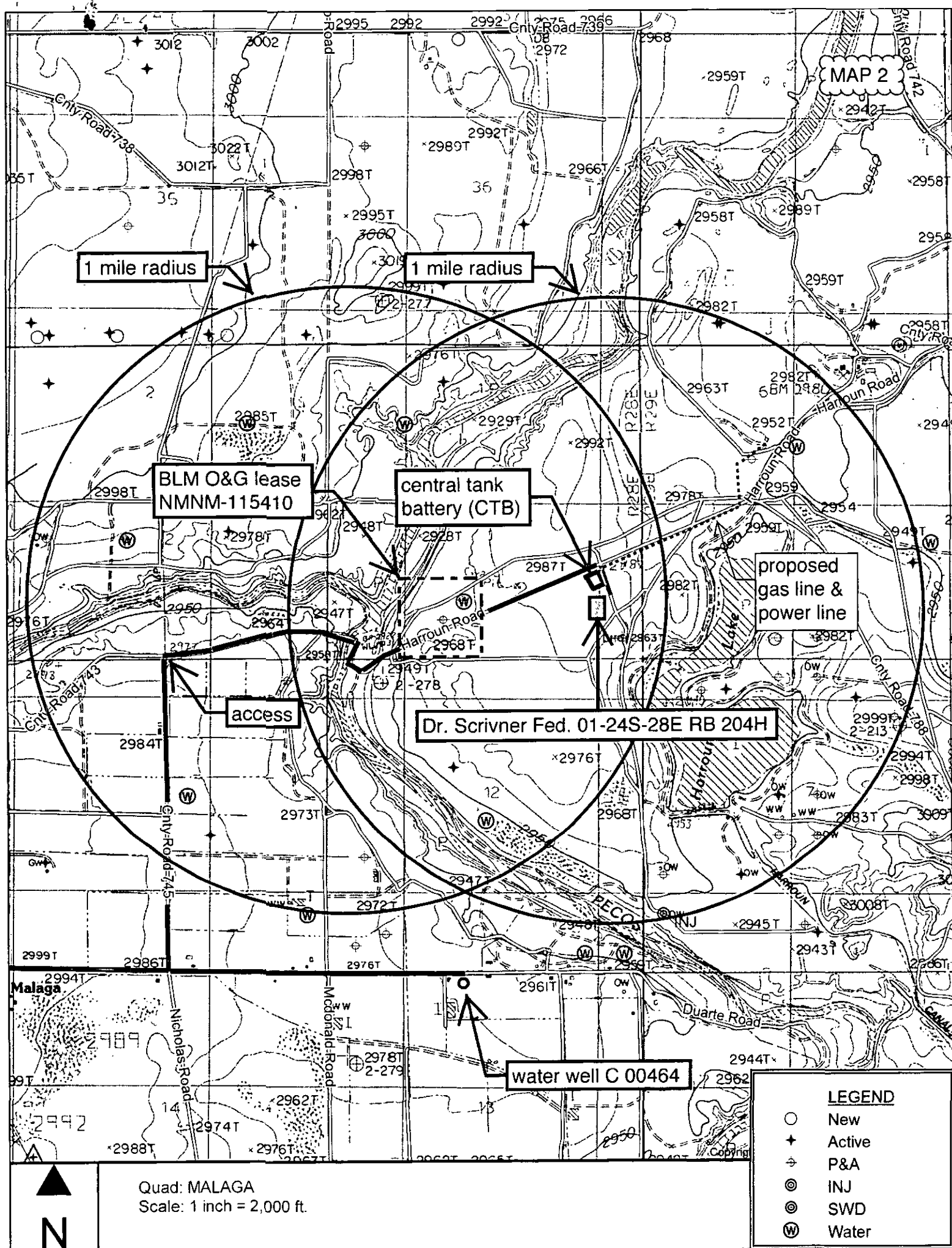
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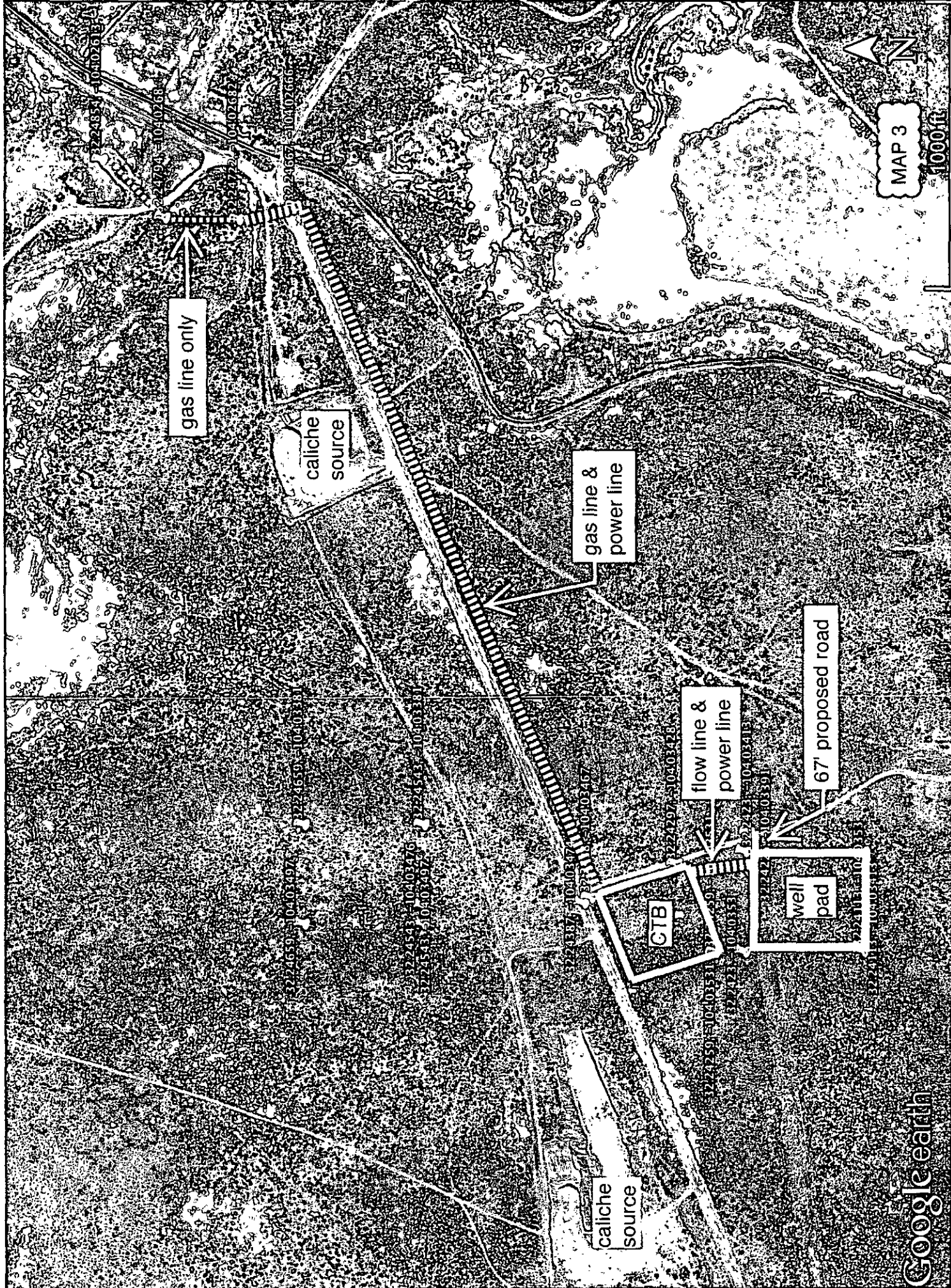


NATIONAL
GEOGRAPHIC

0 0.5 1.0 1.5 2.0 2.5 3.0 miles
0 1 2 3 4 5 km

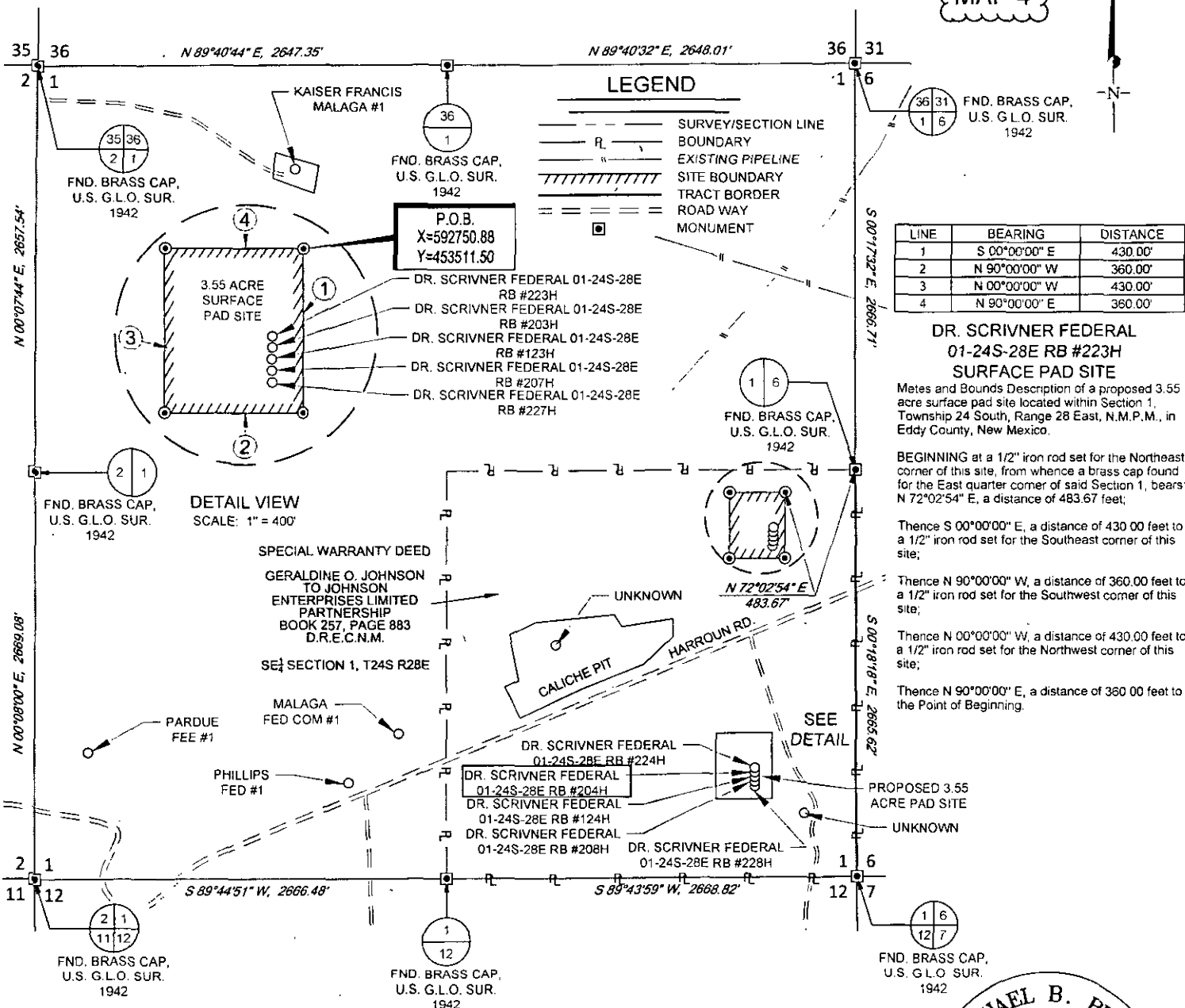
TN 7.5°
12/18/15





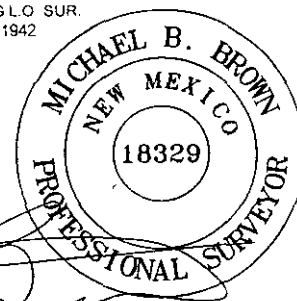
0' 500' 1000'

MAP 4



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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Michael Blake Brown, P.S. No. 18329
NOVEMBER 30, 2015

SURFACE PAD SITE	REVISION:	
	MML	11/06/2015
	A.V.F.	11/24/2015
DATE: 08/21/2015		
FILE: \\03\DRMGR\BEN\PROJECTS\2015\SURF PAD SITE		
DRAWN BY: GJU		
SHEET: 1 OF 1		

NOTES:

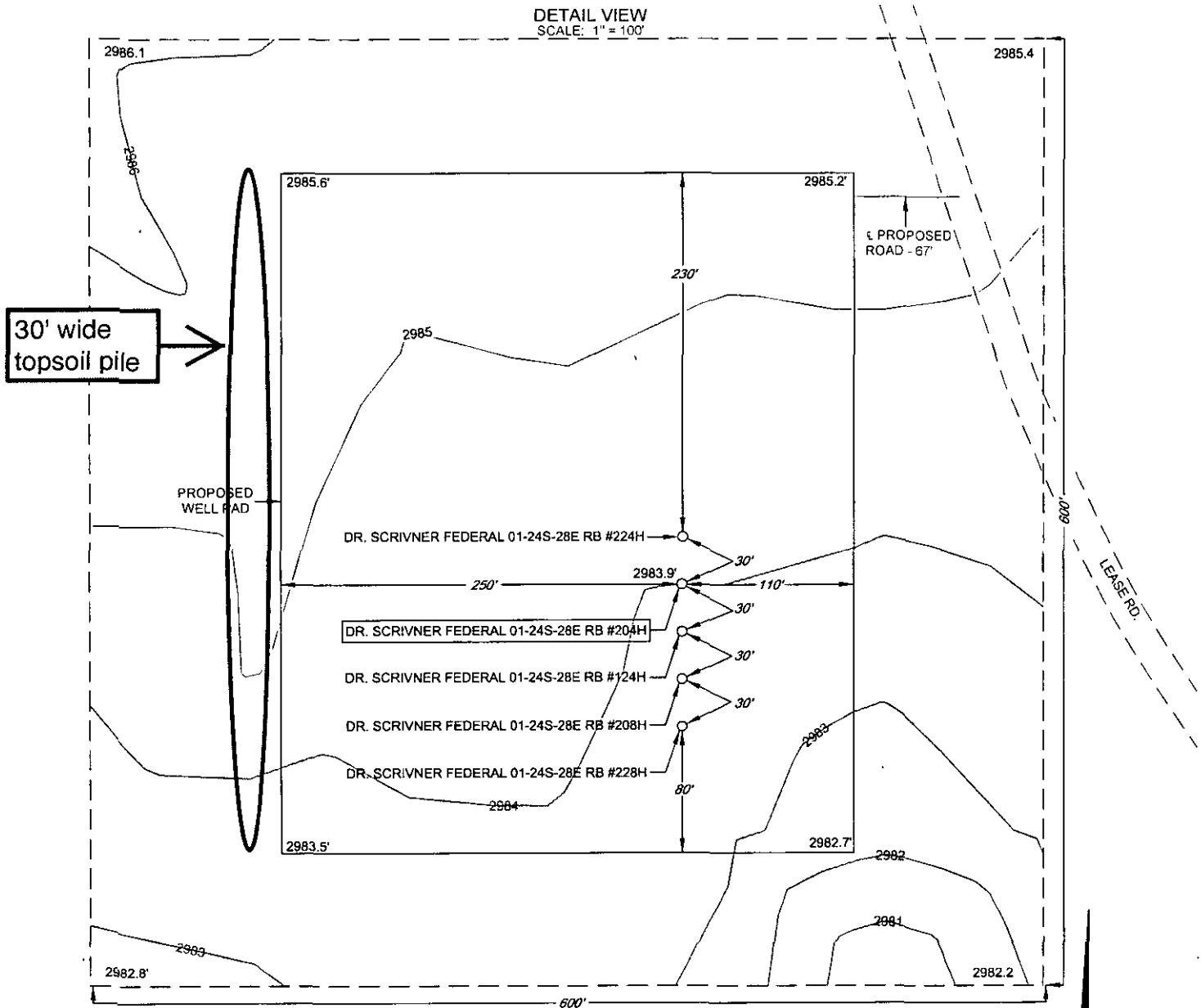
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION COMPANY, ONLY. TITLES, EASEMENTS, AND INTERESTS SHOWN ON THE DATE OF THIS SURVEY, WITHIN THE BOUNDING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON, 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.
4. P.O.B. = POINT OF BEGINNING



MAP 5

SECTION 1, TOWNSHIP 24-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEGEND

--- PROPOSED ROAD
--- ARCH SITE

LEASE NAME & WELL NO.: DR. SCRIVNER FEDERAL 01-24S-28E RB #204H

#204H LATITUDE N 32.2414393 #204H LONGITUDE W 104.0339601

SCALE: 1" = 100'
0' 50' 100'

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

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.

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LOYALTY INNOVATION LEGACY

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ORIGINAL DOCUMENT SIZE: 8.5" X 11"

Matador Production Company

DRILL PLAN PAGE 1

Dr. Scrivner Fed. 01-24S-28E RB 204H

SHL 691' FSL & 661' FEL Sec. 1, T. 24 S., R. 28 E.

BHL 990' FSL & 240' FWL Sec. 1, T. 24 S., R. 28 E.

Eddy County, NM

Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD	Bearing
Quaternary	GL	Water
Eroded Salado/Rustler	500	Water/Salt
Castille	790	Salt
Base of Salt/Top of Anhydrite	2215	Barren
Lamar	2662	Barren
Bell Canyon	2692	Hydrocarbon
Cherry Canyon	3578	Hydrocarbon
Brushy Canyon	4783	Hydrocarbon
Bone Spring Lime	6565	Hydrocarbon
1st Bone Spring Sand	7416	Hydrocarbon
2nd Bone Spring Carbonate	7688	Hydrocarbon
2nd Bone Spring Sand	8189	Hydrocarbon
3rd Bone Spring Carbonate	8543	Hydrocarbon
3rd Bone Spring Sand	9320	Hydrocarbon
Wolfcamp	9663	Target Formation
X Sand	9680	Target Formation
Y Sand	9780	Target Formation
TD (MD = 14624)	9783	Hydrocarbon

2. NOTABLE ZONES

Closest water well (C 02184) is 2,361' to the northwest. Depth to water in that 87' deep well is 60'.

Matador Production Company

DRILL PLAN PAGE 2

Dr. Scrivner Fed. 01-24S-28E RB 204H

SHL 691' FSL & 661' FEL Sec. 1, T. 24 S., R. 28 E.

BHL 990' FSL & 240' FWL Sec. 1, T. 24 S., R. 28 E.

Eddy County, NM

3. PRESSURE CONTROL - See COA

A BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram and one 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 under all casing strings. BOP will be inspected and operated as recommended in Onshore Order 2. A Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs. Test pressures will be as follows: After surface casing is set and the BOP is nipped up, the BOP pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate #1, pressure tests will be made to 250 psi low and 3000 psi high. On the intermediate #2, pressure tests will be made to 250 psi low and 7500 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 ~~1500~~²⁵⁰⁰ psi high on the intermediate #1 and #2 casing. In the case of running a speed head with landing mandrel for 9-5/8" and 7" casing the initial, after surface casing is set, BOP test pressures will be 250 psi low and 3000 psi high with wellhead seals tested to 5000 psi once the 9-5/8" casing has been landed and cemented. The BOP will then be lifted to install the 'C-section' of the wellhead. Matador will nipple the BOP back up and the pressure tests will be made to 250 psi low and 7500 psi high and the annular will be tested to 250 psi low and ~~1500~~²⁵⁰⁰ psi high.

See COA 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.

Matador Production Company

DRILL PLAN PAGE 3

Dr. Scrivner Fed. 01-24S-28E RB 204H.

SHL 691' FSL & 661' FEL Sec. 1, T. 24 S., R. 28 E.

BHL 990' FSL & 240' FWL Sec. 1, T. 24 S., R. 28 E.

Eddy County, NM

4. CASING & CEMENT

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

See COA

Hole O. D.	Set @ (MD)	Casing O. D.	Age	Weight (lb/ft)	Grade	Thread Collar	Collapse	Burst	Tension
17.5"	610' 360	13.375"	New	54.5	J-55	BTC	1.125	1.125	1.8
12.25"	2700'	9.625"	New	40	J-55	BTC	1.125	1.125	1.8
8.75"	13354'	7"	New	29	P-110	BTC/TXP	1.125	1.125	1.8
6.125"	14600'	4.5"	New	13.5	P-110	BTC/TXP	1.125	1.125	1.8

Name	Type	Sacks	Yield	Cu. Ft.	Weight	Blend
Surface	Lead	230	1.82	418.6	12.8	Class C + Bentonite + 2% CaCL2 + 3% NaCl + LCM
	Tail	350	1.38	483	14.8	Class C + 5% NaCl + LCM
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% CaCL2 + 8% NaCl + LCM
	Tail	270	1.38	372.6	14.8	Class C + 5% NaCl + LCM
TOC = 0'		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface	
Intermediate 2	Lead	530	2.35	1245.5	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM
	Tail	300	1.39	417	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM
TOC = 1500'		35% Excess			2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (500' above TOC)	
Production	Tail	500	1.17	585	15.8	Class H + Fluid Loss + Dispersant + Retarder + LCM
TOC = 9000'		10% Excess			2 on btm jt, 1 on 2nd jt, 1 every third jt to top of curve	

additional cement required
See COA

Matador Production Company

DRILL PLAN PAGE 4

Dr. Scrivner Fed. 01-24S-28E RB 204H

SHL 691' FSL & 661' FEL Sec. 1, T. 24 S., R. 28 E.

BHL 990' FSL & 240' FWL Sec. 1, T. 24 S., R. 28 E.

Eddy County, NM

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 the hole condition.

Name	Hole Size	Mud Weight	Visc	Fluid Loss	Type Mud
Surface	17-1/2"	8.30	28	NC	FW Spud Mud
Intermediate	12-1/4"	10.00	30-32	NC	Brine Water
Intermediate 2	8-3/4"	9.00	30-32	NC	FW/Cut Brine
Production	6-1/8"	12.5	50-60	<10	OBM

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud-logging program will be used from 5600' to TD.

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

7. DOWN HOLE CONDITIONS

Possible abnormal pressure - See COA

- ~~No abnormal pressure~~ or temperature is expected. Maximum expected bottom hole pressure is ≈ 7300 psi. Expected bottom hole temperature is $\approx 170^\circ$ F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H_2S from the surface to the Bone Spring to meet the BLM's minimum requirements for the submission of an " H_2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since Matador has a

Matador Production Company

DRILL PLAN PAGE 5

Dr. Scrivner Fed. 01-24S-28E RB 204H

SHL 691' FSL & 661' FEL Sec. 1, T. 24 S., R. 28 E.

BHL 990' FSL & 240' FWL Sec. 1, T. 24 S., R. 28 E.

Eddy County, NM

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 2-1/2 months to drill and complete the well.



Well: 204H
Wellbore: OH
Design: Preliminary Plan 1
Rig:



Strength: 48262.18N1
Dip Angle: 60.10°
Date: 12/8/2015
Model: HDGM

WELL DETAILS

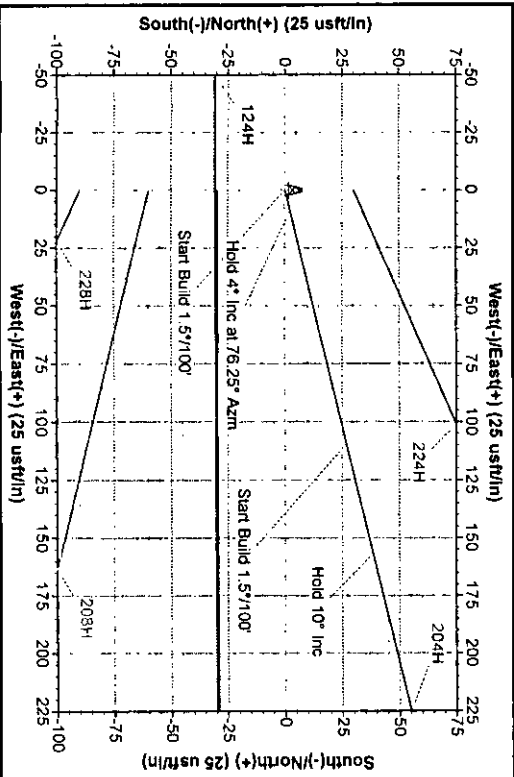
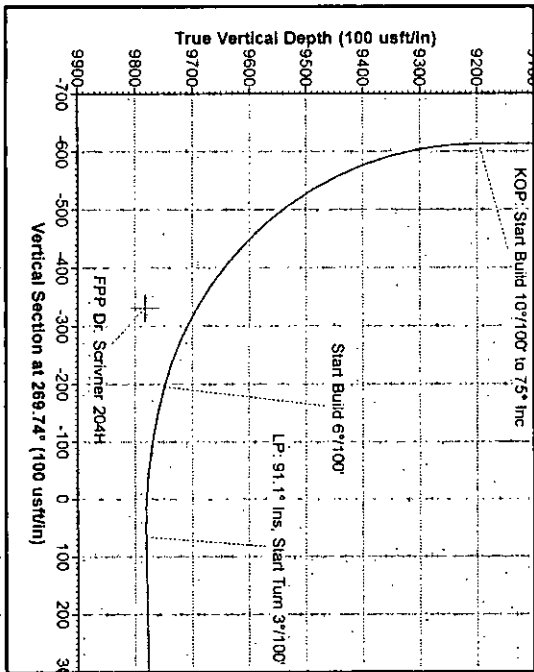
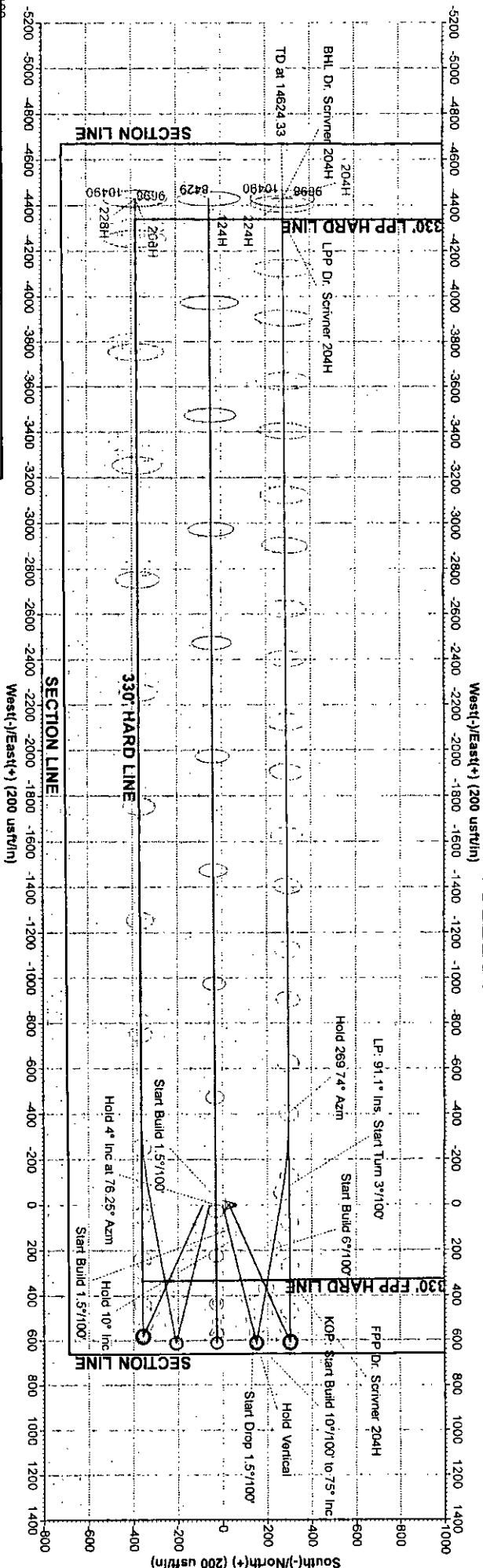
+	N/S	+	E/W	Ground Level	2984.00	Latitude	32° 14' 29.18027 N	Longitude	104° 2' 2.25978 W
+	N/S	0.00	0.00	+	E/W	451683.00	592560.00	32° 14' 29.18027 N	104° 2' 2.25978 W

DESIGN TARGET DETAILS

Name	TVD	+	N/S	+	E/W	Ground Level	2984.00	Latitude	32° 14' 29.18027 N	Longitude	104° 2' 2.25978 W
LPP Dr. Schriener 204H	9697.81	+	N/S	4338.00	+	E/W	451682.00	588222.00	32° 14' 32.05819 N	104° 2' 52.76094 W	104° 2' 53.80867 W
BHL Dr. Schriener 204H	9698.00	+	N/S	4278.00	+	E/W	451682.00	588132.00	32° 14' 32.06055 N	104° 2' 53.80867 W	104° 2' 53.80867 W
FPF Dr. Schriener 204H	9783.00	+	N/S	301.00	+	E/W	451984.00	582890.00	32° 14' 32.14992 N	104° 1' 58.40750 W	104° 1' 58.40750 W

