

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 06 2017

Form 3160-3
(March 2012)

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

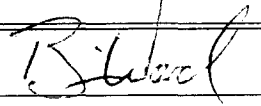
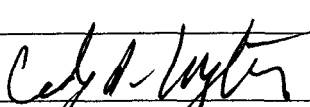
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. SHL: fee BHL: NMNM-117120
1b. Type of Well: ☒ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator MATADOR PRODUCTION COMPANY		7. If Unit or CA Agreement, Name and No. will comm. w/ fee lease
3a. Address 5400 LBJ FREEWAY, SUITE 1500 DALLAS, TX 75240		8. Lease Name and Well No. Zach McCormick Fed Com 205H
3b. Phone No. (include area code) 972 371 5241		9. API Well No. 30-015- 44242
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 742' FNL & 321' FWL 18-24S-29E At proposed prod. zone 991' FNL & 240' FEL 18-24S-29E		10. Field and Pool for Exploratory PIERCE CROSS, WOLFCAMP, NMA G
11. Sec., T. R. M. or Blk. and Survey or Area SHL: Lot 1 18-24S-29E NMPM BHL: NENE 18-24S-29E NMPM		12. County or Parish EDDY
13. State NM		14. Distance in miles and direction from nearest town or post office* 2 AIR MILES E OF MALAGA, NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) SHL: 321' BHL: 240'	16. No. of acres in lease BLM lease = 520 acres comm. area = 319.28 acres	17. Spacing Unit dedicated to this well Lots 1 & 2, E2NW, & NE4 18-24S-29E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SHL: 30' (Zach 201H) BHL: 660' (ditto)	19. Proposed Depth TVD: 9745' MD: 14618'	20. BLM/BIA Bond No. on file BLM NMB-001079
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2953' UNGRADED	22. Approximate date work will start* 12/01/2016	23. Estimated duration 3 MONTHS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

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

25. Signature 	Name (Printed/Typed) BRIAN WOOD (PHONE: 505 466-8120)	Date 08/13/2016
Title CONSULTANT (FAX: 505 466-9682)		
Approved by (Signature) 	Name (Printed/Typed) Cathy A. Layton	Date 06/02/17
Title for FIELD MANAGER	Office BLM-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.

APPROVAL FOR TWO YEARS

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.

(Continued on page 2)

*(Instructions on page 2)

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS

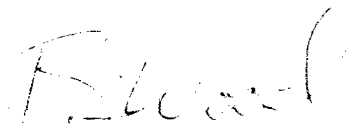
SEE ATTACHED FOR
CONDITIONS OF APPROVAL. 6-7-17 Ref.

Matador Production Company
Zach McCormick Fed Com 205H
SHL 742' FNL & 321' FWL Sec. 18
BHL 991' FNL & 240' FEL Sec. 18
T. 24 S., R. 29 E., Eddy County, NM

SURFACE PLAN PAGE 5

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 13th day of August, 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

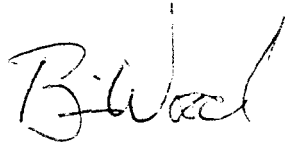
Phone: (972) 371-5241

FAX: (214) 866-4841

August 13, 2016

To Who it May Concern regarding Zach McCormick Fed Com 205H:

Matador Resources Company has a private surface owner agreement with Evelyn Kay Walker Faulk (P. O. Box 115, Malaga NM 88263) for the existing road in NENE Section 13, T. 24 S., R. 28 E.; Eddy County, NM and with Roy Burkham (P. O. Box 84, Malaga NM 88263) for the existing road and existing pad in Lot 1 Section 18, T. 24 S., R. 29 E., Eddy County, NM.

A handwritten signature in black ink, appearing to read "Brian Wood". The signature is written in a cursive, flowing style with a large initial "B".

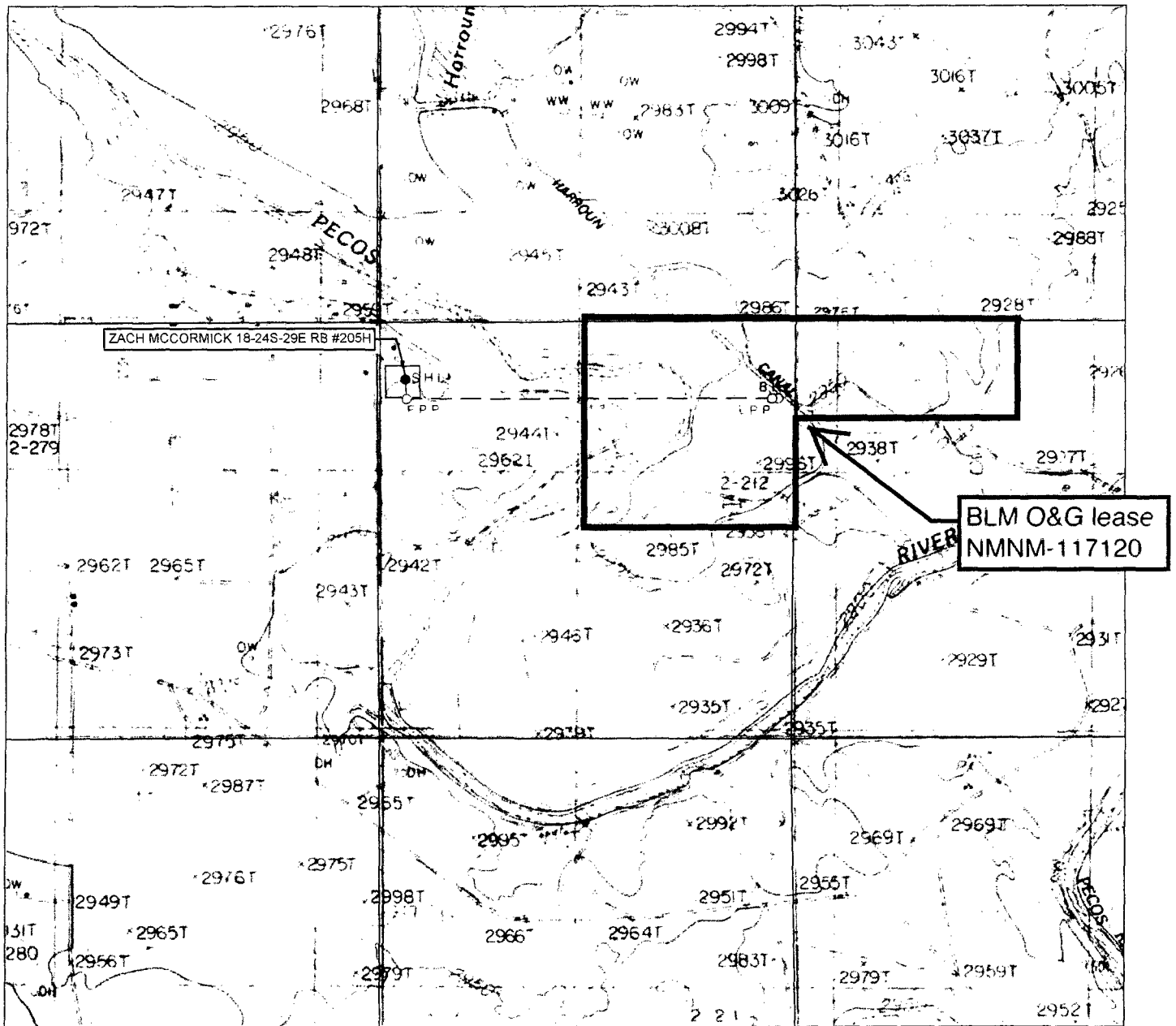
Brian Wood

Operating Rights

Matador Production Company proposed this well to its partners and is negotiating a form of Joint Operating Agreement naming Matador Production Company as the Operator. Per our discussions with our partners, all parties are agreeable to name Matador Production Company as Operator for this well.

Please let us know if you have any questions or concerns.

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: ZACH MCCORMICK FEDERAL 18-24S-29E RB #205H

SECTION 18 TWP 24-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 2953'
 DESCRIPTION 742' FNL & 321' FWL

LATITUDE N 32.2228552 LONGITUDE W 104.0307344

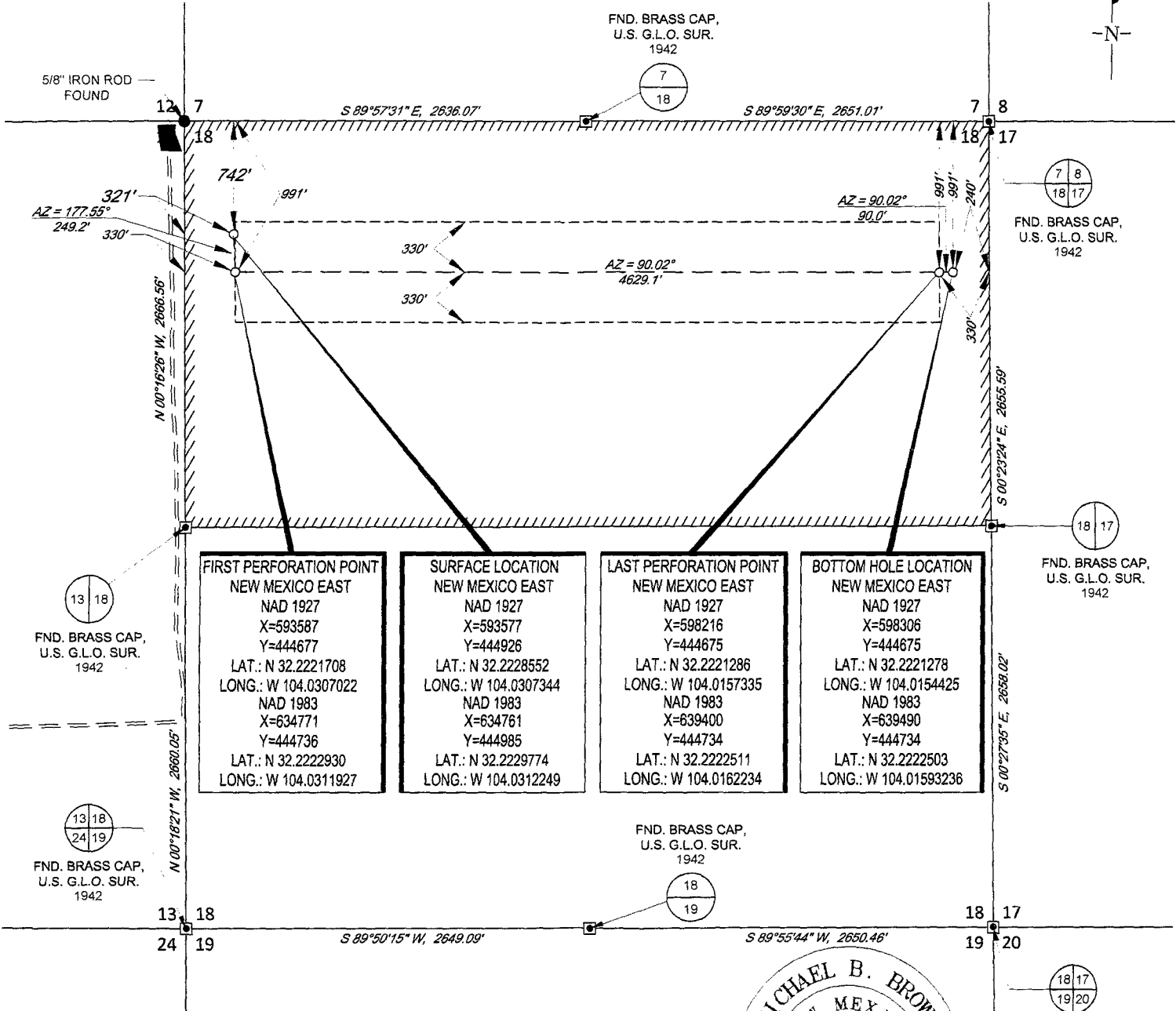


SCALE: 1" = 2000'
 0' 1000' 2000'

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



SECTION 18, TOWNSHIP 24-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



FIRST PERFORATION POINT
NEW MEXICO EAST
NAD 1927
X=593587
Y=444677
LAT.: N 32.2221708
LONG.: W 104.0307022
NAD 1983
X=634771
Y=444736
LAT.: N 32.2222930
LONG.: W 104.0311927

SURFACE LOCATION
NEW MEXICO EAST
NAD 1927
X=593577
Y=444926
LAT.: N 32.2228552
LONG.: W 104.0307344
NAD 1983
X=634761
Y=444985
LAT.: N 32.2229774
LONG.: W 104.0312249

LAST PERFORATION POINT
NEW MEXICO EAST
NAD 1927
X=598216
Y=444675
LAT.: N 32.2221286
LONG.: W 104.0157335
NAD 1983
X=639400
Y=444734
LAT.: N 32.2222511
LONG.: W 104.0162234

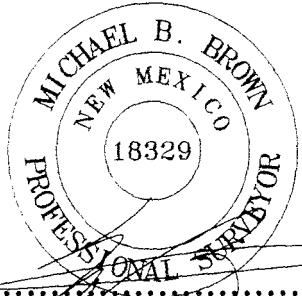
BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1927
X=598306
Y=444675
LAT.: N 32.2221278
LONG.: W 104.0154425
NAD 1983
X=639490
Y=444734
LAT.: N 32.2222503
LONG.: W 104.01593236

LEASE NAME & WELL NO.: ZACH MCCORMICK FEDERAL 18-24S-29E RB #205H

SECTION 18 TWP 24-S RGE 29-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 742' FNL & 321' FWL

DISTANCE & DIRECTION

.....
.....
.....

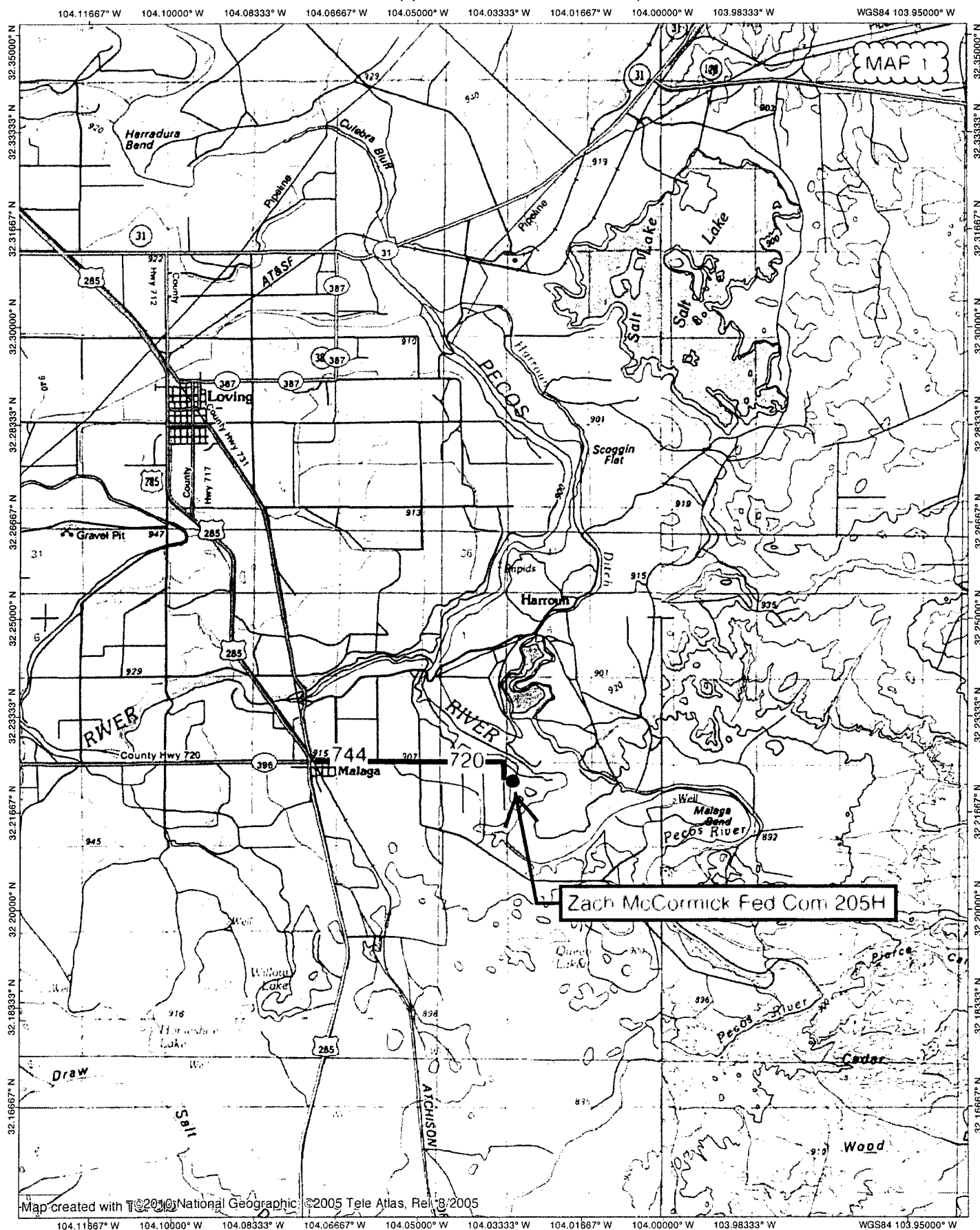


Michael Blake Brown, P.S. No. 18329
MAY 09, 2016

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



TOPO! map printed on 12/18/15 from "Untitled.tpo"