SECTION DETAILS

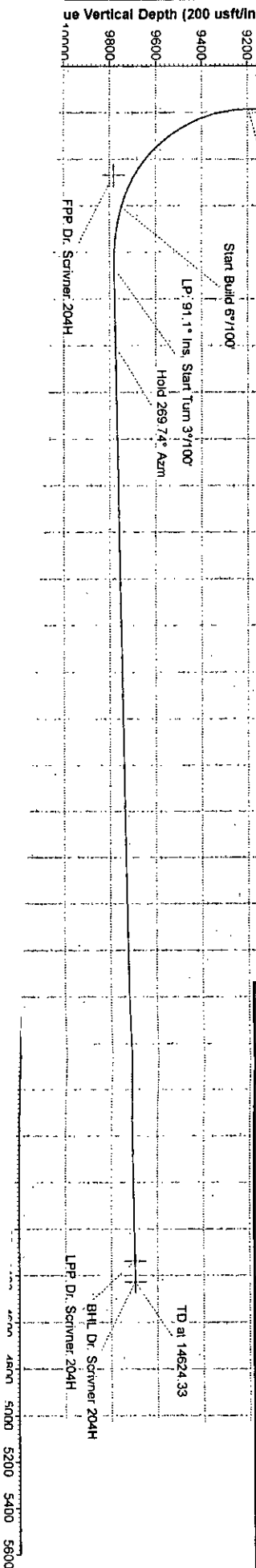
Sec	MD	Inc	AS	TVD	+	N/S	+	E/W	Deg	TFdeg	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.57100'
2	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Hold 4' Inc at 76.25° Azm
3	1266.67	4.00	76.25	1266.45	2.21	9.04	1.50	76.25	-9.05	-9.05	-9.05	-9.05	Start Build 1.57100'
4	2150.00	4.00	76.25	2146.17	26.81	109.54	1.50	76.25	-109.57	-109.57	-109.57	-109.57	Hold 10' Inc
5	3150.00	10.00	76.25	3143.10	38.39	156.89	1.50	0.00	-157.06	-157.06	-157.06	-157.06	Start Drop 1.57100'
6	5519.62	10.00	76.25	5476.62	136.20	556.62	0.00	0.00	-557.23	-557.23	-557.23	-557.23	Hold Vertical
7	6186.38	0.00	0.00	6140.00	150.00	613.00	1.50	180.00	-613.67	-613.67	-613.67	-613.67	KOP: Start Build 10°7'100' to 75° Inc
8	9242.38	0.00	0.00	9196.00	150.00	613.00	0.00	0.00	-613.67	-613.67	-613.67	-613.67	Start Build 67100'
9	9692.38	75.00	279.90	9749.43	223.01	194.66	10.00	279.90	-195.67	-195.67	-195.67	-195.67	LP: 91.1° Ins. Start Turn 37100'
10	10290.72	91.10	279.90	9775.80	288.66	-56.87	6.00	0.00	55.65	55.65	55.65	55.65	Hold 269.74° Azm
11	10599.23	91.10	269.74	9775.80	297.07	403.68	3.00	-89.90	402.33	402.33	402.33	402.33	TD at 14624.33
12	14624.33	91.10	269.74	9036.00	279.07	403.68	3.00	-89.90	402.33	402.33	402.33	402.33	BHL Dr. Schriener 204H



Map System: US State Plane 1927 (Exact solution) Datum: NAD 1927 (NAADCON CONUS) Ellipsoid: Clarke 1866 Zone Name: New Mexico East 3001	Local Origin: Well 204H, Grid North Latitude: 32° 14' 29.18027 N Longitude: 104° 2' 2.25978 W Grid East: 592560.00 Grid North: 451683.00 Scale Factor: 1.000	Geographic Model: HDGM Sample Date: 06-Dec-15 Magnetic Declination: 7.38° Dip Angle from Horizontal: 60.10° Magnetic Field Strength: 48262
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FORMATION TOP DETAILS
No formation data is available

CASING DETAILS
TVD MD Name Size
600.00 600.00 13 3/8 13.3/8
2646.41 2650.00 9 5/8 9.5/8



FORMATION TOP DETAILS
No formation data is available

CASING DETAILS
TVD MD Name Size
600.00 600.00 13 3/8 13.3/8
2646.41 2650.00 9 5/8 9.5/8



Phoenix Technology Services Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 204H
Company:	Matador Resources	TVD Reference:	RKB @ 3011.50usft
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	RKB @ 3011.50usft
Site:	Dr. Scrivner Federal 01-24S-28E RB	North Reference:	Grid
Well:	204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Preliminary Plan 1		

Project	Eddy County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Dr. Scrivner Federal 01-24S-28E RB		
Site Position:		Northing:	451,653.00 usft
From:	Map	Easting:	592,560.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 28.88339 N
		Longitude:	104° 2' 2.26075 W
		Grid Convergence:	0.16 °

Well	204H					
Well Position	+N/-S	30.00 usft	Northing:	451,683.00 usft	Latitude:	32° 14' 29.18027 N
	+E/-W	0.00 usft	Easting:	592,560.00 usft	Longitude:	104° 2' 2.25978 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	2,984.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	HDGM	12/8/2015	(°)	(°)	(nT)
			7.38	60.10	48,282

Design	Preliminary Plan 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	269.74

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,266.67	4.00	76.25	1,266.45	2.21	9.04	1.50	1.50	0.00	76.25	
2,750.00	4.00	76.25	2,746.17	26.81	109.54	0.00	0.00	0.00	0.00	
3,150.09	10.00	76.25	3,143.10	38.39	156.89	1.50	1.50	0.00	0.00	
5,519.63	10.00	76.25	5,476.62	136.20	556.62	0.00	0.00	0.00	0.00	
6,186.38	0.00	0.00	6,140.00	150.00	613.00	1.50	-1.50	0.00	180.00	
9,242.38	0.00	0.00	9,196.00	150.00	613.00	0.00	0.00	0.00	0.00	
9,992.38	75.00	279.90	9,749.43	223.01	194.66	10.00	10.00	0.00	279.90	
10,260.72	91.10	279.90	9,781.80	268.66	-66.87	6.00	6.00	0.00	0.00	
10,599.23	91.10	269.74	9,775.28	297.07	-403.68	3.00	0.00	-3.00	-89.90	
14,624.33	91.10	269.74	9,698.00	279.00	-4,428.00	0.00	0.00	0.00	0.00	BHL Dr. Scrivner 204I



Phoenix Technology Services Planning Report



Database: Compass 5000 GCR
Company: Matador Resources
Project: Eddy County, NM (NAD27 NME)
Site: Dr. Scrivner Federal 01-24S-28E RB
Well: 204H
Wellbore: OH
Design: Preliminary Plan 1

Local Co-ordinate Reference: Well 204H
TVD Reference: RKB @ 3011.50usft
MD Reference: RKB @ 3011.50usft
North Reference: Grid
Survey Calculation Method: 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
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	76.25	1,099.99	0.31	1.27	-1.27	1.50	1.50	0.00
1,200.00	3.00	76.25	1,199.91	1.24	5.08	-5.09	1.50	1.50	0.00
1,266.67	4.00	76.25	1,266.45	2.21	9.04	-9.05	1.50	1.50	0.00
Hold 4° Inc at 76.25° Azm									
1,300.00	4.00	76.25	1,299.70	2.76	11.30	-11.31	0.00	0.00	0.00
1,400.00	4.00	76.25	1,399.46	4.42	18.07	-18.09	0.00	0.00	0.00
1,500.00	4.00	76.25	1,499.22	6.08	24.85	-24.88	0.00	0.00	0.00
1,600.00	4.00	76.25	1,598.97	7.74	31.62	-31.66	0.00	0.00	0.00
1,700.00	4.00	76.25	1,698.73	9.40	38.40	-38.44	0.00	0.00	0.00
1,800.00	4.00	76.25	1,798.48	11.05	45.18	-45.22	0.00	0.00	0.00
1,900.00	4.00	76.25	1,898.24	12.71	51.95	-52.01	0.00	0.00	0.00
2,000.00	4.00	76.25	1,998.00	14.37	58.73	-58.79	0.00	0.00	0.00
2,100.00	4.00	76.25	2,097.75	16.03	65.50	-65.57	0.00	0.00	0.00
2,200.00	4.00	76.25	2,197.51	17.69	72.28	-72.36	0.00	0.00	0.00
2,300.00	4.00	76.25	2,297.27	19.34	79.05	-79.14	0.00	0.00	0.00
2,400.00	4.00	76.25	2,397.02	21.00	85.83	-85.92	0.00	0.00	0.00
2,500.00	4.00	76.25	2,496.78	22.66	92.61	-92.71	0.00	0.00	0.00
2,600.00	4.00	76.25	2,596.54	24.32	99.38	-99.49	0.00	0.00	0.00
2,650.00	4.00	76.25	2,646.41	25.15	102.77	-102.88	0.00	0.00	0.00
9 5/8"									
2,700.00	4.00	76.25	2,696.29	25.98	106.16	-106.27	0.00	0.00	0.00
2,750.00	4.00	76.25	2,746.17	26.81	109.54	-109.67	0.00	0.00	0.00
Start Build 1.5°/100'									
2,800.00	4.75	76.25	2,796.02	27.71	113.25	-113.37	1.50	1.50	0.00
2,900.00	6.25	76.25	2,895.56	29.99	122.56	-122.69	1.50	1.50	0.00
3,000.00	7.75	76.25	2,994.81	32.89	134.40	-134.54	1.50	1.50	0.00
3,100.00	9.25	76.25	3,093.71	36.40	148.75	-148.92	1.50	1.50	0.00
3,150.09	10.00	76.25	3,143.10	38.39	156.89	-157.06	1.50	1.50	0.00
Hold 10° Inc									
3,200.00	10.00	76.25	3,192.25	40.45	165.31	-165.49	0.00	0.00	0.00
3,300.00	10.00	76.25	3,290.73	44.58	182.18	-182.38	0.00	0.00	0.00
3,400.00	10.00	76.25	3,389.21	48.71	199.05	-199.27	0.00	0.00	0.00
3,500.00	10.00	76.25	3,487.69	52.83	215.92	-216.15	0.00	0.00	0.00
3,600.00	10.00	76.25	3,586.17	56.96	232.79	-233.04	0.00	0.00	0.00
3,700.00	10.00	76.25	3,684.65	61.09	249.66	-249.93	0.00	0.00	0.00
3,800.00	10.00	76.25	3,783.13	65.22	266.53	-266.82	0.00	0.00	0.00
3,900.00	10.00	76.25	3,881.61	69.35	283.40	-283.71	0.00	0.00	0.00
4,000.00	10.00	76.25	3,980.09	73.47	300.26	-300.59	0.00	0.00	0.00
4,100.00	10.00	76.25	4,078.57	77.60	317.13	-317.48	0.00	0.00	0.00
4,200.00	10.00	76.25	4,177.05	81.73	334.00	-334.37	0.00	0.00	0.00



Phoenix Technology Services

Planning Report



Database: Compass 5000 GCR
Company: Matador Resources
Project: Eddy County, NM (NAD27 NME)
Site: Dr. Scrivner Federal 01-24S-28E RB
Well: 204H
Wellbore: OH
Design: Preliminary Plan 1

Local Co-ordinate Reference: Well 204H
TVD Reference: RKB @ 3011.50usft
MD Reference: RKB @ 3011.50usft
North Reference: Grid
Survey Calculation Method: 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)
4,300.00	10.00	76.25	4,275.53	85.86	350.87	-351.26	0.00	0.00	0.00
4,400.00	10.00	76.25	4,374.01	89.99	367.74	-368.15	0.00	0.00	0.00
4,500.00	10.00	76.25	4,472.49	94.11	384.61	-385.04	0.00	0.00	0.00
4,600.00	10.00	76.25	4,570.97	98.24	401.48	-401.92	0.00	0.00	0.00
4,700.00	10.00	76.25	4,669.45	102.37	418.35	-418.81	0.00	0.00	0.00
4,800.00	10.00	76.25	4,767.93	106.50	435.22	-435.70	0.00	0.00	0.00
4,900.00	10.00	76.25	4,866.41	110.63	452.09	-452.59	0.00	0.00	0.00
5,000.00	10.00	76.25	4,964.89	114.75	468.96	-469.48	0.00	0.00	0.00
5,100.00	10.00	76.25	5,063.37	118.88	485.83	-486.36	0.00	0.00	0.00
5,200.00	10.00	76.25	5,161.85	123.01	502.70	-503.25	0.00	0.00	0.00
5,300.00	10.00	76.25	5,260.33	127.14	519.57	-520.14	0.00	0.00	0.00
5,400.00	10.00	76.25	5,358.82	131.27	536.44	-537.03	0.00	0.00	0.00
5,500.00	10.00	76.25	5,457.30	135.39	553.31	-553.92	0.00	0.00	0.00
5,519.63	10.00	76.25	5,476.62	136.20	556.62	-557.23	0.00	0.00	0.00
Start Drop 1.5°/100'									
5,600.00	8.80	76.25	5,555.92	139.32	569.37	-569.99	1.50	-1.50	0.00
5,700.00	7.30	76.25	5,654.93	142.65	582.96	-583.60	1.50	-1.50	0.00
5,800.00	5.80	76.25	5,754.28	145.36	594.03	-594.69	1.50	-1.50	0.00
5,900.00	4.30	76.25	5,853.88	147.45	602.58	-603.24	1.50	-1.50	0.00
6,000.00	2.80	76.25	5,953.69	148.92	608.58	-609.25	1.50	-1.50	0.00
6,100.00	1.30	76.25	6,053.62	149.77	612.05	-612.72	1.50	-1.50	0.00
6,186.38	0.00	0.00	6,140.00	150.00	613.00	-613.67	1.50	-1.50	0.00
Hold Vertical									
6,200.00	0.00	0.00	6,153.62	150.00	613.00	-613.67	0.00	0.00	0.00
6,300.00	0.00	0.00	6,253.62	150.00	613.00	-613.67	0.00	0.00	0.00
6,400.00	0.00	0.00	6,353.62	150.00	613.00	-613.67	0.00	0.00	0.00
6,500.00	0.00	0.00	6,453.62	150.00	613.00	-613.67	0.00	0.00	0.00
6,600.00	0.00	0.00	6,553.62	150.00	613.00	-613.67	0.00	0.00	0.00
6,700.00	0.00	0.00	6,653.62	150.00	613.00	-613.67	0.00	0.00	0.00
6,800.00	0.00	0.00	6,753.62	150.00	613.00	-613.67	0.00	0.00	0.00
6,900.00	0.00	0.00	6,853.62	150.00	613.00	-613.67	0.00	0.00	0.00
7,000.00	0.00	0.00	6,953.62	150.00	613.00	-613.67	0.00	0.00	0.00
7,100.00	0.00	0.00	7,053.62	150.00	613.00	-613.67	0.00	0.00	0.00
7,200.00	0.00	0.00	7,153.62	150.00	613.00	-613.67	0.00	0.00	0.00
7,300.00	0.00	0.00	7,253.62	150.00	613.00	-613.67	0.00	0.00	0.00
7,400.00	0.00	0.00	7,353.62	150.00	613.00	-613.67	0.00	0.00	0.00
7,500.00	0.00	0.00	7,453.62	150.00	613.00	-613.67	0.00	0.00	0.00
7,600.00	0.00	0.00	7,553.62	150.00	613.00	-613.67	0.00	0.00	0.00
7,700.00	0.00	0.00	7,653.62	150.00	613.00	-613.67	0.00	0.00	0.00
7,800.00	0.00	0.00	7,753.62	150.00	613.00	-613.67	0.00	0.00	0.00
7,900.00	0.00	0.00	7,853.62	150.00	613.00	-613.67	0.00	0.00	0.00
8,000.00	0.00	0.00	7,953.62	150.00	613.00	-613.67	0.00	0.00	0.00
8,100.00	0.00	0.00	8,053.62	150.00	613.00	-613.67	0.00	0.00	0.00
8,200.00	0.00	0.00	8,153.62	150.00	613.00	-613.67	0.00	0.00	0.00
8,300.00	0.00	0.00	8,253.62	150.00	613.00	-613.67	0.00	0.00	0.00
8,400.00	0.00	0.00	8,353.62	150.00	613.00	-613.67	0.00	0.00	0.00
8,500.00	0.00	0.00	8,453.62	150.00	613.00	-613.67	0.00	0.00	0.00
8,600.00	0.00	0.00	8,553.62	150.00	613.00	-613.67	0.00	0.00	0.00
8,700.00	0.00	0.00	8,653.62	150.00	613.00	-613.67	0.00	0.00	0.00
8,800.00	0.00	0.00	8,753.62	150.00	613.00	-613.67	0.00	0.00	0.00
8,900.00	0.00	0.00	8,853.62	150.00	613.00	-613.67	0.00	0.00	0.00
9,000.00	0.00	0.00	8,953.62	150.00	613.00	-613.67	0.00	0.00	0.00
9,100.00	0.00	0.00	9,053.62	150.00	613.00	-613.67	0.00	0.00	0.00
9,200.00	0.00	0.00	9,153.62	150.00	613.00	-613.67	0.00	0.00	0.00



Phoenix Technology Services Planning Report



Database: Compass 5000 GCR
Company: Matador Resources
Project: Eddy County, NM (NAD27 NME)
Site: Dr. Scrivner Federal 01-24S-28E RB
Well: 204H
Wellbore: OH
Design: Preliminary Plan 1

Local Co-ordinate Reference: Well 204H
TVD Reference: RKB @ 3011.50usft
MD Reference: RKB @ 3011.50usft
North Reference: Grid
Survey Calculation Method: 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)
9,242.38	0.00	0.00	9,196.00	150.00	613.00	-613.67	0.00	0.00	0.00
KOP: Start Build 10°/100' to 75° Inc									
9,250.00	0.76	279.90	9,203.62	150.01	612.95	-613.62	10.00	10.00	0.00
9,300.00	5.76	279.90	9,253.52	150.50	610.15	-610.83	10.00	10.00	0.00
9,350.00	10.76	279.90	9,302.98	151.73	603.07	-603.76	10.00	10.00	0.00
9,400.00	15.76	279.90	9,351.64	153.70	591.78	-592.47	10.00	10.00	0.00
9,450.00	20.76	279.90	9,399.10	156.40	576.35	-577.05	10.00	10.00	0.00
9,500.00	25.76	279.90	9,445.02	159.79	556.90	-557.62	10.00	10.00	0.00
9,550.00	30.76	279.90	9,489.05	163.86	533.59	-534.32	10.00	10.00	0.00
9,600.00	35.76	279.90	9,530.85	168.57	506.58	-507.34	10.00	10.00	0.00
9,650.00	40.76	279.90	9,570.09	173.89	476.09	-476.87	10.00	10.00	0.00
9,700.00	45.76	279.90	9,606.49	179.78	442.34	-443.15	10.00	10.00	0.00
9,750.00	50.76	279.90	9,639.77	186.20	405.60	-406.44	10.00	10.00	0.00
9,800.00	55.76	279.90	9,669.67	193.08	366.14	-367.01	10.00	10.00	0.00
9,850.00	60.76	279.90	9,695.96	200.39	324.26	-325.17	10.00	10.00	0.00
9,900.00	65.76	279.90	9,718.45	208.07	280.29	-281.23	10.00	10.00	0.00
9,950.00	70.76	279.90	9,736.96	216.05	234.55	-235.53	10.00	10.00	0.00
9,992.38	75.00	279.90	9,749.43	223.01	194.66	-195.67	10.00	10.00	0.00
Start Build 6°/100'									
10,000.00	75.46	279.90	9,751.38	224.28	187.40	-188.42	6.00	6.00	0.00
10,050.00	78.46	279.90	9,762.66	232.65	139.42	-140.48	6.00	6.00	0.00
10,100.00	81.46	279.90	9,771.38	241.12	90.93	-92.02	6.00	6.00	0.00
10,150.00	84.46	279.90	9,777.51	249.65	42.05	-43.18	6.00	6.00	0.00
10,200.00	87.46	279.90	9,781.03	258.22	-7.08	-5.90	6.00	6.00	0.00
10,250.00	90.46	279.90	9,781.94	266.81	-56.32	55.11	6.00	6.00	0.00
10,260.72	91.10	279.90	9,781.80	268.66	-66.87	65.65	6.00	6.00	0.00
LP: 91.1° Ins, Start Turn 3°/100'									
10,300.00	91.10	278.72	9,781.04	275.01	-105.63	104.38	3.00	0.00	-3.00
10,400.00	91.10	275.72	9,779.12	287.58	-204.81	203.50	3.00	0.00	-3.00
10,500.00	91.10	272.72	9,777.19	294.93	-304.51	303.17	3.00	0.00	-3.00
10,599.23	91.10	269.74	9,775.28	297.07	-403.68	402.33	3.00	0.00	-3.00
Hold 269.74° Azm									
10,700.00	91.10	269.74	9,773.35	296.61	-504.44	503.09	0.00	0.00	0.00
10,800.00	91.10	269.74	9,771.43	296.17	-604.42	603.07	0.00	0.00	0.00
10,900.00	91.10	269.74	9,769.51	295.72	-704.40	703.05	0.00	0.00	0.00
11,000.00	91.10	269.74	9,767.59	295.27	-804.38	803.03	0.00	0.00	0.00
11,100.00	91.10	269.74	9,765.67	294.82	-904.36	903.01	0.00	0.00	0.00
11,200.00	91.10	269.74	9,763.75	294.37	-1,004.34	1,002.99	0.00	0.00	0.00
11,300.00	91.10	269.74	9,761.83	293.92	-1,104.32	1,102.97	0.00	0.00	0.00
11,400.00	91.10	269.74	9,759.91	293.47	-1,204.30	1,202.96	0.00	0.00	0.00
11,500.00	91.10	269.74	9,757.99	293.02	-1,304.28	1,302.94	0.00	0.00	0.00
11,600.00	91.10	269.74	9,756.07	292.57	-1,404.26	1,402.92	0.00	0.00	0.00
11,700.00	91.10	269.74	9,754.15	292.13	-1,504.24	1,502.90	0.00	0.00	0.00
11,800.00	91.10	269.74	9,752.23	291.68	-1,604.22	1,602.88	0.00	0.00	0.00
11,900.00	91.10	269.74	9,750.31	291.23	-1,704.20	1,702.86	0.00	0.00	0.00
12,000.00	91.10	269.74	9,748.39	290.78	-1,804.18	1,802.85	0.00	0.00	0.00
12,100.00	91.10	269.74	9,746.47	290.33	-1,904.16	1,902.83	0.00	0.00	0.00
12,200.00	91.10	269.74	9,744.55	289.88	-2,004.14	2,002.81	0.00	0.00	0.00
12,300.00	91.10	269.74	9,742.63	289.43	-2,104.13	2,102.79	0.00	0.00	0.00
12,400.00	91.10	269.74	9,740.71	288.98	-2,204.11	2,202.77	0.00	0.00	0.00
12,500.00	91.10	269.74	9,738.79	288.53	-2,304.09	2,302.75	0.00	0.00	0.00
12,600.00	91.10	269.74	9,736.87	288.09	-2,404.07	2,402.74	0.00	0.00	0.00
12,700.00	91.10	269.74	9,734.95	287.64	-2,504.05	2,502.72	0.00	0.00	0.00



Phoenix Technology Services Planning Report



Database: Compass 5000 GCR
Company: Matador Resources
Project: Eddy County, NM (NAD27 NME)
Site: Dr. Scrivner Federal 01-24S-28E RB
Well: 204H
Wellbore: OH
Design: Preliminary Plan 1

Local Co-ordinate Reference: Well 204H
TVD Reference: RKB @ 3011.50usft
MD Reference: RKB @ 3011.50usft
North Reference: Grid
Survey Calculation Method: 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)
12,800.00	91.10	269.74	9,733.03	287.19	-2,604.03	2,602.70	0.00	0.00	0.00
12,900.00	91.10	269.74	9,731.11	286.74	-2,704.01	2,702.68	0.00	0.00	0.00
13,000.00	91.10	269.74	9,729.19	286.29	-2,803.99	2,802.66	0.00	0.00	0.00
13,100.00	91.10	269.74	9,727.27	285.84	-2,903.97	2,902.64	0.00	0.00	0.00
13,200.00	91.10	269.74	9,725.35	285.39	-3,003.95	3,002.62	0.00	0.00	0.00
13,300.00	91.10	269.74	9,723.43	284.94	-3,103.93	3,102.61	0.00	0.00	0.00
13,400.00	91.10	269.74	9,721.51	284.50	-3,203.91	3,202.59	0.00	0.00	0.00
13,500.00	91.10	269.74	9,719.59	284.05	-3,303.89	3,302.57	0.00	0.00	0.00
13,600.00	91.10	269.74	9,717.67	283.60	-3,403.87	3,402.55	0.00	0.00	0.00
13,700.00	91.10	269.74	9,715.75	283.15	-3,503.85	3,502.53	0.00	0.00	0.00
13,800.00	91.10	269.74	9,713.83	282.70	-3,603.83	3,602.51	0.00	0.00	0.00
13,900.00	91.10	269.74	9,711.91	282.25	-3,703.81	3,702.50	0.00	0.00	0.00
14,000.00	91.10	269.74	9,709.99	281.80	-3,803.80	3,802.48	0.00	0.00	0.00
14,100.00	91.10	269.74	9,708.07	281.35	-3,903.78	3,902.46	0.00	0.00	0.00
14,200.00	91.10	269.74	9,706.15	280.90	-4,003.76	4,002.44	0.00	0.00	0.00
14,300.00	91.10	269.74	9,704.23	280.46	-4,103.74	4,102.42	0.00	0.00	0.00
14,400.00	91.10	269.74	9,702.31	280.01	-4,203.72	4,202.40	0.00	0.00	0.00
14,500.00	91.10	269.74	9,700.39	279.56	-4,303.70	4,302.38	0.00	0.00	0.00
14,600.00	91.10	269.74	9,698.47	279.11	-4,403.68	4,402.37	0.00	0.00	0.00
14,624.33	91.10	269.74	9,698.00	279.00	-4,428.00	4,426.69	0.00	0.00	0.00

TD at 14624.33

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
LPP Dr. Scrivner 204H	0.00	0.00	9,697.81	279.00	-4,338.00	451,962.00	588,222.00	32° 14' 32.05819 N	104° 2' 52.76094 W
- plan misses target center by 1.96usft at 14534.35usft MD (9699.73 TVD, 279.40 N, -4338.04 E)									
- Point									
BHL Dr. Scrivner 204H	0.00	0.00	9,698.00	279.00	-4,428.00	451,962.00	588,132.00	32° 14' 32.06055 N	104° 2' 53.80887 W
- plan hits target center									
- Point									
FPP Dr. Scrivner 204H	0.00	0.00	9,783.00	301.00	330.00	451,984.00	592,890.00	32° 14' 32.14992 N	104° 1' 58.40760 W
- plan misses target center by 123.58usft at 9899.58usft MD (9718.28 TVD, 208.00 N, 280.67 E)									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
600.00	600.00	13 3/8"	13-3/8	17-1/2
2,650.00	2,646.41	9 5/8"	9-5/8	12-1/4



Phoenix Technology Services
Planning Report



Database: Compass 5000 GCR
Company: Matador Resources
Project: Eddy County, NM (NAD27 NME)
Site: Dr. Scrivner Federal 01-24S-28E RB
Well: 204H
Wellbore: OH
Design: Preliminary Plan 1

Local Co-ordinate Reference: Well 204H
TVD Reference: RKB @ 3011.50usft
MD Reference: RKB @ 3011.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,000.00	1,000.00	0.00	0.00	Start Build 1.5°/100'
1,266.67	1,266.45	2.21	9.04	Hold 4° Inc at 76.25° Azm
2,750.00	2,746.17	26.81	109.54	Start Build 1.5°/100'
3,150.09	3,143.10	38.39	156.89	Hold 10° Inc
5,519.63	5,476.62	136.20	556.62	Start Drop 1.5°/100'
6,186.38	6,140.00	150.00	613.00	Hold Vertical
9,242.38	9,196.00	150.00	613.00	KOP: Start Build 10°/100' to 75° Inc
9,992.38	9,749.43	223.01	194.66	Start Build 6°/100'
10,260.72	9,781.80	268.66	-66.87	LP: 91.1° Ins, Start Turn 3°/100'
10,599.23	9,775.28	297.07	-403.68	Hold 269.74° Azm
14,624.33	9,698.00	279.00	-4,428.00	TD at 14624.33



Matador Resources

Eddy County, NM (NAD27 NME)
Dr. Scrivner Federal 01-24S-28E RB
204H

OH
Preliminary Plan 1

Anticollision Report

07 April, 2016





Phoenix Technology Services

Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Reference	Preliminary Plan 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 4,000.00 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 4/7/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	14,624.33	Preliminary Plan 1 (OH)	PHX+MWD+HDGM	PHX+OWSG MWD + HDGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Dr. Scrivner Federal 01-24S-28E RB						
124H - OH / Job 1514200 - Preliminary Plan 1	1,000.00	1,000.00	30.00	23.29	4.469	CC
124H - OH / Job 1514200 - Preliminary Plan 1	1,100.00	1,100.00	30.31	22.89	4.088	ES
124H - OH / Job 1514200 - Preliminary Plan 1	2,800.00	2,799.74	57.42	37.75	2.919	SF
208H - OH - Preliminary Plan 1	1,000.00	1,000.00	60.00	53.29	8.939	CC
208H - OH - Preliminary Plan 1	1,100.00	1,099.62	60.62	53.21	8.180	ES
208H - OH - Preliminary Plan 1	14,624.96	14,622.18	659.99	373.88	2.307	SF
224H - OH / Job 1514201 - Preliminary Plan 1	1,000.00	1,000.00	30.00	23.29	4.469	CC
224H - OH / Job 1514201 - Preliminary Plan 1	1,200.00	1,199.36	30.88	22.77	3.806	ES
224H - OH / Job 1514201 - Preliminary Plan 1	9,425.47	9,425.56	148.73	80.37	2.176	SF
228H - OH / Job 1514202 - Preliminary Plan 1	1,000.00	1,000.00	90.00	83.29	13.408	CC, ES
228H - OH / Job 1514202 - Preliminary Plan 1	14,624.96	15,375.34	1,030.91	836.47	5.302	SF
Malaga 1 Federal 1						
1 - OH - Surveys	12,526.81	9,687.62	224.54	117.19	2.092	CC, ES, SF

Offset Design											Offset Site Error:		0.00 usft	
Survey Program: 0-PHX+MWD+HDGM											Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation		Separation Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	0.00	0.00	0.00	0.00	180.00	-30.00	0.00	30.00					
100.00	100.00	100.00	100.00	0.13	0.13	180.00	-30.00	0.00	30.00	29.74	0.26	115.432		
200.00	200.00	200.00	200.00	0.49	0.49	180.00	-30.00	0.00	30.00	29.02	0.98	30.711		
300.00	300.00	300.00	300.00	0.85	0.85	180.00	-30.00	0.00	30.00	28.31	1.69	17.712		
400.00	400.00	400.00	400.00	1.21	1.21	180.00	-30.00	0.00	30.00	27.59	2.41	12.444		
500.00	500.00	500.00	500.00	1.56	1.56	180.00	-30.00	0.00	30.00	26.87	3.13	9.592		
600.00	600.00	600.00	600.00	1.92	1.92	180.00	-30.00	0.00	30.00	26.16	3.84	7.803		
700.00	700.00	700.00	700.00	2.28	2.28	180.00	-30.00	0.00	30.00	25.44	4.56	6.577		
800.00	800.00	800.00	800.00	2.64	2.64	180.00	-30.00	0.00	30.00	24.72	5.28	5.683		
900.00	900.00	900.00	900.00	3.00	3.00	180.00	-30.00	0.00	30.00	24.00	6.00	5.004		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	180.00	-30.00	0.00	30.00	23.29	6.71	4.469 CC		
1,100.00	1,099.99	1,100.00	1,099.99	3.71	3.71	103.67	-30.00	1.31	30.31	22.89	7.41	4.088 ES		
1,200.00	1,199.91	1,200.00	1,199.91	4.06	4.05	103.46	-29.98	5.23	31.23	23.12	8.11	3.852		
1,300.00	1,299.70	1,299.98	1,299.69	4.41	4.40	103.14	-29.96	11.63	32.73	23.92	8.81	3.716		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services

Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design Dr. Scrivner Federal 01-24S-28E RB - 124H - OH / Job 1514200 - Preliminary Plan 1														Offset Site Error:	0.00 usft
Survey Program: O-PHX+MWD+HDCM														Offset Well Error:	0.00 usft
Reference		Offset		Semi-Major Axis		Highside Toolface (°)	Distance		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)										
1,400.00	1,399.46	1,399.97	1,399.43	4.76	4.75	102.83	-29.94	18.60	34.36	24.85	9.51	3.612			
1,500.00	1,499.22	1,499.96	1,499.17	5.12	5.11	102.55	-29.92	25.58	36.00	25.78	10.22	3.521			
1,600.00	1,598.97	1,599.94	1,598.92	5.48	5.46	102.30	-29.89	32.55	37.64	26.70	10.94	3.441			
1,700.00	1,698.73	1,699.93	1,698.66	5.84	5.82	102.07	-29.87	39.53	39.28	27.62	11.66	3.369			
1,800.00	1,798.48	1,799.92	1,798.40	6.20	6.18	101.85	-29.85	46.50	40.92	28.54	12.38	3.306			
1,900.00	1,898.24	1,899.90	1,898.14	6.56	6.54	101.65	-29.82	53.48	42.56	29.46	13.10	3.248			
2,000.00	1,998.00	1,999.89	1,997.89	6.92	6.91	101.48	-29.80	60.45	44.20	30.38	13.83	3.197			
2,100.00	2,097.75	2,099.88	2,097.83	7.29	7.27	101.31	-29.78	67.43	45.85	31.29	14.55	3.150			
2,200.00	2,197.51	2,199.86	2,197.37	7.65	7.63	101.15	-29.75	74.40	47.49	32.21	15.28	3.107			
2,300.00	2,297.27	2,299.85	2,297.12	8.02	8.00	101.00	-29.73	81.38	49.13	33.12	16.01	3.069			
2,400.00	2,397.02	2,399.84	2,396.86	8.38	8.36	100.87	-29.71	88.35	50.77	34.03	16.74	3.033			
2,500.00	2,496.78	2,499.82	2,496.60	8.75	8.73	100.74	-29.68	95.32	52.42	34.94	17.47	3.000			
2,600.00	2,596.54	2,599.81	2,596.34	9.11	9.09	100.62	-29.66	102.30	54.05	35.85	18.20	2.970			
2,700.00	2,696.29	2,699.79	2,696.09	9.48	9.46	100.50	-29.64	109.27	55.70	36.77	18.94	2.942			
2,800.00	2,796.02	2,799.74	2,795.76	9.85	9.83	100.38	-29.61	116.57	57.42	37.75	19.67	2.919 SF			
2,900.00	2,895.56	2,899.63	2,895.19	10.22	10.20	100.22	-29.58	126.13	59.68	39.27	20.41	2.924			
3,000.00	2,994.81	2,999.49	2,994.31	10.60	10.58	100.03	-29.54	138.29	62.55	41.38	21.17	2.955			
3,100.00	3,093.71	3,099.33	3,093.05	10.99	10.96	99.81	-29.49	153.03	66.04	44.10	21.94	3.010			
3,200.00	3,192.25	3,199.19	3,191.45	11.38	11.36	99.62	-29.44	170.04	70.05	47.33	22.73	3.082			
3,300.00	3,290.73	3,299.11	3,289.85	11.78	11.76	99.45	-29.38	187.39	74.15	50.63	23.52	3.152			
3,400.00	3,389.21	3,399.02	3,388.25	12.18	12.16	99.31	-29.33	204.75	78.25	53.92	24.32	3.217			
3,500.00	3,487.69	3,498.94	3,486.65	12.58	12.56	99.18	-29.27	222.10	82.34	57.22	25.13	3.277			
3,600.00	3,586.17	3,598.86	3,585.04	12.99	12.97	99.06	-29.21	239.45	86.44	60.50	25.94	3.333			
3,700.00	3,684.65	3,698.77	3,683.44	13.39	13.37	98.96	-29.16	256.80	90.54	63.79	26.75	3.385			
3,800.00	3,783.13	3,798.69	3,781.84	13.80	13.78	98.85	-29.10	274.15	94.63	67.07	27.56	3.433			
3,900.00	3,881.61	3,898.60	3,880.24	14.21	14.19	98.77	-29.04	291.50	98.73	70.35	28.38	3.479			
4,000.00	3,980.09	3,998.52	3,978.63	14.62	14.61	98.69	-28.99	308.85	102.83	73.63	29.20	3.521			
4,100.00	4,078.57	4,098.44	4,077.03	15.03	15.02	98.61	-28.93	326.20	106.93	76.90	30.03	3.561			
4,200.00	4,177.05	4,198.35	4,175.43	15.44	15.43	98.54	-28.87	343.55	111.03	80.18	30.85	3.599			
4,300.00	4,275.53	4,298.27	4,273.83	15.86	15.85	98.47	-28.82	360.90	115.13	83.45	31.68	3.634			
4,400.00	4,374.01	4,398.18	4,372.23	16.27	16.27	98.41	-28.76	378.26	119.22	86.71	32.51	3.667			
4,500.00	4,472.49	4,498.10	4,470.62	16.69	16.68	98.36	-28.70	395.61	123.32	89.98	33.34	3.699			
4,600.00	4,570.97	4,598.02	4,569.02	17.11	17.10	98.30	-28.65	412.96	127.42	93.25	34.18	3.729			
4,700.00	4,669.45	4,697.93	4,667.42	17.52	17.52	98.25	-28.59	430.31	131.52	96.51	35.01	3.757			
4,800.00	4,767.93	4,797.85	4,765.82	17.94	17.94	98.21	-28.53	447.66	135.62	99.77	35.85	3.783			
4,900.00	4,866.41	4,897.75	4,864.22	18.36	18.36	98.16	-28.48	465.01	139.72	103.04	36.68	3.809			
5,000.00	4,964.89	4,997.68	4,962.61	18.78	18.78	98.12	-28.42	482.36	143.82	106.30	37.52	3.833			
5,100.00	5,063.37	5,097.59	5,061.01	19.20	19.20	98.08	-28.37	499.71	147.92	109.55	38.36	3.856			
5,200.00	5,161.85	5,197.51	5,159.41	19.62	19.62	98.04	-28.31	517.06	152.02	112.81	39.21	3.877			
5,300.00	5,260.33	5,297.43	5,257.81	20.04	20.05	98.01	-28.25	534.41	156.12	116.07	40.05	3.898			
5,400.00	5,358.82	5,397.34	5,356.20	20.47	20.47	97.98	-28.20	551.76	160.22	119.33	40.89	3.918			
5,500.00	5,457.30	5,497.60	5,455.10	20.89	20.89	98.29	-28.14	568.18	164.23	122.49	41.73	3.935			
5,600.00	5,555.92	5,597.85	5,554.39	21.31	21.30	99.24	-28.10	582.02	167.91	125.35	42.56	3.945			
5,700.00	5,654.93	5,698.05	5,653.96	21.71	21.69	100.18	-28.06	593.25	171.02	127.67	43.36	3.944			
5,800.00	5,754.28	5,798.21	5,753.75	22.10	22.06	101.10	-28.03	601.85	173.57	129.44	44.12	3.934			
5,900.00	5,853.88	5,898.31	5,853.67	22.48	22.42	102.00	-28.01	607.83	175.54	130.68	44.86	3.913			
6,000.00	5,953.69	5,998.35	5,953.65	22.84	22.77	102.89	-28.00	611.20	176.94	131.37	45.57	3.883			
6,100.00	6,053.62	6,098.33	6,053.62	23.19	23.10	103.76	-28.00	612.00	177.77	131.53	46.24	3.844			
6,200.00	6,153.62	6,198.33	6,153.62	23.52	23.42	-179.68	-28.00	612.00	178.00	133.77	44.23	4.024			
6,300.00	6,253.62	6,298.33	6,253.62	23.84	23.74	-179.68	-28.00	612.00	178.00	133.10	44.91	3.964			
6,400.00	6,353.62	6,398.33	6,353.62	24.17	24.07	-179.68	-28.00	612.00	178.00	132.42	45.59	3.905			
6,500.00	6,453.62	6,498.33	6,453.62	24.50	24.40	-179.68	-28.00	612.00	178.00	131.74	46.27	3.847			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services

Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design														Offset Site Error: 0.00 usft	
Survey Program: 0-PHX+MWD+HDGM														Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
6,600.00	6,553.62	6,598.33	6,553.62	24.82	24.72	-179.68	-28.00	612.00	178.00	131.06	46.95	3.792			
6,700.00	6,653.62	6,698.33	6,653.62	25.15	25.05	-179.68	-28.00	612.00	178.00	130.38	47.63	3.737			
6,800.00	6,753.62	6,798.33	6,753.62	25.48	25.38	-179.69	-28.00	612.00	178.00	129.69	48.31	3.685			
6,900.00	6,853.62	6,898.33	6,853.62	25.81	25.71	-179.69	-28.00	612.00	178.00	129.01	48.99	3.633			
7,000.00	6,953.62	6,998.33	6,953.62	26.14	26.04	-179.68	-28.00	612.00	178.00	128.32	49.68	3.583			
7,100.00	7,053.62	7,098.33	7,053.62	26.47	26.37	-179.68	-28.00	612.00	178.00	127.64	50.36	3.534			
7,200.00	7,153.62	7,198.33	7,153.62	26.81	26.70	-179.68	-28.00	612.00	178.00	126.95	51.05	3.487			
7,300.00	7,253.62	7,298.33	7,253.62	27.14	27.03	-179.68	-28.00	612.00	178.00	126.27	51.74	3.441			
7,400.00	7,353.62	7,398.33	7,353.62	27.47	27.36	-179.68	-28.00	612.00	178.00	125.58	52.43	3.395			
7,500.00	7,453.62	7,498.33	7,453.62	27.81	27.70	-179.68	-28.00	612.00	178.00	124.89	53.11	3.351			
7,600.00	7,553.62	7,598.33	7,553.62	28.14	28.03	-178.68	-28.00	612.00	178.00	124.20	53.80	3.308			
7,700.00	7,653.62	7,698.33	7,653.62	28.48	28.36	-179.68	-28.00	612.00	178.00	123.51	54.49	3.267			
7,800.00	7,753.62	7,798.33	7,753.62	28.81	28.70	-179.68	-28.00	612.00	178.00	122.82	55.18	3.226			
7,900.00	7,853.62	7,898.33	7,853.62	29.15	29.03	-179.68	-28.00	612.00	178.00	122.13	55.88	3.186			
7,962.44	7,916.05	7,960.76	7,916.05	29.36	29.24	-179.68	-28.00	612.00	178.00	121.70	56.31	3.161			
8,000.00	7,953.62	7,998.29	7,953.58	29.49	29.37	-179.64	-28.00	611.88	178.00	121.44	56.57	3.147			
8,100.00	8,053.62	8,096.61	8,051.22	29.82	29.66	-176.30	-28.05	601.49	178.44	121.24	57.20	3.120			
8,200.00	8,153.62	8,188.84	8,139.96	30.16	29.89	-168.49	-28.16	576.72	182.33	124.52	57.81	3.154			
8,300.00	8,253.62	8,271.36	8,215.08	30.50	30.09	-158.49	-28.32	542.74	195.50	137.01	58.49	3.343			
8,400.00	8,353.62	8,342.79	8,275.60	30.84	30.27	-148.79	-28.48	504.87	222.79	163.58	59.22	3.762			
8,500.00	8,453.62	8,400.00	8,320.37	31.18	30.42	-141.19	-28.65	469.30	265.18	205.26	59.92	4.426			
8,600.00	8,553.62	8,450.00	8,356.43	31.52	30.56	-135.08	-28.81	434.68	320.39	259.81	60.59	5.288			
8,700.00	8,653.62	8,500.00	8,389.33	31.86	30.73	-129.65	-28.88	397.06	385.37	324.12	61.25	6.291			
8,800.00	8,753.62	8,533.66	8,409.58	32.20	30.87	-126.41	-28.10	370.18	457.60	395.79	61.82	7.403			
8,900.00	8,853.62	8,564.40	8,426.67	32.54	31.00	-123.73	-29.22	344.62	535.19	472.83	62.36	8.582			
9,000.00	8,953.62	8,600.00	8,444.71	32.88	31.16	-120.95	-29.36	313.94	616.92	553.99	62.93	9.803			
9,100.00	9,053.62	8,600.00	8,444.71	33.22	31.16	-120.95	-29.36	313.94	701.70	638.42	63.28	11.089			
9,200.00	9,153.62	8,632.92	8,459.66	33.56	31.34	-118.66	-29.49	284.62	788.43	724.58	63.85	12.349			
9,300.00	9,253.62	8,650.00	8,466.75	33.89	31.44	-31.68	-29.56	269.08	876.21	814.08	62.14	14.101			
9,400.00	9,351.64	8,672.31	8,475.31	34.18	31.58	-24.20	-29.66	248.48	958.87	898.71	60.15	15.940			
9,500.00	9,445.02	8,700.00	8,484.80	34.44	31.76	-19.63	-29.78	222.47	1,034.31	977.61	56.70	18.241			
9,600.00	9,530.85	8,722.44	8,491.57	34.69	31.93	-16.75	-29.87	201.08	1,101.28	1,049.39	51.89	21.224			
9,700.00	9,606.49	8,750.00	8,498.73	34.95	32.13	-14.86	-30.00	174.46	1,158.84	1,112.83	46.01	25.187			
9,800.00	9,669.67	8,779.18	8,504.90	35.28	32.37	-13.62	-30.13	145.95	1,206.23	1,166.70	39.54	30.509			
9,900.00	9,718.45	8,800.00	8,508.41	35.73	32.55	-12.81	-30.22	125.43	1,242.96	1,209.76	33.20	37.436			
10,000.00	9,751.38	8,850.00	8,513.78	36.35	33.01	-12.54	-30.45	75.73	1,268.46	1,239.84	28.52	44.476			
10,100.00	9,771.38	8,870.08	8,514.72	37.14	33.21	-12.44	-30.54	55.68	1,286.17	1,259.16	27.01	47.616			
10,200.00	9,781.03	8,907.12	8,514.67	38.10	33.60	-12.52	-30.71	18.65	1,299.16	1,272.11	27.05	48.022			
10,300.00	9,781.04	9,005.58	8,512.77	39.22	34.74	-13.24	-31.16	-79.79	1,304.96	1,276.26	28.70	45.469			
10,400.00	9,779.12	9,104.71	8,510.86	40.51	36.08	-13.94	-31.61	-178.91	1,308.06	1,277.81	30.15	43.386			
10,500.00	9,777.19	9,204.40	8,508.94	41.95	37.59	-14.38	-32.06	-278.58	1,309.98	1,278.40	31.58	41.481			
10,600.00	9,775.27	9,304.35	8,507.02	43.52	39.24	-14.57	-32.52	-378.51	1,310.63	1,277.69	32.94	39.791			
10,700.00	9,773.35	9,404.35	8,505.09	45.20	41.03	-14.57	-32.98	-478.49	1,310.64	1,276.46	34.18	38.350			
10,800.00	9,771.43	9,504.35	8,503.16	46.99	42.93	-14.57	-33.43	-578.47	1,310.65	1,275.16	35.49	36.928			
10,900.00	9,769.51	9,604.35	8,501.24	48.88	44.93	-14.57	-33.89	-678.45	1,310.66	1,273.78	36.88	35.541			
11,000.00	9,767.59	9,704.35	8,499.31	50.85	47.02	-14.57	-34.34	-778.43	1,310.66	1,272.34	38.33	34.198			
11,100.00	9,765.67	9,804.35	8,497.38	52.91	49.18	-14.57	-34.80	-878.41	1,310.67	1,270.84	39.83	32.906			
11,200.00	9,763.75	9,904.35	8,495.46	55.03	51.40	-14.57	-35.26	-978.39	1,310.68	1,269.30	41.38	31.671			
11,300.00	9,761.83	10,004.35	8,493.53	57.21	53.69	-14.57	-35.71	-1,078.37	1,310.69	1,267.71	42.98	30.494			
11,400.00	9,759.91	10,104.35	8,491.60	59.45	56.02	-14.57	-36.17	-1,178.35	1,310.70	1,266.08	44.62	29.375			
11,500.00	9,757.99	10,204.35	8,489.68	61.74	58.40	-14.57	-36.62	-1,278.33	1,310.71	1,264.42	46.29	28.314			
11,600.00	9,756.07	10,304.35	8,487.75	64.08	60.82	-14.57	-37.08	-1,378.32	1,310.72	1,262.72	48.00	27.309			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services

Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Dr. Scrivner Federal 01-24S-28E RB - 124H - OH / Job 1514200 - Preliminary Plan 1													Offset Well Error:	0.00 usft
Survey Program: 0-PHX+MWD+HDGM														
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)				+N-S (usft)	+E-W (usft)	
11,700.00	9,754.15	10,404.35	8,485.82	66.45	63.27	-14.57	-37.54	-1,478.30	1,310.72	1,261.00	49.73	26.358		
11,800.00	9,752.23	10,504.35	8,483.90	68.86	65.75	-14.57	-37.99	-1,578.28	1,310.73	1,259.25	51.49	25.458		
11,900.00	9,750.31	10,604.35	8,481.97	71.30	68.26	-14.57	-38.45	-1,678.26	1,310.74	1,257.47	53.27	24.607		
12,000.00	9,748.39	10,704.35	8,480.04	73.76	70.80	-14.57	-38.91	-1,778.24	1,310.75	1,255.68	55.07	23.802		
12,100.00	9,746.47	10,804.35	8,478.12	76.26	73.35	-14.57	-39.36	-1,878.22	1,310.76	1,253.87	56.89	23.040		
12,200.00	9,744.55	10,904.35	8,476.19	78.77	75.93	-14.57	-39.82	-1,978.20	1,310.77	1,252.04	58.73	22.319		
12,300.00	9,742.63	11,004.35	8,474.26	81.31	78.52	-14.57	-40.27	-2,078.18	1,310.77	1,250.19	60.58	21.636		
12,400.00	9,740.71	11,104.35	8,472.34	83.87	81.13	-14.57	-40.73	-2,178.16	1,310.78	1,248.33	62.45	20.989		
12,500.00	9,738.79	11,204.35	8,470.41	86.44	83.76	-14.57	-41.19	-2,278.14	1,310.79	1,246.46	64.33	20.375		
12,600.00	9,736.87	11,304.35	8,468.48	89.03	86.40	-14.57	-41.64	-2,378.12	1,310.80	1,244.58	66.22	19.794		
12,700.00	9,734.95	11,404.35	8,466.55	91.64	89.05	-14.57	-42.10	-2,478.10	1,310.81	1,242.68	68.13	19.241		
12,800.00	9,733.03	11,504.35	8,464.63	94.26	91.71	-14.57	-42.56	-2,578.08	1,310.82	1,240.78	70.04	18.715		
12,900.00	9,731.11	11,604.35	8,462.70	96.89	94.38	-14.57	-43.01	-2,678.06	1,310.82	1,238.86	71.96	18.215		
13,000.00	9,729.19	11,704.35	8,460.77	99.53	97.06	-14.58	-43.47	-2,778.04	1,310.83	1,236.94	73.89	17.740		
13,100.00	9,727.27	11,804.35	8,458.85	102.18	99.75	-14.58	-43.92	-2,878.02	1,310.84	1,235.01	75.83	17.286		
13,200.00	9,725.35	11,904.35	8,456.92	104.85	102.44	-14.58	-44.38	-2,978.00	1,310.85	1,233.07	77.78	16.854		
13,300.00	9,723.43	12,004.35	8,454.99	107.52	105.15	-14.58	-44.84	-3,077.98	1,310.86	1,231.13	79.73	16.441		
13,400.00	9,721.51	12,104.35	8,453.07	110.20	107.86	-14.58	-45.29	-3,177.96	1,310.87	1,229.18	81.69	16.047		
13,500.00	9,719.59	12,204.35	8,451.14	112.88	110.58	-14.58	-45.75	-3,277.94	1,310.88	1,227.22	83.66	15.670		
13,600.00	9,717.67	12,304.35	8,449.21	115.58	113.30	-14.58	-46.20	-3,377.92	1,310.88	1,225.26	85.63	15.309		
13,700.00	9,715.75	12,404.35	8,447.29	118.28	116.03	-14.58	-46.66	-3,477.90	1,310.89	1,223.29	87.60	14.964		
13,800.00	9,713.83	12,504.35	8,445.36	120.99	118.76	-14.58	-47.12	-3,577.88	1,310.90	1,221.32	89.58	14.634		
13,900.00	9,711.91	12,604.35	8,443.43	123.70	121.50	-14.58	-47.57	-3,677.86	1,310.91	1,219.34	91.57	14.316		
14,000.00	9,709.99	12,704.35	8,441.51	126.42	124.24	-14.58	-48.03	-3,777.84	1,310.92	1,217.36	93.56	14.012		
14,100.00	9,708.07	12,804.35	8,439.58	129.14	126.99	-14.58	-48.49	-3,877.82	1,310.93	1,215.38	95.55	13.720		
14,200.00	9,706.15	12,904.35	8,437.65	131.87	129.74	-14.58	-48.94	-3,977.81	1,310.93	1,213.39	97.54	13.439		
14,300.00	9,704.23	13,004.35	8,435.73	134.61	132.49	-14.58	-49.40	-4,077.79	1,310.94	1,211.40	99.54	13.169		
14,400.00	9,702.31	13,104.35	8,433.80	137.35	135.25	-14.58	-49.85	-4,177.77	1,310.95	1,209.40	101.55	12.910		
14,500.00	9,700.39	13,204.35	8,431.87	140.09	138.01	-14.58	-50.31	-4,277.75	1,310.96	1,207.41	103.55	12.660		
14,600.00	9,698.47	13,304.35	8,429.95	142.83	140.77	-14.58	-50.77	-4,377.73	1,310.97	1,205.41	105.56	12.419		
14,624.96	9,697.99	13,329.31	8,429.47	143.51	141.46	-14.58	-50.88	-4,402.68	1,310.97	1,204.91	106.06	12.361		



Phoenix Technology Services

Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Dr. Scrivner Federal 01-24S-28E RB - 208H - OH - Preliminary Plan 1													Offset Well Error:	0.00 usft
Survey Program: O-PHX+MWD+HDGM														
Reference		Offset		Semi Major Axis		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	180.00	-60.00	0.00	60.00					
100.00	100.00	100.00	100.00	0.13	0.13	180.00	-60.00	0.00	60.00	59.74	0.26	230.865		
200.00	200.00	200.00	200.00	0.49	0.49	180.00	-60.00	0.00	60.00	59.02	0.98	61.423		
300.00	300.00	300.00	300.00	0.85	0.85	180.00	-60.00	0.00	60.00	58.31	1.69	35.424		
400.00	400.00	400.00	400.00	1.21	1.21	180.00	-60.00	0.00	60.00	57.59	2.41	24.889		
500.00	500.00	500.00	500.00	1.56	1.56	180.00	-60.00	0.00	60.00	56.87	3.13	19.184		
600.00	600.00	600.00	600.00	1.92	1.92	180.00	-60.00	0.00	60.00	56.16	3.84	15.606		
700.00	700.00	700.00	700.00	2.28	2.28	180.00	-60.00	0.00	60.00	55.44	4.56	13.153		
800.00	800.00	800.00	800.00	2.64	2.64	180.00	-60.00	0.00	60.00	54.72	5.28	11.367		
900.00	900.00	900.00	900.00	3.00	3.00	180.00	-60.00	0.00	60.00	54.00	6.00	10.008		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	180.00	-60.00	0.00	60.00	53.29	6.71	8.939 CC		
1,100.00	1,099.99	1,099.62	1,099.61	3.71	3.70	103.75	-60.31	1.26	60.62	53.21	7.41	8.180 ES		
1,200.00	1,199.91	1,199.23	1,199.14	4.06	4.04	103.73	-61.23	5.05	62.48	54.39	8.10	7.716		
1,300.00	1,299.70	1,298.91	1,298.62	4.41	4.39	103.72	-62.75	11.22	65.52	56.73	8.79	7.451		
1,400.00	1,399.46	1,398.86	1,398.32	4.76	4.74	103.72	-64.40	17.99	68.84	59.34	9.50	7.248		
1,500.00	1,499.22	1,498.80	1,498.02	5.12	5.09	103.72	-66.06	24.77	72.15	61.94	10.21	7.070		
1,600.00	1,598.97	1,598.75	1,597.72	5.48	5.44	103.72	-67.72	31.54	75.47	64.55	10.92	6.912		
1,700.00	1,698.73	1,698.69	1,697.42	5.84	5.80	103.72	-69.37	38.31	78.78	67.15	11.63	6.771		
1,800.00	1,798.48	1,798.64	1,797.13	6.20	6.16	103.72	-71.03	45.08	82.10	69.74	12.35	6.646		
1,900.00	1,898.24	1,898.58	1,896.83	6.56	6.52	103.72	-72.69	51.86	85.41	72.34	13.07	6.533		
2,000.00	1,998.00	1,998.53	1,996.53	6.92	6.88	103.72	-74.35	58.63	88.73	74.93	13.80	6.431		
2,100.00	2,097.75	2,098.47	2,096.23	7.29	7.24	103.72	-76.00	65.40	92.04	77.52	14.52	6.338		
2,200.00	2,197.51	2,198.42	2,195.93	7.65	7.61	103.72	-77.66	72.17	95.36	80.11	15.25	6.254		
2,300.00	2,297.27	2,298.36	2,295.63	8.02	7.97	103.72	-79.32	78.94	98.68	82.70	15.98	6.176		
2,400.00	2,397.02	2,398.31	2,395.34	8.38	8.33	103.72	-80.97	85.72	101.99	85.29	16.70	6.105		
2,500.00	2,496.78	2,498.25	2,495.04	8.75	8.70	103.72	-82.63	92.49	105.31	87.87	17.43	6.040		
2,600.00	2,596.54	2,598.20	2,594.74	9.11	9.06	103.72	-84.29	99.26	108.62	90.46	18.16	5.980		
2,700.00	2,696.29	2,698.14	2,694.44	9.48	9.43	103.72	-85.95	106.03	111.94	93.04	18.90	5.924		
2,800.00	2,796.02	2,797.74	2,793.78	9.85	9.80	103.70	-87.67	113.07	115.40	95.77	19.63	5.880		
2,900.00	2,895.58	2,896.92	2,892.50	10.22	10.17	103.67	-89.91	122.23	119.94	99.58	20.37	5.890		
3,000.00	2,994.81	2,996.00	2,990.85	10.60	10.54	103.63	-92.76	133.87	125.71	104.59	21.11	5.954		
3,100.00	3,093.71	3,094.97	3,088.74	10.99	10.93	103.58	-96.21	147.97	132.70	110.83	21.88	6.066		
3,200.00	3,192.25	3,194.18	3,186.52	11.38	11.32	103.55	-100.21	164.33	140.78	118.12	22.66	6.214		
3,300.00	3,290.73	3,293.84	3,284.67	11.78	11.72	103.55	-104.32	181.13	149.03	125.58	23.45	6.356		
3,400.00	3,389.21	3,393.50	3,382.81	12.18	12.12	103.55	-108.44	197.94	157.28	133.03	24.24	6.487		
3,500.00	3,487.69	3,493.16	3,480.96	12.58	12.52	103.55	-112.55	214.75	165.52	140.48	25.04	6.609		
3,600.00	3,586.17	3,592.82	3,579.10	12.99	12.92	103.55	-116.66	231.56	173.77	147.83	25.85	6.723		
3,700.00	3,684.65	3,692.48	3,677.25	13.39	13.33	103.55	-120.78	248.37	182.02	155.37	26.66	6.829		
3,800.00	3,783.13	3,792.14	3,775.39	13.80	13.74	103.56	-124.89	265.18	190.27	162.80	27.47	6.928		
3,900.00	3,881.61	3,891.80	3,873.54	14.21	14.15	103.56	-129.00	281.99	198.52	170.24	28.28	7.020		
4,000.00	3,980.09	3,991.46	3,971.68	14.62	14.56	103.56	-133.11	298.79	206.76	177.67	29.10	7.106		
4,100.00	4,078.57	4,091.12	4,069.83	15.03	14.97	103.56	-137.23	315.60	215.01	185.10	29.91	7.188		
4,200.00	4,177.05	4,190.78	4,167.98	15.44	15.39	103.56	-141.34	332.41	223.26	192.52	30.74	7.264		
4,300.00	4,275.53	4,290.44	4,266.12	15.85	15.80	103.56	-145.45	349.22	231.51	199.95	31.56	7.336		
4,400.00	4,374.01	4,390.10	4,364.27	16.27	16.22	103.56	-149.57	366.03	239.76	207.37	32.38	7.403		
4,500.00	4,472.49	4,489.76	4,462.41	16.69	16.64	103.56	-153.68	382.84	248.00	214.79	33.21	7.467		
4,600.00	4,570.97	4,589.41	4,560.56	17.11	17.06	103.56	-157.79	399.65	256.25	222.21	34.04	7.528		
4,700.00	4,669.45	4,689.07	4,658.70	17.52	17.47	103.56	-161.91	416.45	264.50	229.63	34.87	7.585		
4,800.00	4,767.93	4,788.73	4,756.85	17.94	17.89	103.56	-166.02	433.26	272.75	237.05	35.70	7.640		
4,900.00	4,866.41	4,888.39	4,854.99	18.36	18.31	103.56	-170.13	450.07	281.00	244.46	36.54	7.691		
5,000.00	4,964.89	4,988.05	4,953.14	18.78	18.74	103.56	-174.24	466.88	289.24	251.87	37.37	7.740		
5,100.00	5,063.37	5,087.71	5,051.28	19.20	19.16	103.56	-178.36	483.69	297.49	259.29	38.21	7.787		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services
Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design											Offset Site Error: 0.00 usft	
Dr. Scrivner Federal 01-24S-28E RB - 208H - OH - Preliminary Plan 1											Offset Well Error: 0.00 usft	
Survey Program: U-PHX+MWD+HDGM												
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
5,200.00	5,161.85	5,187.37	5,149.43	19.62	19.58	103.56	-182.47	500.50	305.74	266.70	39.04	7.831
5,300.00	5,260.33	5,287.03	5,247.58	20.04	20.00	103.56	-186.58	517.30	313.99	274.11	39.88	7.873
5,400.00	5,358.82	5,386.69	5,345.72	20.47	20.43	103.56	-190.70	534.11	322.24	281.52	40.72	7.914
5,500.00	5,457.30	5,486.35	5,443.87	20.89	20.85	103.56	-194.81	550.92	330.48	288.93	41.56	7.952
5,600.00	5,555.92	5,587.42	5,543.50	21.31	21.28	103.61	-198.84	567.40	338.40	296.00	42.40	7.980
5,700.00	5,654.93	5,689.34	5,644.37	21.71	21.69	103.66	-202.31	581.57	345.12	301.90	43.23	7.984
5,800.00	5,754.28	5,791.38	5,745.71	22.10	22.09	103.69	-205.14	593.13	350.60	306.58	44.02	7.964
5,900.00	5,853.88	5,893.52	5,847.43	22.48	22.48	103.72	-207.32	602.06	354.83	310.05	44.79	7.923
6,000.00	5,953.69	5,995.74	5,949.44	22.84	22.85	103.74	-208.86	608.36	357.81	312.29	45.52	7.860
6,100.00	6,053.62	6,098.00	6,051.64	23.19	23.21	103.75	-209.75	612.00	359.53	313.30	46.23	7.777
6,200.00	6,153.62	6,199.99	6,153.62	23.52	23.54	180.00	-210.00	613.00	360.00	315.53	44.47	8.095
6,300.00	6,253.62	6,299.99	6,253.62	23.84	23.86	180.00	-210.00	613.00	360.00	314.86	45.14	7.975
6,400.00	6,353.62	6,399.99	6,353.62	24.17	24.18	180.00	-210.00	613.00	360.00	314.19	45.81	7.858
6,500.00	6,453.62	6,499.99	6,453.62	24.50	24.50	180.00	-210.00	613.00	360.00	313.51	46.49	7.744
6,600.00	6,553.62	6,599.99	6,553.62	24.82	24.82	180.00	-210.00	613.00	360.00	312.84	47.16	7.634
6,700.00	6,653.62	6,699.99	6,653.62	25.15	25.14	180.00	-210.00	613.00	360.00	312.16	47.84	7.526
6,800.00	6,753.62	6,799.99	6,753.62	25.48	25.47	180.00	-210.00	613.00	360.00	311.49	48.51	7.421
6,900.00	6,853.62	6,899.99	6,853.62	25.81	25.79	180.00	-210.00	613.00	360.00	310.81	49.19	7.319
7,000.00	6,953.62	6,999.99	6,953.62	26.14	26.12	180.00	-210.00	613.00	360.00	310.13	49.87	7.219
7,100.00	7,053.62	7,099.99	7,053.62	26.47	26.44	180.00	-210.00	613.00	360.00	309.45	50.55	7.122
7,200.00	7,153.62	7,199.99	7,153.62	26.81	26.77	180.00	-210.00	613.00	360.00	308.77	51.23	7.027
7,300.00	7,253.62	7,299.99	7,253.62	27.14	27.10	180.00	-210.00	613.00	360.00	308.09	51.91	6.935
7,400.00	7,353.62	7,399.99	7,353.62	27.47	27.42	180.00	-210.00	613.00	360.00	307.41	52.59	6.845
7,500.00	7,453.62	7,499.99	7,453.62	27.81	27.75	180.00	-210.00	613.00	360.00	306.72	53.28	6.757
7,600.00	7,553.62	7,599.99	7,553.62	28.14	28.08	180.00	-210.00	613.00	360.00	306.04	53.96	6.672
7,700.00	7,653.62	7,699.99	7,653.62	28.48	28.41	180.00	-210.00	613.00	360.00	305.36	54.64	6.588
7,800.00	7,753.62	7,799.99	7,753.62	28.81	28.75	180.00	-210.00	613.00	360.00	304.67	55.33	6.506
7,900.00	7,853.62	7,899.99	7,853.62	29.15	29.08	180.00	-210.00	613.00	360.00	303.98	56.02	6.427
8,000.00	7,953.62	7,999.99	7,953.62	29.49	29.41	180.00	-210.00	613.00	360.00	303.30	56.70	6.349
8,100.00	8,053.62	8,099.99	8,053.62	29.82	29.74	180.00	-210.00	613.00	360.00	302.61	57.39	6.273
8,200.00	8,153.62	8,199.99	8,153.62	30.16	30.08	180.00	-210.00	613.00	360.00	301.92	58.08	6.198
8,300.00	8,253.62	8,299.99	8,253.62	30.50	30.41	180.00	-210.00	613.00	360.00	301.23	58.77	6.125
8,400.00	8,353.62	8,399.99	8,353.62	30.84	30.75	180.00	-210.00	613.00	360.00	300.54	59.46	6.054
8,500.00	8,453.62	8,499.99	8,453.62	31.18	31.08	180.00	-210.00	613.00	360.00	299.85	60.15	5.985
8,600.00	8,553.62	8,599.99	8,553.62	31.52	31.42	180.00	-210.00	613.00	360.00	299.16	60.84	5.917
8,700.00	8,653.62	8,699.99	8,653.62	31.86	31.75	180.00	-210.00	613.00	360.00	298.46	61.54	5.850
8,800.00	8,753.62	8,799.99	8,753.62	32.20	32.09	180.00	-210.00	613.00	360.00	297.77	62.23	5.785
8,900.00	8,853.62	8,899.99	8,853.62	32.54	32.43	180.00	-210.00	613.00	360.00	297.08	62.92	5.721
9,000.00	8,953.62	8,999.99	8,953.62	32.88	32.77	180.00	-210.00	613.00	360.00	296.39	63.61	5.659
9,100.00	9,053.62	9,099.99	9,053.62	33.22	33.10	180.00	-210.00	613.00	360.00	295.69	64.31	5.598
9,200.00	9,153.62	9,199.99	9,153.62	33.56	33.44	180.00	-210.00	613.00	360.00	295.00	65.00	5.538
9,215.27	9,168.89	9,215.26	9,168.89	33.61	33.49	-99.92	-210.00	613.00	360.02	293.02	67.00	5.374
9,300.00	9,253.52	9,294.16	9,247.72	33.89	33.75	-99.84	-210.42	610.65	360.97	293.45	67.52	5.346
9,400.00	9,351.64	9,384.00	9,336.17	34.18	34.00	-99.48	-213.11	595.74	367.16	299.13	68.02	5.398
9,500.00	9,445.02	9,473.50	9,420.87	34.44	34.24	-98.82	-218.18	567.54	378.89	310.43	68.46	5.535
9,600.00	9,530.85	9,562.55	9,499.69	34.69	34.45	-97.85	-225.48	526.96	395.81	326.92	68.89	5.746
9,700.00	9,606.49	9,650.00	9,569.98	34.95	34.66	-96.60	-234.67	475.89	417.41	348.03	69.38	6.016
9,800.00	9,689.67	9,739.40	9,632.81	35.28	34.90	-95.15	-245.91	413.43	443.07	373.05	70.01	6.328
9,900.00	9,718.45	9,827.81	9,684.41	35.73	35.19	-93.48	-258.56	343.12	472.07	401.23	70.84	6.664
10,000.00	9,751.38	9,816.23	9,724.59	36.35	35.57	-91.79	-272.53	265.48	503.62	431.74	71.87	7.007
10,100.00	9,771.38	10,006.34	9,752.57	37.14	36.09	-90.92	-287.68	181.26	536.79	463.63	73.15	7.338
10,200.00	9,781.03	10,098.44	9,770.72	38.10	36.75	-89.82	-303.66	92.44	570.72	496.00	74.72	7.638

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services
Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design														Offset Site Error:	0.00 usft
Dr. Scrivner Federal 01-24S-28E RB - 208H - OH - Preliminary Plan 1														Offset Well Error:	0.00 usft
Survey Program: 0-PHX+MWD+HDGM															
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N-S (usft)	+E-W (usft)							
10,300.00	9,781.04	10,191.47	9,780.14	39.22	37.57	-89.53	-320.05	1.39	604.51	527.99	76.61	7.892			
10,400.00	9,779.12	10,300.12	9,780.53	40.51	38.70	-89.84	-338.87	-105.59	634.28	555.24	79.02	8.027			
10,500.00	9,777.19	10,448.22	9,777.68	41.95	40.60	-89.90	-356.35	-252.59	653.35	571.03	82.32	7.937			
10,600.00	9,775.27	10,597.22	9,774.82	43.52	42.82	-89.96	-362.40	-401.40	659.47	573.39	86.07	7.662			
10,700.00	9,773.35	10,697.22	9,772.91	45.20	44.48	-89.96	-362.86	-501.38	659.48	570.06	89.41	7.376			
10,800.00	9,771.43	10,797.22	9,771.00	46.99	46.26	-89.96	-363.32	-601.36	659.48	566.51	92.98	7.093			
10,900.00	9,769.51	10,897.22	9,769.08	48.88	48.14	-89.96	-363.78	-701.34	659.50	562.76	96.75	6.817			
11,000.00	9,767.59	10,997.22	9,767.17	50.85	50.10	-89.96	-364.24	-801.32	659.52	558.82	100.69	6.550			
11,100.00	9,765.67	11,097.22	9,765.25	52.91	52.15	-89.96	-364.70	-901.30	659.53	554.73	104.80	6.293			
11,200.00	9,763.75	11,197.22	9,763.34	55.03	54.27	-89.96	-365.17	-1,001.28	659.54	550.50	109.05	6.048			
11,300.00	9,761.83	11,297.22	9,761.43	57.21	56.45	-89.97	-365.63	-1,101.27	659.56	546.14	113.42	5.815			
11,400.00	9,759.91	11,397.22	9,759.51	59.45	58.68	-89.97	-366.09	-1,201.25	659.57	541.67	117.90	5.594			
11,500.00	9,757.99	11,497.22	9,757.60	61.74	60.97	-89.97	-366.55	-1,301.23	659.58	537.10	122.48	5.385			
11,600.00	9,756.07	11,597.22	9,755.69	64.08	63.30	-89.97	-367.01	-1,401.21	659.60	532.45	127.15	5.188			
11,700.00	9,754.15	11,697.22	9,753.77	66.45	65.67	-89.97	-367.48	-1,501.19	659.61	527.71	131.90	5.001			
11,800.00	9,752.23	11,797.22	9,751.86	68.86	68.07	-89.97	-367.94	-1,601.17	659.62	522.91	136.72	4.825			
11,900.00	9,750.31	11,897.22	9,749.95	71.30	70.51	-89.97	-368.40	-1,701.15	659.63	518.04	141.60	4.658			
12,000.00	9,748.39	11,997.22	9,748.03	73.76	72.98	-89.97	-368.86	-1,801.13	659.65	513.11	146.54	4.502			
12,100.00	9,746.47	12,097.22	9,746.12	76.26	75.47	-89.97	-369.32	-1,901.11	659.66	508.13	151.53	4.353			
12,200.00	9,744.55	12,197.22	9,744.20	78.77	77.98	-89.97	-369.78	-2,001.09	659.67	503.11	156.57	4.213			
12,300.00	9,742.63	12,297.22	9,742.29	81.31	80.52	-89.97	-370.25	-2,101.07	659.69	498.04	161.65	4.081			
12,400.00	9,740.71	12,397.22	9,740.38	83.87	83.08	-89.97	-370.71	-2,201.05	659.70	492.94	166.76	3.956			
12,500.00	9,738.79	12,497.22	9,738.46	86.44	85.65	-89.97	-371.17	-2,301.03	659.71	487.80	171.92	3.837			
12,600.00	9,736.87	12,597.22	9,736.55	89.03	88.24	-89.97	-371.63	-2,401.01	659.73	482.62	177.10	3.725			
12,700.00	9,734.95	12,697.22	9,734.64	91.64	90.84	-89.97	-372.09	-2,500.99	659.74	477.42	182.31	3.619			
12,800.00	9,733.03	12,797.22	9,732.72	94.26	93.46	-89.97	-372.56	-2,600.97	659.75	472.20	187.55	3.518			
12,900.00	9,731.11	12,897.22	9,730.81	96.89	96.09	-89.97	-373.02	-2,700.96	659.76	466.94	192.82	3.422			
13,000.00	9,729.19	12,997.22	9,728.90	99.53	98.73	-89.97	-373.48	-2,800.94	659.78	461.67	198.11	3.330			
13,100.00	9,727.27	13,097.22	9,726.98	102.18	101.39	-89.98	-373.94	-2,900.92	659.79	456.37	203.42	3.244			
13,200.00	9,725.35	13,197.22	9,725.07	104.85	104.05	-89.98	-374.40	-3,000.90	659.80	451.06	208.74	3.161			
13,300.00	9,723.43	13,297.22	9,723.16	107.52	106.72	-89.98	-374.86	-3,100.88	659.82	445.73	214.09	3.082			
13,400.00	9,721.51	13,397.22	9,721.24	110.20	109.40	-89.98	-375.33	-3,200.86	659.83	440.38	219.45	3.007			
13,500.00	9,719.59	13,497.22	9,719.33	112.88	112.08	-89.98	-375.79	-3,300.84	659.84	435.01	224.83	2.935			
13,600.00	9,717.67	13,597.22	9,717.41	115.58	114.78	-89.98	-376.25	-3,400.82	659.86	429.63	230.22	2.866			
13,700.00	9,715.75	13,697.22	9,715.50	118.28	117.48	-89.98	-376.71	-3,500.80	659.87	424.24	235.63	2.800			
13,800.00	9,713.83	13,797.22	9,713.59	120.99	120.19	-89.98	-377.17	-3,600.78	659.88	418.84	241.04	2.738			
13,900.00	9,711.91	13,897.22	9,711.67	123.70	122.90	-89.98	-377.64	-3,700.76	659.89	413.42	246.47	2.677			
14,000.00	9,709.99	13,997.22	9,709.76	126.42	125.62	-89.98	-378.10	-3,800.74	659.91	408.00	251.91	2.620			
14,100.00	9,708.07	14,097.22	9,707.85	129.14	128.34	-89.98	-378.56	-3,900.72	659.92	402.56	257.36	2.564			
14,200.00	9,706.15	14,197.22	9,705.93	131.87	131.07	-89.98	-379.02	-4,000.70	659.93	397.11	262.82	2.511			
14,300.00	9,704.23	14,297.22	9,704.02	134.61	133.80	-89.98	-379.48	-4,100.68	659.95	391.65	268.29	2.460			
14,400.00	9,702.31	14,397.22	9,702.11	137.35	136.54	-89.98	-379.95	-4,200.66	659.96	386.19	273.77	2.411			
14,500.00	9,700.39	14,497.22	9,700.19	140.09	139.28	-89.98	-380.41	-4,300.65	659.97	380.72	279.25	2.363			
14,600.00	9,698.47	14,597.22	9,698.28	142.83	142.02	-89.98	-380.87	-4,400.63	659.99	375.24	284.74	2.318			
14,624.96	9,697.99	14,622.18	9,697.80	143.51	142.71	-89.98	-380.98	-4,425.58	659.99	373.88	286.11	2.307 SF			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services

Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design														Offset Site Error:	0.00 usft
Survey Program: 0-PHX+MWD+HDGM														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)										
0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00	0.00	30.00	29.74	0.26	115.432	
100.00	100.00	100.00	100.00	0.13	0.13	0.00	30.00	0.00	30.00	0.00	30.00	29.02	0.98	30.711	
200.00	200.00	200.00	200.00	0.49	0.49	0.00	30.00	0.00	30.00	0.00	30.00	28.31	1.69	17.712	
300.00	300.00	300.00	300.00	0.85	0.85	0.00	30.00	0.00	30.00	0.00	30.00	27.59	2.41	12.444	
400.00	400.00	400.00	400.00	1.21	1.21	0.00	30.00	0.00	30.00	0.00	30.00	26.87	3.13	9.582	
500.00	500.00	500.00	500.00	1.56	1.56	0.00	30.00	0.00	30.00	0.00	30.00	26.16	3.84	7.803	
600.00	600.00	600.00	600.00	1.92	1.92	0.00	30.00	0.00	30.00	0.00	30.00	25.44	4.56	6.577	
700.00	700.00	700.00	700.00	2.28	2.28	0.00	30.00	0.00	30.00	0.00	30.00	24.72	5.28	5.683	
800.00	800.00	800.00	800.00	2.64	2.64	0.00	30.00	0.00	30.00	0.00	30.00	24.00	6.00	5.004	
900.00	900.00	900.00	900.00	3.00	3.00	0.00	30.00	0.00	30.00	0.00	30.00	23.29	6.71	4.469 CC	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	0.00	30.00	0.00	30.00	0.00	30.00	22.80	7.42	4.074	
1,100.00	1,099.99	1,099.98	1,099.97	3.71	3.71	-76.40	30.53	1.19	30.22	1.19	30.22	22.77	8.11	3.806 ES	
1,200.00	1,199.91	1,199.35	1,199.27	4.06	4.06	-76.82	32.11	4.75	30.88	4.75	30.88	23.14	8.82	3.624	
1,300.00	1,299.70	1,299.14	1,298.84	4.41	4.41	-77.48	34.70	10.57	31.96	10.57	31.96	23.62	9.53	3.479	
1,400.00	1,399.46	1,399.13	1,398.59	4.76	4.77	-78.13	37.54	16.94	33.15	16.94	33.15	24.10	10.24	3.353	
1,500.00	1,499.22	1,499.12	1,498.34	5.12	5.12	-78.74	40.38	23.32	34.34	23.32	34.34	24.58	10.96	3.242	
1,600.00	1,598.97	1,599.11	1,598.09	5.48	5.48	-79.30	43.21	29.69	35.54	29.69	35.54	25.06	11.68	3.145	
1,700.00	1,598.73	1,599.11	1,597.84	5.84	5.84	-79.83	46.05	36.06	36.74	36.06	36.74	25.54	12.40	3.059	
1,800.00	1,798.48	1,799.10	1,797.58	6.20	6.21	-80.33	48.88	42.43	37.94	42.43	37.94	26.02	13.13	2.982	
1,900.00	1,898.24	1,899.09	1,897.33	6.56	6.57	-80.79	51.72	48.81	39.14	48.81	39.14	26.50	13.85	2.913	
2,000.00	1,998.00	1,999.08	1,997.08	6.92	6.93	-81.23	54.56	55.18	40.35	55.18	40.35	26.98	14.58	2.850	
2,100.00	2,097.75	2,099.07	2,096.83	7.29	7.30	-81.64	57.39	61.55	41.56	61.55	41.56	27.46	15.31	2.794	
2,200.00	2,197.51	2,199.07	2,196.58	7.65	7.66	-82.03	60.23	67.92	42.77	67.92	42.77	27.95	16.04	2.742	
2,300.00	2,297.27	2,299.05	2,296.33	8.02	8.03	-82.39	63.06	74.30	43.99	74.30	43.99	28.43	16.77	2.695	
2,400.00	2,397.02	2,399.05	2,396.08	8.38	8.39	-82.74	65.90	80.67	45.20	80.67	45.20	28.92	17.50	2.652	
2,500.00	2,496.78	2,499.04	2,495.82	8.75	8.76	-83.07	68.73	87.04	46.42	87.04	46.42	29.40	18.24	2.612	
2,600.00	2,596.54	2,599.04	2,595.57	9.11	9.12	-83.38	71.57	93.41	47.64	93.41	47.64	29.89	18.97	2.576	
2,700.00	2,696.29	2,699.03	2,695.32	9.48	9.49	-83.68	74.41	99.79	48.86	99.79	48.86	30.43	19.70	2.544	
2,800.00	2,796.02	2,798.84	2,794.87	9.85	9.86	-83.98	77.36	106.43	50.13	106.43	50.13	31.36	20.45	2.534	
2,900.00	2,895.56	2,898.46	2,894.03	10.22	10.23	-84.36	81.23	115.12	51.80	115.12	51.80	32.73	21.20	2.544	
3,000.00	2,994.81	2,998.06	2,992.90	10.60	10.60	-84.80	86.15	126.17	53.93	126.17	53.93	34.54	21.97	2.572	
3,100.00	3,093.71	3,097.66	3,091.40	10.99	10.99	-85.29	92.11	139.57	56.51	139.57	56.51	36.75	22.76	2.615	
3,200.00	3,192.25	3,197.41	3,189.70	11.38	11.38	-85.80	98.01	155.07	59.50	155.07	59.50	39.02	23.55	2.657	
3,300.00	3,290.73	3,297.36	3,288.13	11.78	11.78	-86.26	106.07	170.93	62.57	170.93	62.57	41.28	24.35	2.695	
3,400.00	3,389.21	3,397.31	3,386.56	12.18	12.17	-86.67	113.13	186.78	65.63	186.78	65.63	43.55	25.15	2.731	
3,500.00	3,487.69	3,497.27	3,485.00	12.58	12.58	-87.05	120.19	202.64	68.70	202.64	68.70	45.81	25.96	2.765	
3,600.00	3,586.17	3,597.22	3,583.43	12.99	12.98	-87.40	127.24	218.50	71.77	218.50	71.77	48.08	26.77	2.796	
3,700.00	3,684.65	3,697.17	3,681.87	13.39	13.38	-87.72	134.30	234.35	74.84	234.35	74.84	50.34	27.58	2.825	
3,800.00	3,783.13	3,797.12	3,780.30	13.80	13.79	-88.01	141.36	250.21	77.92	250.21	77.92	52.60	28.40	2.852	
3,900.00	3,881.61	3,897.07	3,878.73	14.21	14.20	-88.28	148.42	266.07	81.00	266.07	81.00	54.86	29.22	2.878	
4,000.00	3,980.09	3,997.03	3,977.17	14.62	14.61	-88.53	155.47	281.92	84.08	281.92	84.08	57.12	30.04	2.902	
4,100.00	4,078.57	4,096.98	4,075.60	15.03	15.02	-88.76	162.53	297.78	87.16	297.78	87.16	59.38	30.86	2.924	
4,200.00	4,177.05	4,196.93	4,174.03	15.44	15.43	-88.98	169.59	313.63	90.24	313.63	90.24	61.64	31.69	2.945	
4,300.00	4,275.53	4,296.88	4,272.47	15.86	15.84	-89.18	176.65	329.49	93.32	329.49	93.32	63.89	32.51	2.965	
4,400.00	4,374.01	4,396.83	4,370.90	16.27	16.25	-89.37	183.70	345.35	96.41	345.35	96.41	66.15	33.34	2.984	
4,500.00	4,472.49	4,496.79	4,469.33	16.69	16.67	-89.55	190.76	361.20	99.49	361.20	99.49	68.40	34.18	3.002	
4,600.00	4,570.97	4,596.74	4,567.77	17.11	17.08	-89.72	197.82	377.06	102.58	377.06	102.58	70.66	35.01	3.018	
4,700.00	4,669.45	4,696.89	4,666.20	17.52	17.50	-89.88	204.88	392.92	105.67	392.92	105.67	72.91	35.84	3.034	
4,800.00	4,767.93	4,796.84	4,764.63	17.94	17.91	-90.02	211.93	408.77	108.75	408.77	108.75	75.16	36.68	3.049	
4,900.00	4,866.41	4,896.59	4,863.07	18.36	18.33	-90.17	218.99	424.63	111.84	424.63	111.84	77.42	37.52	3.064	
5,000.00	4,964.89	4,996.55	4,961.50	18.78	18.75	-90.30	226.05	440.48	114.93	440.48	114.93	79.67	38.35	3.077	
5,100.00	5,063.37	5,096.50	5,059.83	19.20	19.17	-90.42	233.11	456.34	118.02	456.34	118.02	81.91	39.18	3.089	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services

Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-PHX+MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
5,200.00	5,161.85	5,195.45	5,158.37	19.62	19.59	-90.54	240.16	472.20	121.11	81.92	39.19	3.090		
5,300.00	5,260.33	5,296.40	5,256.80	20.04	20.01	-90.65	247.22	488.05	124.20	84.17	40.03	3.103		
5,400.00	5,358.82	5,396.35	5,355.24	20.47	20.43	-90.77	254.28	503.91	127.29	86.42	40.87	3.114		
5,500.00	5,457.30	5,496.31	5,453.67	20.89	20.85	-90.87	261.34	519.77	130.38	88.67	41.72	3.126		
5,600.00	5,555.92	5,596.25	5,552.10	21.31	21.27	-90.64	268.39	535.62	133.46	90.91	42.55	3.136		
5,700.00	5,654.93	5,696.15	5,650.48	21.71	21.69	-89.36	275.46	551.47	136.55	93.18	43.38	3.148		
5,800.00	5,754.28	5,796.48	5,749.38	22.10	22.11	-87.28	282.31	566.88	139.70	95.52	44.18	3.162		
5,900.00	5,853.88	5,897.20	5,849.05	22.48	22.52	-85.19	288.19	580.10	142.61	97.67	44.94	3.173		
6,000.00	5,953.69	5,998.09	5,949.23	22.84	22.91	-83.16	293.01	590.93	145.24	99.57	45.67	3.180		
6,100.00	6,053.62	6,099.13	6,049.85	23.19	23.29	-81.16	296.76	599.35	147.59	101.22	46.37	3.183		
6,200.00	6,153.62	6,200.33	6,150.84	23.52	23.66	-2.93	299.43	605.35	149.65	103.31	44.34	3.375		
6,300.00	6,253.62	6,301.74	6,252.17	23.84	24.01	-1.55	301.01	608.90	151.07	105.03	45.04	3.354		
6,400.00	6,353.62	6,403.20	6,353.62	24.17	24.35	-1.13	301.50	610.00	151.53	105.79	45.74	3.313		
6,500.00	6,453.62	6,503.20	6,453.62	24.50	24.68	-1.13	301.50	610.00	151.53	105.11	46.42	3.264		
6,600.00	6,553.62	6,603.20	6,553.62	24.82	25.00	-1.13	301.50	610.00	151.53	104.43	47.10	3.217		
6,700.00	6,653.62	6,703.20	6,653.62	25.15	25.33	-1.13	301.50	610.00	151.53	103.74	47.79	3.171		
6,800.00	6,753.62	6,803.20	6,753.62	25.48	25.66	-1.13	301.50	610.00	151.53	103.06	48.47	3.126		
6,900.00	6,853.62	6,903.20	6,853.62	25.81	25.99	-1.13	301.50	610.00	151.53	102.37	49.16	3.083		
7,000.00	6,953.62	7,003.20	6,953.62	26.14	26.32	-1.13	301.50	610.00	151.53	101.69	49.84	3.040		
7,100.00	7,053.62	7,103.20	7,053.62	26.47	26.65	-1.13	301.50	610.00	151.53	101.00	50.53	2.999		
7,200.00	7,153.62	7,203.20	7,153.62	26.81	26.98	-1.13	301.50	610.00	151.53	100.31	51.22	2.969		
7,300.00	7,253.62	7,303.20	7,253.62	27.14	27.31	-1.13	301.50	610.00	151.53	99.62	51.91	2.919		
7,400.00	7,353.62	7,403.20	7,353.62	27.47	27.64	-1.13	301.50	610.00	151.53	98.93	52.60	2.881		
7,500.00	7,453.62	7,503.20	7,453.62	27.81	27.98	-1.13	301.50	610.00	151.53	98.24	53.29	2.844		
7,600.00	7,553.62	7,603.20	7,553.62	28.14	28.31	-1.13	301.50	610.00	151.53	97.55	53.98	2.807		
7,700.00	7,653.62	7,703.20	7,653.62	28.48	28.65	-1.13	301.50	610.00	151.53	96.86	54.67	2.772		
7,800.00	7,753.62	7,803.20	7,753.62	28.81	28.98	-1.13	301.50	610.00	151.53	96.17	55.36	2.737		
7,900.00	7,853.62	7,903.20	7,853.62	29.15	29.32	-1.13	301.50	610.00	151.53	95.48	56.05	2.703		
8,000.00	7,953.62	8,003.20	7,953.62	29.49	29.65	-1.13	301.50	610.00	151.53	94.78	56.75	2.670		
8,100.00	8,053.62	8,103.20	8,053.62	29.82	29.99	-1.13	301.50	610.00	151.53	94.09	57.44	2.638		
8,200.00	8,153.62	8,203.20	8,153.62	30.16	30.33	-1.13	301.50	610.00	151.53	93.39	58.14	2.606		
8,300.00	8,253.62	8,303.20	8,253.62	30.50	30.67	-1.13	301.50	610.00	151.53	92.70	58.83	2.576		
8,400.00	8,353.62	8,403.20	8,353.62	30.84	31.00	-1.13	301.50	610.00	151.53	92.00	59.53	2.546		
8,500.00	8,453.62	8,503.20	8,453.62	31.18	31.34	-1.13	301.50	610.00	151.53	91.31	60.22	2.516		
8,600.00	8,553.62	8,603.20	8,553.62	31.52	31.68	-1.13	301.50	610.00	151.53	90.61	60.92	2.487		
8,700.00	8,653.62	8,703.20	8,653.62	31.86	32.02	-1.13	301.50	610.00	151.53	89.91	61.62	2.459		
8,800.00	8,753.62	8,803.20	8,753.62	32.20	32.36	-1.13	301.50	610.00	151.53	89.21	62.32	2.432		
8,900.00	8,853.62	8,903.20	8,853.62	32.54	32.70	-1.13	301.50	610.00	151.53	88.52	63.01	2.405		
9,000.00	8,953.62	9,003.20	8,953.62	32.88	33.04	-1.13	301.50	610.00	151.53	87.82	63.71	2.378		
9,100.00	9,053.62	9,103.20	9,053.62	33.22	33.38	-1.13	301.50	610.00	151.53	87.12	64.41	2.353		
9,200.00	9,153.62	9,203.20	9,153.62	33.56	33.72	-1.13	301.50	610.00	151.53	86.42	65.11	2.327		
9,300.00	9,253.52	9,303.10	9,253.52	33.89	34.07	80.09	301.50	610.00	151.00	83.18	67.82	2.226		
9,400.00	9,351.64	9,401.22	9,351.64	34.18	34.40	87.24	301.50	610.00	148.92	80.62	68.29	2.181		
9,425.47	9,375.98	9,425.56	9,375.98	34.24	34.48	90.00	301.50	610.00	148.73	80.37	68.35	2.176 SF		
9,500.00	9,445.02	9,494.60	9,445.02	34.44	34.72	99.60	301.50	610.00	151.33	83.15	68.18	2.220		
9,600.00	9,530.85	9,580.43	9,530.85	34.69	35.02	113.32	301.50	610.00	168.42	102.06	66.36	2.538		
9,700.00	9,606.49	9,656.07	9,606.49	34.95	35.27	124.08	301.50	610.00	207.18	144.51	62.67	3.306		
9,800.00	9,669.67	9,719.25	9,669.67	35.28	35.49	129.97	301.50	610.00	266.87	208.17	58.71	4.546		
9,900.00	9,718.45	9,768.03	9,718.45	35.73	35.68	130.44	301.50	610.00	342.69	285.73	56.96	6.016		
10,000.00	9,751.38	9,800.96	9,751.38	36.35	35.77	124.23	301.50	610.00	429.59	369.41	60.18	7.139		
10,100.00	9,771.38	9,820.96	9,771.38	37.14	35.84	116.58	301.50	610.00	522.57	457.53	65.04	8.035		
10,200.00	9,781.03	9,830.61	9,781.03	38.10	35.87	100.16	301.50	610.00	618.59	546.30	72.29	8.557		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services
Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design										Dr. Scrivner Federal 01-24S-28E RB - 224H - OH / Job 1514201 - Preliminary Plan 1		Offset Site Error:	0.00 usft
Survey Program: 0-PHX+MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	9,781.04	9,830.62	9,781.04	39.22	35.87	84.27	301.50	610.00	716.12	641.37	74.75	9.580	
10,400.00	9,779.12	11,195.92	10,571.10	40.51	42.88	179.38	297.76	-220.12	792.20	761.86	30.33	26.118	
10,500.00	9,777.19	11,295.60	10,569.18	41.95	44.21	179.88	297.31	-319.78	792.14	761.07	31.07	25.499	
10,600.00	9,775.27	11,395.55	10,567.25	43.52	45.69	-179.99	296.87	-419.72	792.13	760.30	31.83	24.883	
10,700.00	9,773.35	11,495.55	10,565.33	45.20	47.29	-179.99	296.42	-519.70	792.13	759.48	32.64	24.266	
10,800.00	9,771.43	11,595.55	10,563.40	46.99	49.00	-179.99	295.97	-619.68	792.12	758.61	33.51	23.641	
10,900.00	9,769.51	11,695.55	10,561.47	48.88	50.81	-179.99	295.53	-719.66	792.11	757.69	34.42	23.015	
11,000.00	9,767.59	11,795.55	10,559.54	50.85	52.71	-179.99	295.08	-819.64	792.11	756.73	35.38	22.391	
11,100.00	9,765.67	11,895.55	10,557.62	52.91	54.69	-179.99	294.64	-919.62	792.10	755.72	36.38	21.775	
11,200.00	9,763.75	11,995.55	10,555.69	55.03	56.75	-179.99	294.19	-1,019.60	792.09	754.67	37.42	21.169	
11,300.00	9,761.83	12,095.55	10,553.76	57.21	58.87	-179.99	293.75	-1,119.58	792.08	753.59	38.49	20.578	
11,400.00	9,759.91	12,195.55	10,551.84	59.45	61.04	-179.99	293.30	-1,219.56	792.08	752.48	39.60	20.001	
11,500.00	9,757.99	12,295.55	10,549.91	61.74	63.27	-179.99	292.85	-1,319.54	792.07	751.33	40.74	19.442	
11,600.00	9,756.07	12,395.55	10,547.98	64.08	65.55	-179.99	292.41	-1,419.52	792.06	750.16	41.91	18.901	
11,700.00	9,754.15	12,495.55	10,546.06	66.45	67.87	-179.99	291.96	-1,519.50	792.06	748.96	43.10	18.378	
11,800.00	9,752.23	12,595.55	10,544.13	68.86	70.23	-179.99	291.52	-1,619.48	792.05	747.74	44.31	17.874	
11,900.00	9,750.31	12,695.55	10,542.20	71.30	72.62	-179.99	291.07	-1,719.46	792.04	746.49	45.55	17.388	
12,000.00	9,748.39	12,795.55	10,540.28	73.76	75.04	-179.99	290.63	-1,819.45	792.04	745.23	46.81	16.921	
12,100.00	9,746.47	12,895.55	10,538.35	76.26	77.49	-179.99	290.18	-1,919.43	792.03	743.95	48.08	16.472	
12,200.00	9,744.55	12,995.55	10,536.42	78.77	79.96	-179.99	289.74	-2,019.41	792.02	742.65	49.37	16.041	
12,300.00	9,742.63	13,095.55	10,534.49	81.31	82.46	-179.99	289.29	-2,119.39	792.01	741.33	50.68	15.627	
12,400.00	9,740.71	13,195.55	10,532.57	83.87	84.98	-179.99	288.84	-2,219.37	792.01	740.00	52.00	15.230	
12,500.00	9,738.79	13,295.55	10,530.64	86.44	87.52	-180.00	288.40	-2,319.35	792.00	738.66	53.34	14.848	
12,600.00	9,736.87	13,395.55	10,528.71	89.03	90.07	-180.00	287.95	-2,419.33	791.99	737.31	54.69	14.482	
12,700.00	9,734.95	13,495.55	10,526.79	91.64	92.65	-180.00	287.51	-2,519.31	791.99	735.94	56.05	14.131	
12,800.00	9,733.03	13,595.55	10,524.86	94.26	95.23	-180.00	287.06	-2,619.29	791.98	734.56	57.42	13.794	
12,900.00	9,731.11	13,695.55	10,522.93	96.89	97.83	-180.00	286.62	-2,719.27	791.97	733.18	58.80	13.470	
13,000.00	9,729.19	13,795.55	10,521.01	99.53	100.45	-180.00	286.17	-2,819.25	791.97	731.78	60.19	13.159	
13,100.00	9,727.27	13,895.55	10,519.08	102.18	103.07	-180.00	285.72	-2,919.23	791.96	730.38	61.58	12.860	
13,200.00	9,725.35	13,995.55	10,517.15	104.85	105.71	-180.00	285.28	-3,019.21	791.95	728.96	62.99	12.573	
13,300.00	9,723.43	14,095.55	10,515.23	107.52	108.36	-180.00	284.83	-3,119.19	791.95	727.54	64.40	12.297	
13,400.00	9,721.51	14,195.55	10,513.30	110.20	111.01	-180.00	284.39	-3,219.17	791.94	726.11	65.82	12.031	
13,500.00	9,719.59	14,295.55	10,511.37	112.88	113.67	-180.00	283.94	-3,319.15	791.93	724.68	67.25	11.776	
13,600.00	9,717.67	14,395.55	10,509.44	115.58	116.35	-180.00	283.50	-3,419.13	791.92	723.24	68.68	11.530	
13,700.00	9,715.75	14,495.55	10,507.52	118.28	119.03	-180.00	283.05	-3,519.11	791.92	721.79	70.12	11.293	
13,800.00	9,713.83	14,595.55	10,505.59	120.99	121.71	-180.00	282.61	-3,619.09	791.91	720.34	71.57	11.065	
13,900.00	9,711.91	14,695.55	10,503.66	123.70	124.41	-180.00	282.16	-3,719.07	791.90	718.89	73.02	10.845	
14,000.00	9,709.99	14,795.55	10,501.74	126.42	127.11	-180.00	281.71	-3,819.05	791.90	717.42	74.47	10.634	
14,100.00	9,708.07	14,895.55	10,499.81	129.14	129.81	-180.00	281.27	-3,919.03	791.89	715.96	75.93	10.429	
14,200.00	9,706.15	14,995.55	10,497.88	131.87	132.52	-180.00	280.82	-4,019.02	791.88	714.49	77.39	10.232	
14,300.00	9,704.23	15,095.55	10,495.96	134.61	135.24	-180.00	280.38	-4,119.00	791.88	713.01	78.86	10.041	
14,400.00	9,702.31	15,195.55	10,494.03	137.35	137.96	-180.00	279.93	-4,218.98	791.87	711.54	80.33	9.857	
14,500.00	9,700.39	15,295.55	10,492.10	140.09	140.68	-180.00	279.49	-4,318.96	791.86	710.05	81.81	9.680	
14,600.00	9,698.47	15,395.55	10,490.17	142.83	143.41	-180.00	279.04	-4,418.94	791.85	708.57	83.29	9.508	
14,607.81	9,698.32	15,403.36	10,490.02	143.05	143.62	-180.00	279.01	-4,426.74	791.85	708.45	83.40	9.495	
14,624.96	9,697.99	15,404.62	10,490.00	143.51	143.66	180.00	279.00	-4,428.00	792.01	708.48	83.54	9.481	



Phoenix Technology Services

Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error: 0.00 usft	
Dr. Scrivner Federal 01-24S-28E RB - 228H - OH / Job 1514202 - Preliminary Plan 1													Offset Well Error: 0.00 usft	
Survey Program: 0-PHX+MWD+HDGM														
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.00	0.00	0.00	0.00	180.00	-80.00	0.00	90.00					
100.00	100.00	100.00	100.00	0.13	0.13	180.00	-90.00	0.00	90.00	89.74	0.26	346.287		
200.00	200.00	200.00	200.00	0.49	0.49	180.00	-90.00	0.00	90.00	89.02	0.98	92.134		
300.00	300.00	300.00	300.00	0.85	0.85	180.00	-90.00	0.00	90.00	88.31	1.69	53.136		
400.00	400.00	400.00	400.00	1.21	1.21	180.00	-90.00	0.00	90.00	87.59	2.41	37.333		
500.00	500.00	500.00	500.00	1.56	1.56	180.00	-90.00	0.00	90.00	86.87	3.13	28.775		
600.00	600.00	600.00	600.00	1.92	1.92	180.00	-90.00	0.00	90.00	86.15	3.84	23.409		
700.00	700.00	700.00	700.00	2.28	2.28	180.00	-90.00	0.00	90.00	85.44	4.56	19.730		
800.00	800.00	800.00	800.00	2.64	2.64	180.00	-90.00	0.00	90.00	84.72	5.28	17.050		
900.00	900.00	900.00	900.00	3.00	3.00	180.00	-90.00	0.00	90.00	84.00	6.00	15.011		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	180.00	-90.00	0.00	90.00	83.29	6.71	13.408 CC, ES		
1,100.00	1,099.99	1,099.02	1,099.01	3.71	3.70	103.80	-90.54	1.17	90.85	83.45	7.41	12.265		
1,200.00	1,199.91	1,197.99	1,197.90	4.06	4.03	103.83	-92.14	4.66	93.41	85.32	8.09	11.547		
1,300.00	1,299.70	1,297.20	1,296.91	4.41	4.37	104.14	-94.78	10.39	97.58	88.80	8.78	11.113		
1,400.00	1,399.46	1,397.10	1,396.56	4.76	4.72	104.36	-97.69	16.72	102.16	92.68	9.48	10.774		
1,500.00	1,499.22	1,496.99	1,496.21	5.12	5.07	104.57	-100.60	23.05	106.74	96.55	10.19	10.477		
1,600.00	1,598.97	1,596.89	1,595.86	5.48	5.42	104.76	-103.51	29.38	111.31	100.42	10.90	10.215		
1,700.00	1,698.73	1,696.78	1,695.52	5.84	5.78	104.94	-106.42	35.71	115.89	104.28	11.61	9.981		
1,800.00	1,798.48	1,796.67	1,795.17	6.20	6.14	105.10	-109.33	42.05	120.47	108.14	12.33	9.772		
1,900.00	1,898.24	1,896.57	1,894.82	6.56	6.50	105.25	-112.24	48.38	125.05	112.00	13.05	9.585		
2,000.00	1,998.00	1,996.46	1,994.47	6.92	6.86	105.39	-115.15	54.71	129.63	115.86	13.77	9.415		
2,100.00	2,097.75	2,096.36	2,094.12	7.29	7.22	105.52	-118.06	61.04	134.21	119.72	14.49	9.262		
2,200.00	2,197.51	2,196.25	2,193.77	7.65	7.58	105.64	-120.97	67.37	138.80	123.58	15.22	9.122		
2,300.00	2,297.27	2,296.15	2,293.42	8.02	7.94	105.75	-123.88	73.70	143.38	127.44	15.94	8.994		
2,400.00	2,397.02	2,396.04	2,393.07	8.38	8.31	105.86	-126.79	80.03	147.96	131.29	16.67	8.877		
2,500.00	2,496.78	2,495.94	2,492.73	8.75	8.67	105.96	-129.70	86.36	152.55	135.15	17.40	8.769		
2,600.00	2,596.54	2,595.83	2,592.38	9.11	9.04	106.05	-132.62	92.70	157.13	139.01	18.13	8.669		
2,700.00	2,696.29	2,695.73	2,692.03	9.48	9.40	106.14	-135.53	99.03	161.72	142.86	18.86	8.577		
2,800.00	2,796.02	2,794.88	2,790.92	9.85	9.77	106.21	-138.53	105.55	166.49	146.91	19.58	8.502		
2,900.00	2,895.56	2,893.05	2,888.65	10.22	10.13	106.27	-142.39	113.96	172.73	152.42	20.31	8.503		
3,000.00	2,994.81	2,991.04	2,985.94	10.60	10.50	106.34	-147.29	124.63	180.66	159.61	21.05	8.581		
3,100.00	3,093.71	3,088.83	3,082.68	10.99	10.88	106.42	-153.22	137.53	190.28	168.47	21.81	8.725		
3,200.00	3,192.25	3,187.07	3,179.51	11.38	11.27	106.52	-160.15	152.59	201.40	178.83	22.58	8.921		
3,300.00	3,290.73	3,286.41	3,277.35	11.78	11.67	106.65	-167.35	168.26	212.81	189.45	23.36	9.109		
3,400.00	3,389.21	3,385.76	3,375.18	12.18	12.07	106.77	-174.56	183.94	224.22	200.06	24.15	9.284		
3,500.00	3,487.69	3,485.11	3,473.02	12.58	12.47	106.88	-181.77	199.62	235.62	210.68	24.95	9.445		
3,600.00	3,586.17	3,584.45	3,570.86	12.99	12.87	106.97	-188.97	215.29	247.03	221.29	25.74	9.596		
3,700.00	3,684.65	3,683.80	3,668.70	13.39	13.28	107.06	-196.18	230.97	258.44	231.89	26.54	9.736		
3,800.00	3,783.13	3,783.15	3,766.53	13.80	13.68	107.14	-203.38	246.84	269.85	242.50	27.35	9.867		
3,900.00	3,881.61	3,882.49	3,864.37	14.21	14.09	107.21	-210.59	262.32	281.26	253.10	28.16	9.989		
4,000.00	3,980.09	3,981.84	3,962.21	14.62	14.50	107.28	-217.80	278.00	292.67	263.70	28.97	10.104		
4,100.00	4,078.57	4,081.18	4,060.04	15.03	14.92	107.34	-225.00	293.67	304.08	274.30	29.78	10.212		
4,200.00	4,177.05	4,180.53	4,157.88	15.44	15.33	107.40	-232.21	309.35	315.49	284.90	30.59	10.313		
4,300.00	4,275.53	4,279.88	4,255.72	15.86	15.74	107.45	-239.41	325.02	326.90	295.49	31.41	10.408		
4,400.00	4,374.01	4,379.22	4,353.55	16.27	16.16	107.51	-246.62	340.70	338.31	306.08	32.23	10.498		
4,500.00	4,472.49	4,478.57	4,451.39	16.69	16.57	107.55	-253.83	356.38	349.72	316.67	33.05	10.582		
4,600.00	4,570.97	4,577.92	4,549.23	17.11	16.99	107.60	-261.03	372.05	361.13	327.26	33.87	10.663		
4,700.00	4,669.45	4,677.26	4,647.06	17.52	17.41	107.64	-268.24	387.73	372.54	337.85	34.69	10.738		
4,800.00	4,767.93	4,776.81	4,744.90	17.94	17.83	107.68	-275.44	403.40	383.96	348.44	35.52	10.810		
4,900.00	4,866.41	4,875.96	4,842.74	18.36	18.25	107.72	-282.65	419.08	395.37	359.02	36.34	10.879		
5,000.00	4,964.89	4,975.30	4,940.57	18.78	18.67	107.75	-289.86	434.76	406.78	369.61	37.17	10.943		
5,100.00	5,063.37	5,074.65	5,038.41	19.20	19.09	107.78	-297.06	450.43	418.19	380.19	38.00	11.005		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services
Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Dr. Scrivner Federal 01-24S-28E RB - 228H - OH / Job 1514202 - Preliminary Plan 1												Offset Well Error:	0.00 usft
Survey Program: 0-PHX+MWD+HDGM													
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,161.85	5,173.99	5,136.25	19.62	19.51	107.81	-304.27	466.11	429.50	390.78	38.83	11.064	
5,300.00	5,260.33	5,273.34	5,234.08	20.04	19.93	107.84	-311.47	481.78	441.02	401.36	39.66	11.120	
5,400.00	5,358.82	5,372.69	5,331.92	20.47	20.35	107.87	-318.58	497.46	452.43	411.94	40.49	11.173	
5,500.00	5,457.30	5,472.03	5,429.76	20.89	20.78	107.90	-325.89	513.14	463.84	422.52	41.32	11.225	
5,600.00	5,555.92	5,571.41	5,527.62	21.31	21.20	107.95	-333.09	528.82	475.00	432.83	42.17	11.265	
5,700.00	5,654.93	5,674.99	5,629.82	21.71	21.63	107.85	-340.13	544.12	484.99	441.98	43.01	11.277	
5,800.00	5,754.28	5,779.28	5,733.15	22.10	22.05	107.74	-346.04	556.98	493.25	449.42	43.82	11.255	
5,900.00	5,853.88	5,883.84	5,837.08	22.48	22.46	107.62	-350.78	567.30	499.76	455.15	44.61	11.203	
6,000.00	5,953.69	5,988.61	5,941.50	22.84	22.85	107.48	-354.34	575.04	504.53	459.16	45.36	11.122	
6,100.00	6,053.62	6,093.53	6,046.27	23.19	23.23	107.33	-356.71	580.19	507.53	461.44	46.09	11.012	
6,200.00	6,153.62	6,198.57	6,151.26	23.52	23.59	-176.59	-357.87	582.72	508.78	464.13	46.65	11.394	
6,300.00	6,253.62	6,300.92	6,253.62	23.84	23.92	-176.62	-358.00	583.00	508.89	463.55	45.33	11.226	
6,400.00	6,353.62	6,400.92	6,353.62	24.17	24.23	-176.62	-358.00	583.00	508.89	462.89	46.00	11.064	
6,500.00	6,453.62	6,500.92	6,453.62	24.50	24.55	-176.62	-358.00	583.00	508.89	462.22	46.66	10.906	
6,600.00	6,553.62	6,600.92	6,553.62	24.82	24.86	-176.62	-358.00	583.00	508.89	461.55	47.33	10.752	
6,700.00	6,653.62	6,700.92	6,653.62	25.15	25.18	-176.62	-358.00	583.00	508.89	460.88	48.00	10.602	
6,800.00	6,753.62	6,800.92	6,753.62	25.48	25.50	-176.62	-358.00	583.00	508.89	460.21	48.67	10.455	
6,900.00	6,853.62	6,900.92	6,853.62	25.81	25.82	-176.62	-358.00	583.00	508.89	459.54	49.34	10.313	
7,000.00	6,953.62	7,000.92	6,953.62	26.14	26.14	-176.62	-358.00	583.00	508.89	458.87	50.02	10.174	
7,100.00	7,053.62	7,100.92	7,053.62	26.47	26.47	-176.62	-358.00	583.00	508.89	458.19	50.69	10.039	
7,200.00	7,153.62	7,200.92	7,153.62	26.81	26.79	-176.62	-358.00	583.00	508.89	457.52	51.37	9.907	
7,300.00	7,253.62	7,300.92	7,253.62	27.14	27.12	-176.62	-358.00	583.00	508.89	456.84	52.05	9.778	
7,400.00	7,353.62	7,400.92	7,353.62	27.47	27.44	-176.62	-358.00	583.00	508.89	456.16	52.72	9.652	
7,500.00	7,453.62	7,500.92	7,453.62	27.81	27.77	-176.62	-358.00	583.00	508.89	455.48	53.40	9.529	
7,600.00	7,553.62	7,600.92	7,553.62	28.14	28.09	-176.62	-358.00	583.00	508.89	454.80	54.08	9.409	
7,700.00	7,653.62	7,700.92	7,653.62	28.48	28.42	-176.62	-358.00	583.00	508.89	454.12	54.76	9.292	
7,800.00	7,753.62	7,800.92	7,753.62	28.81	28.75	-176.62	-358.00	583.00	508.89	453.44	55.45	9.178	
7,900.00	7,853.62	7,900.92	7,853.62	29.15	29.08	-176.62	-358.00	583.00	508.89	452.76	56.13	9.067	
8,000.00	7,953.62	8,000.92	7,953.62	29.49	29.41	-176.62	-358.00	583.00	508.89	452.07	56.81	8.957	
8,100.00	8,053.62	8,100.92	8,053.62	29.82	29.74	-176.62	-358.00	583.00	508.89	451.39	57.50	8.851	
8,200.00	8,153.62	8,200.92	8,153.62	30.16	30.07	-176.62	-358.00	583.00	508.89	450.70	58.18	8.747	
8,300.00	8,253.62	8,300.92	8,253.62	30.50	30.40	-176.62	-358.00	583.00	508.89	450.02	58.87	8.645	
8,400.00	8,353.62	8,400.92	8,353.62	30.84	30.73	-176.62	-358.00	583.00	508.89	449.33	59.55	8.545	
8,500.00	8,453.62	8,500.92	8,453.62	31.18	31.07	-176.62	-358.00	583.00	508.89	448.64	60.24	8.447	
8,600.00	8,553.62	8,600.92	8,553.62	31.52	31.40	-176.62	-358.00	583.00	508.89	447.96	60.93	8.352	
8,700.00	8,653.62	8,700.92	8,653.62	31.86	31.73	-176.62	-358.00	583.00	508.89	447.27	61.62	8.259	
8,800.00	8,753.62	8,800.92	8,753.62	32.20	32.07	-176.62	-358.00	583.00	508.89	446.58	62.31	8.167	
8,900.00	8,853.62	8,900.92	8,853.62	32.54	32.40	-176.62	-358.00	583.00	508.89	445.89	63.00	8.078	
9,000.00	8,953.62	9,000.92	8,953.62	32.88	32.74	-176.62	-358.00	583.00	508.89	445.20	63.69	7.990	
9,100.00	9,053.62	9,100.92	9,053.62	33.22	33.08	-176.62	-358.00	583.00	508.89	444.51	64.38	7.905	
9,200.00	9,153.62	9,200.92	9,153.62	33.56	33.41	-176.62	-358.00	583.00	508.89	443.81	65.07	7.821	
9,218.15	9,171.77	9,219.08	9,171.77	33.62	33.47	-96.54	-358.00	583.00	508.90	442.03	66.87	7.610	
9,300.00	9,253.62	9,300.92	9,253.62	33.89	33.75	-96.81	-358.00	583.00	509.22	441.81	67.41	7.554	
9,400.00	9,351.64	9,398.94	9,351.64	34.18	34.08	-98.59	-358.00	583.00	511.78	443.81	67.97	7.529	
9,500.00	9,445.02	9,492.33	9,445.02	34.44	34.39	-101.55	-358.00	583.00	518.45	450.11	68.34	7.587	
9,600.00	9,530.85	9,578.15	9,530.85	34.69	34.68	-104.90	-358.00	583.00	532.09	463.71	68.38	7.782	
9,700.00	9,606.49	9,653.80	9,606.49	34.95	34.94	-107.88	-358.00	583.00	555.87	487.76	68.12	8.160	
9,800.00	9,669.67	9,716.97	9,669.67	35.28	35.15	-108.94	-358.00	583.00	592.22	524.28	67.94	8.717	
9,900.00	9,718.45	9,765.76	9,718.45	35.73	35.32	-107.80	-358.00	583.00	641.92	573.46	68.47	9.376	
10,000.00	9,751.38	9,798.68	9,751.38	36.35	35.43	-103.67	-358.00	583.00	703.85	633.87	70.08	10.044	
10,100.00	9,771.38	9,818.68	9,771.38	37.14	35.50	-99.80	-358.00	583.00	775.29	703.57	71.72	10.810	
10,200.00	9,781.03	9,828.34	9,781.03	38.10	35.53	-93.45	-358.00	583.00	853.18	779.72	73.46	11.514	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services
Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Dr. Scrivner Federal 01-24S-28E RB - 228H - OH / Job 1514202 - Preliminary Plan 1												Offset Well Error:	0.00 usft
Survey Program: O-PHX+MWD+HDGM													
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)					
10,300.00	9,781.04	9,828.35	9,781.04	38.22	35.53	-88.36	-358.00	583.00	935.37	860.76	74.62	12.536	
10,400.00	9,779.12	9,825.42	9,779.12	40.51	35.53	-88.34	-358.00	583.00	1,018.54	942.68	75.86	13.427	
10,500.00	9,777.19	11,262.20	10,568.78	41.95	43.52	-140.30	-362.10	-316.67	1,028.81	969.22	58.59	17.255	
10,600.00	9,775.27	11,362.15	10,566.86	43.52	44.97	-140.20	-362.56	-416.60	1,030.47	968.96	61.51	16.753	
10,700.00	9,773.35	11,462.15	10,564.95	45.20	46.55	-140.20	-363.02	-516.58	1,030.48	966.81	63.67	16.184	
10,800.00	9,771.43	11,562.15	10,563.03	46.99	48.24	-140.20	-363.48	-616.56	1,030.49	964.50	65.99	15.616	
10,900.00	9,769.51	11,662.16	10,561.11	48.88	50.04	-140.20	-363.94	-716.54	1,030.50	962.06	68.44	15.057	
11,000.00	9,767.59	11,762.16	10,559.20	50.85	51.93	-140.20	-364.40	-816.53	1,030.51	959.50	71.01	14.511	
11,100.00	9,765.67	11,862.16	10,557.28	52.91	53.90	-140.20	-364.86	-916.51	1,030.52	956.82	73.70	13.983	
11,200.00	9,763.75	11,962.16	10,555.35	55.03	55.95	-140.20	-365.32	-1,016.49	1,030.53	954.05	76.48	13.475	
11,300.00	9,761.83	12,062.16	10,553.44	57.21	58.07	-140.20	-365.78	-1,116.47	1,030.54	951.19	79.35	12.988	
11,400.00	9,759.91	12,162.16	10,551.53	59.45	60.24	-140.20	-366.24	-1,216.45	1,030.55	948.25	82.29	12.523	
11,500.00	9,757.99	12,262.16	10,549.61	61.74	62.47	-140.20	-366.70	-1,316.43	1,030.56	945.24	85.31	12.080	
11,600.00	9,756.07	12,362.16	10,547.69	64.08	64.74	-140.20	-367.16	-1,416.41	1,030.57	942.17	88.39	11.659	
11,700.00	9,754.15	12,462.16	10,545.78	66.45	67.06	-140.20	-367.62	-1,516.39	1,030.57	939.04	91.53	11.259	
11,800.00	9,752.23	12,562.16	10,543.86	68.86	69.41	-140.20	-368.07	-1,616.37	1,030.58	935.86	94.72	10.880	
11,900.00	9,750.31	12,662.16	10,541.94	71.30	71.80	-140.20	-368.53	-1,716.35	1,030.59	932.64	97.95	10.521	
12,000.00	9,748.39	12,762.16	10,540.03	73.76	74.23	-140.20	-368.99	-1,816.33	1,030.60	929.37	101.23	10.181	
12,100.00	9,746.47	12,862.16	10,538.11	76.26	76.68	-140.20	-369.45	-1,916.31	1,030.61	926.07	104.55	9.858	
12,200.00	9,744.55	12,962.16	10,536.19	78.77	79.15	-140.20	-369.91	-2,016.29	1,030.62	922.73	107.89	9.552	
12,300.00	9,742.63	13,062.16	10,534.27	81.31	81.65	-140.20	-370.37	-2,116.27	1,030.63	919.35	111.27	9.262	
12,400.00	9,740.71	13,162.16	10,532.36	83.87	84.17	-140.20	-370.83	-2,216.25	1,030.64	915.95	114.68	8.987	
12,500.00	9,738.79	13,262.16	10,530.44	86.44	86.71	-140.20	-371.29	-2,316.23	1,030.65	912.53	118.12	8.726	
12,600.00	9,736.87	13,362.16	10,528.52	89.03	89.27	-140.20	-371.75	-2,416.21	1,030.66	909.08	121.58	8.477	
12,700.00	9,734.95	13,462.16	10,526.61	91.64	91.84	-140.20	-372.21	-2,516.19	1,030.67	905.61	125.06	8.242	
12,800.00	9,733.03	13,562.16	10,524.69	94.26	94.43	-140.20	-372.67	-2,616.18	1,030.67	902.12	128.56	8.017	
12,900.00	9,731.11	13,662.16	10,522.77	96.89	97.03	-140.20	-373.13	-2,716.16	1,030.68	898.61	132.08	7.804	
13,000.00	9,729.19	13,762.16	10,520.86	99.53	99.65	-140.20	-373.59	-2,816.14	1,030.69	895.08	135.61	7.600	
13,100.00	9,727.27	13,862.16	10,518.94	102.18	102.28	-140.20	-374.05	-2,916.12	1,030.70	891.54	139.17	7.406	
13,200.00	9,725.35	13,962.16	10,517.02	104.85	104.91	-140.19	-374.51	-3,016.10	1,030.71	887.88	142.73	7.221	
13,300.00	9,723.43	14,062.16	10,515.10	107.52	107.56	-140.19	-374.97	-3,116.08	1,030.72	884.41	146.31	7.045	
13,400.00	9,721.51	14,162.16	10,513.19	110.20	110.22	-140.19	-375.43	-3,216.06	1,030.73	880.82	149.91	6.876	
13,500.00	9,719.59	14,262.16	10,511.27	112.88	112.88	-140.19	-375.89	-3,316.04	1,030.74	877.23	153.51	6.714	
13,600.00	9,717.67	14,362.16	10,509.35	115.58	115.58	-140.19	-376.35	-3,416.02	1,030.75	873.62	157.12	6.560	
13,700.00	9,715.75	14,462.16	10,507.44	118.28	118.24	-140.19	-376.80	-3,516.00	1,030.76	870.01	160.75	6.412	
13,800.00	9,713.83	14,562.16	10,505.52	120.99	120.93	-140.19	-377.26	-3,615.98	1,030.76	866.38	164.38	6.270	
13,900.00	9,711.91	14,662.16	10,503.60	123.70	123.62	-140.19	-377.72	-3,715.96	1,030.77	862.75	168.03	6.135	
14,000.00	9,709.99	14,762.16	10,501.68	126.42	126.32	-140.19	-378.18	-3,815.94	1,030.78	859.10	171.68	6.004	
14,100.00	9,708.07	14,862.16	10,499.77	129.14	129.03	-140.19	-378.64	-3,915.92	1,030.79	855.45	175.34	5.879	
14,200.00	9,706.15	14,962.16	10,497.85	131.87	131.74	-140.19	-379.10	-4,015.90	1,030.80	851.79	179.01	5.758	
14,300.00	9,704.23	15,062.16	10,495.93	134.61	134.46	-140.19	-379.56	-4,115.88	1,030.81	848.13	182.68	5.643	
14,400.00	9,702.31	15,162.16	10,494.02	137.35	137.18	-140.19	-380.02	-4,215.86	1,030.82	844.46	186.36	5.531	
14,500.00	9,700.39	15,262.16	10,492.10	140.09	139.90	-140.19	-380.48	-4,315.84	1,030.83	840.78	190.05	5.424	
14,600.00	9,698.47	15,362.16	10,490.18	142.83	142.63	-140.19	-380.94	-4,415.83	1,030.84	837.10	193.74	5.321	
14,603.29	9,698.40	15,365.45	10,490.12	142.92	142.72	-140.19	-380.95	-4,419.12	1,030.84	836.98	193.86	5.317	
14,624.96	9,697.99	15,375.34	10,489.93	143.51	142.99	-140.19	-381.00	-4,429.00	1,030.81	836.47	194.44	5.302 SF	