MAP 2

water well C 00464

BLM O&G lease
NMNM-117120

SHL

BHL

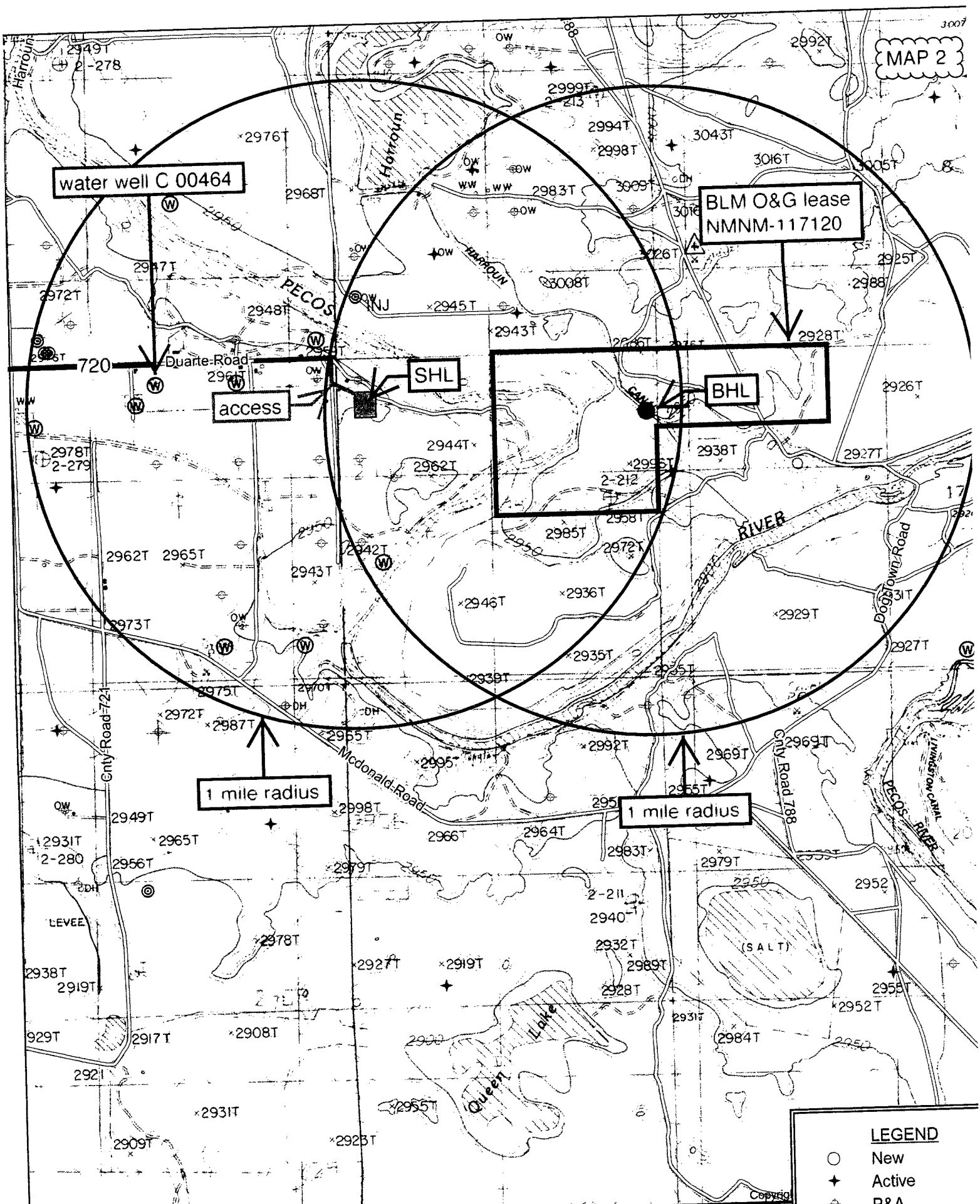
access

1 mile radius

1 mile radius

LEGEND

- New
- ★ Active
- △ D.R.A



104.03122, -122.22297

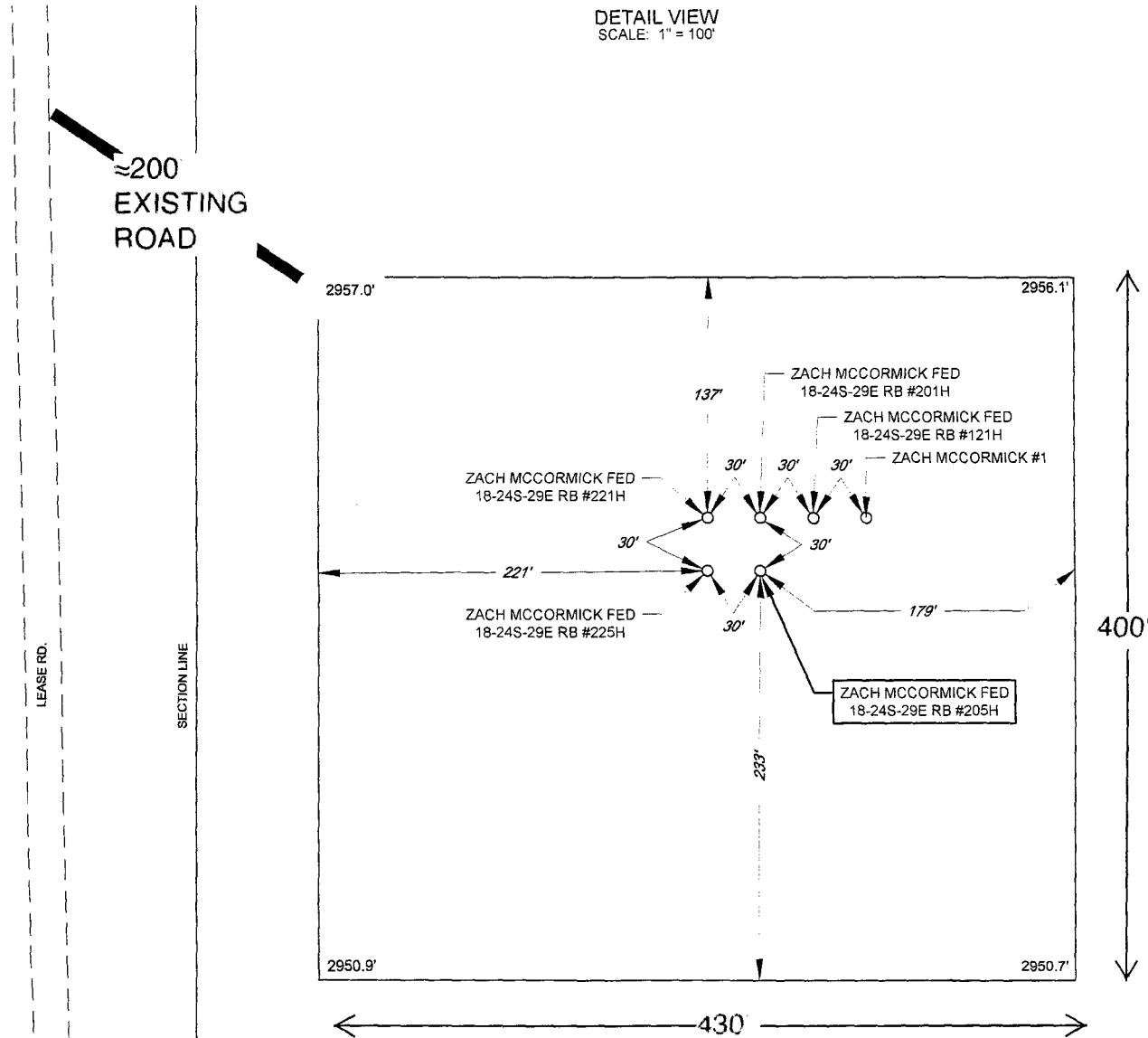
Zach McCormick Fed Com 205H



MAP 4

SECTION 18, TOWNSHIP 24-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



EXISTING PAD BUILT FOR
ZACH MCCORMICK FEDERAL COM 18 24S 29E #1
(spud 3-24-16)

LEGEND

- EXISTING ROAD
- SECTION LINE
- EXISTING PIPELINE

LEASE NAME & WELL NO.: ZACH MCCORMICK FEDERAL 18-24S-29E RB #205H
#205H LATITUDE N 32.2228552 #205H LONGITUDE W 104.0307344

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. THE DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND

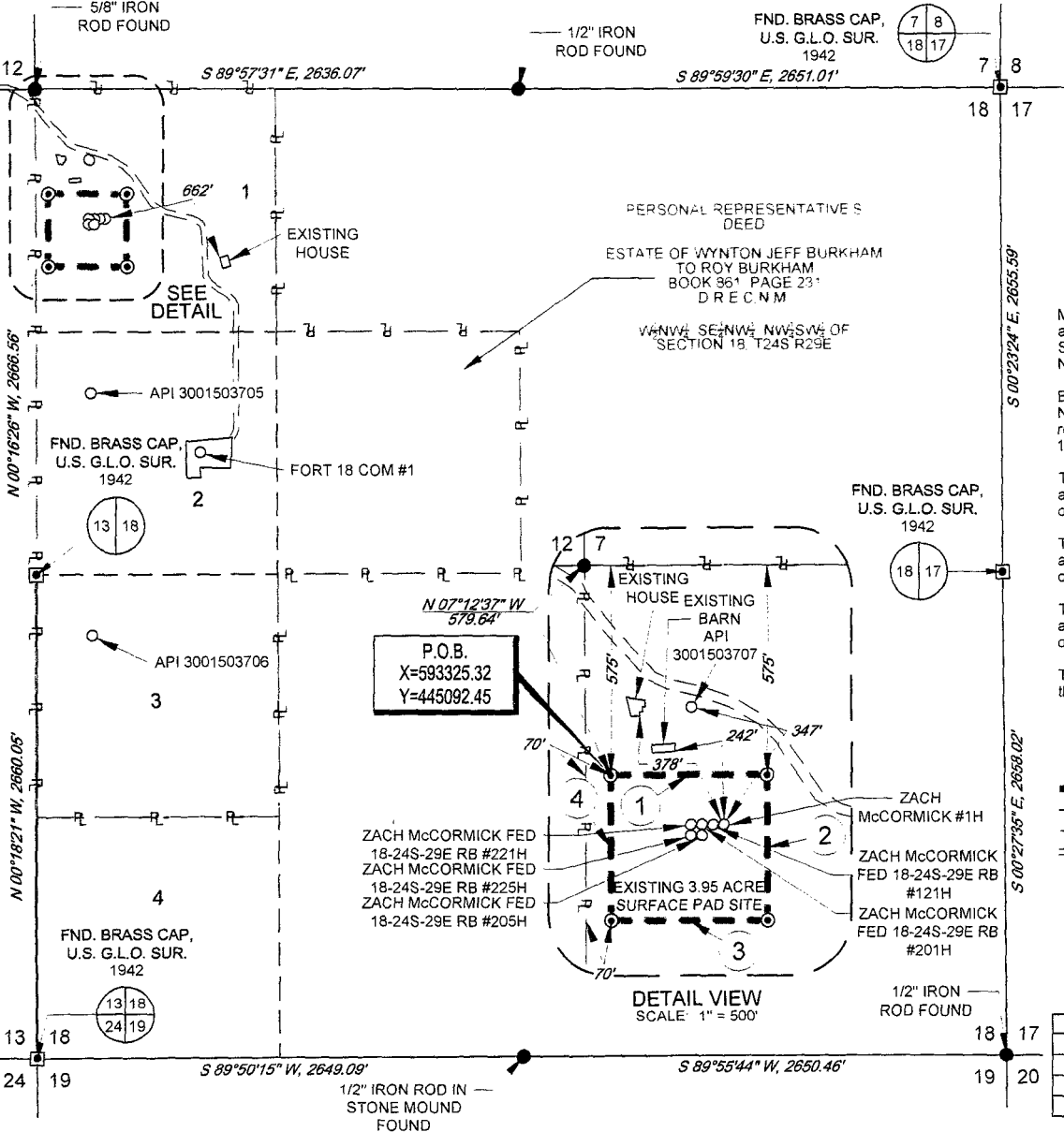


SCALE: 1" = 1000'

0' 500' 1000'

SECTION 18, TOWNSHIP 24-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO
EXISTING 3.95 ACRE SITE

MAP 5



**ZACK McCORMICK FED
18-24S-29E RB #201H
SURFACE PAD SITE**

Metes and Bounds Description of an existing 3.95 acre surface pad site located within Lot 1, of Section 18, Township 24 South, Range 29 East, N.M.P.M., in Eddy County, New Mexico.

BEGINNING at a 1/2" iron rod with cap set for the Northwest corner of this site, from whence an iron rod found for the Northwest corner of said Section 18, bears N 07°12'37" W, a distance of 579.64 feet;

Thence S 89°57'31" E, a distance of 430.00 feet to a 1/2" iron rod with cap set for the Northeast corner of this site;

Thence S 00°16'26" E, a distance of 400.00 feet to a 1/2" iron rod with cap set for the Southeast corner of this site;

Thence N 89°57'31" W, a distance of 430.00 feet to a 1/2" iron rod with cap set for the Southwest corner of this site;

Thence N 00°16'26" W, a distance of 400.00 feet to the Point of Beginning.

LEGEND

- EXISTING SITE
- SURVEY/SECTION LINE
- TRACT BORDER
- == ROAD WAY
- IRON ROD SET
- IRON ROD FOUND
- MONUMENT

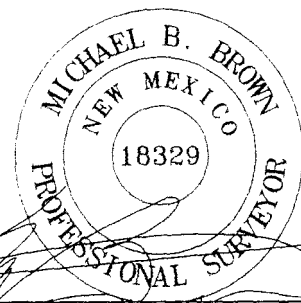
**ZACK McCORMICK FED
18-24S-29E RB #201H
SURFACE PAD SITE**

LINE	BEARING	DISTANCE
1	S 89°57'31" E	430.00'
2	S 00°16'26" E	400.00'
3	N 89°57'31" W	430.00'
4	N 00°16'26" W	400.00'



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



Michael Blake Brown, R.P.L.S. No. 18329

MAY 10, 2016

ZACK McCORMICK FED
18-24S-29E RB #201H
SURFACE PAD SITE

REVISION:

A.C.C. 05/10/16

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 UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

DATE: 02/10/16

Matador Production Company
Zach McCormick Fed Com 205H
SHL 742' FNL & 321' FWL Sec. 18
BHL 991' FNL & 240' FEL Sec. 18
T. 24 S., R. 29 E., Eddy County, NM

DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD	Bearing
Quaternary	GL	water
top of salt	808.5'	salt
Lamar/base of salt	2681.5'	barren
Bell Canyon	2731.5'	barren
Cherry Canyon	3661.5'	hydrocarbon
Brushy Canyon	4886.5'	hydrocarbon
Bone Spring Lime	6465.5'	hydrocarbon
1st Bone Spring Sand	7407.5'	hydrocarbon
2nd Bone Spring Carbonate	7720.5'	hydrocarbon
2nd Bone Spring Sand	8319.5'	hydrocarbon
3 rd Bone Spring Carbonate	8558.5'	hydrocarbon
3rd Bone Spring Sand	9274.5'	hydrocarbon
Wolfcamp	9632.5'	hydrocarbon
Wolfcamp X	9664.5'	hydrocarbon
Wolfcamp Y	9729.5'	hydrocarbon (& goal)
TVD (Wolfcamp Y)	9745'	ditto
MD (Wolfcamp Y)	14618'	ditto

2. NOTABLE ZONES

Closest water well (C 00983) is 1256' to the northwest. Depth to water is 40' in this 92' deep well.

3. PRESSURE CONTROL

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

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SHL 742' FNL & 321' FWL Sec. 18
BHL 991' FNL & 240' FEL Sec. 18
T. 24 S., R. 29 E., Eddy County, NM

DRILL PLAN PAGE 2

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

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

A third party company will test the BOPs. Test pressures will be as follows: After surface casing is set and the BOP is 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 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. 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 psi high.

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

4. CASING & CEMENT

Hole will extend east of the last perforation point to allow for pump installation. All perforations will be $\geq 330'$ from the dedication perimeter.

Matador Production Company
 Zach McCormick Fed Com 205H
 SHL 742' FNL & 321' FWL Sec. 18
 BHL 991' FNL & 240' FEL Sec. 18
 T. 24 S., R. 29 E., Eddy County, NM

DRILL PLAN PAGE 3

Hole O. D.	Set @ (MD)	Casing O. D.	Age	Weight (lb/ft)	Grade	Thread Collar	Collapse	Burst	Tension
17.5"	650'	13.375"	New	54.5	J-55	BTC	1.125	1.125	1.8
12.25"	2750'	9.625"	New	40	J-55	BTC	1.125	1.125	1.8
8.75"	9992'	7"	New	29	P-110	BTC	1.125	1.125	1.8
6.125"	14618'	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	240	1.82	436.8	12.8	Class C + Bentonite + 2% CaCl ₂ + 3% NaCl + LCM
	Tail	350	1.38	483	14.8	Class C + 5% NaCl + LCM
TOC = GL		100% Excess			Centralizers per Onshore Order 2.III.B.1f	
Intermediate	Lead	550	2.13	1171.5	12.6	Class C + Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
	Tail	270	1.38	372.6	14.8	Class C + 5% NaCl + LCM
TOC = GL		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface	
Intermediate 2	Lead	530	2.36	1250.8	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM
	Tail	300	1.38	414	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM
TOC = 1600'		35% Excess			2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (500' above TOC)	
Production	Tail	550	1.17	643.5	15.8	Class H + Fluid Loss + Dispersant + Retarder + LCM
TOC = 8900'		10% Excess			2 on btm jt, 1 on 2nd jt, 1 every third jt to top of curve	

Matador Production Company
Zach McCormick Fed Com 205H
SHL 742' FNL & 321' FWL Sec. 18
BHL 991' FNL & 240' FEL Sec. 18
T. 24 S., R. 29 E., Eddy County, NM

DRILL PLAN PAGE 4

5. MUD PROGRAM

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

Name	Hole Size	Mud Weight	Visc	Fluid Loss	Type Mud
Surface	17.5"	8.30	28	NC	FW Spud Mud
Intermediate	12.25"	10.00	30-32	NC	Brine Water
Intermediate 2	8.75"	9.00	30-31	NC	FW/Cut Brine
Production	6.125"	12.50	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 $\approx 10000'$ to TD.