Phoenix Technology Services
Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design													Malaga 1 Federal 1 - 1 - OH - Surveys		Offset Site Error:	0.00 usft
Survey Program: 143-MWD															Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	48.50	0.00	0.00	-82.68	299.50	-2,331.80	2,351.46							
100.00	100.00	50.13	98.63	0.13	0.06	-82.68	299.62	-2,331.80	2,350.97	2,350.78	0.19	N/A				
200.00	200.00	147.53	196.03	0.49	0.17	-82.66	300.50	-2,331.80	2,351.09	2,350.43	0.66	3,560.367				
300.00	300.00	246.89	295.18	0.85	0.40	-82.62	301.94	-2,331.80	2,351.27	2,350.03	1.24	1,892.481				
400.00	400.00	346.41	394.88	1.21	0.61	-82.58	303.63	-2,331.80	2,351.49	2,349.68	1.82	1,295.147				
500.00	500.00	446.79	495.24	1.56	0.82	-82.54	305.26	-2,331.80	2,351.70	2,349.32	2.38	988.734				
600.00	600.00	547.17	595.61	1.92	1.02	-82.51	306.76	-2,331.80	2,351.90	2,348.95	2.94	799.586				
700.00	700.00	647.53	695.97	2.28	1.23	-82.47	308.13	-2,331.80	2,352.07	2,348.57	3.50	671.158				
800.00	800.00	747.52	795.95	2.64	1.44	-82.44	309.44	-2,331.80	2,352.25	2,348.17	4.07	577.804				
900.00	900.00	847.51	895.93	3.00	1.65	-82.41	310.75	-2,331.80	2,352.42	2,347.78	4.64	507.258				
1,000.00	1,000.00	947.50	995.91	3.36	1.86	-82.38	312.06	-2,331.80	2,352.59	2,347.39	5.20	452.071				
1,100.00	1,099.99	1,047.00	1,095.41	3.71	2.07	-158.60	313.43	-2,331.80	2,353.99	2,348.21	5.78	407.187				
1,200.00	1,199.91	1,146.40	1,194.79	4.06	2.29	-158.57	314.97	-2,331.80	2,357.85	2,351.51	6.34	371.657				
1,300.00	1,299.70	1,245.85	1,294.22	4.41	2.51	-158.57	316.66	-2,331.80	2,364.04	2,357.13	6.91	342.176				
1,400.00	1,399.46	1,345.62	1,393.98	4.76	2.73	-158.59	318.41	-2,331.80	2,370.76	2,363.28	7.48	316.940				
1,500.00	1,499.22	1,445.39	1,493.73	5.12	2.96	-158.61	320.15	-2,331.80	2,377.49	2,369.44	8.05	295.222				
1,600.00	1,598.97	1,545.16	1,593.49	5.48	3.18	-158.63	321.89	-2,331.80	2,384.22	2,375.59	8.63	276.345				
1,700.00	1,698.73	1,643.84	1,692.15	5.84	3.40	-158.64	323.77	-2,331.80	2,390.97	2,381.76	9.20	259.794				
1,800.00	1,798.48	1,742.44	1,790.73	6.20	3.62	-158.65	326.01	-2,331.80	2,397.75	2,387.98	9.78	245.173				
1,900.00	1,898.24	1,841.04	1,889.29	6.56	3.84	-158.65	328.62	-2,331.80	2,404.61	2,394.25	10.36	232.167				
2,000.00	1,998.00	1,939.66	1,987.87	6.92	4.07	-158.64	331.60	-2,331.80	2,411.50	2,400.57	10.94	220.505				
2,100.00	2,097.75	2,038.28	2,086.43	7.29	4.29	-158.62	334.92	-2,331.80	2,418.45	2,406.93	11.52	209.978				
2,200.00	2,197.51	2,136.69	2,184.77	7.65	4.52	-158.59	338.62	-2,331.80	2,425.44	2,413.34	12.10	200.445				
2,300.00	2,297.27	2,235.42	2,283.42	8.02	4.75	-158.56	342.69	-2,331.80	2,432.48	2,419.79	12.69	191.744				
2,400.00	2,397.02	2,334.14	2,382.04	8.38	4.97	-158.51	347.07	-2,331.80	2,439.56	2,426.29	13.27	183.810				
2,500.00	2,496.78	2,432.44	2,480.23	8.75	5.20	-158.46	351.75	-2,331.80	2,446.69	2,432.84	13.86	176.548				
2,600.00	2,596.54	2,534.57	2,582.24	9.11	5.42	-158.41	356.72	-2,331.80	2,453.84	2,439.40	14.44	169.942				
2,700.00	2,696.29	2,637.25	2,684.84	9.48	5.62	-158.38	360.68	-2,331.80	2,460.85	2,445.86	15.00	164.105				
2,800.00	2,796.02	2,738.21	2,785.75	9.85	5.83	-158.35	363.84	-2,331.80	2,468.07	2,452.52	15.55	158.701				
2,900.00	2,895.56	2,837.77	2,885.27	10.22	6.04	-158.31	366.88	-2,331.80	2,477.39	2,461.29	16.10	153.886				
3,000.00	2,894.81	2,937.07	2,984.52	10.60	6.25	-158.28	369.91	-2,331.80	2,489.14	2,472.50	16.64	149.613				
3,100.00	3,093.71	3,036.67	3,084.08	10.99	6.46	-158.25	372.92	-2,331.80	2,503.30	2,486.13	17.17	145.821				
3,200.00	3,192.25	3,137.27	3,184.64	11.38	6.67	-158.30	375.50	-2,331.80	2,519.50	2,501.78	17.72	142.216				
3,300.00	3,290.73	3,237.78	3,285.13	11.78	6.88	-158.40	377.49	-2,331.80	2,535.93	2,517.64	18.29	138.643				
3,400.00	3,389.21	3,337.79	3,385.13	12.18	7.09	-158.51	378.90	-2,331.80	2,552.30	2,533.44	18.86	135.321				
3,500.00	3,487.69	3,436.96	3,484.29	12.58	7.27	-158.63	380.03	-2,331.80	2,568.64	2,549.22	19.42	132.257				
3,600.00	3,586.17	3,536.11	3,583.44	12.99	7.47	-158.75	380.96	-2,331.80	2,584.97	2,564.99	19.98	129.359				
3,700.00	3,684.65	3,635.26	3,682.58	13.39	7.66	-158.87	381.70	-2,331.80	2,601.29	2,580.75	20.54	126.615				
3,800.00	3,783.13	3,734.39	3,781.71	13.80	7.85	-159.00	382.24	-2,331.80	2,617.59	2,596.49	21.11	124.013				
3,900.00	3,881.61	3,832.35	3,879.67	14.21	8.05	-159.12	382.75	-2,331.80	2,633.91	2,612.23	21.68	121.490				
4,000.00	3,980.09	3,930.25	3,977.57	14.62	8.26	-159.24	383.45	-2,331.80	2,650.26	2,628.00	22.25	119.091				
4,100.00	4,078.57	4,028.16	4,075.48	15.03	8.46	-159.35	384.35	-2,331.80	2,666.64	2,643.81	22.83	116.812				
4,200.00	4,177.05	4,126.09	4,173.40	15.44	8.66	-159.46	385.43	-2,331.80	2,683.05	2,659.65	23.40	114.644				
4,300.00	4,275.53	4,224.06	4,271.36	15.86	8.87	-159.56	386.70	-2,331.80	2,699.49	2,675.51	23.98	112.555				
4,400.00	4,374.01	4,322.08	4,369.37	16.27	9.09	-159.65	388.14	-2,331.80	2,715.96	2,691.39	24.57	110.535				
4,500.00	4,472.49	4,420.11	4,467.39	16.69	9.30	-159.75	389.75	-2,331.80	2,732.46	2,707.30	25.16	108.609				
4,600.00	4,570.97	4,518.15	4,565.41	17.11	9.52	-159.84	391.53	-2,331.80	2,748.98	2,723.23	25.75	106.770				
4,700.00	4,669.45	4,616.19	4,663.43	17.52	9.73	-159.92	393.47	-2,331.80	2,765.52	2,739.19	26.34	105.013				
4,800.00	4,767.93	4,714.50	4,761.72	17.94	9.94	-160.00	395.57	-2,331.80	2,782.09	2,755.16	26.92	103.341				
4,900.00	4,866.41	4,813.33	4,860.53	18.36	10.15	-160.08	397.65	-2,331.80	2,798.65	2,771.15	27.50	101.757				
5,000.00	4,964.89	4,912.15	4,959.33	18.78	10.36	-160.16	399.62	-2,331.80	2,815.21	2,787.13	28.09	100.238				
5,100.00	5,063.37	5,010.97	5,058.13	19.20	10.57	-160.24	401.50	-2,331.80	2,831.77	2,803.10	28.67	98.779				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services

Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 143-MWD													Offset Well Error:	0.00 usft
Malaga 1 Federal 1 - 1 - OH - Surveys														
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,161.85	5,109.79	5,156.93	19.62	10.78	-160.32	403.29	-2,331.80	2,848.33	2,819.08	29.25	97.378		
5,300.00	5,260.33	5,208.13	5,255.26	20.04	10.98	-160.40	405.04	-2,331.80	2,864.88	2,835.05	29.83	96.033		
5,400.00	5,358.82	5,306.43	5,353.54	20.47	11.19	-160.48	406.88	-2,331.80	2,881.45	2,851.04	30.41	94.740		
5,500.00	5,457.30	5,404.72	5,451.82	20.89	11.40	-160.56	408.80	-2,331.80	2,898.04	2,867.04	31.00	93.496		
5,600.00	5,555.92	5,503.16	5,550.23	21.31	11.60	-160.69	410.82	-2,331.80	2,913.85	2,882.22	31.63	92.118		
5,700.00	5,654.93	5,602.01	5,649.06	21.71	11.81	-160.80	412.93	-2,331.80	2,927.27	2,895.01	32.26	90.735		
5,800.00	5,754.28	5,702.55	5,749.58	22.10	12.02	-160.89	414.90	-2,331.80	2,938.23	2,905.35	32.87	89.382		
5,900.00	5,853.88	5,803.35	5,850.36	22.48	12.23	-160.96	416.44	-2,331.80	2,946.68	2,913.22	33.46	88.062		
6,000.00	5,953.69	5,904.33	5,951.34	22.84	12.45	-161.01	417.54	-2,331.80	2,952.63	2,918.60	34.03	86.773		
6,100.00	6,053.62	6,004.27	6,051.28	23.19	12.65	-161.03	418.41	-2,331.80	2,956.08	2,921.52	34.57	85.522		
6,200.00	6,153.62	6,104.22	6,151.22	23.52	12.86	-84.78	419.29	-2,331.80	2,957.09	2,920.85	36.24	81.602		
6,300.00	6,253.62	6,203.22	6,250.21	23.84	13.08	-84.75	420.35	-2,331.80	2,957.16	2,920.41	36.78	80.405		
6,400.00	6,353.62	6,302.20	6,349.19	24.17	13.30	-84.73	421.78	-2,331.80	2,957.32	2,920.00	37.32	79.242		
6,500.00	6,453.62	6,401.15	6,448.15	24.50	13.51	-84.69	423.57	-2,331.80	2,957.49	2,919.62	37.86	78.111		
6,600.00	6,553.62	6,500.14	6,547.09	24.82	13.73	-84.65	425.73	-2,331.80	2,957.69	2,919.28	38.41	77.012		
6,700.00	6,653.62	6,599.25	6,646.17	25.15	13.95	-84.60	428.25	-2,331.80	2,957.93	2,918.98	38.95	75.941		
6,800.00	6,753.62	6,698.70	6,745.58	25.48	14.17	-84.55	431.01	-2,331.80	2,958.19	2,918.69	39.50	74.894		
6,900.00	6,853.62	6,798.14	6,844.98	25.81	14.39	-84.49	433.94	-2,331.80	2,958.47	2,918.42	40.05	73.876		
7,000.00	6,953.62	6,897.58	6,944.36	26.14	14.62	-84.43	437.05	-2,331.80	2,958.77	2,918.18	40.60	72.885		
7,100.00	7,053.62	6,997.00	7,043.73	26.47	14.84	-84.37	440.35	-2,331.80	2,959.10	2,917.95	41.14	71.919		
7,200.00	7,153.62	7,097.65	7,144.32	26.81	15.06	-84.30	443.75	-2,331.80	2,959.43	2,917.74	41.69	70.983		
7,300.00	7,253.62	7,199.45	7,246.08	27.14	15.27	-84.25	446.65	-2,331.80	2,959.71	2,917.48	42.24	70.074		
7,400.00	7,353.62	7,300.68	7,347.29	27.47	15.48	-84.20	448.95	-2,331.80	2,959.94	2,917.17	42.78	69.195		
7,500.00	7,453.62	7,401.13	7,447.72	27.81	15.69	-84.16	451.00	-2,331.80	2,960.15	2,916.84	43.31	68.349		
7,600.00	7,553.62	7,501.58	7,548.15	28.14	15.89	-84.13	452.89	-2,331.80	2,960.34	2,916.50	43.84	67.522		
7,700.00	7,653.62	7,600.95	7,647.50	28.48	16.09	-84.09	454.71	-2,331.80	2,960.53	2,916.15	44.38	66.707		
7,800.00	7,753.62	7,699.64	7,746.17	28.81	16.30	-84.05	456.90	-2,331.80	2,960.76	2,915.84	44.92	65.907		
7,900.00	7,853.62	7,798.31	7,844.80	29.15	16.51	-84.00	459.50	-2,331.80	2,961.03	2,915.57	45.47	65.127		
8,000.00	7,953.62	7,896.95	7,943.40	29.49	16.72	-83.94	462.52	-2,331.80	2,961.35	2,915.35	46.01	64.365		
8,100.00	8,053.62	7,995.94	8,042.33	29.82	16.94	-83.88	465.94	-2,331.80	2,961.72	2,915.16	46.56	63.615		
8,200.00	8,153.62	8,095.32	8,141.64	30.16	17.16	-83.81	469.57	-2,331.80	2,962.11	2,915.00	47.11	62.873		
8,300.00	8,253.62	8,194.59	8,240.94	30.50	17.38	-83.73	473.38	-2,331.80	2,962.53	2,914.86	47.67	62.149		
8,400.00	8,353.62	8,293.83	8,340.21	30.84	17.60	-83.65	477.17	-2,331.80	2,962.94	2,914.72	48.22	61.448		
8,500.00	8,453.62	8,397.10	8,443.22	31.18	17.82	-83.60	480.55	-2,331.80	2,963.31	2,914.54	48.77	60.761		
8,600.00	8,553.62	8,496.56	8,542.63	31.52	18.03	-83.54	483.69	-2,331.80	2,963.67	2,914.35	49.32	60.093		
8,700.00	8,653.62	8,595.48	8,641.49	31.86	18.25	-83.47	487.10	-2,331.80	2,964.06	2,914.19	49.86	59.442		
8,800.00	8,753.62	8,694.38	8,740.32	32.20	18.46	-83.40	490.80	-2,331.80	2,964.48	2,914.07	50.41	58.805		
8,900.00	8,853.62	8,793.84	8,839.72	32.54	18.68	-83.33	494.36	-2,331.80	2,964.88	2,913.91	50.97	58.170		
9,000.00	8,953.62	8,890.20	8,946.05	32.88	18.90	-83.28	496.81	-2,331.80	2,965.16	2,913.64	51.52	57.549		
9,100.00	9,053.62	9,000.17	9,046.00	33.22	19.11	-83.24	498.99	-2,331.80	2,965.42	2,913.34	52.07	56.946		
9,200.00	9,153.62	9,100.15	9,145.95	33.56	19.32	-83.20	501.17	-2,331.80	2,965.68	2,913.05	52.63	56.355		
9,300.00	9,253.52	9,200.15	9,245.93	33.89	19.53	-3.08	503.35	-2,331.80	2,965.04	2,911.01	52.03	56.946		
9,400.00	9,351.64	9,298.75	9,344.51	34.18	19.74	-3.16	505.41	-2,331.80	2,944.67	2,893.88	50.78	57.983		
9,500.00	9,445.02	9,392.66	9,438.40	34.44	19.94	-3.37	507.25	-2,331.80	2,909.53	2,861.30	48.23	60.331		
9,600.00	9,530.85	9,479.00	9,524.73	34.69	20.12	-3.77	508.85	-2,331.80	2,858.71	2,814.22	44.49	64.249		
9,700.00	9,606.49	9,554.69	9,600.41	34.95	20.28	-4.44	510.20	-2,331.80	2,793.76	2,753.93	39.83	70.145		
9,800.00	9,669.67	9,617.54	9,663.25	35.28	20.41	-5.60	511.41	-2,331.80	2,716.66	2,682.03	34.63	78.446		
9,900.00	9,718.45	9,666.21	9,711.90	35.73	20.52	-7.84	512.43	-2,331.80	2,629.77	2,600.11	29.66	88.654		
10,000.00	9,751.38	9,699.21	9,744.89	36.35	20.59	-13.03	513.15	-2,331.80	2,535.72	2,508.78	26.94	94.119		
10,100.00	9,771.38	9,719.43	9,765.11	37.14	20.63	-21.94	513.61	-2,331.80	2,438.01	2,408.26	29.75	81.937		
10,200.00	9,781.03	9,729.40	9,775.08	38.10	20.65	-53.48	513.84	-2,331.80	2,338.74	2,290.54	48.20	48.524		
10,300.00	9,781.04	9,729.80	9,775.48	39.22	20.65	-110.25	513.85	-2,331.80	2,238.95	2,181.95	57.00	39.279		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

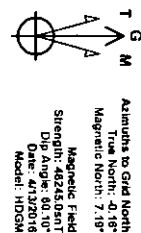


Phoenix Technology Services
Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3011.50usft (Patterson 297)
Reference Site:	Dr. Scrivner Federal 01-24S-28E RB	MD Reference:	RKB @ 3011.50usft (Patterson 297)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Compass 5000 GCR
Reference Design:	Preliminary Plan 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 143-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N-S (usft)	+E-W (usft)						
10,400.00	9,779.12	9,728.18	9,773.86	40.51	20.65	159.99	513.82	-2,331.80	2,139.00	2,109.16	29.83	71.702		
10,500.00	9,777.19	9,726.44	9,772.11	41.95	20.65	105.58	513.78	-2,331.80	2,039.08	1,979.07	60.01	33.980		
10,600.00	9,775.27	9,724.57	9,770.25	43.52	20.64	98.08	513.73	-2,331.80	1,939.49	1,875.46	63.04	30.768		
10,700.00	9,773.35	9,722.66	9,768.33	45.20	20.64	97.60	513.69	-2,331.80	1,840.22	1,775.45	64.77	28.413		
10,800.00	9,771.43	9,720.74	9,766.41	46.99	20.63	97.12	513.64	-2,331.80	1,741.03	1,674.42	66.61	26.138		
10,900.00	9,769.51	9,718.82	9,764.50	48.88	20.63	96.64	513.60	-2,331.80	1,641.93	1,573.38	68.55	23.952		
11,000.00	9,767.59	9,716.90	9,762.58	50.85	20.63	96.16	513.56	-2,331.80	1,542.95	1,472.37	70.59	21.861		
11,100.00	9,765.67	9,714.98	9,760.66	52.91	20.62	95.68	513.51	-2,331.80	1,444.11	1,371.42	72.69	19.867		
11,200.00	9,763.75	9,713.06	9,758.74	55.03	20.62	95.20	513.47	-2,331.80	1,345.43	1,270.57	74.86	17.972		
11,300.00	9,761.83	9,711.15	9,756.83	57.21	20.61	94.71	513.42	-2,331.80	1,246.96	1,169.86	77.10	16.173		
11,400.00	9,759.91	9,709.23	9,754.91	59.45	20.61	94.23	513.38	-2,331.80	1,148.76	1,069.37	79.39	14.470		
11,500.00	9,757.99	9,707.31	9,752.99	61.74	20.61	93.74	513.34	-2,331.80	1,050.88	969.16	81.72	12.859		
11,600.00	9,756.07	9,705.39	9,751.07	64.08	20.60	93.26	513.29	-2,331.80	953.45	869.35	84.10	11.337		
11,700.00	9,754.15	9,703.47	9,749.16	66.45	20.60	92.77	513.25	-2,331.80	856.61	770.09	86.51	9.901		
11,800.00	9,752.23	9,701.56	9,747.24	68.86	20.59	92.28	513.21	-2,331.80	760.57	671.61	88.96	8.550		
11,900.00	9,750.31	9,699.64	9,745.32	71.30	20.59	91.80	513.16	-2,331.80	665.70	574.27	91.43	7.281		
12,000.00	9,748.39	9,697.72	9,743.40	73.76	20.58	91.31	513.12	-2,331.80	572.57	478.65	93.92	6.096		
12,100.00	9,746.47	9,695.80	9,741.49	76.26	20.58	90.82	513.08	-2,331.80	482.20	385.76	96.44	5.000		
12,200.00	9,744.55	9,693.89	9,739.57	78.77	20.58	90.33	513.03	-2,331.80	396.46	297.49	98.97	4.006		
12,300.00	9,742.63	9,691.97	9,737.65	81.31	20.57	89.84	512.99	-2,331.80	319.12	217.60	101.52	3.143		
12,400.00	9,740.71	9,690.05	9,735.74	83.87	20.57	89.35	512.95	-2,331.80	257.86	153.78	104.08	2.477		
12,500.00	9,738.79	9,688.13	9,733.82	86.44	20.56	88.86	512.91	-2,331.80	226.13	119.48	106.65	2.120		
12,526.81	9,738.27	9,687.62	9,733.31	87.14	20.56	88.73	512.90	-2,331.80	224.54	117.19	107.34	2.092 CC, ES, SF		
12,600.00	9,736.87	9,686.22	9,731.90	89.03	20.56	88.37	512.86	-2,331.80	236.16	126.93	109.23	2.162		
12,700.00	9,734.95	9,684.30	9,729.99	91.64	20.56	87.89	512.82	-2,331.80	283.55	171.74	111.82	2.536		
12,800.00	9,733.03	9,682.38	9,728.07	94.25	20.55	87.40	512.78	-2,331.80	353.59	239.18	114.40	3.091		
12,900.00	9,731.11	9,680.46	9,726.15	96.89	20.55	86.91	512.74	-2,331.80	435.48	318.48	117.00	3.722		
13,000.00	9,729.19	9,678.55	9,724.23	99.53	20.54	86.42	512.70	-2,331.80	523.69	404.09	119.59	4.379		
13,100.00	9,727.27	9,676.63	9,722.32	102.18	20.54	85.93	512.65	-2,331.80	615.51	493.32	122.19	5.037		
13,200.00	9,725.35	9,674.71	9,720.40	104.85	20.54	85.44	512.61	-2,331.80	709.53	584.76	124.78	5.686		
13,300.00	9,723.43	9,672.80	9,718.48	107.52	20.53	84.96	512.57	-2,331.80	805.00	677.63	127.37	6.320		
13,400.00	9,721.51	9,670.88	9,716.57	110.20	20.53	84.47	512.53	-2,331.80	901.44	771.49	129.96	6.936		
13,500.00	9,719.59	9,668.96	9,714.65	112.88	20.52	83.98	512.49	-2,331.80	998.59	866.05	132.54	7.534		
13,600.00	9,717.67	9,667.04	9,712.73	115.58	20.52	83.50	512.45	-2,331.80	1,096.24	961.12	135.12	8.113		
13,700.00	9,715.75	9,665.13	9,710.82	118.28	20.52	83.01	512.41	-2,331.80	1,194.27	1,056.59	137.69	8.674		
13,800.00	9,713.83	9,663.21	9,708.90	120.99	20.51	82.53	512.36	-2,331.80	1,292.61	1,152.36	140.25	9.217		
13,900.00	9,711.91	9,661.29	9,706.99	123.70	20.51	82.05	512.32	-2,331.80	1,391.18	1,248.38	142.80	9.742		
14,000.00	9,709.99	9,659.38	9,705.07	126.42	20.50	81.56	512.28	-2,331.80	1,489.94	1,344.59	145.35	10.251		
14,100.00	9,708.07	9,657.46	9,703.15	129.14	20.50	81.08	512.24	-2,331.80	1,588.85	1,440.97	147.88	10.744		
14,200.00	9,706.15	9,655.54	9,701.24	131.87	20.50	80.60	512.20	-2,331.80	1,687.89	1,537.48	150.41	11.222		
14,300.00	9,704.23	9,653.63	9,699.32	134.61	20.49	80.13	512.16	-2,331.80	1,787.03	1,634.11	152.92	11.686		
14,400.00	9,702.31	9,651.71	9,697.40	137.35	20.49	79.65	512.12	-2,331.80	1,886.26	1,730.84	155.42	12.136		
14,500.00	9,700.39	9,649.79	9,695.49	140.09	20.48	79.17	512.08	-2,331.80	1,985.57	1,827.66	157.91	12.574		
14,600.00	9,698.47	9,647.88	9,693.57	142.83	20.48	78.70	512.04	-2,331.80	2,084.94	1,924.55	160.38	13.000		
14,624.96	9,697.99	9,647.40	9,693.09	143.51	20.48	78.58	512.03	-2,331.80	2,109.75	1,948.75	160.99	13.105		



December 31 2015



Connection: TenarisXP® BTC
Casing/Tubing: CAS
Coupling Option: REGULAR

Size: 4.500 in.
Wall: 0.290 in.
Weight: 13.50 lbs/ft
Grade: P110-ICY
Min. Wall Thickness: 87.5 %



PIPE BODY DATA

GEOMETRY

Nominal OD	4.500 in.	Nominal Weight	13.50 lbs/ft	Standard Drift Diameter	3.795 in.
Nominal ID	3.920 in.	Wall Thickness	0.290 in.	Special Drift Diameter	N/A
Plain End Weight	13.05 lbs/ft				

PERFORMANCE

Body Yield Strength	479 x 1000 lbs	Internal Yield	14100 psi	SMYS	125000 psi
Collapse	11620 psi				

TENARISXP® BTC CONNECTION DATA

GEOMETRY

Connection OD	5.000 in.	Coupling Length	9.075 in.	Connection ID	3.908 in.
Critical Section Area	3.836 sq. in.	Threads per in.	5.00	Make-Up Loss	4.016 in.