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

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 6700 psi. Expected bottom hole temperature is $\approx 160^\circ$ 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 an H_2S safety package on all wells, an " H_2S Drilling Operations Plan" is attached.

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Zach McCormick Fed Com 205H
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T. 24 S., R. 29 E., Eddy County, NM

DRILL PLAN PAGE 5

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

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



Company: Matador Resources
 Site: Zach McCormick Federal 18-24S-29E RB
 Well: #205H
 Project: Eddy County, New Mexico (NAD 27)
 Rig: Patterson 297

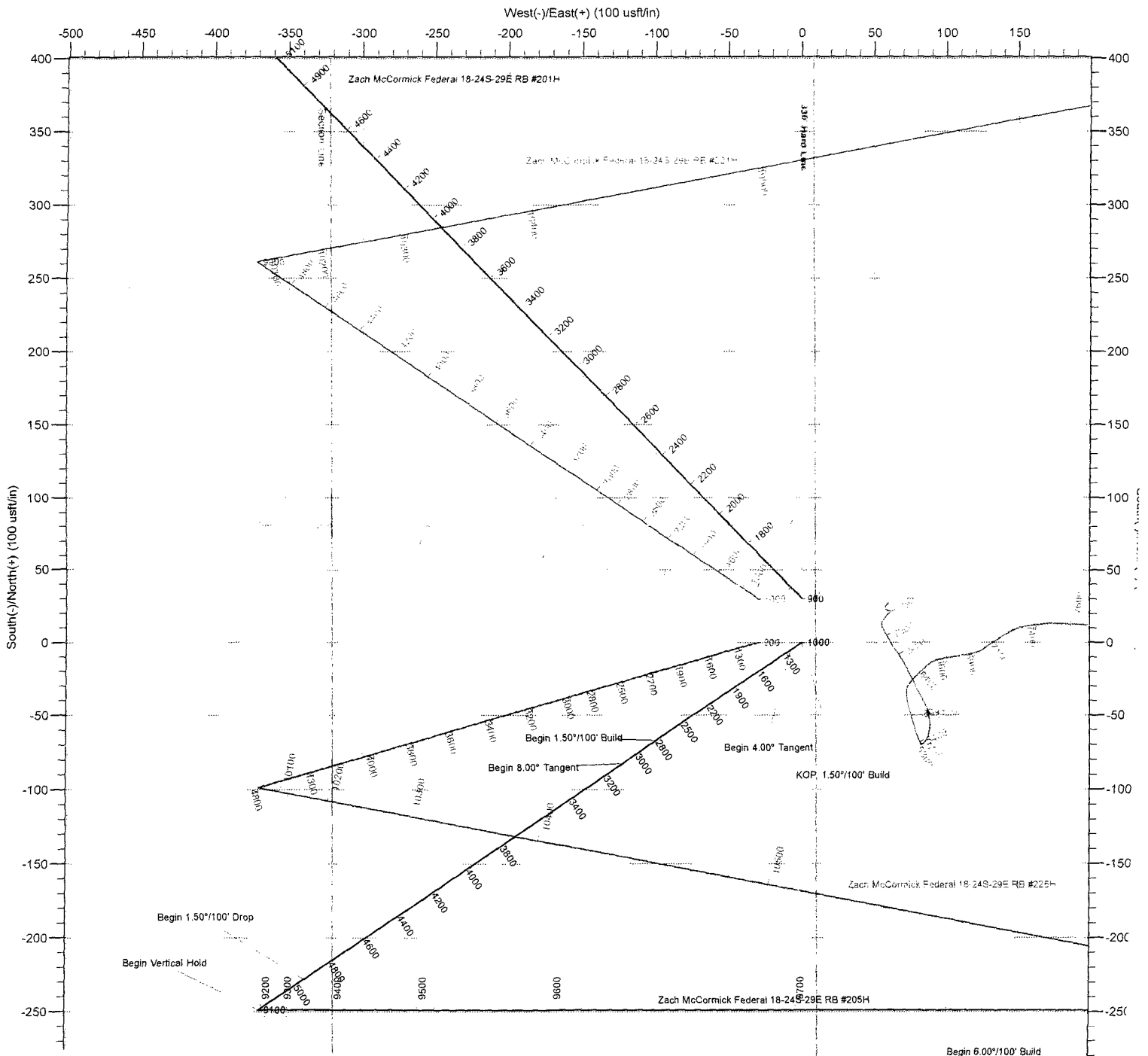


US State Plane 1927 (Exact solution)
 New Mexico East 3001

Created By: HLH
 Date: 14:28, June 24 2016
 Plan: Design #1

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	KOP, 1.50°/100' Build
1266.67	4.00	236.04	1266.45	-5.20	-7.72	-7.72	9.30	Begin 4.00° Tangent
2856.93	4.00	236.04	2852.84	-67.17	-99.72	-99.70	120.24	Begin 1.50°/100' Build
3123.60	8.00	236.04	3118.00	-82.74	-122.84	-122.81	148.10	Begin 8.00° Tangent
4992.19	8.00	236.04	4968.40	-228.02	-338.53	-338.45	408.16	Begin 1.50°/100' Drop
5525.52	0.00	0.00	5500.00	-248.79	-369.36	-369.27	445.34	Begin Vertical Hold
9191.76	0.00	0.00	9166.24	-248.79	-369.36	-369.27	445.34	Begin 10.00°/100' Build
9991.76	80.00	90.02	9730.49	-248.99	104.10	104.19	918.80	Begin 6.00°/100' Build
10158.43	90.00	90.02	9745.00	-249.07	269.93	270.01	1084.62	Begin 90.00° Lateral
14618.22	90.00	90.02	9745.00	-250.99	4729.72	4729.81	5544.42	PBHL





Matador Resources

Eddy County, New Mexico (NAD 27)
Zach McCormick Federal 18-24S-29E RB
#205H

Wellbore #1

Plan: Design #1

Standard Planning Report

24 June, 2016



Planning Report



Database: EDM 5000.1 Conroe DB
Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Site: Zach McCormick Federal 18-24S-29E RB
Well: #205H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County, New Mexico (NAD 27)		
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		

Well	#205H				
Well Position	+N/-S	444,925.56 usft	Northing:	444,925.56 usft	Latitude: 32° 13' 22.279 N
	+E/-W	593,576.66 usft	Easting:	593,576.66 usft	Longitude: 104° 1' 50.644 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft	Ground Level: 2,952.60 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2016	6/22/2016	7.32	60.00	48,069

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	90.02	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,266.67	4.00	236.04	1,266.45	-5.20	-7.72	1.50	1.50	0.00	236.04	VP - Zach McCorm
2,856.93	4.00	236.04	2,852.84	-67.17	-99.72	0.00	0.00	0.00	0.00	
3,123.60	8.00	236.04	3,118.00	-82.74	-122.84	1.50	1.50	0.00	0.00	
4,992.19	8.00	236.04	4,968.40	-228.02	-338.53	0.00	0.00	0.00	0.00	
5,525.52	0.00	0.00	5,500.00	-248.79	-369.36	1.50	-1.50	0.00	180.00	VP - Zach McCorm
9,191.76	0.00	0.00	9,166.24	-248.79	-369.36	0.00	0.00	0.00	0.00	
9,991.76	80.00	90.02	9,730.49	-248.99	104.10	10.00	10.00	0.00	90.02	PBHL - Zach McCo
10,158.43	90.00	90.02	9,745.00	-249.07	269.93	6.00	6.00	0.00	0.00	
14,618.22	90.00	90.02	9,745.00	-250.99	4,729.72	0.00	0.00	0.00	0.00	PBHL - Zach McCo



Planning Report



Database: EDM 5000.1 Conroe DB
Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Site: Zach McCormick Federal 18-24S-29E RB
Well: #205H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
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
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 1.50°/100' Build									
1,100.00	1.50	236.04	1,099.99	-0.73	-1.09	-1.09	1.50	1.50	0.00
1,200.00	3.00	236.04	1,199.91	-2.92	-4.34	-4.34	1.50	1.50	0.00
1,266.67	4.00	236.04	1,266.45	-5.20	-7.72	-7.72	1.50	1.50	0.00
Begin 4.00° Tangent									
1,300.00	4.00	236.04	1,299.70	-6.50	-9.65	-9.64	0.00	0.00	0.00
1,400.00	4.00	236.04	1,399.46	-10.39	-15.43	-15.43	0.00	0.00	0.00
1,500.00	4.00	236.04	1,499.22	-14.29	-21.22	-21.21	0.00	0.00	0.00
1,600.00	4.00	236.04	1,598.97	-18.19	-27.00	-27.00	0.00	0.00	0.00
1,700.00	4.00	236.04	1,698.73	-22.09	-32.79	-32.78	0.00	0.00	0.00
1,800.00	4.00	236.04	1,798.48	-25.98	-38.57	-38.56	0.00	0.00	0.00
1,900.00	4.00	236.04	1,898.24	-29.88	-44.36	-44.35	0.00	0.00	0.00
2,000.00	4.00	236.04	1,998.00	-33.78	-50.14	-50.13	0.00	0.00	0.00
2,100.00	4.00	236.04	2,097.75	-37.67	-55.93	-55.92	0.00	0.00	0.00
2,200.00	4.00	236.04	2,197.51	-41.57	-61.72	-61.70	0.00	0.00	0.00
2,300.00	4.00	236.04	2,297.27	-45.47	-67.50	-67.49	0.00	0.00	0.00
2,400.00	4.00	236.04	2,397.02	-49.36	-73.29	-73.27	0.00	0.00	0.00
2,500.00	4.00	236.04	2,496.78	-53.26	-79.07	-79.05	0.00	0.00	0.00
2,600.00	4.00	236.04	2,596.54	-57.16	-84.86	-84.84	0.00	0.00	0.00
2,700.00	4.00	236.04	2,696.29	-61.06	-90.64	-90.62	0.00	0.00	0.00
2,800.00	4.00	236.04	2,796.05	-64.95	-96.43	-96.41	0.00	0.00	0.00
2,856.93	4.00	236.04	2,852.84	-67.17	-99.72	-99.70	0.00	0.00	0.00
Begin 1.50°/100' Build									
2,900.00	4.65	236.04	2,895.79	-68.98	-102.42	-102.39	1.50	1.50	0.00
3,000.00	6.15	236.04	2,995.34	-74.24	-110.22	-110.19	1.50	1.50	0.00
3,100.00	7.65	236.04	3,094.61	-80.95	-120.17	-120.15	1.50	1.50	0.00
3,123.60	8.00	236.04	3,118.00	-82.74	-122.84	-122.81	1.50	1.50	0.00
Begin 8.00° Tangent									
3,200.00	8.00	236.04	3,193.65	-88.68	-131.66	-131.63	0.00	0.00	0.00
3,300.00	8.00	236.04	3,292.68	-96.45	-143.20	-143.17	0.00	0.00	0.00
3,400.00	8.00	236.04	3,391.71	-104.23	-154.74	-154.71	0.00	0.00	0.00
3,500.00	8.00	236.04	3,490.73	-112.00	-166.29	-166.25	0.00	0.00	0.00
3,600.00	8.00	236.04	3,589.76	-119.78	-177.83	-177.79	0.00	0.00	0.00
3,700.00	8.00	236.04	3,688.79	-127.56	-189.37	-189.33	0.00	0.00	0.00
3,800.00	8.00	236.04	3,787.81	-135.33	-200.91	-200.87	0.00	0.00	0.00
3,900.00	8.00	236.04	3,886.84	-143.11	-212.46	-212.41	0.00	0.00	0.00
4,000.00	8.00	236.04	3,985.87	-150.88	-224.00	-223.95	0.00	0.00	0.00
4,100.00	8.00	236.04	4,084.89	-158.66	-235.54	-235.49	0.00	0.00	0.00
4,200.00	8.00	236.04	4,183.92	-166.43	-247.09	-247.03	0.00	0.00	0.00
4,300.00	8.00	236.04	4,282.95	-174.21	-258.63	-258.57	0.00	0.00	0.00
4,381.07	8.00	236.04	4,381.07	-181.98	-270.17	-270.11	0.00	0.00	0.00



Planning Report



Database: EDM 5000.1 Conroe DB
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Project: Eddy County, New Mexico (NAD 27)
Site: Zach McCormick Federal 18-24S-29E RB
Well: #205H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well #205H
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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)
4,700.00	8.00	236.04	4,679.05	-205.31	-304.80	-304.73	0.00	0.00	0.00
4,800.00	8.00	236.04	4,778.08	-213.08	-316.34	-316.27	0.00	0.00	0.00
4,900.00	8.00	236.04	4,877.11	-220.86	-327.89	-327.81	0.00	0.00	0.00
4,992.19	8.00	236.04	4,968.40	-228.02	-338.53	-338.45	0.00	0.00	0.00
Begin 1.50°/100' Drop									
5,000.00	7.88	236.04	4,976.14	-228.63	-339.42	-339.34	1.50	-1.50	0.00
5,100.00	6.38	236.04	5,075.36	-235.56	-349.72	-349.64	1.50	-1.50	0.00
5,200.00	4.88	236.04	5,174.87	-241.05	-357.86	-357.78	1.50	-1.50	0.00
5,300.00	3.38	236.04	5,274.61	-245.07	-363.84	-363.75	1.50	-1.50	0.00
5,400.00	1.88	236.04	5,374.50	-247.64	-367.65	-367.56	1.50	-1.50	0.00
5,500.00	0.38	236.04	5,474.48	-248.74	-369.29	-369.20	1.50	-1.50	0.00
5,525.52	0.00	0.00	5,500.00	-248.79	-369.36	-369.27	1.50	-1.50	0.00
Begin Vertical Hold									
5,600.00	0.00	0.00	5,574.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
5,700.00	0.00	0.00	5,674.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
5,800.00	0.00	0.00	5,774.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
5,900.00	0.00	0.00	5,874.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
6,000.00	0.00	0.00	5,974.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
6,100.00	0.00	0.00	6,074.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
6,200.00	0.00	0.00	6,174.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
6,300.00	0.00	0.00	6,274.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
6,400.00	0.00	0.00	6,374.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
6,500.00	0.00	0.00	6,474.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
6,600.00	0.00	0.00	6,574.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
6,700.00	0.00	0.00	6,674.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
6,800.00	0.00	0.00	6,774.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
6,900.00	0.00	0.00	6,874.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
7,000.00	0.00	0.00	6,974.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
7,100.00	0.00	0.00	7,074.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
7,200.00	0.00	0.00	7,174.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
7,300.00	0.00	0.00	7,274.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
7,400.00	0.00	0.00	7,374.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
7,500.00	0.00	0.00	7,474.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
7,600.00	0.00	0.00	7,574.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
7,700.00	0.00	0.00	7,674.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
7,800.00	0.00	0.00	7,774.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
7,900.00	0.00	0.00	7,874.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
8,000.00	0.00	0.00	7,974.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
8,100.00	0.00	0.00	8,074.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
8,200.00	0.00	0.00	8,174.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
8,300.00	0.00	0.00	8,274.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
8,400.00	0.00	0.00	8,374.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
8,500.00	0.00	0.00	8,474.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
8,600.00	0.00	0.00	8,574.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
8,700.00	0.00	0.00	8,674.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
8,800.00	0.00	0.00	8,774.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
8,900.00	0.00	0.00	8,874.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
9,000.00	0.00	0.00	8,974.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
9,100.00	0.00	0.00	9,074.48	-248.79	-369.36	-369.27	0.00	0.00	0.00
9,191.76	0.00	0.00	9,166.24	-248.79	-369.36	-369.27	0.00	0.00	0.00
Begin 10.00°/100' Build									
9,200.00	0.82	90.02	9,174.48	-248.79	-369.30	-369.21	10.00	10.00	0.00
9,250.00	5.82	90.02	9,224.38	-248.79	-366.40	-366.32	10.00	10.00	0.00



Planning Report



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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)
9,300.00	10.82	90.02	9,273.84	-248.79	-359.17	-359.08	10.00	10.00	0.00
9,350.00	15.82	90.02	9,322.47	-248.80	-347.65	-347.56	10.00	10.00	0.00
9,400.00	20.82	90.02	9,369.92	-248.81	-331.93	-331.85	10.00	10.00	0.00
9,450.00	25.82	90.02	9,415.82	-248.81	-312.14	-312.06	10.00	10.00	0.00
9,500.00	30.82	90.02	9,459.82	-248.82	-288.43	-288.34	10.00	10.00	0.00
9,550.00	35.82	90.02	9,501.59	-248.84	-260.97	-260.88	10.00	10.00	0.00
9,600.00	40.82	90.02	9,540.80	-248.85	-229.97	-229.89	10.00	10.00	0.00
9,650.00	45.82	90.02	9,577.17	-248.86	-195.68	-195.59	10.00	10.00	0.00
9,700.00	50.82	90.02	9,610.40	-248.88	-158.34	-158.26	10.00	10.00	0.00
9,750.00	55.82	90.02	9,640.26	-248.90	-118.25	-118.17	10.00	10.00	0.00
9,800.00	60.82	90.02	9,666.50	-248.92	-75.72	-75.63	10.00	10.00	0.00
9,850.00	65.82	90.02	9,688.94	-248.94	-31.05	-30.97	10.00	10.00	0.00
9,900.00	70.82	90.02	9,707.41	-248.96	15.40	15.48	10.00	10.00	0.00
9,950.00	75.82	90.02	9,721.75	-248.98	63.28	63.37	10.00	10.00	0.00
9,991.76	80.00	90.02	9,730.49	-248.99	104.10	104.19	10.00	10.00	0.00
Begin 6.00°/100' Build									
10,000.00	80.49	90.02	9,731.89	-249.00	112.22	112.31	6.00	6.00	0.00
10,050.00	83.49	90.02	9,738.85	-249.02	161.73	161.82	6.00	6.00	0.00
10,100.00	86.49	90.02	9,743.21	-249.04	211.53	211.62	6.00	6.00	0.00
10,150.00	89.49	90.02	9,744.96	-249.06	261.50	261.59	6.00	6.00	0.00
10,158.43	90.00	90.02	9,745.00	-249.07	269.93	270.01	6.00	6.00	0.00
Begin 90.00° Lateral									
10,200.00	90.00	90.02	9,745.00	-249.08	311.50	311.59	0.00	0.00	0.00
10,300.00	90.00	90.02	9,745.00	-249.13	411.50	411.59	0.00	0.00	0.00
10,400.00	90.00	90.02	9,745.00	-249.17	511.50	511.59	0.00	0.00	0.00
10,500.00	90.00	90.02	9,745.00	-249.21	611.50	611.59	0.00	0.00	0.00
10,600.00	90.00	90.02	9,745.00	-249.26	711.50	711.59	0.00	0.00	0.00
10,700.00	90.00	90.02	9,745.00	-249.30	811.50	811.59	0.00	0.00	0.00
10,800.00	90.00	90.02	9,745.00	-249.34	911.50	911.59	0.00	0.00	0.00
10,900.00	90.00	90.02	9,745.00	-249.39	1,011.50	1,011.59	0.00	0.00	0.00
11,000.00	90.00	90.02	9,745.00	-249.43	1,111.50	1,111.59	0.00	0.00	0.00
11,100.00	90.00	90.02	9,745.00	-249.47	1,211.50	1,211.59	0.00	0.00	0.00
11,200.00	90.00	90.02	9,745.00	-249.52	1,311.50	1,311.59	0.00	0.00	0.00
11,300.00	90.00	90.02	9,745.00	-249.56	1,411.50	1,411.59	0.00	0.00	0.00
11,400.00	90.00	90.02	9,745.00	-249.60	1,511.50	1,511.59	0.00	0.00	0.00
11,500.00	90.00	90.02	9,745.00	-249.64	1,611.50	1,611.59	0.00	0.00	0.00
11,600.00	90.00	90.02	9,745.00	-249.69	1,711.50	1,711.59	0.00	0.00	0.00
11,700.00	90.00	90.02	9,745.00	-249.73	1,811.50	1,811.59	0.00	0.00	0.00
11,800.00	90.00	90.02	9,745.00	-249.77	1,911.50	1,911.59	0.00	0.00	0.00
11,900.00	90.00	90.02	9,745.00	-249.82	2,011.50	2,011.59	0.00	0.00	0.00
12,000.00	90.00	90.02	9,745.00	-249.86	2,111.50	2,111.59	0.00	0.00	0.00
12,100.00	90.00	90.02	9,745.00	-249.90	2,211.50	2,211.59	0.00	0.00	0.00
12,200.00	90.00	90.02	9,745.00	-249.95	2,311.50	2,311.59	0.00	0.00	0.00
12,300.00	90.00	90.02	9,745.00	-249.99	2,411.50	2,411.59	0.00	0.00	0.00
12,400.00	90.00	90.02	9,745.00	-250.03	2,511.50	2,511.59	0.00	0.00	0.00
12,500.00	90.00	90.02	9,745.00	-250.08	2,611.50	2,611.59	0.00	0.00	0.00
12,600.00	90.00	90.02	9,745.00	-250.12	2,711.50	2,711.59	0.00	0.00	0.00
12,700.00	90.00	90.02	9,745.00	-250.16	2,811.50	2,811.59	0.00	0.00	0.00
12,800.00	90.00	90.02	9,745.00	-250.21	2,911.50	2,911.59	0.00	0.00	0.00
12,900.00	90.00	90.02	9,745.00	-250.25	3,011.50	3,011.59	0.00	0.00	0.00
13,000.00	90.00	90.02	9,745.00	-250.29	3,111.50	3,111.59	0.00	0.00	0.00
13,100.00	90.00	90.02	9,745.00	-250.33	3,211.50	3,211.59	0.00	0.00	0.00
13,200.00	90.00	90.02	9,745.00	-250.38	3,311.50	3,311.59	0.00	0.00	0.00



Planning Report



Database: EDM 5000.1 Conroe DB
Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Site: Zach McCormick Federal 18-24S-29E RB
Well: #205H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
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)
13,400.00	90.00	90.02	9,745.00	-250.46	3,511.50	3,511.59	0.00	0.00	0.00
13,500.00	90.00	90.02	9,745.00	-250.51	3,611.50	3,611.59	0.00	0.00	0.00
13,600.00	90.00	90.02	9,745.00	-250.55	3,711.50	3,711.59	0.00	0.00	0.00
13,700.00	90.00	90.02	9,745.00	-250.59	3,811.50	3,811.59	0.00	0.00	0.00
13,800.00	90.00	90.02	9,745.00	-250.64	3,911.50	3,911.59	0.00	0.00	0.00
13,900.00	90.00	90.02	9,745.00	-250.68	4,011.50	4,011.59	0.00	0.00	0.00
14,000.00	90.00	90.02	9,745.00	-250.72	4,111.50	4,111.59	0.00	0.00	0.00
14,100.00	90.00	90.02	9,745.00	-250.77	4,211.50	4,211.59	0.00	0.00	0.00
14,200.00	90.00	90.02	9,745.00	-250.81	4,311.50	4,311.59	0.00	0.00	0.00
14,300.00	90.00	90.02	9,745.00	-250.85	4,411.50	4,411.59	0.00	0.00	0.00
14,400.00	90.00	90.02	9,745.00	-250.90	4,511.50	4,511.59	0.00	0.00	0.00
14,500.00	90.00	90.02	9,745.00	-250.94	4,611.50	4,611.59	0.00	0.00	0.00
14,600.00	90.00	90.02	9,745.00	-250.98	4,711.50	4,711.59	0.00	0.00	0.00
14,618.22	90.00	90.02	9,745.00	-250.99	4,729.72	4,729.81	0.00	0.00	0.00
PBHL									

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP - Zach McCormick - plan hits target center - Point	0.00	0.00	5,500.00	-248.79	-369.36	444,676.77	593,207.30	32° 13' 19.827 N	104° 1' 54.952 W
PBHL - Zach McCormick - plan hits target center - Point	0.00	0.00	9,745.00	-250.99	4,729.72	444,674.57	598,306.38	32° 13' 19.660 N	104° 0' 55.593 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
625.00	625.00	Surface Casing	10-3/4	12-1/4
2,800.00	2,796.05	9 5/8"	9-5/8	12-1/4
9,991.76	9,730.49	7"	7	7-1/2



Planning Report



Database: EDM 5000.1 Conroe DB
Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Site: Zach McCormick Federal 18-24S-29E RB
Well: #205H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
808.60	808.60	Top of Salt		0.00	90.02
2,685.27	2,681.60	Lamar/Base of Salt		0.00	90.02
2,735.39	2,731.60	Bell Canyon		0.00	90.02
3,672.55	3,661.60	Cherry Canyon		0.00	90.02
4,909.59	4,886.60	Brushy Canyon		0.00	90.02
6,491.12	6,465.60	Bone Spring Lime		0.00	90.02
7,433.12	7,407.60	1st Bone Spring Sand		0.00	90.02
7,746.12	7,720.60	2nd Bone Spring Carbonate		0.00	90.02
8,345.12	8,319.60	2nd Bone Spring Sand		0.00	90.02
8,584.12	8,558.60	3rd Bone Spring Carbonate		0.00	90.02
9,300.78	9,274.60	3rd Bone Spring Sand		0.00	90.02
9,736.60	9,632.60	Wolfcamp		0.00	90.02
9,796.12	9,664.60	Wolfcamp X		0.00	90.02
9,986.74	9,729.60	Wolfcamp Y		0.00	90.02

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	KOP, 1.50°/100' Build
1,266.67	1,266.45	-5.20	-7.72	Begin 4.00° Tangent
2,856.93	2,852.84	-67.17	-99.72	Begin 1.50°/100' Build
3,123.60	3,118.00	-82.74	-122.84	Begin 8.00° Tangent
4,992.19	4,968.40	-228.02	-338.53	Begin 1.50°/100' Drop
5,525.52	5,500.00	-248.79	-369.36	Begin Vertical Hold
9,191.76	9,166.24	-248.79	-369.36	Begin 10.00°/100' Build
9,991.76	9,730.49	-248.99	104.10	Begin 6.00°/100' Build
10,158.43	9,745.00	-249.07	269.93	Begin 90.00° Lateral
14,618.22	9,745.00	-250.99	4,729.72	PBHL



Matador Resources

Eddy County, New Mexico (NAD 27)
Zach McCormick Federal 18-24S-29E RB
#205H

Wellbore #1
Design #1

Anticollision Report

24 June, 2016



Local Co-ordinate Reference:	Well #205H
TVD Reference:	WELL @ 2981.60usft (Patterson 297)
MD Reference:	WELL @ 2981.60usft (Patterson 297)
North Reference:	Grid
Survey Calculation Method:	Minimum Curvature
Output errors are at	2.00 sigma
Database:	EDM 5000.1 Conroe DB
Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 u	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	6/23/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	14,618.22	Design #1 (Wellbore #1)	MWD	OWSG MWD - Standard	

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Fort 18 Corn						
#1 - 122H - Surveys	10,156.43	9,745.05	990.08	920.00	14.128	CC
#1 - 122H - Surveys	10,158.43	9,744.97	990.08	919.99	14.125	ES
#1 - 122H - Surveys	10,300.00	9,738.73	1,000.42	929.21	14.049	SF
Zach McCormick Federal 18-24S-29E RB						
#1 - Wellbore #1 - Surveys	836.41	834.84	61.66	56.24	11.380	CC
#1 - Wellbore #1 - Surveys	1,000.00	998.06	62.32	55.75	9.480	ES
#1 - Wellbore #1 - Surveys	10,238.53	9,759.84	212.07	141.40	3.001	SF
#121H - Wellbore #1 - Design #1	1,000.00	1,000.25	42.45	35.74	6.328	CC, ES
#121H - Wellbore #1 - Design #1	8,000.00	7,990.72	331.84	274.74	5.812	SF
#122H - Wellbore #1 - Design #1	7,712.50	7,718.76	990.01	934.73	17.909	CC
#122H - Wellbore #1 - Design #1	7,900.00	7,903.93	990.12	933.53	17.495	ES
#122H - Wellbore #1 - Design #1	14,618.22	13,215.99	1,721.85	1,562.99	10.839	SF
#201H - Wellbore #1 - Design #1	1,000.00	1,000.10	30.04	23.33	4.479	CC, ES
#201H - Wellbore #1 - Design #1	14,615.74	14,626.04	660.00	412.14	2.663	SF
#202H - Wellbore #1 - Design #1	14,618.22	14,656.43	660.00	406.89	2.608	CC, ES, SF
#206H - Wellbore #1 - Design #1	14,618.22	14,600.73	1,320.00	1,066.88	5.215	CC, ES, SF
#221H - Wellbore #1 - Design #1	1,000.00	1,000.33	42.53	35.82	6.339	CC, ES
#221H - Wellbore #1 - Design #1	1,200.00	1,198.00	46.81	38.73	5.792	SF
#222H - Wellbore #1 - Design #1	9,261.42	9,287.79	810.00	743.89	12.253	CC
#222H - Wellbore #1 - Design #1	9,350.00	9,374.54	810.19	743.56	12.159	ES
#222H - Wellbore #1 - Design #1	14,618.22	15,455.21	1,038.48	863.89	5.948	SF
#225H - Wellbore #1 - Design #1	1,000.00	1,000.35	30.04	23.33	4.478	CC
#225H - Wellbore #1 - Design #1	1,200.00	1,198.84	30.74	22.68	3.813	ES
#225H - Wellbore #1 - Design #1	9,300.00	9,306.66	150.40	84.32	2.276	SF
#226H - Wellbore #1 - Design #1	9,285.58	9,276.01	1,470.00	1,404.21	22.345	CC
#226H - Wellbore #1 - Design #1	14,618.22	15,417.85	1,545.32	1,324.58	7.000	ES, SF

[illegible]



Anticollision Report



Company: Matador Resources
 Project: Eddy County, New Mexico (NAD 27)
 Reference Site: Zach McCormick Federal 18-24S-29E RB
 Site Error: 0.00 usft
 Reference Well: #205H
 Well Error: 0.00 usft
 Reference Wellbore: Wellbore #1
 Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
 TVD Reference: WELL @ 2981.60usft (Patterson 297)
 MVD Reference: WELL @ 2981.60usft (Patterson 297)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Conroe DB
 Offset TVD Reference: Offset Datum