PERFORMANCE

Tension Efficiency	100 %	Joint Yield Strength	479 x 1000 lbs	Internal Pressure Capacity ⁽¹⁾	14100 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	479 x 1000 lbs	Structural Bending ⁽²⁾	127 °/100 ft
External Pressure Capacity	11620 psi				

ESTIMATED MAKE UP TORQUES⁽³⁾

Minimum	6950 ft-lbs	Optimum	7720 ft-lbs	Maximum	8490 ft-lbs
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OPERATIONAL LIMIT TORQUES

Operating Torque	10500 ft-lbs	Yield Torque	12200 ft-lbs		
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BLANKING DIMENSIONS

Blanking Dimensions

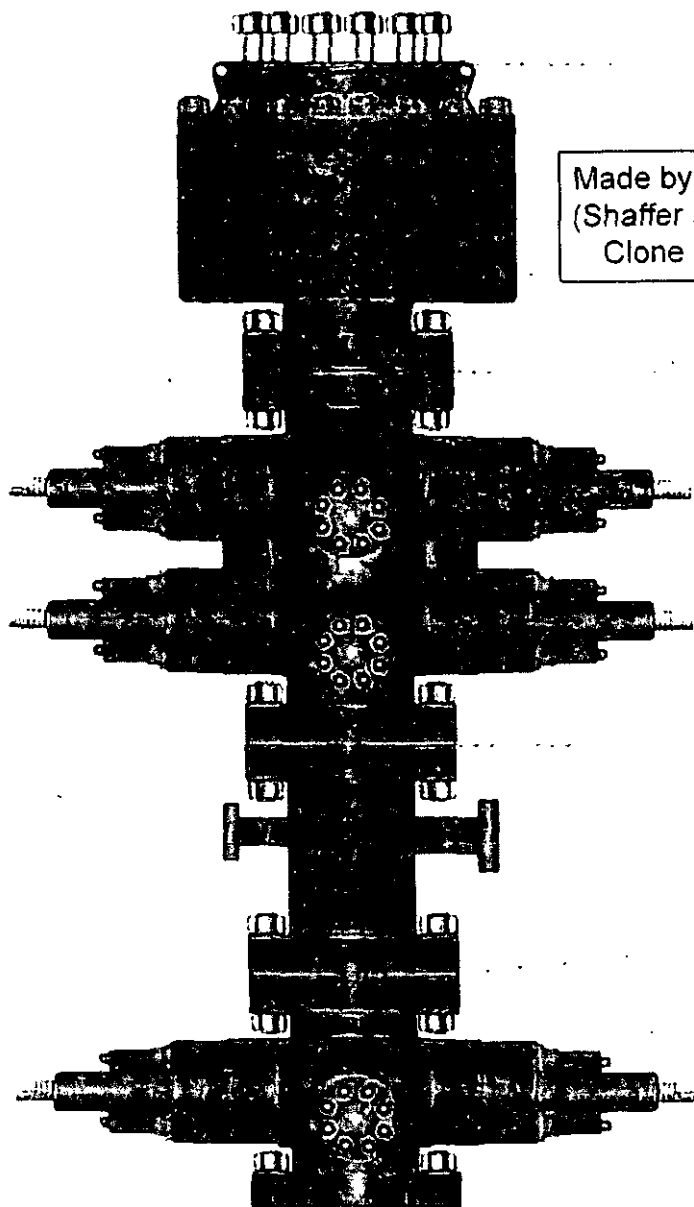


PATTERSON-UTI

Well Control

RIG:

297



Made by Cameron
(Shaffer Spherical)
Clone Annular

PATTERSON-UTI # PS2-628

STYLE: New Shaffer Spherical

BORE 13 5/8" PRESSURE 5,000

HEIGHT: 48 1/2" WEIGHT: 13,800 lbs

PATTERSON-UTI # PC2-128

STYLE: New Cameron Type U

BORE 13 5/8" PRESSURE 10,000

RAMS: TOP 5" Pipe BTM 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

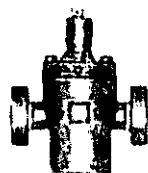
RAMS: 5" Pipe

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

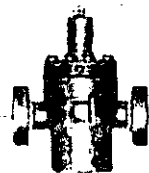
WING VALVES



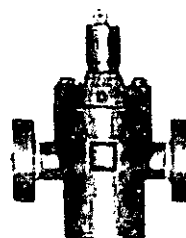
2" Check Valve



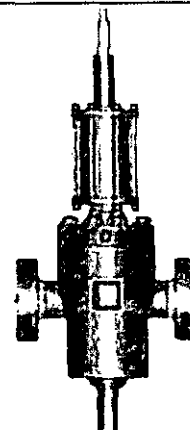
2" Manual Valve



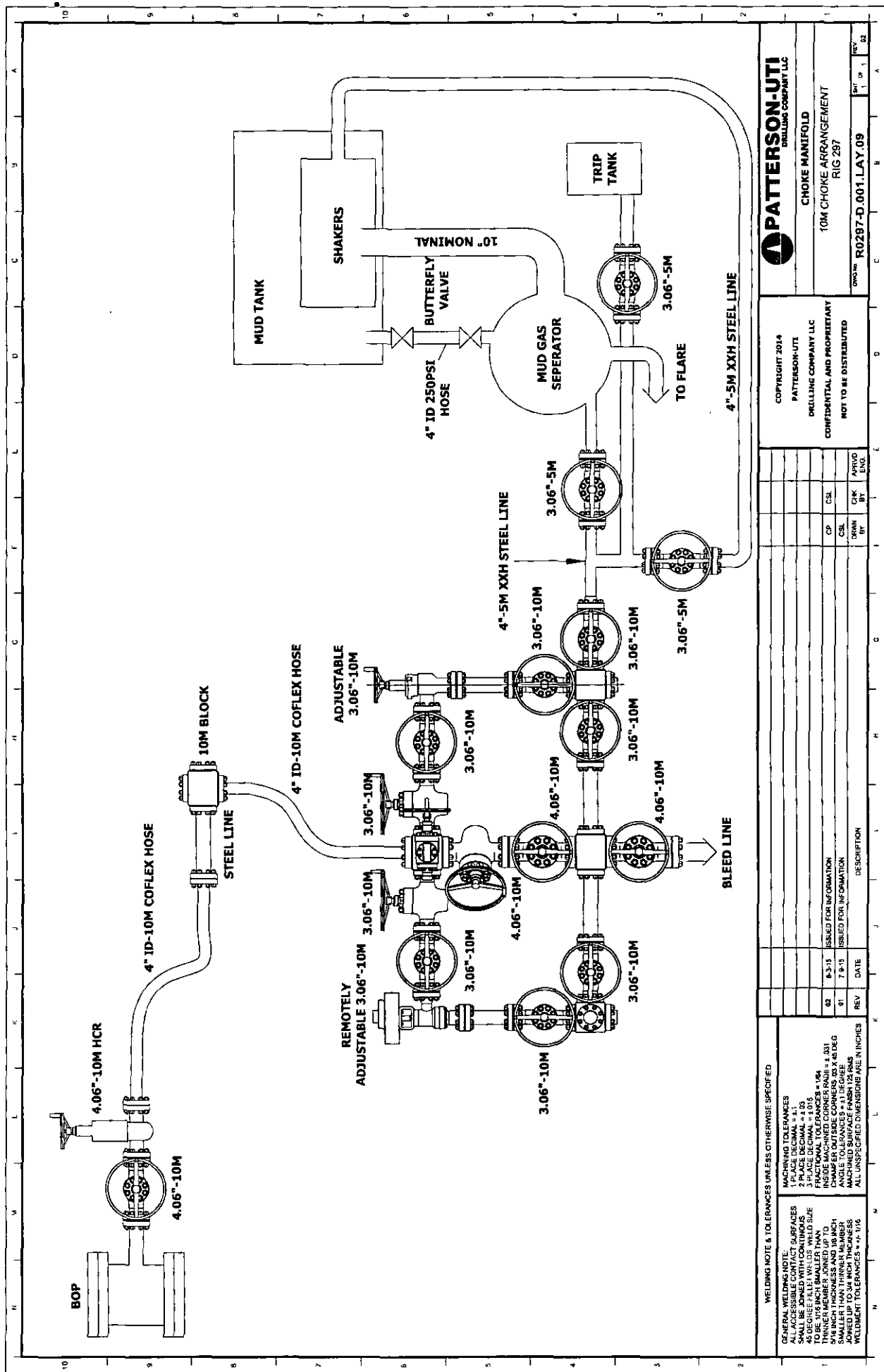
2" Manual Valve



4" Manual Valve



4" Hydraulic Valve



PATTERSON-UTI
DRILLING COMPANY LLC

CHOKE MANIFOLD
10M CHOKE ARRANGEMENT
RIG 297

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DRILLING COMPANY LLC
CONFIDENTIAL AND PROPRIETARY
NOT TO BE DISTRIBUTED

REV	DATE	DESCRIPTION
01	7-9-15	ISSUED FOR INFORMATION
02	8-3-15	ISSUED FOR INFORMATION

REV	DATE	DESCRIPTION
01	7-9-15	ISSUED FOR INFORMATION
02	8-3-15	ISSUED FOR INFORMATION

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REV	DATE	DESCRIPTION
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02	8-3-15	ISSUED FOR INFORMATION
03	8-3-15	ISSUED FOR INFORMATION
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18	8-3-15	ISSUED FOR INFORMATION
19	8-3-15	ISSUED FOR INFORMATION
20	8-3-15	ISSUED FOR INFORMATION

WELDING NOTE & TOLERANCES UNLESS OTHERWISE SPECIFIED
 GENERAL WELDING NOTE:
 1. ALL ACCESSIBLE CONTACT SURFACES SHALL BE JOINED WITH CONTINUOUS WELDING.
 2. WELDS SHALL BE MADE TO BE THE NEXT SMALLER THIN.
 3. THINNER MEMBER JOINED UP TO 3/16 INCH THICKNESS AND 1/8 INCH THICKNESS SHALL BE WELDED TO 3/16 INCH THICKNESS.
 4. ALL UNDESIRABLE SURFACES SHALL BE MACHINED SURFACE FINISH 125 RMS.
 5. ALL UNDESIRABLE DIMENSIONS ARE IN INCHES.
 6. WELDMENT TOLERANCES = ± 1/16

December 8, 2014

Internal Hydrostatic Test Graph



Midwest Hose
& Specialty, Inc.

Customer: Patterson

Pick Ticket #: 284918

Hose Specifications

Hose Type

Ck

L.D.

3"

Length

10'

O.D.

4.79"

Verification

Type of Fitting

4-1/16 10K

Die Size

5.37"

Coupling Method

Swage

Final O.D.

5.37"

Working Pressure

10000 PSI

Burst Pressure

Standard Safety Multiplier Applies

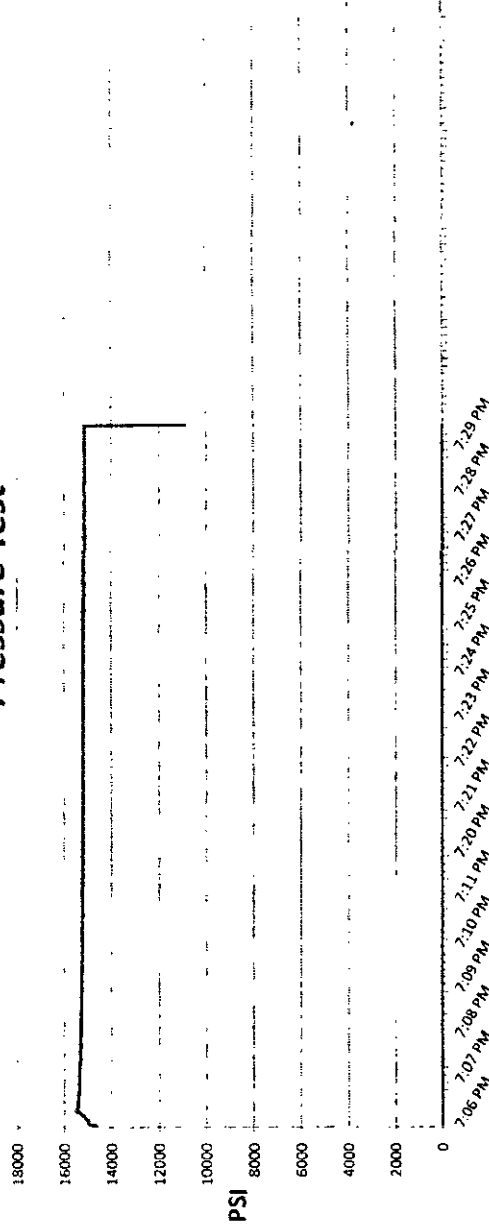
Hose Serial #

10490

Hose Assembly Serial #

284918-2

Pressure Test



Test Pressure

15000 PSI

Time Held at Test Pressure

15 2/4 Minutes

Actual Burst Pressure

Peak Pressure

15732 PSI

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

Tested By: Tyler Hill

Approved By: Ryan Adams



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
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	OKC	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'	Aarmor (yes/no)	YES
Fittings			
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	5.37
Hydrostatic Test Requirements			
Test Pressure (psi)	15,000	Hose assembly was tested with ambient water temperature.	
Test Pressure Hold Time (minutes)	15 1/2		
Date Tested	Tested By	Approved By	
12/8/2014			



Midwest Hose
& Specialty, Inc.

Certificate of Conformity

Customer: PATTERSON B&E

Customer P.O.# 260471

Sales Order # 236404

Date Assembled: 12/8/2014

Specifications

Hose Assembly Type: Choke & Kill

Assembly Serial # 287918-2

Hose Lot # and Date Code 10490-01/13

Hose Working Pressure (psi) 10000

Test Pressure (psi) 15000

We hereby certify that the above material 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

12/9/2014

December 9, 2014



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

Customer: Patterson

Pick Ticket #: 284918

Hose Specifications

Hose Type

Ck.

LD

3"

Length

20'

O.D.

4.77"

Verification

Type of Fitting

4-1/16 10K

Die Size

5.37"

Coupling Method

Swage

Final O.D.

5.40"

Working Pressure

10000 PSI

Burst Pressure

Standard Safety Multiplier Applies

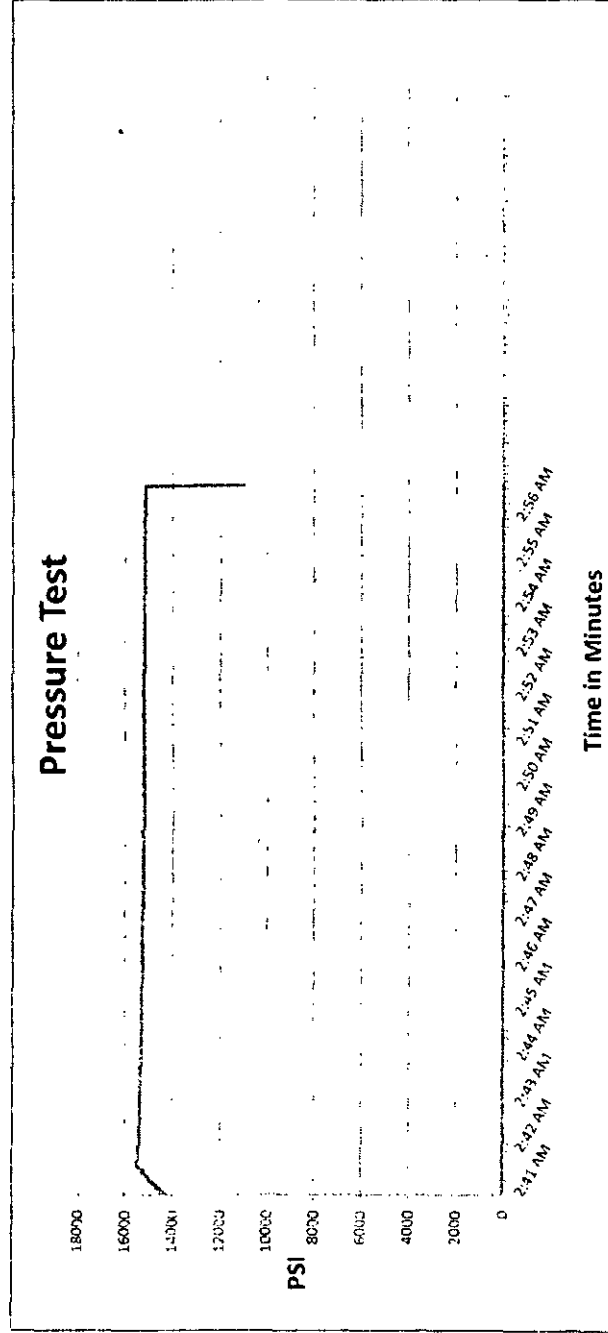
Hose Serial

10490

Hose Assembly Serial

284918-1

Pressure Test



Test Pressure

15000 PSI

Time Held at Test Pressure

15 2/4 Minutes

Actual Burst Pressure

Peak Pressure

15893 PSI

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

Tested By: Tyler Hill

Approved By: Ryan Adams



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
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	OKC	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
Fittings			
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	5.37	Dies Used	5.37
Hydrostatic Test Requirements			
Test Pressure (psi)	15,000	Hose assembly was tested with ambient water temperature.	
Test Pressure Hold Time (minutes)	15 1/2		
Date Tested	Tested By		Approved By
12/9/2014			



Midwest Hose
& Specialty, Inc.

Certificate of Conformity

Customer: PATTERSON B&E

Customer P.O.# 260471

Sales Order # 236404

Date Assembled: 12/8/2014

Specifications

Hose Assembly Type: Choke & Kill

Assembly Serial # 287918-1

Hose Lot # and Date Code 10490-01/13

Hose Working Pressure (psi) 10000

Test Pressure (psi) 15000

We hereby certify that the 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

12/9/2014

Internal Hydrostatic Test Graph



Midwest Hose
& Specialty, Inc.

Customer: Patterson

Pick Ticket #: 284918

Hose Specifications

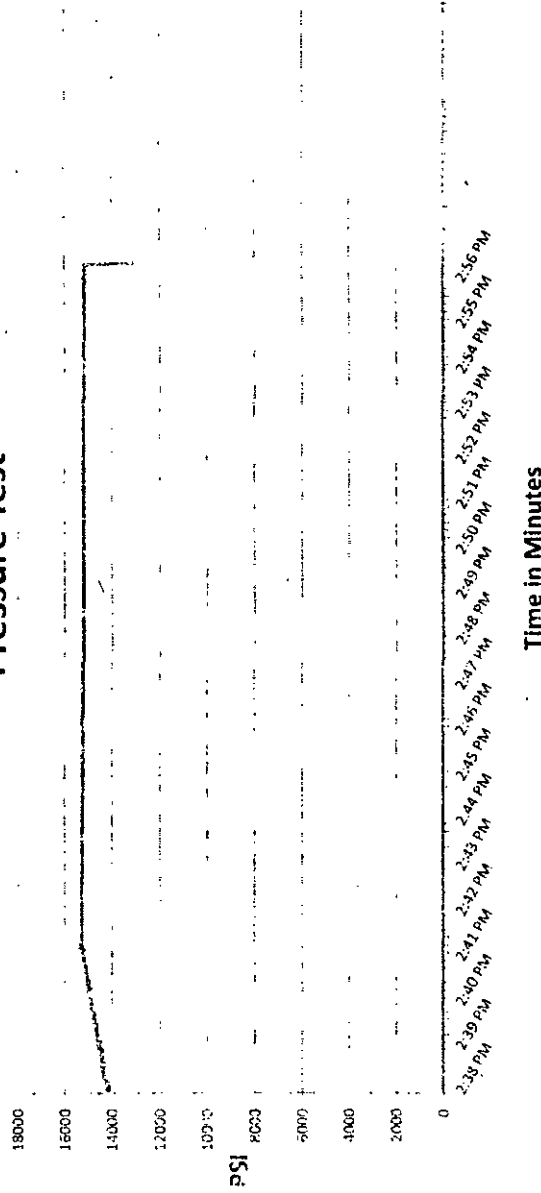
Hose Type
Mud
I.D.
3"
Working Pressure
10000 PSI

Length
70'
O.D.
4.79"

Verification

Type of Fitting
4 1/16 10K
Die Size
5.37"
Coupling Method
Swage
Final O.D.
5.37"
Hose Serial #
10490
Hose Assembly Serial #
284918-3

Pressure Test



Test Pressure 15000 PSI Time Held at Test Pressure 16 3/4 Minutes Actual Burst Pressure Peak Pressure 15410 PSI

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

Tested By: Tyler Hill

Approved By: Ryan Adams

[Signature]

[Signature]



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
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	OKC	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
Fittings			
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	5.37	Dies Used	5.37
Hydrostatic Test Requirements			
Test Pressure (psi)	15,000	Hose assembly was tested with ambient water temperature.	
Test Pressure Hold Time (minutes)	16 3/4		
Date Tested	Tested By		Approved By
12/9/2014			



Midwest Hose
& Specialty, Inc.

Certificate of Conformity

Customer: **PATTERSON B&E**

Customer P.O.# **260471**

Sales Order # **236404**

Date Assembled: **12/8/2014**

Specifications

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

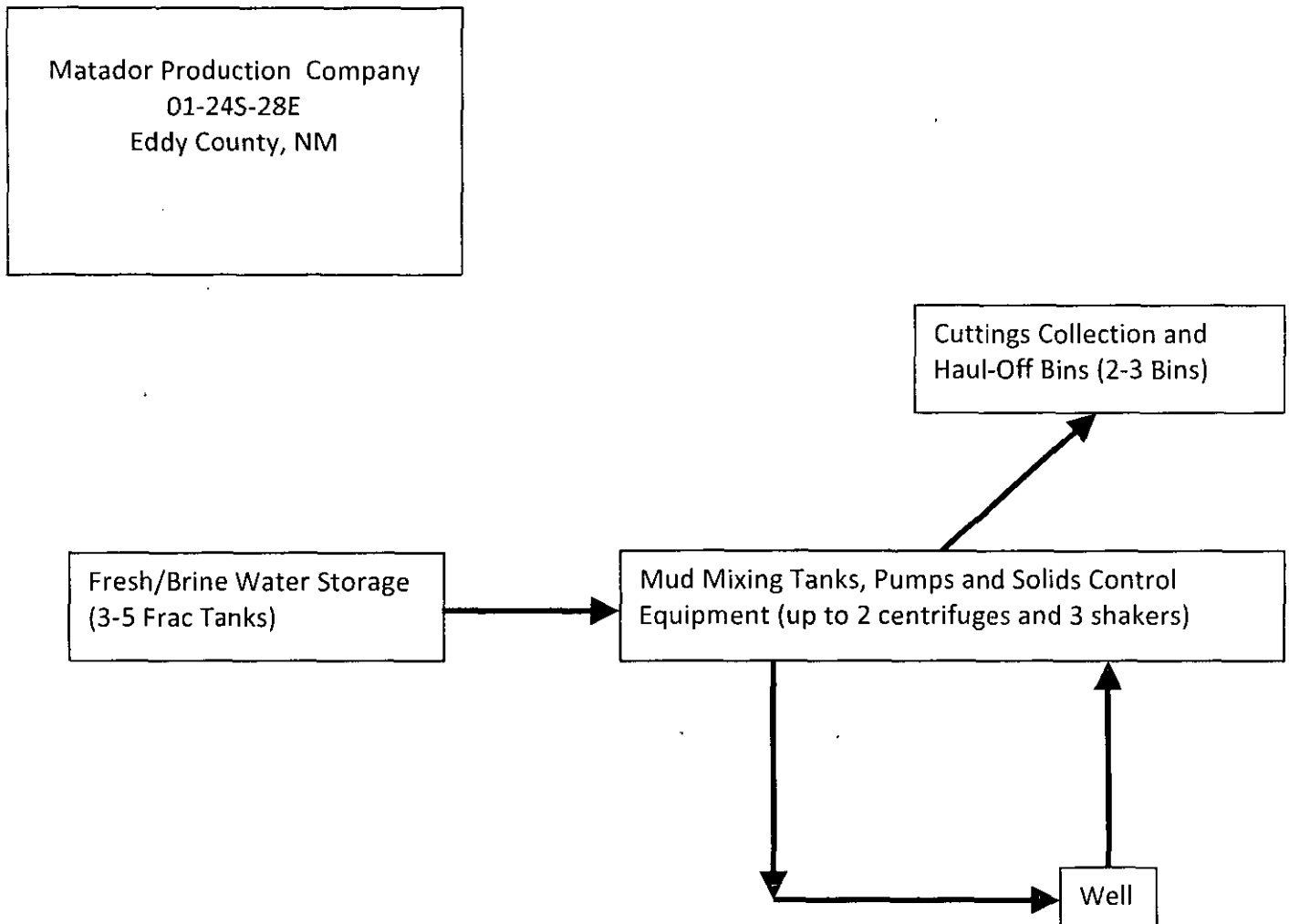
Comments:

Approved By

Date

12/9/2014

Closed-Loop System

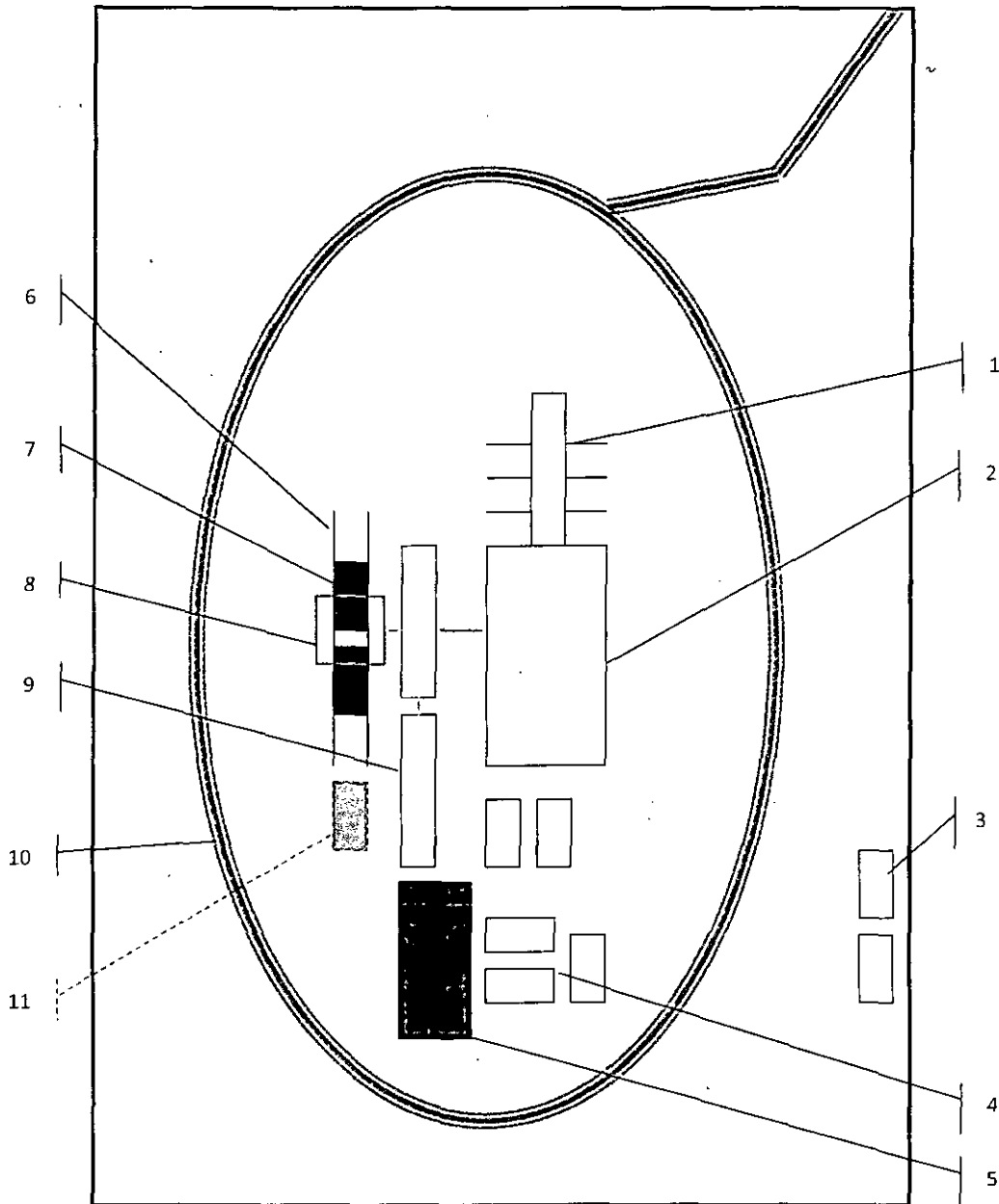


Operating and Maintenance Plan:

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

Closure Plan:

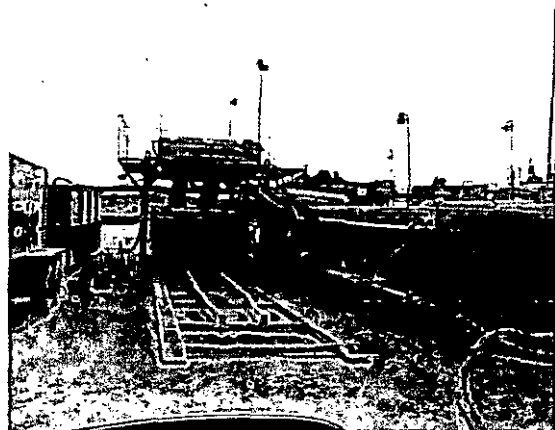
During drilling operations, third party service companies will haul off drill solids and fluids to an approved disposal facility. At the end of the well, all closed loop equipment will be removed from the location.



Schematic Closed Loop Drilling Rig*

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

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

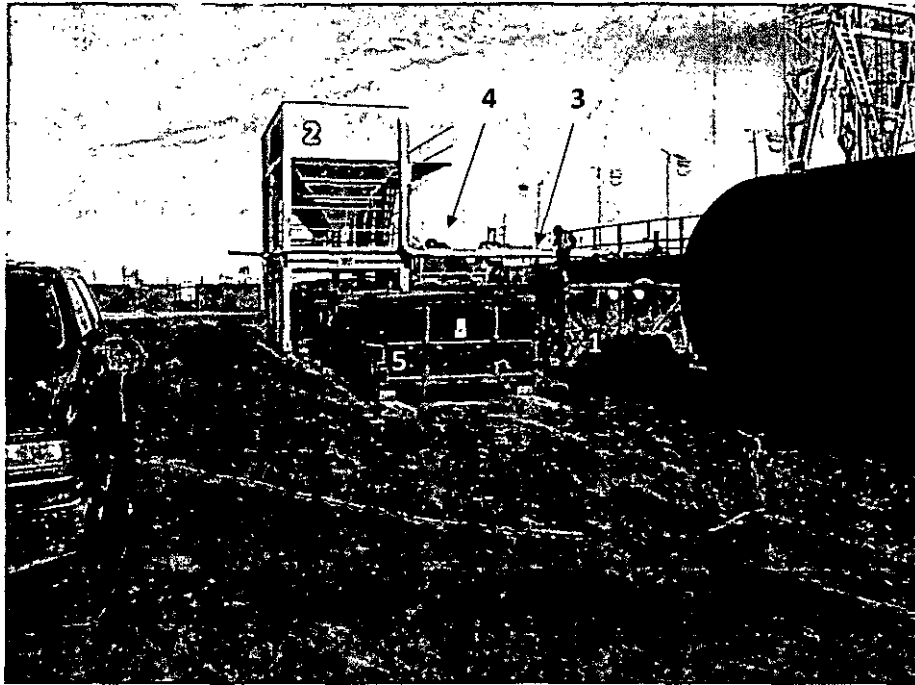


Above: Centrifugal Closed Loop System

PERMITS WEST, INC.