Offset Design Fort 18 Com - #1 - 122H - Surveys													Offset Site Error: 0.00 usft
Survey Program: 111-GYRO-NS													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
100.00	100.00	103.84	103.84	0.13	0.16	154.93	-1,238.71	579.54	1,367.61	1,367.33	0.29	4,797.062	
200.00	200.00	205.69	205.67	0.49	0.51	155.00	-1,238.71	577.67	1,366.84	1,365.84	1.00	1,372.017	
300.00	300.00	306.96	306.92	0.84	0.88	155.08	-1,238.72	575.57	1,365.97	1,364.24	1.72	793.842	
400.00	400.00	407.80	407.73	1.20	1.25	155.16	-1,238.72	573.30	1,365.02	1,362.58	2.44	559.075	
500.00	500.00	508.63	508.53	1.56	1.61	155.26	-1,238.72	570.87	1,364.01	1,360.85	3.16	431.320	
600.00	600.00	609.45	609.32	1.92	1.97	155.36	-1,238.73	568.29	1,362.95	1,359.06	3.88	350.981	
700.00	700.00	709.93	709.76	2.28	2.32	155.46	-1,238.73	565.66	1,361.86	1,357.27	4.59	296.792	
800.00	800.00	814.00	813.78	2.64	2.69	155.58	-1,238.74	562.44	1,360.58	1,355.26	5.32	255.910	
900.00	900.00	918.02	917.73	3.00	3.06	155.73	-1,238.74	558.47	1,359.01	1,352.97	6.04	224.829	
1,000.00	1,000.00	1,020.10	1,019.71	3.35	3.42	155.91	-1,238.75	553.85	1,357.16	1,350.40	6.76	200.621	
1,100.00	1,099.99	1,115.44	1,114.96	3.70	3.76	-80.06	-1,238.75	550.01	1,355.30	1,347.85	7.44	182.092	
1,200.00	1,199.91	1,215.12	1,214.58	4.03	4.11	-80.11	-1,238.76	546.41	1,353.15	1,345.03	8.13	166.472	
1,266.67	1,266.45	1,284.28	1,283.69	4.26	4.35	-80.21	-1,238.76	543.70	1,351.39	1,342.79	8.60	157.160	
1,300.00	1,299.70	1,318.85	1,318.23	4.38	4.47	-80.26	-1,238.76	542.23	1,350.42	1,341.58	8.83	152.849	
1,400.00	1,399.46	1,420.76	1,420.03	4.72	4.83	-80.37	-1,238.77	537.58	1,347.37	1,337.83	9.54	141.205	
1,500.00	1,499.22	1,517.92	1,517.09	5.07	5.17	-80.49	-1,238.78	533.15	1,344.34	1,334.10	10.24	131.336	
1,600.00	1,598.97	1,615.06	1,614.15	5.43	5.52	-80.62	-1,238.78	529.31	1,341.55	1,330.62	10.93	122.727	
1,700.00	1,698.73	1,713.54	1,712.57	5.79	5.86	-80.78	-1,238.79	525.78	1,338.93	1,327.30	11.63	115.104	
1,800.00	1,798.48	1,813.44	1,812.41	6.15	6.21	-80.93	-1,238.79	522.30	1,336.36	1,324.02	12.34	108.291	
1,900.00	1,898.24	1,908.79	1,907.72	6.51	6.54	-81.10	-1,238.80	519.36	1,333.97	1,320.94	13.03	102.346	
2,000.00	1,998.00	2,007.10	2,006.00	6.87	6.88	-81.30	-1,238.80	517.02	1,331.89	1,318.15	13.74	96.943	
2,100.00	2,097.75	2,110.32	2,109.18	7.23	7.24	-81.50	-1,238.80	514.23	1,329.70	1,315.23	14.46	91.944	
2,200.00	2,197.51	2,216.66	2,215.46	7.60	7.61	-81.67	-1,238.81	510.48	1,327.15	1,311.95	15.20	87.312	
2,300.00	2,297.27	2,322.28	2,320.95	7.97	7.99	-81.79	-1,238.81	505.54	1,324.13	1,308.19	15.94	83.081	
2,400.00	2,397.02	2,425.87	2,424.39	8.33	8.35	-81.88	-1,238.82	499.87	1,320.76	1,304.09	16.67	79.225	
2,500.00	2,496.78	2,527.84	2,526.17	8.70	8.72	-81.95	-1,238.83	493.82	1,317.20	1,299.79	17.40	75.697	
2,600.00	2,596.54	2,627.09	2,625.24	9.07	9.07	-82.01	-1,238.84	487.77	1,313.56	1,295.44	18.12	72.488	
2,700.00	2,696.29	2,723.53	2,721.53	9.44	9.42	-82.09	-1,238.85	482.28	1,310.11	1,291.27	18.84	69.544	
2,800.00	2,796.05	2,819.98	2,817.85	9.81	9.77	-82.19	-1,238.85	477.37	1,306.92	1,287.36	19.56	66.828	
2,856.93	2,852.84	2,874.88	2,872.70	10.02	9.97	-82.26	-1,238.86	474.84	1,305.23	1,285.26	19.97	65.375	
2,900.00	2,895.79	2,916.30	2,914.07	10.18	10.11	-82.34	-1,238.86	473.06	1,303.97	1,283.70	20.27	64.325	
3,000.00	2,995.34	3,012.25	3,009.95	10.56	10.45	-82.63	-1,238.87	469.38	1,301.04	1,280.05	20.99	61.998	
3,100.00	3,094.61	3,110.77	3,108.41	10.95	10.79	-83.06	-1,238.87	466.03	1,298.00	1,276.28	21.72	59.767	
3,123.60	3,118.00	3,133.98	3,131.62	11.04	10.87	-83.18	-1,238.87	465.27	1,297.26	1,275.36	21.89	59.258	
3,200.00	3,193.65	3,209.09	3,206.69	11.35	11.14	-83.55	-1,238.87	462.86	1,294.89	1,272.43	22.46	57.661	
3,300.00	3,292.68	3,308.42	3,305.97	11.74	11.48	-84.04	-1,238.88	459.78	1,291.93	1,268.72	23.20	55.682	
3,400.00	3,391.71	3,408.83	3,406.32	12.14	11.83	-84.53	-1,238.88	456.54	1,289.00	1,265.04	23.95	53.815	
3,500.00	3,490.73	3,509.26	3,506.70	12.55	12.18	-85.02	-1,238.89	453.12	1,286.08	1,261.37	24.70	52.058	
3,600.00	3,589.76	3,606.73	3,604.11	12.95	12.53	-85.49	-1,238.89	449.87	1,283.28	1,257.83	25.45	50.426	
3,700.00	3,688.79	3,704.13	3,701.47	13.35	12.87	-85.98	-1,238.90	446.92	1,280.73	1,254.54	26.19	48.895	
3,800.00	3,787.81	3,801.76	3,799.07	13.76	13.21	-86.49	-1,238.90	444.25	1,278.43	1,251.49	26.94	47.454	
3,900.00	3,886.84	3,901.06	3,898.33	14.16	13.55	-87.01	-1,238.90	441.65	1,276.29	1,248.60	27.69	46.087	
4,000.00	3,985.87	4,000.35	3,997.59	14.57	13.90	-87.53	-1,238.91	439.05	1,274.26	1,245.81	28.45	44.794	
4,100.00	4,084.89	4,099.65	4,096.85	14.98	14.24	-88.05	-1,238.91	436.45	1,272.34	1,243.13	29.20	43.569	
4,200.00	4,183.92	4,198.94	4,196.11	15.39	14.59	-88.58	-1,238.91	433.85	1,270.52	1,240.56	29.96	42.407	
4,300.00	4,282.95	4,298.24	4,295.37	15.80	14.94	-89.10	-1,238.92	431.26	1,268.81	1,238.09	30.72	41.304	
4,400.00	4,381.97	4,397.53	4,394.63	16.21	15.29	-89.63	-1,238.92	428.66	1,267.21	1,235.73	31.48	40.258	
4,500.00	4,481.00	4,496.83	4,493.90	16.62	15.64	-90.16	-1,238.93	426.06	1,265.72	1,233.48	32.24	39.263	
4,600.00	4,580.03	4,595.77	4,592.80	17.03	15.98	-90.68	-1,238.93	423.48	1,264.34	1,231.35	33.00	38.319	
4,700.00	4,679.05	4,694.45	4,691.45	17.45	16.33	-91.22	-1,238.93	420.99	1,263.12	1,229.37	33.75	37.422	
4,800.00	4,778.08	4,793.12	4,790.09	17.86	16.67	-91.75	-1,238.94	418.58	1,262.06	1,227.55	34.51	36.569	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Fort 18 Com - #1 - 122H - Surveys													Offset Site Error: 0.00 usft
Survey Program: 111-GYRO-NS													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	
4,992.19	4,968.40	4,982.70	4,979.62	18.66	17.33	-92.79	-1,238.94	414.18	1,260.48	1,224.51	35.97	35.043	
5,000.00	4,976.14	4,990.41	4,987.33	18.69	17.36	-92.83	-1,238.94	414.01	1,260.43	1,224.40	36.03	34.984	
5,100.00	5,075.36	5,089.20	5,086.09	19.09	17.71	-93.30	-1,238.95	411.85	1,259.77	1,222.99	36.78	34.252	
5,200.00	5,174.87	5,188.19	5,185.06	19.49	18.05	-93.65	-1,238.95	409.76	1,259.09	1,221.58	37.52	33.562	
5,300.00	5,274.61	5,287.36	5,284.21	19.86	18.40	-93.90	-1,238.95	407.76	1,258.33	1,220.10	38.24	32.909	
5,400.00	5,374.50	5,386.63	5,383.47	20.22	18.74	-94.02	-1,238.95	405.85	1,257.47	1,218.52	38.94	32.289	
5,500.00	5,474.48	5,485.95	5,482.77	20.57	19.09	-94.03	-1,238.96	404.02	1,256.47	1,216.84	39.64	31.700	
5,525.52	5,500.00	5,582.95	5,507.87	20.65	19.43	142.02	-1,238.96	403.56	1,256.19	1,216.14	40.06	31.359	
5,600.00	5,574.48	5,585.52	5,582.32	20.89	19.43	142.07	-1,238.96	402.26	1,255.40	1,215.09	40.30	31.148	
5,700.00	5,674.48	5,685.51	5,682.29	21.21	19.78	142.13	-1,238.96	400.52	1,254.33	1,213.35	40.97	30.615	
5,800.00	5,774.48	5,785.49	5,782.26	21.53	20.13	142.20	-1,238.96	398.77	1,253.26	1,211.62	41.64	30.098	
5,900.00	5,874.48	5,885.48	5,882.23	21.85	20.48	142.26	-1,238.97	397.03	1,252.19	1,209.88	42.31	29.596	
6,000.00	5,974.48	5,985.46	5,982.20	22.17	20.83	142.32	-1,238.97	395.28	1,251.12	1,208.14	42.98	29.110	
6,100.00	6,074.48	6,085.45	6,082.17	22.49	21.17	142.39	-1,238.97	393.54	1,250.06	1,206.41	43.65	28.637	
6,200.00	6,174.48	6,185.43	6,182.14	22.81	21.52	142.45	-1,238.97	391.80	1,249.00	1,204.67	44.32	28.179	
6,300.00	6,274.48	6,285.42	6,282.11	23.14	21.87	142.51	-1,238.98	390.05	1,247.94	1,202.94	45.00	27.734	
6,400.00	6,374.48	6,385.40	6,382.08	23.47	22.22	142.58	-1,238.98	388.31	1,246.88	1,201.21	45.67	27.301	
6,500.00	6,474.48	6,485.39	6,482.05	23.79	22.56	142.64	-1,238.98	386.56	1,245.82	1,199.47	46.35	26.880	
6,600.00	6,574.48	6,585.37	6,582.02	24.12	22.91	142.71	-1,238.98	384.82	1,244.76	1,197.74	47.03	26.470	
6,700.00	6,674.48	6,685.35	6,681.99	24.45	23.26	142.77	-1,238.99	383.07	1,243.71	1,196.01	47.70	26.072	
6,800.00	6,774.48	6,786.71	6,783.33	24.78	23.61	142.84	-1,238.99	381.27	1,242.64	1,194.25	48.39	25.681	
6,900.00	6,874.48	6,890.79	6,887.38	25.11	23.98	142.92	-1,238.99	378.98	1,241.31	1,192.23	49.08	25.290	
7,000.00	6,974.48	6,994.84	6,991.39	25.44	24.35	143.03	-1,239.00	376.12	1,239.66	1,189.88	49.78	24.904	
7,100.00	7,074.48	7,098.85	7,095.35	25.77	24.71	143.15	-1,239.00	372.69	1,237.68	1,187.20	50.47	24.521	
7,200.00	7,174.48	7,202.83	7,199.25	26.10	25.08	143.30	-1,239.01	368.69	1,235.38	1,184.21	51.17	24.143	
7,300.00	7,274.48	7,308.49	7,304.80	26.44	25.45	143.48	-1,239.01	363.97	1,232.72	1,180.85	51.87	23.766	
7,400.00	7,374.48	7,410.78	7,406.96	26.77	25.80	143.68	-1,239.02	358.68	1,229.65	1,177.09	52.56	23.395	
7,500.00	7,474.48	7,501.21	7,497.29	27.11	26.12	143.83	-1,239.03	354.55	1,226.96	1,173.74	53.22	23.056	
7,600.00	7,574.48	7,612.69	7,608.64	27.44	26.51	144.03	-1,239.03	349.28	1,224.17	1,170.24	53.93	22.697	
7,700.00	7,674.48	7,711.14	7,706.95	27.78	26.85	144.24	-1,239.04	343.85	1,220.95	1,166.33	54.62	22.355	
7,800.00	7,774.48	7,808.62	7,804.30	28.11	27.19	144.43	-1,239.05	338.81	1,217.94	1,162.64	55.30	22.025	
7,900.00	7,874.48	7,907.96	7,903.52	28.45	27.54	144.62	-1,239.05	333.95	1,215.10	1,159.12	55.98	21.705	
8,000.00	7,974.48	8,009.01	8,004.44	28.79	27.90	144.82	-1,239.06	328.81	1,212.16	1,155.49	56.67	21.388	
8,100.00	8,074.48	8,102.94	8,098.26	29.12	28.23	144.99	-1,239.07	324.42	1,209.48	1,152.14	57.35	21.091	
8,200.00	8,174.48	8,197.68	8,192.93	29.46	28.56	145.13	-1,239.07	320.81	1,207.30	1,149.28	58.02	20.809	
8,300.00	8,274.48	8,297.62	8,292.81	29.80	28.91	145.26	-1,239.08	317.32	1,205.31	1,146.60	58.71	20.531	
8,400.00	8,374.48	8,395.66	8,390.80	30.14	29.25	145.39	-1,239.08	314.01	1,203.39	1,144.00	59.39	20.263	
8,500.00	8,474.48	8,493.36	8,488.45	30.48	29.59	145.51	-1,239.09	311.04	1,201.67	1,141.60	60.07	20.004	
8,600.00	8,574.48	8,591.36	8,586.42	30.82	29.94	145.61	-1,239.09	308.37	1,200.13	1,139.38	60.75	19.754	
8,700.00	8,674.48	8,690.50	8,685.53	31.16	30.28	145.71	-1,239.09	305.86	1,198.71	1,137.27	61.44	19.510	
8,800.00	8,774.48	8,789.65	8,784.65	31.50	30.63	145.81	-1,239.10	303.47	1,197.36	1,135.23	62.13	19.272	
8,900.00	8,874.48	8,888.80	8,883.77	31.84	30.98	145.90	-1,239.10	301.21	1,196.07	1,133.26	62.82	19.041	
9,000.00	8,974.48	8,990.78	8,985.72	32.18	31.34	145.99	-1,239.10	298.86	1,194.79	1,131.27	63.52	18.811	
9,100.00	9,074.48	9,094.29	9,089.19	32.53	31.70	146.11	-1,239.11	295.97	1,193.23	1,129.01	64.22	18.581	
9,191.76	9,166.24	9,189.24	9,184.09	32.84	32.04	146.23	-1,239.11	292.84	1,191.55	1,126.68	64.87	18.370	
9,200.00	9,174.48	9,197.76	9,192.60	32.87	32.07	56.24	-1,239.11	292.53	1,191.35	1,126.43	64.92	18.350	
9,250.00	9,224.38	9,249.26	9,244.07	33.03	32.25	56.65	-1,239.11	290.61	1,188.72	1,123.46	65.26	18.215	
9,300.00	9,273.84	9,300.09	9,294.86	33.17	32.43	57.46	-1,239.12	288.59	1,183.65	1,118.07	65.59	18.047	
9,350.00	9,322.47	9,349.84	9,344.56	33.31	32.60	58.66	-1,239.12	286.48	1,176.27	1,110.38	65.90	17.850	
9,400.00	9,369.92	9,398.08	9,392.76	33.44	32.77	60.23	-1,239.12	284.31	1,166.74	1,100.55	66.19	17.627	
9,450.00	9,415.82	9,443.77	9,438.39	33.56	32.93	62.15	-1,239.13	282.20	1,155.31	1,088.85	66.47	17.381	
9,500.00	9,459.82	9,487.59	9,482.16	33.67	33.08	64.40	-1,239.13	280.08	1,142.23	1,075.50	66.73	17.117	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Fort 18 Com - #1 - 122H - Surveys													Offset Site Error: 0.00 usft
Survey Program: 111-GYRO-NS													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	
9,550.00	9,501.59	9,528.84	9,523.36	33.77	33.23	66.95	-1,239.13	278.02	1,127.80	1,060.83	66.97	16.840	
9,600.00	9,540.80	9,567.20	9,561.67	33.87	33.36	69.72	-1,239.13	276.04	1,112.39	1,045.19	67.20	16.553	
9,650.00	9,577.17	9,600.91	9,595.34	33.97	33.48	72.57	-1,239.14	274.30	1,096.40	1,028.98	67.42	16.263	
9,700.00	9,610.40	9,631.58	9,625.96	34.07	33.59	75.49	-1,239.14	272.77	1,080.24	1,012.61	67.63	15.973	
9,750.00	9,640.26	9,658.91	9,653.27	34.18	33.69	78.37	-1,239.14	271.44	1,064.33	996.49	67.84	15.690	
9,800.00	9,666.50	9,682.70	9,677.03	34.31	33.77	81.11	-1,239.14	270.32	1,049.07	981.02	68.05	15.416	
9,850.00	9,688.94	9,702.74	9,697.05	34.46	33.84	83.62	-1,239.14	269.39	1,034.88	966.60	68.28	15.157	
9,900.00	9,707.41	9,718.86	9,713.15	34.65	33.90	85.81	-1,239.15	268.66	1,022.13	953.61	68.52	14.918	
9,950.00	9,721.75	9,730.92	9,725.20	34.87	33.94	87.60	-1,239.15	268.12	1,011.18	942.40	68.78	14.703	
9,991.76	9,730.49	9,737.78	9,732.06	35.07	33.96	88.76	-1,239.15	267.82	1,003.62	934.61	69.01	14.544	
10,000.00	9,731.89	9,738.81	9,733.08	35.11	33.97	88.90	-1,239.15	267.77	1,002.32	933.26	69.05	14.515	
10,050.00	9,738.85	9,743.56	9,737.83	35.40	33.98	89.57	-1,239.15	267.56	995.78	926.42	69.36	14.357	
10,100.00	9,743.21	9,745.74	9,740.00	35.71	33.99	89.94	-1,239.15	267.47	991.69	922.00	69.68	14.231	
10,150.00	9,744.96	9,745.30	9,739.57	36.06	33.99	90.01	-1,239.15	267.49	990.10	920.07	70.03	14.138	
10,156.43	9,745.00	9,745.05	9,739.32	36.10	33.99	90.00	-1,239.15	267.50	990.08	920.00	70.08	14.128 CC	
10,158.43	9,745.00	9,744.97	9,739.23	36.12	33.99	89.99	-1,239.15	267.50	990.08	919.99	70.09	14.125 ES	
10,200.00	9,745.00	9,743.15	9,737.41	36.43	33.98	89.88	-1,239.15	267.58	991.04	920.64	70.40	14.077	
10,300.00	9,745.00	9,738.73	9,733.00	37.30	33.97	89.63	-1,239.15	267.78	1,000.42	929.21	71.21	14.049 SF	
10,400.00	9,745.00	9,734.28	9,728.55	38.30	33.95	89.37	-1,239.15	267.97	1,019.55	947.48	72.06	14.148	
10,500.00	9,745.00	9,729.78	9,724.06	39.42	33.94	89.11	-1,239.15	268.17	1,047.89	974.98	72.91	14.372	
10,600.00	9,745.00	9,725.23	9,719.52	40.66	33.92	88.85	-1,239.15	268.37	1,084.73	1,011.02	73.71	14.717	
10,700.00	9,745.00	9,720.64	9,714.93	41.99	33.90	88.58	-1,239.15	268.58	1,129.23	1,054.80	74.42	15.173	
10,800.00	9,745.00	9,716.01	9,710.30	43.43	33.89	88.32	-1,239.15	268.79	1,180.52	1,105.47	75.05	15.730	
10,900.00	9,745.00	9,711.33	9,705.63	44.95	33.87	88.05	-1,239.14	269.00	1,237.77	1,162.19	75.58	16.376	
11,000.00	9,745.00	9,706.60	9,700.90	46.54	33.85	87.77	-1,239.14	269.22	1,300.18	1,224.15	76.03	17.102	
11,100.00	9,745.00	9,701.82	9,696.13	48.21	33.84	87.50	-1,239.14	269.43	1,367.04	1,290.65	76.39	17.895	
11,200.00	9,745.00	9,697.00	9,691.31	49.93	33.82	87.22	-1,239.14	269.66	1,437.75	1,361.06	76.69	18.748	
11,300.00	9,745.00	9,692.13	9,686.45	51.71	33.80	86.94	-1,239.14	269.88	1,511.75	1,434.82	76.93	19.651	
11,400.00	9,745.00	9,687.21	9,681.53	53.55	33.79	86.65	-1,239.14	270.11	1,588.58	1,511.46	77.12	20.598	
11,500.00	9,745.00	9,682.23	9,676.56	55.42	33.77	86.37	-1,239.14	270.34	1,667.86	1,590.58	77.28	21.583	
11,600.00	9,745.00	9,677.21	9,671.54	57.34	33.75	86.08	-1,239.14	270.58	1,749.25	1,671.85	77.40	22.600	
11,700.00	9,745.00	9,672.13	9,666.47	59.30	33.73	85.79	-1,239.14	270.82	1,832.47	1,754.98	77.50	23.646	
11,800.00	9,745.00	9,667.00	9,661.35	61.29	33.72	85.49	-1,239.14	271.06	1,917.29	1,839.71	77.57	24.716	
11,900.00	9,745.00	9,661.82	9,656.17	63.31	33.70	85.19	-1,239.14	271.30	2,003.49	1,925.86	77.63	25.808	
12,000.00	9,745.00	9,656.58	9,650.94	65.35	33.68	84.89	-1,239.14	271.56	2,090.91	2,013.23	77.68	26.918	
12,100.00	9,745.00	9,651.29	9,645.65	67.43	33.66	84.59	-1,239.14	271.81	2,179.40	2,101.69	77.71	28.045	
12,200.00	9,745.00	9,645.94	9,640.31	69.52	33.64	84.28	-1,239.14	272.07	2,268.83	2,191.09	77.74	29.186	
12,300.00	9,745.00	9,640.53	9,634.91	71.64	33.62	83.98	-1,239.14	272.33	2,359.10	2,281.35	77.76	30.339	
12,400.00	9,745.00	9,635.07	9,629.45	73.77	33.60	83.66	-1,239.14	272.60	2,450.12	2,372.35	77.77	31.504	
12,500.00	9,745.00	9,629.54	9,623.93	75.92	33.58	83.35	-1,239.14	272.87	2,541.80	2,464.02	77.78	32.679	
12,600.00	9,745.00	9,623.96	9,618.36	78.09	33.56	83.03	-1,239.14	273.15	2,634.08	2,556.29	77.79	33.863	
12,700.00	9,745.00	9,618.31	9,612.72	80.27	33.54	82.71	-1,239.14	273.43	2,726.89	2,649.10	77.79	35.054	
12,800.00	9,745.00	9,612.61	9,607.02	82.47	33.52	82.38	-1,239.14	273.71	2,820.18	2,742.39	77.79	36.252	
12,900.00	9,745.00	9,606.83	9,601.25	84.68	33.50	82.06	-1,239.14	274.00	2,913.91	2,836.12	77.79	37.457	
13,000.00	9,745.00	9,601.00	9,595.43	86.90	33.48	81.73	-1,239.14	274.30	3,008.03	2,930.24	77.79	38.667	
13,100.00	9,745.00	9,595.10	9,589.53	89.13	33.46	81.39	-1,239.14	274.60	3,102.51	3,024.72	77.79	39.882	
13,200.00	9,745.00	9,589.13	9,583.58	91.37	33.44	81.06	-1,239.14	274.90	3,197.32	3,119.53	77.79	41.101	
13,300.00	9,745.00	9,583.10	9,577.55	93.62	33.42	80.72	-1,239.14	275.21	3,292.42	3,214.63	77.79	42.324	
13,400.00	9,745.00	9,577.00	9,571.45	95.88	33.40	80.37	-1,239.14	275.53	3,387.80	3,310.01	77.79	43.551	
13,500.00	9,745.00	9,570.82	9,565.29	98.14	33.38	80.03	-1,239.14	275.85	3,483.43	3,405.64	77.79	44.781	
13,600.00	9,745.00	9,564.96	9,559.43	100.42	33.36	79.70	-1,239.13	276.15	3,579.28	3,501.50	77.79	46.013	
13,700.00	9,745.00	9,559.00	9,553.47	102.70	33.34	79.34	-1,239.13	276.46	3,675.36	3,597.56	77.79	47.245	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Fort 18 Com - #1 - 122H - Surveys											Offset Site Error: 0.00 usft		
Survey Program: 111-GYRO-NS											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
13,800.00	9,745.00	9,555.83	9,550.32	104.98	33.32	79.19	-1,239.13	276.63	3,771.62	3,693.83	77.80	48.479	
13,900.00	9,745.00	9,551.31	9,545.81	107.27	33.31	78.94	-1,239.13	276.86	3,868.08	3,790.27	77.81	49.715	
14,000.00	9,745.00	9,546.83	9,541.33	109.57	33.29	78.69	-1,239.13	277.10	3,964.70	3,886.89	77.81	50.952	
14,100.00	9,745.00	9,542.37	9,536.88	111.88	33.28	78.44	-1,239.13	277.32	4,061.48	3,983.66	77.82	52.190	
14,200.00	9,745.00	9,537.95	9,532.46	114.19	33.26	78.19	-1,239.13	277.55	4,158.41	4,080.58	77.83	53.430	
14,300.00	9,745.00	9,533.56	9,528.07	116.50	33.25	77.95	-1,239.13	277.78	4,255.47	4,177.63	77.84	54.669	
14,400.00	9,745.00	9,529.19	9,523.72	118.82	33.23	77.71	-1,239.13	278.00	4,352.66	4,274.81	77.85	55.910	
14,500.00	9,745.00	9,524.86	9,519.39	121.14	33.22	77.47	-1,239.13	278.22	4,449.97	4,372.11	77.86	57.151	
14,600.00	9,745.00	9,520.56	9,515.09	123.46	33.20	77.23	-1,239.13	278.44	4,547.39	4,469.52	77.88	58.392	
14,618.22	9,745.00	9,519.78	9,514.31	123.89	33.20	77.19	-1,239.13	278.48	4,565.16	4,487.28	77.88	58.618	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #1 - Wellbore #1 - Surveys													Offset Site Error: 0.00 usft
Survey Program: 125-GYRO-NS													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	0.00	0.00	0.00	65.98	26.44	59.34	64.98				
100.00	100.00	98.43	98.43	0.13	0.14	65.92	26.50	59.29	64.94	64.68	0.26	247.810	
138.51	138.51	136.94	136.94	0.27	0.19	65.86	26.55	59.25	64.93	64.47	0.45	143.366	
200.00	200.00	198.14	198.14	0.49	0.43	65.82	26.66	59.38	65.09	64.17	0.91	71.301	
300.00	300.00	298.48	298.48	0.84	0.78	65.71	26.84	59.49	65.26	63.64	1.62	40.246	
400.00	400.00	398.67	398.67	1.20	1.13	65.49	27.00	59.20	65.06	62.74	2.33	27.933	
500.00	500.00	499.03	499.02	1.56	1.48	65.54	26.60	58.49	64.25	61.21	3.04	21.147	
600.00	600.00	599.05	599.04	1.92	1.83	66.07	25.66	57.83	63.27	59.52	3.75	16.887	
700.00	700.00	698.92	698.90	2.28	2.18	66.74	24.63	57.31	62.37	57.92	4.45	14.004	
800.00	800.00	798.62	798.60	2.64	2.52	67.45	23.67	57.00	61.72	56.56	5.16	11.959	
836.41	836.41	834.84	834.81	2.77	2.65	67.70	23.40	57.05	61.66	56.24	5.42	11.380 CC	
900.00	900.00	898.18	898.15	3.00	2.87	68.17	22.98	57.38	61.81	55.95	5.87	10.536	
1,000.00	1,000.00	998.06	998.03	3.35	3.22	69.04	22.29	58.20	62.32	55.75	6.57	9.480 ES	
1,100.00	1,099.99	1,097.89	1,097.85	3.70	3.57	-166.48	21.73	59.15	64.29	57.03	7.27	8.848	
1,200.00	1,199.91	1,197.71	1,197.66	4.03	3.92	-166.62	21.37	60.27	69.03	61.08	7.95	8.684	
1,266.67	1,266.45	1,264.38	1,264.33	4.26	4.15	-167.01	21.18	60.95	73.56	65.15	8.41	8.749	
1,300.00	1,299.70	1,298.03	1,297.98	4.38	4.27	-167.29	21.08	61.17	75.99	67.35	8.64	8.796	
1,400.00	1,399.46	1,398.92	1,398.86	4.72	4.62	-168.00	20.38	60.81	82.22	72.89	9.33	8.811	
1,500.00	1,499.22	1,499.17	1,499.10	5.07	4.97	-168.79	19.57	59.48	87.53	77.50	10.03	8.730	
1,600.00	1,598.97	1,598.92	1,598.84	5.43	5.32	-169.23	18.35	58.20	92.72	82.00	10.72	8.648	
1,700.00	1,698.73	1,698.57	1,698.48	5.79	5.67	-169.54	17.10	57.26	98.21	86.80	11.42	8.602	
1,800.00	1,798.48	1,798.60	1,798.49	6.15	6.02	-169.81	15.81	56.23	103.62	91.51	12.12	8.552	
1,900.00	1,898.24	1,898.34	1,898.21	6.51	6.37	-170.08	14.53	55.11	108.95	96.13	12.82	8.500	
2,000.00	1,998.00	1,997.41	1,997.27	6.87	6.72	-170.02	12.86	54.57	114.63	101.12	13.52	8.481	
2,100.00	2,097.75	2,096.14	2,095.93	7.23	7.06	-168.86	9.40	55.81	121.25	107.04	14.21	8.531	
2,200.00	2,197.51	2,195.71	2,195.37	7.60	7.41	-167.19	4.81	57.96	126.35	113.44	14.92	8.605	
2,300.00	2,297.27	2,293.51	2,292.97	7.97	7.75	-165.20	-0.61	61.21	136.33	120.72	15.61	8.734	
2,400.00	2,397.02	2,392.19	2,391.25	8.33	8.10	-162.54	-7.87	66.12	145.51	129.20	16.31	8.923	
2,500.00	2,496.78	2,492.87	2,491.44	8.70	8.46	-159.78	-16.24	71.36	154.97	137.94	17.03	9.101	
2,600.00	2,596.54	2,594.45	2,592.77	9.07	8.81	-158.23	-22.49	74.65	163.24	145.49	17.75	9.197	
2,700.00	2,696.29	2,695.01	2,693.21	9.44	9.17	-157.54	-26.80	76.75	170.86	152.40	18.46	9.255	
2,800.00	2,796.05	2,794.85	2,792.99	9.81	9.52	-157.26	-30.12	78.15	178.03	158.86	19.17	9.287	
2,856.93	2,852.84	2,851.55	2,849.67	10.02	9.71	-157.26	-31.52	78.92	182.18	162.60	19.57	9.308	
2,900.00	2,895.79	2,894.41	2,892.51	10.18	9.86	-157.29	-32.51	79.51	185.56	165.68	19.88	9.335	
3,000.00	2,995.34	2,993.84	2,991.91	10.56	10.21	-157.55	-34.82	80.91	195.16	174.57	20.58	9.481	
3,100.00	3,094.61	3,093.53	3,091.56	10.95	10.56	-158.08	-37.07	82.00	206.89	185.59	21.30	9.715	
3,123.60	3,118.00	3,116.85	3,114.88	11.04	10.64	-158.23	-37.60	82.29	210.04	188.58	21.46	9.786	
3,200.00	3,193.65	3,192.84	3,190.85	11.35	10.91	-158.79	-39.26	83.17	220.44	198.43	22.01	10.017	
3,300.00	3,292.68	3,291.27	3,289.24	11.74	11.25	-159.46	-41.28	84.29	234.09	211.38	22.71	10.308	
3,400.00	3,391.71	3,391.12	3,389.07	12.14	11.60	-160.05	-43.41	85.49	247.82	224.39	23.42	10.580	
3,500.00	3,490.73	3,490.78	3,488.70	12.55	11.95	-160.56	-45.70	86.48	261.32	237.18	24.14	10.827	
3,600.00	3,589.76	3,590.06	3,587.95	12.95	12.30	-161.08	-47.74	87.08	274.53	249.68	24.85	11.049	
3,700.00	3,688.79	3,688.57	3,687.45	13.35	12.65	-161.60	-49.58	87.58	287.72	262.16	25.56	11.257	
3,800.00	3,787.81	3,789.25	3,787.11	13.76	13.00	-162.07	-51.46	87.98	300.82	274.55	26.27	11.450	
3,900.00	3,886.84	3,888.44	3,886.29	14.16	13.34	-162.57	-53.05	88.08	313.74	286.76	26.98	11.627	
4,000.00	3,985.87	3,986.96	3,984.80	14.57	13.69	-163.07	-54.32	88.19	326.78	299.09	27.69	11.802	
4,100.00	4,084.89	4,086.24	4,084.07	14.98	14.04	-163.54	-55.59	88.45	340.00	311.59	28.40	11.971	
4,200.00	4,183.92	4,186.42	4,184.24	15.39	14.39	-163.99	-56.82	88.42	352.96	323.85	29.12	12.122	
4,300.00	4,282.95	4,285.18	4,283.00	15.80	14.73	-164.45	-57.83	88.21	365.84	336.02	29.83	12.266	
4,400.00	4,381.97	4,384.10	4,381.91	16.21	15.08	-164.87	-58.85	88.13	378.88	348.34	30.54	12.408	
4,500.00	4,481.00	4,481.92	4,479.72	16.62	15.42	-165.23	-60.04	88.17	391.97	360.73	31.24	12.548	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #1 - Wellbore #1 - Surveys													Offset Site Error: 0.00 usft
Survey Program: 125-GYRO-NS													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Tooface (")	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)					
4,700.00	4,679.05	4,682.20	4,679.99	17.45	16.12	-165.92	-62.43	87.70	417.70	385.03	32.67	12.784	
4,800.00	4,778.08	4,781.03	4,778.81	17.86	16.47	-166.25	-63.47	87.37	430.55	397.17	33.38	12.897	
4,900.00	4,877.11	4,881.63	4,879.40	18.27	16.82	-166.55	-64.62	87.23	443.56	409.46	34.10	13.006	
4,992.19	4,968.40	4,974.15	4,971.91	18.66	17.15	-166.83	-65.75	86.59	455.07	420.30	34.77	13.089	
5,000.00	4,976.14	4,981.90	4,979.67	18.69	17.17	-166.85	-65.85	86.54	456.03	421.21	34.82	13.096	
5,100.00	5,075.36	5,082.46	5,080.21	19.09	17.53	-167.11	-67.26	85.76	466.91	431.37	35.54	13.137	
5,200.00	5,174.87	5,183.53	5,181.27	19.49	17.88	-167.29	-68.68	84.63	474.94	438.68	36.26	13.098	
5,300.00	5,274.61	5,284.03	5,281.74	19.86	18.23	-167.43	-69.88	83.19	480.21	443.24	36.97	12.989	
5,400.00	5,374.50	5,376.27	5,373.97	20.22	18.55	-167.69	-69.19	81.76	483.54	445.91	37.63	12.849	
5,500.00	5,474.48	5,474.82	5,472.44	20.57	18.89	-168.18	-65.74	80.29	485.40	447.08	38.32	12.667	
5,525.52	5,500.00	5,500.28	5,497.89	20.65	18.98	-67.74	-64.88	79.97	485.51	447.01	38.49	12.612	
5,600.00	5,574.48	5,575.01	5,572.56	20.89	19.24	67.43	-62.42	79.00	485.55	446.55	39.00	12.450	
5,700.00	5,674.48	5,671.93	5,669.39	21.21	19.57	66.95	-58.60	77.61	485.77	446.11	39.66	12.250	
5,800.00	5,774.48	5,771.09	5,768.35	21.53	19.91	66.21	-52.49	75.92	486.65	446.33	40.33	12.068	
5,900.00	5,874.48	5,872.26	5,869.35	21.85	20.26	65.52	-46.79	74.21	487.41	446.40	41.01	11.884	
6,000.00	5,974.48	5,968.21	5,965.15	22.17	20.59	64.89	-41.55	72.87	488.44	446.78	41.66	11.724	
6,100.00	6,074.48	6,066.55	6,063.35	22.49	20.93	64.31	-36.29	72.30	490.22	447.89	42.33	11.581	
6,200.00	6,174.48	6,158.27	6,154.93	22.81	21.25	63.80	-31.31	72.53	492.83	449.90	42.94	11.478	
6,300.00	6,274.48	6,243.50	6,240.01	23.14	21.54	63.50	-27.13	75.15	497.80	454.34	43.46	11.453	
6,400.00	6,374.48	6,342.54	6,338.77	23.47	21.89	63.19	-21.64	80.20	504.84	460.71	44.14	11.438	
6,500.00	6,474.48	6,436.45	6,432.43	23.79	22.21	62.97	-16.93	85.18	511.86	467.11	44.75	11.439	
6,600.00	6,574.48	6,525.33	6,520.88	24.12	22.52	62.89	-12.36	92.44	521.40	476.12	45.28	11.514	
6,700.00	6,674.48	6,636.29	6,631.36	24.45	22.90	63.20	-10.40	102.55	530.33	484.20	46.13	11.498	
6,800.00	6,774.48	6,747.26	6,742.06	24.78	23.29	63.44	-9.00	110.26	537.11	490.17	46.94	11.441	
6,900.00	6,874.48	6,846.02	6,840.67	25.11	23.64	63.60	-8.00	115.60	542.40	494.78	47.62	11.390	
7,000.00	6,974.48	6,941.72	6,936.16	25.44	23.97	63.73	-6.48	121.65	548.77	500.50	48.27	11.369	
7,100.00	7,074.48	7,031.67	7,025.86	25.77	24.29	63.70	-3.27	127.47	556.18	507.34	48.84	11.388	
7,200.00	7,174.48	7,120.40	7,114.16	26.10	24.60	63.60	1.52	134.77	565.91	516.53	49.38	11.460	
7,300.00	7,274.48	7,218.13	7,211.37	26.44	24.94	63.48	7.01	143.23	576.16	526.12	50.04	11.513	
7,400.00	7,374.48	7,317.71	7,310.36	26.77	25.29	63.59	10.72	153.28	586.87	536.13	50.73	11.567	
7,500.00	7,474.48	7,424.88	7,416.93	27.11	25.67	63.94	12.30	164.46	596.88	545.35	51.53	11.583	
7,600.00	7,574.48	7,516.24	7,507.80	27.44	25.99	64.27	12.95	173.88	606.50	554.39	52.11	11.638	
7,700.00	7,674.48	7,608.50	7,599.28	27.78	26.32	64.81	12.34	185.89	617.99	565.28	52.70	11.726	
7,800.00	7,774.48	7,703.42	7,693.26	28.11	26.65	65.38	11.81	199.19	630.48	577.14	53.33	11.822	
7,900.00	7,874.48	7,808.67	7,797.53	28.45	27.03	65.98	11.00	213.48	642.55	588.43	54.11	11.874	
8,000.00	7,974.48	7,922.52	7,910.45	28.79	27.44	66.66	8.90	227.82	653.39	598.39	55.00	11.880	
8,100.00	8,074.48	8,029.14	8,016.32	29.12	27.82	67.43	4.37	239.60	661.91	606.13	55.78	11.866	
8,200.00	8,174.48	8,125.00	8,111.47	29.46	28.16	68.16	-0.42	250.19	670.30	613.86	56.44	11.877	
8,300.00	8,274.48	8,215.78	8,201.39	29.80	28.48	68.84	-4.38	262.04	680.82	623.79	57.03	11.938	
8,400.00	8,374.48	8,319.12	8,303.84	30.14	28.85	69.57	-8.80	274.83	690.90	633.12	57.78	11.958	
8,500.00	8,474.48	8,415.74	8,399.69	30.48	29.20	70.13	-11.65	286.64	701.37	642.93	58.44	12.001	
8,600.00	8,574.48	8,525.45	8,508.64	30.82	29.59	70.67	-14.30	299.15	711.35	652.09	59.26	12.003	
8,700.00	8,674.48	8,638.16	8,620.87	31.16	29.99	71.12	-16.69	309.35	719.18	659.08	60.10	11.966	
8,800.00	8,774.48	8,754.40	8,736.84	31.50	30.40	71.42	-18.12	316.99	724.97	664.02	60.95	11.894	
8,900.00	8,874.48	8,840.43	8,822.68	31.84	30.70	71.61	-18.73	322.62	730.95	669.42	61.53	11.880	
9,000.00	8,974.48	8,943.77	8,925.71	32.18	31.07	71.90	-20.06	330.49	737.79	675.53	62.26	11.850	
9,100.00	9,074.48	9,058.85	9,040.57	32.53	31.47	72.19	-21.78	337.37	742.99	679.91	63.09	11.777	
9,191.76	9,166.24	9,167.51	9,149.13	32.84	31.85	72.42	-23.56	341.57	745.92	682.07	63.85	11.683	
9,200.00	9,174.48	9,176.55	9,158.16	32.87	31.88	-17.59	-23.70	341.81	746.03	682.12	63.91	11.674	
9,250.00	9,224.38	9,233.25	9,214.85	33.03	32.08	-17.62	-24.75	343.04	744.02	679.74	64.29	11.574	
9,300.00	9,273.84	9,293.17	9,274.74	33.17	32.29	-17.91	-26.20	343.76	737.33	672.67	64.67	11.402	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #1 - Wellbore #1 - Surveys													Offset Site Error: 0.00 usft	
Survey Program: 125-GYRO-NS													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		
9,400.00	9,369.92	9,391.50	9,373.01	33.44	32.63	-19.21	-29.57	344.08	710.69	645.38	65.31	10.881		
9,450.00	9,415.82	9,437.69	9,419.17	33.56	32.79	-20.29	-31.44	344.39	691.60	625.99	65.61	10.541		
9,500.00	9,459.82	9,483.72	9,465.16	33.67	32.95	-21.78	-33.35	344.59	668.72	602.83	65.90	10.148		
9,550.00	9,501.59	9,524.72	9,506.11	33.77	33.09	-23.70	-35.10	344.75	642.35	576.19	66.16	9.710		
9,600.00	9,540.80	9,557.27	9,538.64	33.87	33.21	-26.04	-36.33	345.02	613.01	546.64	66.37	9.236		
9,650.00	9,577.17	9,587.47	9,568.83	33.97	33.31	-29.03	-37.13	345.56	581.22	514.65	66.57	8.732		
9,700.00	9,610.40	9,618.70	9,600.04	34.07	33.42	-32.99	-37.76	346.29	547.08	480.32	66.76	8.195		
9,750.00	9,640.26	9,646.42	9,627.75	34.18	33.52	-37.97	-38.11	347.00	510.89	443.95	66.94	7.633		
9,800.00	9,666.50	9,670.41	9,651.73	34.31	33.60	-44.08	-38.11	347.64	473.13	406.03	67.10	7.051		
9,850.00	9,688.94	9,692.65	9,673.96	34.46	33.68	-51.58	-37.91	348.29	434.29	367.02	67.27	6.456		
9,900.00	9,707.41	9,712.29	9,693.59	34.65	33.75	-60.21	-37.66	348.85	394.95	327.48	67.47	5.854		
9,950.00	9,721.75	9,728.21	9,709.51	34.87	33.80	-69.21	-37.44	349.29	355.90	288.19	67.71	5.257		
9,991.76	9,730.49	9,738.32	9,719.61	35.07	33.84	-76.27	-37.31	349.56	324.26	256.32	67.95	4.772		
10,000.00	9,731.89	9,739.97	9,721.26	35.11	33.84	-77.21	-37.29	349.60	318.20	250.20	68.00	4.679		
10,050.00	9,738.85	9,748.44	9,729.73	35.40	33.87	-82.27	-37.18	349.83	283.39	215.00	68.40	4.143		
10,100.00	9,743.21	9,754.33	9,735.61	35.71	33.89	-86.10	-37.11	349.98	253.22	184.29	68.93	3.674		
10,150.00	9,744.96	9,757.48	9,738.76	36.06	33.90	-88.55	-37.07	350.06	229.79	160.22	69.57	3.303		
10,158.43	9,745.00	9,757.74	9,739.03	36.12	33.90	-88.82	-37.07	350.07	226.68	156.99	69.69	3.253		