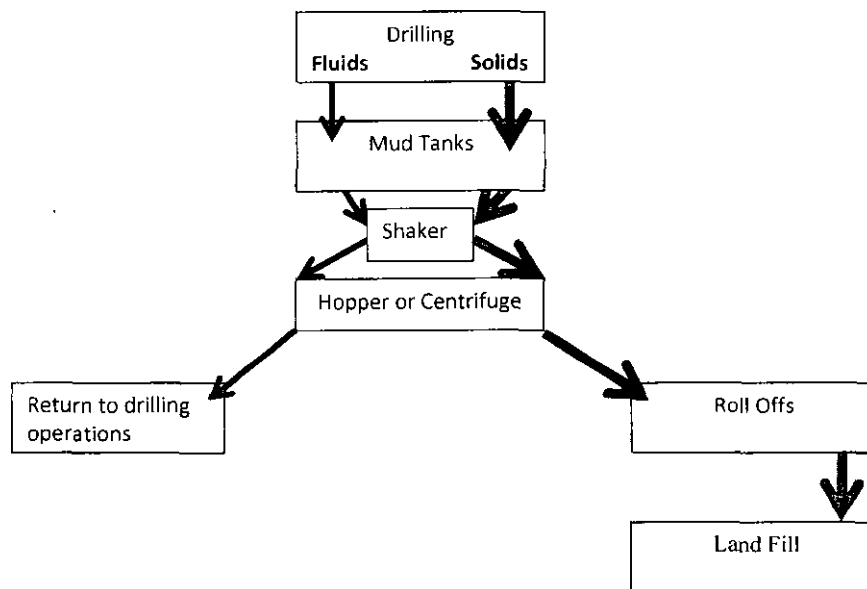
PROVIDING PERMITS for LAND USERS

17Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120



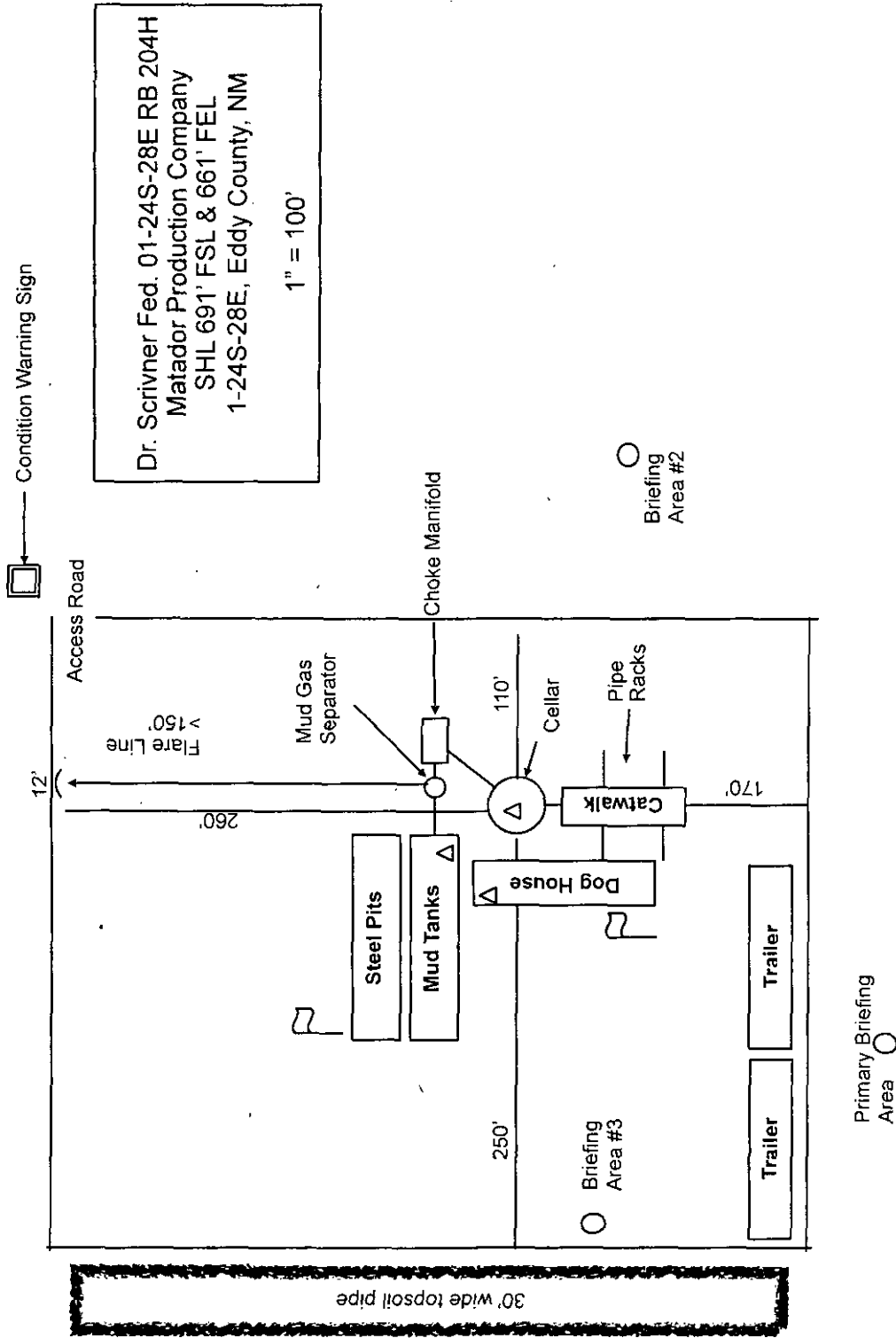
Closed Loop Drilling System: Mud tanks to right (1)
 Hopper in air to settle out solids (2)
 Water return pipe (3)
 Shaker between hopper and mud tanks (4)
 Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids



Photos Courtesy of Gandy Corporation Oil
 Field Service

Rig Diagram





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 Windssocks and / Wind Streamers:

- Windssocks at mud pit area should be high enough to be visible
- Windssock 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 Drilling Stem Testing:

- No DST or cores are planned at this time

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

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

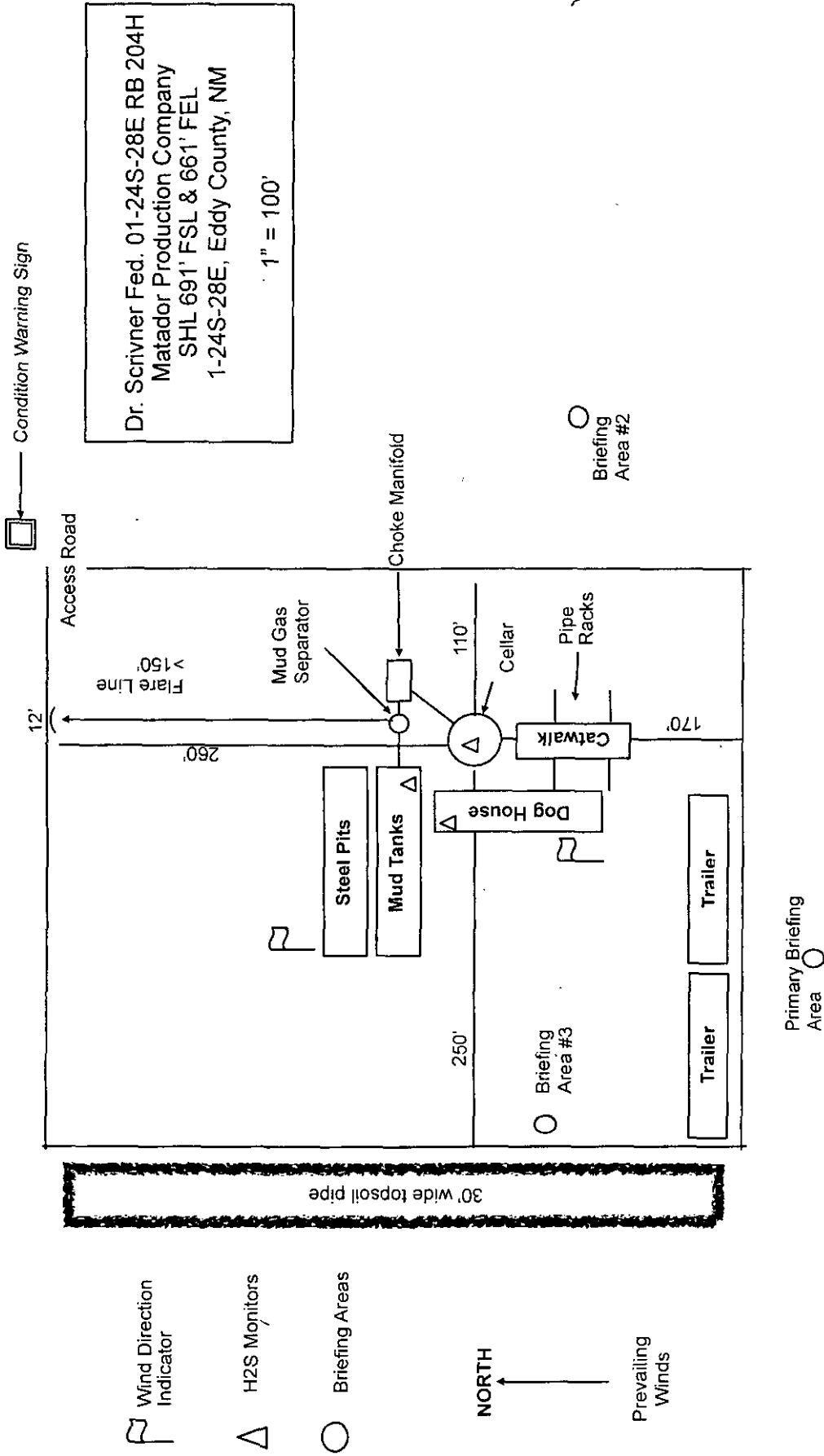
11 Emergency Contacts

- See next page

H2S Contingency Plan Emergency Contacts
Matador Production Company
Sec. 1, 24S, 28E, Eddy County, NM

<u>Company Office</u>			
Matador Production Company	(972)-371-5200		
<u>Key Personnel</u>			
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		575-748-1283	
<u>Carlsbad</u>			
Ambulance		911	
State Police		575-885-3137	
City Police		575-885-2111	
Sheriff's Office		575-887-7551	
Fire Department		575-887-3798	
Local Emergency Planning Committee		575-887-6544	
New Mexico Oil Conservation Division		575-887-6544	
<u>Santa Fe</u>			
New Mexico Emergency Response Commission (Santa Fe)		505-476-9600	
New Mexico Emergency Response Commission (Santa Fe) 24 hrs		505-827-9126	
New Mexico State Emergency Operations Center		505-476-9635	
<u>National</u>			
Carlsbad BLM		575-234-5972	
National Emergency Response Center (Washington, D.C.)		800-424-8802	
<u>Medical</u>			
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		505-842-4433	
SB Air Med Service- 2505 Clark Carr Loop S.E.; Albuquerque, NM		505-842-4949	
<u>Other</u>			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
Haliburton		575-746-2757	
B.J. Services		575-746-3569	

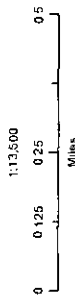
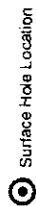
H2S Diagram



Matador Production Company

Dr. Scrivner Fed 01-24S-28E RB #204H
H&S Contingency Plan:
1 Mile Radius Map

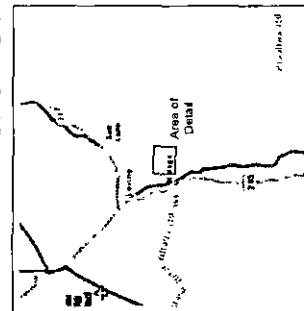
Section 1, Township 24S, Range 28E
Eddy County, New Mexico



NAD 1927 New Mexico State Plane East
FIPS 3001 Feet



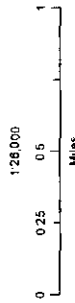
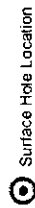
Prepared by Permits West, Inc., December 18, 2015
for Matador Production Company



Matador Production Company

Dr. Scribner Fed 01-24S-28E RB #204H
H-S Contingency Plan:
2 Mile Radius Map

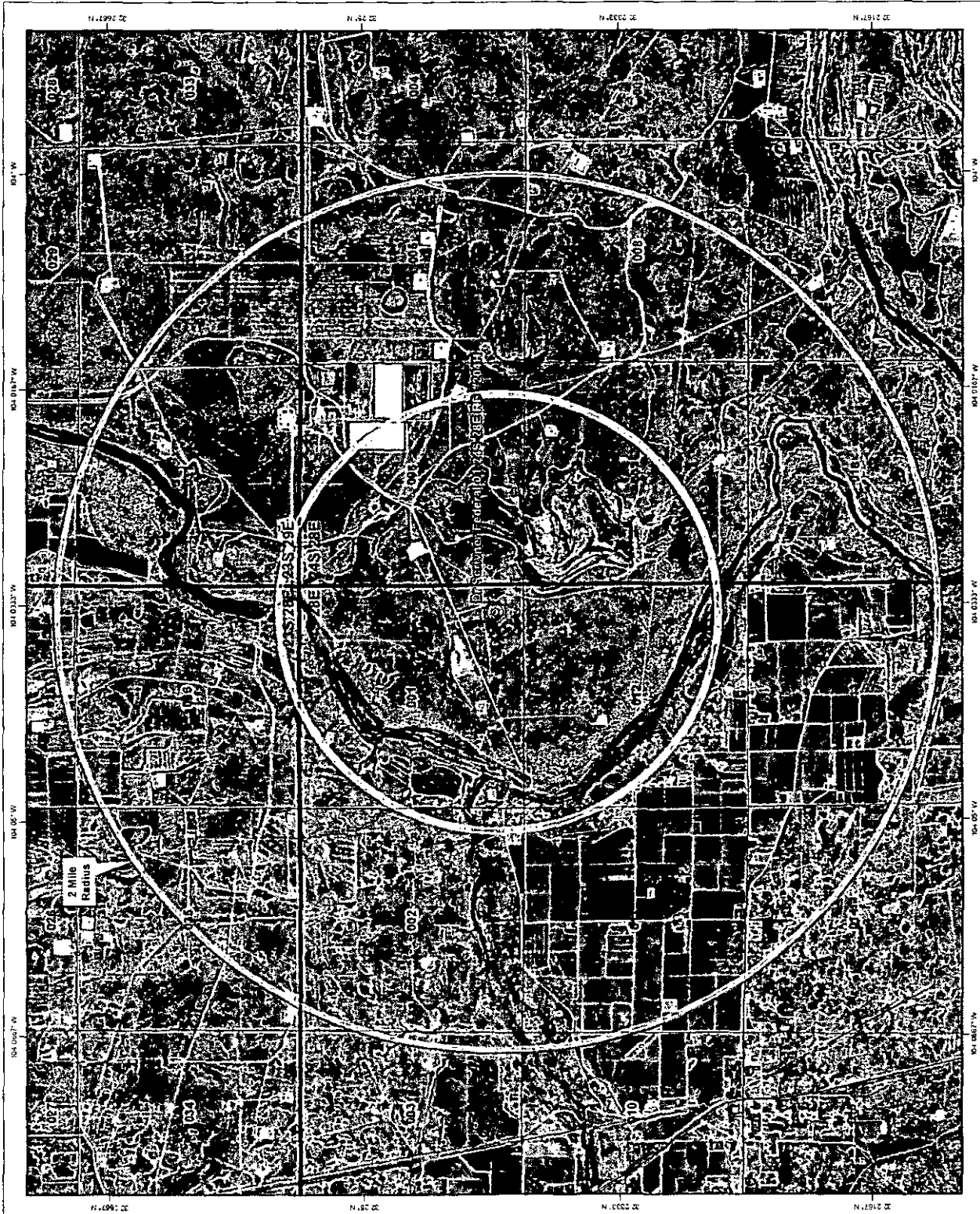
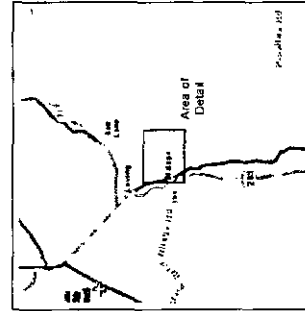
Section 1, Township 24S, Range 28E
Eddy County, New Mexico



NAD 1927 New Mexico State Plane East
FPS 3001 Feet

PERMITS WEST, INC.

Prepared by Permits West, Inc. December 18, 2015
for Matador Production Company



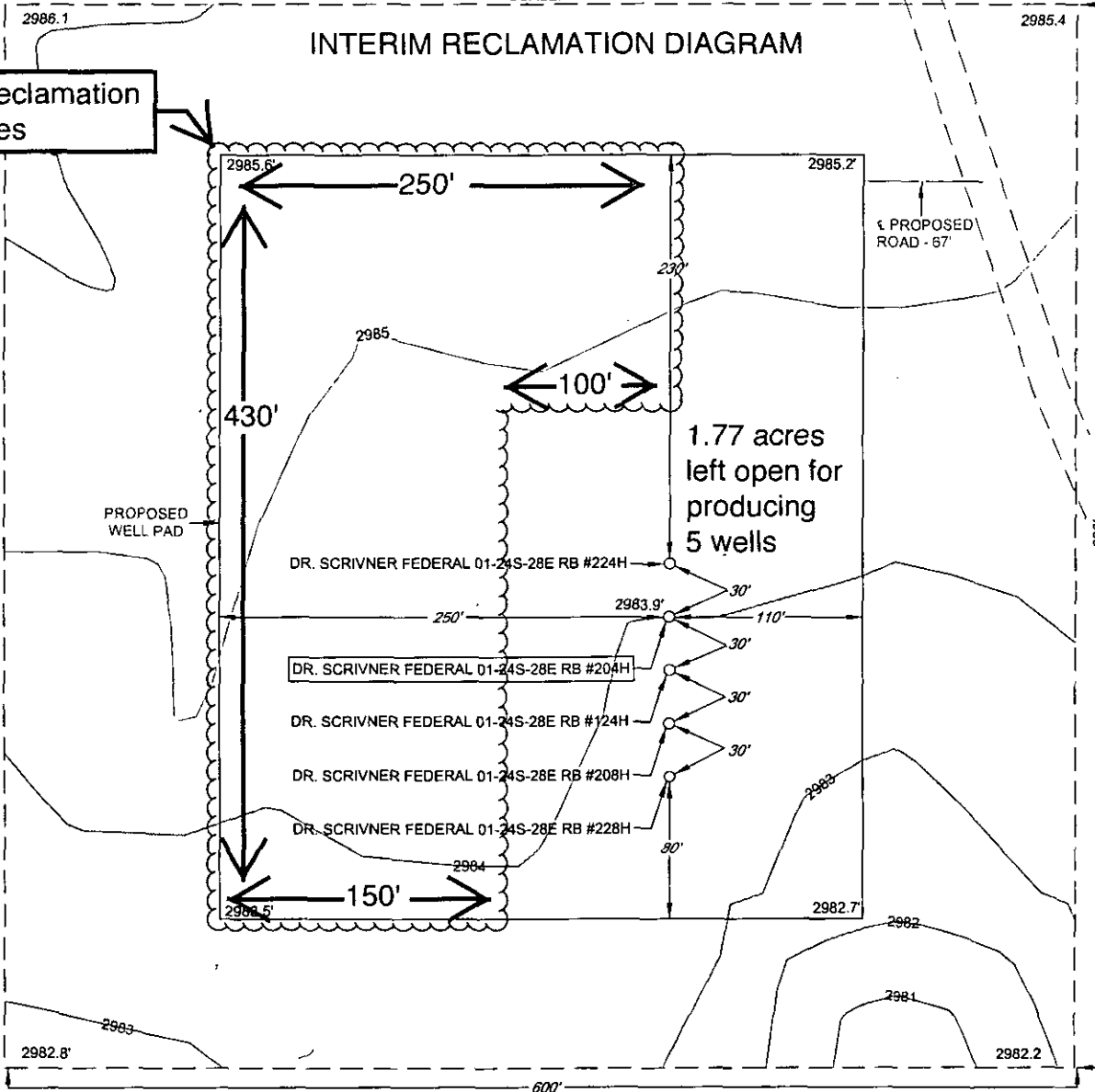


SECTION 1, TOWNSHIP 24-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'

INTERIM RECLAMATION DIAGRAM

interim reclamation
1.78 acres



LEGEND

— PROPOSED ROAD
--- ARCH SITE

LEASE NAME & WELL NO.: DR. SCRIVNER FEDERAL 01-24S-28E RB #204H

#204H LATITUDE N 32.2414393 #204H LONGITUDE W 104.0339601

SCALE: 1" = 100'
0' 50' 100'

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

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.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

Matador Production Company

SURFACE PLAN PAGE 1

Dr. Scrivner Fed. 01-24S-28E RB 204H

SHL 691' FSL & 661' FEL Sec. 1, T. 24 S., R. 28 E.

BHL 990' FSL & 240' FWL Sec. 1, T. 24 S., R. 28 E.

Eddy County, NM

Surface Use Plan

1. ROAD DIRECTIONS & DESCRIPTIONS (See MAPS 1 - 3 & 5)

From the Malaga Post Office...

Go East 0.85 miles on paved County Road 744 (aka, Duarte Road)

Then turn left and go North 1.0 mile on paved County Road 745

Then turn right and go East and Northeast 1.1 miles on paved Harroun Road

Then turn right and go South 200 yards on a caliche road

Then turn right and go West 67' 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, 5, & 7)

The 67' of new road to the well will be crowned, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 20'. Maximum grade = 1%. Maximum cut or fill = 1'. No upgrade, culvert, cattle guard, or vehicle turn out is needed.

3. EXISTING WELLS (See MAP 2)

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

Matador Production Company

SURFACE PLAN PAGE 2

Dr. Scrivner Fed. 01-24S-28E RB 204H

SHL 691' FSL & 661' FEL Sec. 1, T. 24 S., R. 28 E.

BHL 990' FSL & 240' FWL Sec. 1, T. 24 S., R. 28 E.

Eddy County, NM

4. PROPOSED PRODUCTION FACILITIES (See MAPS 2 & 3)

The only production equipment on the pad will be the pump jack. A $\approx 6"$ O. D. steel buried flow line will be laid 230.54' north to Matador's proposed central tank battery (CTB). A 230.54' long overhead raptor safe 3-phase power line will be built south parallel to the flow line from the battery to the pad. Construction corridor for each line will be 15' wide. See Dr. Scrivner Fed. 01-24S-28E RB 124H APD dated 1-8-16 for plats and details on the battery and lines.

5. WATER SUPPLY (See MAPS 1 - 3)

Water will be trucked from an existing well (C 00464) on private land in NENW 13-24s-28e.

6. CONSTRUCTION MATERIALS & METHODS (see MAP 5)

NM One Call (811) will be notified before construction starts. A temporary fence will be built on the south side of the pad before construction starts to keep construction equipment off a slope. Top $\approx 6"$ of soil and brush will be stockpiled west of the pad. Pipe racks will be to the south. 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.

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.

Matador Production Company

SURFACE PLAN PAGE 3

Dr. Scrivner Fed. 01-24S-28E RB 204H

SHL 691' FSL & 661' FEL Sec. 1, T. 24 S., R. 28 E.

BHL 990' FSL & 240' FWL Sec. 1, T. 24 S., R. 28 E.

Eddy County, NM

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 Diagram for depictions of the well pad, trash cage, access onto the location, parking, living facilities, and rig orientation.

10. RECLAMATION

Interim reclamation will consist of shrinking the pad $\approx 51\%$ by removing caliche and reclaiming (1.78 acres) the north and west sides, leaving a 1.77 acre area around the pump jacks. 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. Noxious weeds will be controlled.

11. SURFACE OWNER

All construction will be on private surface. Matador has surface use agreements with the surface owners.

Johnson Enterprises (P. O. Box 1713, Roswell NM 88202) is the surface owner for the well site, battery, road, and those portions of the pipelines and power lines in Section 1, T. 24 S., R. 28 E. Eddy County, NM.

Matador Production Company

SURFACE PLAN PAGE 4

Dr. Scrivner Fed. 01-24S-28E RB 204H

SHL 691' FSL & 661' FEL Sec. 1, T. 24 S., R. 28 E.

BHL 990' FSL & 240' FWL Sec. 1, T. 24 S., R. 28 E.

Eddy County, NM

John Draper Brantley, Jr. and Henry McDonald (706 W. Riverside Dr., Carlsbad NM 88220) are the surface owners (together) for those portions of the pipeline and power line in Section 6, T. 24 S., R. 29 E. Eddy County, NM.

12. OTHER INFORMATION

On site inspection was held with Trish Bad Bear (BLM) on November 19, 2015.

Lone Mountain submitted archaeology report NMCRIS 134941 on December 23, 2015.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM115410
WELL NAME & NO.:	204H-Dr. Scrivner Federal 01 24S 28E RB
SURFACE HOLE FOOTAGE:	691'S & 661'E
BOTTOM HOLE FOOTAGE	990'S & 240'W
LOCATION:	Section 1, T.24 S., R.28 E., NMPM
COUNTY:	Eddy County, New Mexico

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

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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)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Lease Suspension

Well to be spudded within 120 days of the approval of the APD.

If the drilling operations have not commenced by this time, the lease suspension of Lease NMNM115410 will be removed and One month will be remaining in its primary term.

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

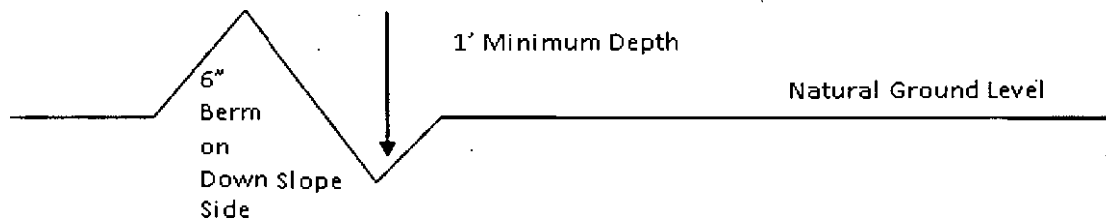
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattleguards

An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards 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 cattleguards 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

3. Redistribute topsoil
4. Revegetate slopes

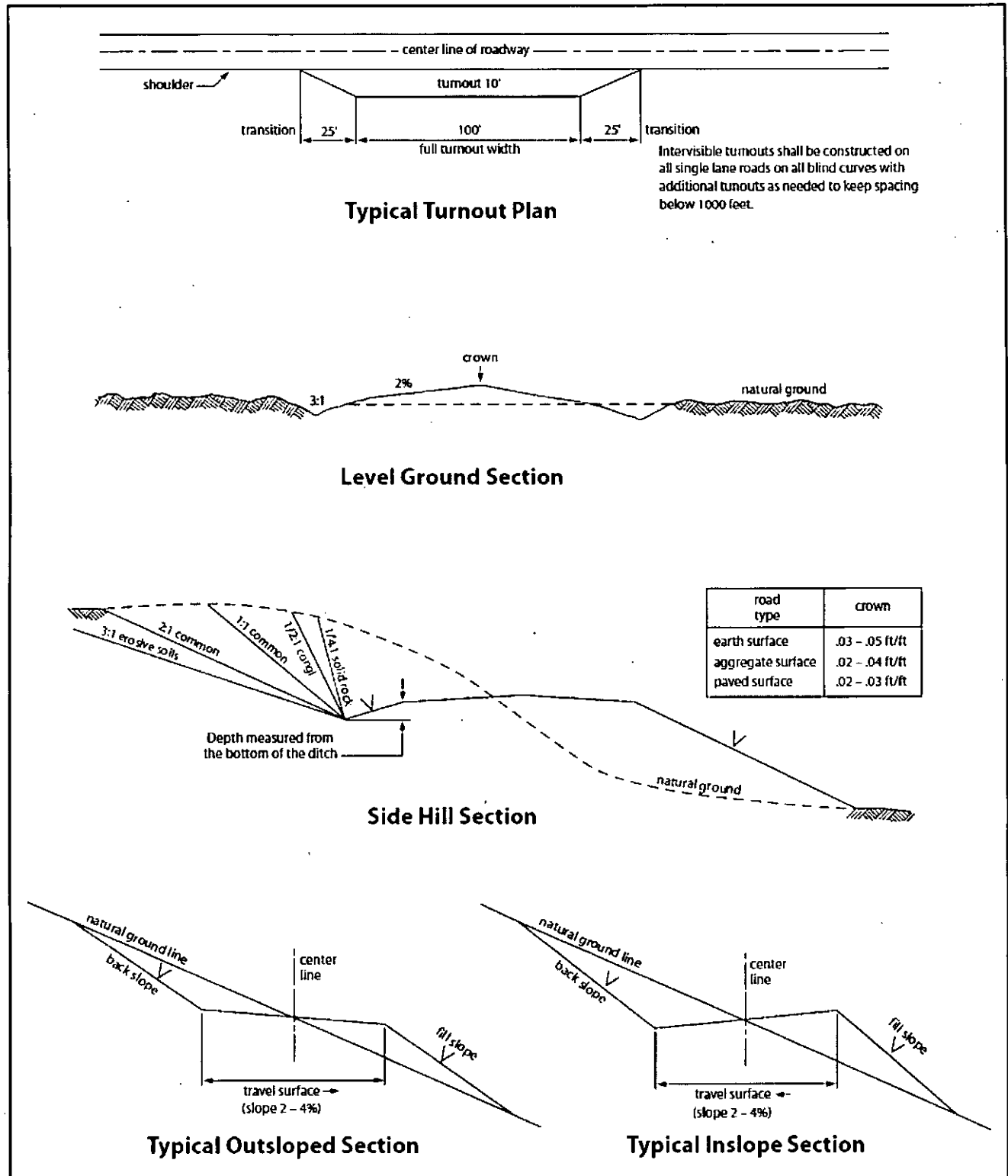


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. DRILLING

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. **Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. 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, provide measured values 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.

Possibility of lost circulation in the Salado, Rustler, and Delaware.

Abnormal pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.

1. The 13-3/8 inch surface casing shall be set at approximately 360 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.
2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing 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.**

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

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 7 inch production casing is:
- ☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. **Excess calculates to negative 8% - Additional cement will be required.**

Formation below the 7" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

4. The minimum required fill of cement behind the 4-1/2 inch production Liner is:
- ☒ Cement as proposed by operator. Operator shall provide method of verification. **Excess calculates to 7% - Additional cement may be required.**
5. 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. BOP shall be installed with three sets of 10M rams.
4. 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**
5. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch 1st intermediate casing shoe shall be **3000 (3M) psi**.
6. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 7 inch 2nd intermediate casing shoe shall be **5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**
7. Choke manifold equipment configuration required for drilling below the 7 inch 2nd intermediate casing shoe shall be functionally equivalent to a 10M system.
8. 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.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

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

E. DRILL STEM TEST

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

F. 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.

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VIII. 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 enclosure 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 Enclosures

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 enclosure 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 15 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 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 15 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.

- | | |
|--|--|
| ☒ 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. Escape Ramps - 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 application (Grant, Sundry Notice, APD) 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 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 agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The 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 the 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 the holder, regardless of fault. Upon failure of the 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 the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-of-way width of 15 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must 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 must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.

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

8. The 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 or dune areas, the pipeline will be "snaked" around hummocks and dunes rather than suspended across these features.

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

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

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

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

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

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

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

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

17. Surface pipelines must 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.

IX. 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).

X. 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:

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

*Pounds of pure live seed:

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

NMOCD CONDITION OF APPROVAL

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