10,200.00	9,745.00	9,758.84	9,740.12	36.43	33.91	-89.11	-37.06	350.09	215.53	145.30	70.24	3.069		
10,238.53	9,745.00	9,759.84	9,741.12	36.77	33.91	-89.38	-37.05	350.12	212.07	141.40	70.66	3.001 SF		
10,300.00	9,745.00	9,761.43	9,742.71	37.30	33.92	-89.81	-37.03	350.16	220.79	149.89	70.90	3.114		
10,400.00	9,745.00	9,763.98	9,745.26	38.30	33.93	-90.50	-37.00	350.22	266.51	196.05	70.46	3.782		
10,500.00	9,745.00	9,766.49	9,747.76	39.42	33.93	-91.18	-36.98	350.28	336.59	266.78	69.81	4.822		
10,600.00	9,745.00	9,768.94	9,750.22	40.66	33.94	-91.84	-36.96	350.35	418.99	349.67	69.32	6.044		
10,700.00	9,745.00	9,771.36	9,752.63	41.99	33.95	-92.49	-36.93	350.40	507.73	438.74	68.99	7.360		
10,800.00	9,745.00	9,773.73	9,755.00	43.43	33.96	-93.13	-36.91	350.46	600.02	531.25	68.77	8.725		
10,900.00	9,745.00	9,776.13	9,757.41	44.95	33.97	-93.78	-36.89	350.52	694.44	625.82	68.62	10.120		
11,000.00	9,745.00	9,778.63	9,759.90	46.54	33.98	-94.45	-36.87	350.58	790.22	721.71	68.51	11.534		
11,100.00	9,745.00	9,781.14	9,762.41	48.21	33.99	-95.12	-36.85	350.64	886.93	818.49	68.44	12.959		
11,200.00	9,745.00	9,783.65	9,764.93	49.93	33.99	-95.79	-36.83	350.70	984.29	915.90	68.39	14.392		
11,300.00	9,745.00	9,786.18	9,767.45	51.71	34.00	-96.46	-36.82	350.76	1,082.13	1,013.77	68.36	15.831		
11,400.00	9,745.00	9,788.72	9,769.99	53.55	34.01	-97.14	-36.80	350.82	1,180.32	1,111.99	68.33	17.273		
11,500.00	9,745.00	9,791.26	9,772.53	55.42	34.02	-97.81	-36.78	350.88	1,278.79	1,210.48	68.32	18.718		
11,600.00	9,745.00	9,793.82	9,775.09	57.34	34.03	-98.49	-36.77	350.94	1,377.48	1,309.17	68.31	20.164		
11,700.00	9,745.00	9,796.38	9,777.65	59.30	34.04	-99.16	-36.75	351.01	1,476.34	1,408.03	68.31	21.612		
11,800.00	9,745.00	9,798.96	9,780.22	61.29	34.05	-99.84	-36.74	351.07	1,575.34	1,507.02	68.32	23.060		
11,900.00	9,745.00	9,801.54	9,782.81	63.31	34.06	-100.51	-36.73	351.13	1,674.45	1,606.13	68.32	24.507		
12,000.00	9,745.00	9,804.11	9,785.38	65.35	34.07	-101.18	-36.72	351.19	1,773.66	1,705.32	68.34	25.955		
12,100.00	9,745.00	9,806.70	9,787.97	67.43	34.07	-101.85	-36.70	351.26	1,872.95	1,804.60	68.35	27.401		
12,200.00	9,745.00	9,809.31	9,790.57	69.52	34.08	-102.52	-36.69	351.32	1,972.31	1,903.94	68.37	28.847		
12,300.00	9,745.00	9,811.93	9,793.19	71.64	34.09	-103.19	-36.68	351.38	2,071.73	2,003.33	68.39	30.292		
12,400.00	9,745.00	9,814.56	9,795.82	73.77	34.10	-103.86	-36.67	351.45	2,171.19	2,102.78	68.41	31.736		
12,500.00	9,745.00	9,817.21	9,798.47	75.92	34.11	-104.53	-36.66	351.51	2,270.71	2,202.27	68.44	33.178		
12,600.00	9,745.00	9,819.87	9,801.13	78.09	34.12	-105.20	-36.65	351.58	2,370.26	2,301.79	68.47	34.619		
12,700.00	9,745.00	9,822.55	9,803.81	80.27	34.13	-105.87	-36.64	351.65	2,469.84	2,401.34	68.50	36.058		
12,800.00	9,745.00	9,825.25	9,806.51	82.47	34.14	-106.54	-36.63	351.71	2,569.45	2,500.93	68.53	37.495		
12,900.00	9,745.00	9,828.13	9,809.39	84.68	34.15	-107.25	-36.62	351.79	2,669.09	2,600.53	68.56	38.931		
13,000.00	9,745.00	9,831.04	9,812.30	86.90	34.16	-107.96	-36.61	351.86	2,768.76	2,700.16	68.59	40.364		
13,100.00	9,745.00	9,833.99	9,815.24	89.13	34.17	-108.68	-36.60	351.93	2,868.44	2,799.81	68.63	41.795		
13,200.00	9,745.00	9,836.97	9,818.23	91.37	34.18	-109.40	-36.59	352.01	2,968.14	2,899.47	68.67	43.224		
13,300.00	9,745.00	9,839.99	9,821.25	93.62	34.19	-110.12	-36.58	352.09	3,067.86	2,999.16	68.71	44.651		
13,400.00	9,745.00	9,843.04	9,824.27	95.87	34.20	-110.84	-36.57	352.17	3,167.60	3,098.85	68.75	46.075		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #1 - Wellbore #1 - Surveys													Offset Site Error:	0.00 usft
Survey Program: 125-GYRO-NS													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		
13,500.00	9,745.00	9,846.15	9,827.40	98.14	34.21	-111.56	-36.56	352.25	3,267.35	3,198.56	68.79	47.497		
13,600.00	9,745.00	9,849.28	9,830.53	100.42	34.22	-112.29	-36.54	352.33	3,367.11	3,298.27	68.83	48.916		
13,700.00	9,745.00	9,852.46	9,833.71	102.70	34.23	-113.02	-36.53	352.41	3,466.88	3,398.00	68.88	50.333		
13,800.00	9,745.00	9,853.78	9,835.03	104.98	34.24	-113.32	-36.53	352.45	3,566.66	3,497.74	68.92	51.750		
13,900.00	9,745.00	9,855.88	9,837.13	107.27	34.25	-113.79	-36.52	352.50	3,666.46	3,597.49	68.97	53.164		
14,000.00	9,745.00	9,857.96	9,839.21	109.57	34.25	-114.26	-36.51	352.55	3,766.26	3,697.25	69.01	54.575		
14,100.00	9,745.00	9,860.02	9,841.26	111.88	34.26	-114.72	-36.50	352.61	3,866.07	3,797.02	69.06	55.984		
14,200.00	9,745.00	9,862.05	9,843.30	114.19	34.27	-115.17	-36.49	352.66	3,965.90	3,896.79	69.11	57.389		
14,300.00	9,745.00	9,864.06	9,845.31	116.50	34.27	-115.61	-36.49	352.71	4,065.72	3,996.57	69.15	58.792		
14,400.00	9,745.00	9,866.06	9,847.30	118.82	34.28	-116.04	-36.48	352.76	4,165.56	4,096.35	69.20	60.193		
14,500.00	9,745.00	9,868.03	9,849.27	121.14	34.29	-116.47	-36.47	352.81	4,265.40	4,196.15	69.25	61.590		
14,600.00	9,745.00	9,869.98	9,851.22	123.46	34.29	-116.89	-36.47	352.86	4,365.25	4,295.94	69.31	62.985		
14,618.22	9,745.00	9,870.33	9,851.58	123.89	34.30	-116.96	-36.47	352.87	4,383.44	4,314.13	69.32	63.239		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #121H - Wellbore #1 - Design #1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)		+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.25	0.25	0.00	0.00	44.95		30.04	29.99	42.45					
100.00	100.00	100.25	100.25	0.13	0.13	44.95		30.04	29.99	42.45	42.19	0.26	166.193		
200.00	200.00	200.25	200.25	0.49	0.49	44.95		30.04	29.99	42.45	41.48	0.97	43.654		
300.00	300.00	300.25	300.25	0.84	0.85	44.95		30.04	29.99	42.45	40.76	1.69	25.127		
400.00	400.00	400.25	400.25	1.20	1.20	44.95		30.04	29.99	42.45	40.04	2.41	17.641		
500.00	500.00	500.25	500.25	1.56	1.56	44.95		30.04	29.99	42.45	39.32	3.12	13.591		
600.00	600.00	600.25	600.25	1.92	1.92	44.95		30.04	29.99	42.45	38.61	3.84	11.054		
700.00	700.00	700.25	700.25	2.28	2.28	44.95		30.04	29.99	42.45	37.89	4.56	9.315		
800.00	800.00	800.25	800.25	2.64	2.64	44.95		30.04	29.99	42.45	37.17	5.27	8.048		
900.00	900.00	900.25	900.25	3.00	3.00	44.95		30.04	29.99	42.45	36.46	5.99	7.085		
1,000.00	1,000.00	1,000.25	1,000.25	3.35	3.35	44.95		30.04	29.99	42.45	35.74	6.71	6.328 CC. ES		
1,100.00	1,099.99	1,100.24	1,100.24	3.70	3.71	169.24		30.04	29.99	43.73	36.32	7.41	5.901		
1,200.00	1,199.91	1,200.16	1,200.16	4.03	4.07	170.11		30.04	29.99	47.60	39.49	8.10	5.872		
1,266.67	1,266.45	1,266.70	1,266.70	4.26	4.31	170.88		30.04	29.99	51.61	43.04	8.57	6.022		
1,300.00	1,299.70	1,300.05	1,299.95	4.38	4.43	171.27		30.04	29.99	53.91	45.10	8.80	6.124		
1,400.00	1,399.46	1,400.29	1,399.71	4.72	4.79	172.27		30.04	29.99	60.81	51.31	9.50	6.399		
1,500.00	1,499.22	1,499.47	1,499.47	5.07	5.14	173.06		30.04	29.99	67.73	57.53	10.20	6.639		
1,600.00	1,598.97	1,600.53	1,600.51	5.43	5.50	172.96		30.21	28.68	73.78	62.88	10.90	6.768		
1,700.00	1,698.73	1,701.73	1,701.64	5.79	5.85	171.40		30.71	24.71	78.11	66.51	11.60	6.735		
1,800.00	1,798.48	1,802.47	1,802.17	6.15	6.20	168.64		31.53	18.28	80.95	68.65	12.30	6.583		
1,900.00	1,898.24	1,902.35	1,901.80	6.51	6.55	165.79		32.42	11.37	83.65	70.65	13.00	6.435		
2,000.00	1,998.00	2,002.23	2,001.44	6.87	6.91	163.12		33.30	4.46	86.55	72.84	13.71	6.314		
2,100.00	2,097.75	2,102.11	2,101.08	7.23	7.26	160.62		34.18	-2.45	89.62	75.20	14.42	6.215		
2,200.00	2,197.51	2,201.99	2,200.71	7.60	7.62	158.30		35.06	-9.36	92.86	77.72	15.13	6.135		
2,300.00	2,297.27	2,301.87	2,300.35	7.97	7.98	156.14		35.94	-16.27	96.23	80.38	15.85	6.070		
2,400.00	2,397.02	2,401.75	2,399.99	8.33	8.34	154.13		36.83	-23.18	99.73	83.16	16.57	6.018		
2,500.00	2,496.78	2,501.63	2,499.62	8.70	8.70	152.25		37.71	-30.10	103.35	86.05	17.30	5.975		
2,600.00	2,596.54	2,601.51	2,599.26	9.07	9.07	150.50		38.59	-37.01	107.07	89.05	18.02	5.941		
2,700.00	2,696.29	2,701.39	2,698.89	9.44	9.43	148.87		39.47	-43.92	110.88	92.13	18.75	5.914		
2,800.00	2,796.05	2,801.27	2,798.53	9.81	9.80	147.36		40.36	-50.83	114.78	95.30	19.48	5.893		
2,856.93	2,852.84	2,858.20	2,855.32	10.02	10.00	146.53		40.86	-54.78	117.03	97.14	19.89	5.883		
2,900.00	2,895.79	2,901.55	2,898.54	10.18	10.16	145.82		41.28	-58.11	118.86	98.65	20.21	5.881		
3,000.00	2,995.34	3,002.08	2,998.60	10.56	10.54	143.90		42.51	-67.72	124.28	103.32	20.96	5.930		
3,100.00	3,094.61	3,102.40	3,098.16	10.95	10.92	141.69		44.07	-79.90	131.38	109.66	21.72	6.050		
3,123.60	3,118.00	3,125.98	3,121.52	11.04	11.01	141.15		44.48	-83.13	133.31	111.41	21.90	6.088		
3,200.00	3,193.65	3,202.01	3,196.81	11.35	11.31	139.58		45.82	-93.63	139.80	117.31	22.49	6.217		
3,300.00	3,292.68	3,301.53	3,295.36	11.74	11.69	137.74		47.57	-107.37	148.44	125.18	23.26	6.382		
3,400.00	3,391.71	3,401.05	3,393.91	12.14	12.08	136.11		49.32	-121.11	157.21	133.17	24.04	6.540		
3,500.00	3,490.73	3,500.57	3,492.46	12.55	12.47	134.65		51.08	-134.84	166.09	141.27	24.82	6.692		
3,600.00	3,589.76	3,600.09	3,591.01	12.95	12.87	133.33		52.83	-148.58	175.07	149.47	25.60	6.838		
3,700.00	3,688.79	3,700.39	3,689.57	13.35	13.27	132.15		54.59	-162.32	184.14	157.74	26.39	6.977		
3,800.00	3,787.81	3,800.87	3,788.12	13.76	13.67	131.08		56.34	-176.06	193.27	166.08	27.19	7.109		
3,900.00	3,886.84	3,901.35	3,886.67	14.16	14.07	130.10		58.09	-189.80	202.47	174.48	27.99	7.235		
4,000.00	3,985.87	4,001.83	3,985.22	14.57	14.47	129.21		59.85	-203.54	211.72	182.93	28.79	7.355		
4,100.00	4,084.89	4,102.31	4,083.77	14.98	14.88	128.39		61.60	-217.28	221.01	191.43	29.59	7.470		
4,200.00	4,183.92	4,202.79	4,182.32	15.39	15.28	127.64		63.35	-231.02	230.35	199.96	30.39	7.580		
4,300.00	4,282.95	4,303.27	4,280.87	15.80	15.69	126.95		65.11	-244.76	239.72	208.53	31.20	7.685		
4,400.00	4,381.97	4,403.75	4,379.42	16.21	16.10	126.31		66.86	-258.50	249.13	217.13	32.00	7.785		
4,500.00	4,481.00	4,504.23	4,477.97	16.62	16.50	125.72		68.61	-272.23	258.56	225.75	32.81	7.881		
4,600.00	4,580.03	4,604.71	4,576.53	17.03	16.91	125.16		70.37	-285.97	268.02	234.40	33.62	7.972		
4,700.00	4,679.05	4,705.19	4,675.08	17.45	17.32	124.65		72.12	-299.71	277.50	243.07	34.43	8.060		
4,800.00	4,778.08	4,805.68	4,773.63	17.86	17.73	124.17		73.87	-313.45	287.01	251.76	35.24	8.144		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #121H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-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)				Between Centres (usft)	Between Ellipses (usft)	
4,900.00	4,877.11	4,893.84	4,872.18	18.27	18.09	123.72	75.63	-327.19	296.53	260.52	8.236			
4,992.19	4,968.40	4,986.04	4,963.51	18.66	18.47	123.37	77.22	-339.69	305.29	268.54	8.306			
5,000.00	4,976.14	4,993.90	4,971.30	18.69	18.50	123.37	77.35	-340.68	306.02	269.20	8.312			
5,100.00	5,075.36	5,094.63	5,071.39	19.09	18.90	123.32	78.79	-351.97	314.39	276.77	8.358			
5,200.00	5,174.87	5,195.55	5,171.92	19.49	19.29	123.33	79.90	-360.66	320.97	282.59	8.362			
5,300.00	5,274.61	5,296.59	5,272.78	19.86	19.66	123.39	80.67	-366.71	325.76	286.63	8.325			
5,400.00	5,374.50	5,397.71	5,373.84	20.22	20.02	123.51	81.11	-370.12	328.75	288.90	8.249			
5,500.00	5,474.48	5,501.39	5,474.73	20.57	20.37	123.68	81.21	-370.93	329.96	289.41	8.137			
5,525.52	5,500.00	5,524.13	5,500.25	20.65	20.44	-0.27	81.21	-370.93	330.00	289.29	8.106			
5,600.00	5,574.48	5,601.39	5,574.73	20.89	20.70	-0.27	81.21	-370.93	330.00	288.80	8.008			
5,700.00	5,674.48	5,701.39	5,674.73	21.21	21.04	-0.27	81.21	-370.93	330.00	288.14	7.882			
5,800.00	5,774.48	5,801.39	5,774.73	21.53	21.37	-0.27	81.21	-370.93	330.00	287.48	7.760			
5,900.00	5,874.48	5,901.39	5,874.73	21.85	21.71	-0.27	81.21	-370.93	330.00	286.81	7.641			
6,000.00	5,974.48	6,001.39	5,974.73	22.17	22.04	-0.27	81.21	-370.93	330.00	286.15	7.525			
6,100.00	6,074.48	6,101.39	6,074.73	22.49	22.38	-0.27	81.21	-370.93	330.00	285.49	7.413			
6,200.00	6,174.48	6,201.39	6,174.73	22.81	22.72	-0.27	81.21	-370.93	330.00	284.82	7.303			
6,300.00	6,274.48	6,301.39	6,274.73	23.14	23.06	-0.27	81.21	-370.93	330.00	284.15	7.197			
6,400.00	6,374.48	6,401.39	6,374.73	23.47	23.39	-0.27	81.21	-370.93	330.00	283.48	7.093			
6,500.00	6,474.48	6,501.39	6,474.73	23.79	23.73	-0.27	81.21	-370.93	330.00	282.81	6.992			
6,600.00	6,574.48	6,601.39	6,574.73	24.12	24.07	-0.27	81.21	-370.93	330.00	282.14	6.894			
6,700.00	6,674.48	6,701.39	6,674.73	24.45	24.41	-0.27	81.21	-370.93	330.00	281.46	6.798			
6,800.00	6,774.48	6,801.39	6,774.73	24.78	24.75	-0.27	81.21	-370.93	330.00	280.79	6.705			
6,900.00	6,874.48	6,901.39	6,874.73	25.11	25.10	-0.27	81.21	-370.93	330.00	280.11	6.614			
7,000.00	6,974.48	7,001.39	6,974.73	25.44	25.44	-0.27	81.21	-370.93	330.00	279.43	6.525			
7,100.00	7,074.48	7,101.39	7,074.73	25.77	25.78	-0.27	81.21	-370.93	330.00	278.75	6.439			
7,200.00	7,174.48	7,201.39	7,174.73	26.10	26.12	-0.27	81.21	-370.93	330.00	278.07	6.355			
7,300.00	7,274.48	7,301.39	7,274.73	26.44	26.47	-0.27	81.21	-370.93	330.00	277.39	6.273			
7,400.00	7,374.48	7,401.39	7,374.73	26.77	26.81	-0.27	81.21	-370.93	330.00	276.71	6.192			
7,500.00	7,474.48	7,501.39	7,474.73	27.11	27.15	-0.27	81.21	-370.93	330.00	276.03	6.114			
7,600.00	7,574.48	7,601.39	7,574.73	27.44	27.50	-0.27	81.21	-370.93	330.00	275.35	6.038			
7,700.00	7,674.48	7,701.39	7,674.73	27.78	27.84	-0.27	81.21	-370.93	330.00	274.66	5.963			
7,800.00	7,774.48	7,798.63	7,774.75	28.11	28.18	-0.26	81.21	-370.88	330.00	273.99	5.891			
7,836.58	7,811.06	7,835.23	7,811.31	28.24	28.29	0.02	81.21	-369.22	330.00	273.75	5.867			
7,900.00	7,874.48	7,897.68	7,873.18	28.45	28.47	1.45	81.21	-361.01	330.10	273.48	5.829			
8,000.00	7,974.48	7,990.72	7,962.81	28.79	28.71	5.00	81.20	-336.45	331.84	274.74	5.709			5.812 SF
8,100.00	8,074.48	8,074.00	8,038.75	29.12	28.91	11.47	81.18	-302.41	338.61	281.42	5.921			
8,200.00	8,174.48	8,146.07	8,099.88	29.46	29.06	17.66	81.16	-264.34	354.26	297.73	6.266			
8,300.00	8,274.48	8,207.21	8,147.66	29.80	29.20	23.45	81.15	-226.24	381.43	326.56	6.951			
8,400.00	8,374.48	8,258.63	8,184.51	30.14	29.32	28.48	81.13	-190.40	420.78	368.45	8.041			
8,500.00	8,474.48	8,300.00	8,211.73	30.48	29.42	32.49	81.12	-159.26	471.33	422.11	9.576			
8,600.00	8,574.48	8,338.22	8,234.83	30.82	29.54	36.10	81.11	-128.82	531.25	485.04	11.498			
8,700.00	8,674.48	8,369.08	8,251.96	31.16	29.63	38.90	81.09	-103.15	598.68	555.39	13.828			
8,800.00	8,774.48	8,400.00	8,267.71	31.50	29.74	41.59	81.08	-76.55	672.02	631.13	16.434			
8,900.00	8,874.48	8,418.12	8,276.27	31.84	29.81	43.11	81.08	-60.59	749.87	711.43	19.506			
9,000.00	8,974.48	8,437.78	8,284.98	32.18	29.88	44.70	81.07	-42.96	831.32	794.80	22.763			
9,100.00	9,074.48	8,450.00	8,290.09	32.53	29.93	45.66	81.06	-31.86	915.63	880.90	26.368			
9,191.76	9,166.24	8,468.87	8,297.51	32.84	30.02	47.09	81.06	-14.50	994.91	961.27	29.578			
9,200.00	9,174.48	8,470.07	8,297.96	32.87	30.02	-41.86	81.06	-13.40	1,002.09	968.56	29.884			
9,250.00	9,224.38	8,477.92	8,300.86	33.03	30.06	-36.13	81.05	-6.10	1,044.97	1,012.07	31.766			
9,300.00	9,273.84	8,500.00	8,308.48	33.17	30.16	-31.04	81.04	14.62	1,086.69	1,054.04	33.283			
9,350.00	9,322.47	8,500.00	8,308.48	33.31	30.16	-27.84	81.04	14.62	1,126.37	1,094.64	35.499			



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well#205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #121H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-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		
9,450.00	9,415.82	8,517.79	8,314.04	33.56	30.25	-22.69	81.04	31.52	1,200.58	1,170.18	30.39	39.502		
9,500.00	9,459.82	8,529.41	8,317.39	33.67	30.31	-20.78	81.03	42.64	1,234.57	1,204.77	29.80	41.433		
9,550.00	9,501.59	8,550.00	8,322.76	33.77	30.41	-19.11	81.02	62.52	1,266.37	1,236.96	29.41	43.059		
9,600.00	9,540.80	8,550.00	8,322.76	33.87	30.41	-17.97	81.02	62.52	1,295.61	1,267.01	28.60	45.301		
9,650.00	9,577.17	8,567.07	8,326.67	33.97	30.51	-16.87	81.02	79.13	1,322.39	1,294.21	28.18	46.923		
9,700.00	9,610.40	8,580.36	8,329.37	34.07	30.59	-15.99	81.01	92.15	1,346.58	1,318.85	27.73	48.562		
9,750.00	9,640.26	8,600.00	8,332.80	34.18	30.70	-15.24	81.00	111.49	1,368.10	1,340.68	27.42	49.886		
9,800.00	9,666.50	8,600.00	8,332.80	34.31	30.70	-14.72	81.00	111.49	1,386.84	1,359.93	26.91	51.544		
9,850.00	9,688.94	8,621.83	8,335.84	34.46	30.84	-14.22	80.99	133.10	1,402.63	1,375.87	26.76	52.421		
9,900.00	9,707.41	8,650.00	8,338.54	34.65	31.02	-13.83	80.98	161.14	1,415.83	1,389.11	26.72	52.982		
9,950.00	9,721.75	8,650.00	8,338.54	34.87	31.02	-13.59	80.98	161.14	1,425.63	1,399.11	26.52	53.762		
9,991.76	9,730.49	8,650.00	8,338.54	35.07	31.02	-13.44	80.98	161.14	1,431.91	1,405.44	26.47	54.087		
10,000.00	9,731.89	8,664.80	8,339.40	35.11	31.12	-13.41	80.97	175.91	1,432.71	1,406.16	26.55	53.972		
10,050.00	9,738.85	8,690.92	8,340.00	35.40	31.30	-13.31	80.96	202.03	1,438.05	1,411.35	26.71	53.847		
10,100.00	9,743.21	8,700.57	8,340.00	35.71	31.37	-13.26	80.96	211.68	1,441.74	1,414.84	26.90	53.601		
10,150.00	9,744.96	8,750.54	8,340.00	36.06	31.78	-13.22	80.94	261.64	1,443.44	1,416.22	27.22	53.031		
10,158.43	9,745.00	8,758.96	8,340.00	36.12	31.85	-13.22	80.93	270.07	1,443.48	1,416.20	27.28	52.923		
10,200.00	9,745.00	8,800.54	8,340.00	36.43	32.18	-13.22	80.92	311.64	1,443.48	1,415.92	27.56	52.375		
10,300.00	9,745.00	8,900.54	8,340.00	37.30	33.15	-13.22	80.87	411.64	1,443.48	1,415.14	28.34	50.933		
10,400.00	9,745.00	9,000.54	8,340.00	38.30	34.27	-13.22	80.83	511.64	1,443.48	1,414.26	29.22	49.395		
10,500.00	9,745.00	9,100.54	8,340.00	39.42	35.51	-13.22	80.79	611.64	1,443.48	1,413.28	30.20	47.800		
10,600.00	9,745.00	9,200.54	8,340.00	40.66	36.87	-13.22	80.74	711.64	1,443.48	1,412.22	31.26	46.181		
10,700.00	9,745.00	9,300.54	8,340.00	41.99	38.34	-13.22	80.70	811.64	1,443.48	1,411.09	32.39	44.563		
10,800.00	9,745.00	9,400.54	8,340.00	43.43	39.90	-13.22	80.66	911.64	1,443.48	1,409.88	33.59	42.968		
10,900.00	9,745.00	9,500.54	8,340.00	44.95	41.54	-13.22	80.61	1,011.64	1,443.48	1,408.62	34.86	41.410		
11,000.00	9,745.00	9,600.54	8,340.00	46.54	43.26	-13.22	80.57	1,111.64	1,443.48	1,407.30	36.18	39.901		
11,100.00	9,745.00	9,700.54	8,340.00	48.21	45.04	-13.22	80.53	1,211.64	1,443.48	1,405.93	37.54	38.448		
11,200.00	9,745.00	9,800.54	8,340.00	49.93	46.88	-13.22	80.48	1,311.64	1,443.48	1,404.52	38.95	37.056		
11,300.00	9,745.00	9,900.54	8,340.00	51.71	48.77	-13.22	80.44	1,411.64	1,443.48	1,403.07	40.40	35.726		
11,400.00	9,745.00	10,000.54	8,340.00	53.55	50.71	-13.22	80.40	1,511.64	1,443.48	1,401.59	41.89	34.459		
11,500.00	9,745.00	10,100.54	8,340.00	55.42	52.68	-13.22	80.35	1,611.64	1,443.48	1,400.07	43.41	33.255		
11,600.00	9,745.00	10,200.54	8,340.00	57.34	54.69	-13.22	80.31	1,711.64	1,443.48	1,398.53	44.95	32.112		
11,700.00	9,745.00	10,300.54	8,340.00	59.30	56.74	-13.22	80.27	1,811.64	1,443.48	1,396.96	46.52	31.028		
11,800.00	9,745.00	10,400.54	8,340.00	61.29	58.81	-13.22	80.23	1,911.64	1,443.48	1,395.36	48.11	30.001		
11,900.00	9,745.00	10,500.54	8,340.00	63.31	60.91	-13.22	80.18	2,011.64	1,443.48	1,393.75	49.73	29.027		
12,000.00	9,745.00	10,600.54	8,340.00	65.35	63.04	-13.22	80.14	2,111.64	1,443.48	1,392.12	51.36	28.104		
12,100.00	9,745.00	10,700.54	8,340.00	67.43	65.18	-13.22	80.10	2,211.64	1,443.48	1,390.46	53.01	27.229		
12,200.00	9,745.00	10,800.54	8,340.00	69.52	67.34	-13.22	80.05	2,311.64	1,443.48	1,388.80	54.68	26.399		
12,300.00	9,745.00	10,900.54	8,340.00	71.64	69.52	-13.22	80.01	2,411.64	1,443.48	1,387.12	56.36	25.612		
12,400.00	9,745.00	11,000.54	8,340.00	73.77	71.72	-13.22	79.97	2,511.64	1,443.48	1,385.42	58.05	24.865		
12,500.00	9,745.00	11,100.54	8,340.00	75.92	73.93	-13.22	79.92	2,611.64	1,443.48	1,383.72	59.76	24.155		
12,600.00	9,745.00	11,200.54	8,340.00	78.09	76.15	-13.22	79.88	2,711.64	1,443.48	1,382.00	61.47	23.481		
12,700.00	9,745.00	11,300.54	8,340.00	80.27	78.39	-13.22	79.84	2,811.64	1,443.48	1,380.28	63.20	22.839		
12,800.00	9,745.00	11,400.54	8,340.00	82.47	80.63	-13.22	79.79	2,911.64	1,443.48	1,378.54	64.94	22.229		
12,900.00	9,745.00	11,500.54	8,340.00	84.68	82.89	-13.22	79.75	3,011.64	1,443.48	1,376.80	66.68	21.648		
13,000.00	9,745.00	11,600.54	8,340.00	86.90	85.15	-13.22	79.71	3,111.64	1,443.48	1,375.04	68.43	21.093		
13,100.00	9,745.00	11,700.54	8,340.00	89.13	87.43	-13.22	79.66	3,211.64	1,443.48	1,373.29	70.19	20.565		
13,200.00	9,745.00	11,800.54	8,340.00	91.37	89.71	-13.22	79.62	3,311.64	1,443.48	1,371.52	71.96	20.060		
13,300.00	9,745.00	11,900.54	8,340.00	93.62	92.00	-13.22	79.58	3,411.64	1,443.48	1,369.75	73.73	19.578		
13,400.00	9,745.00	12,000.54	8,340.00	95.88	94.29	-13.22	79.53	3,511.64	1,443.48	1,367.97	75.51	19.117		
13,500.00	9,745.00	12,100.54	8,340.00	98.14	96.59	-13.22	79.49	3,611.64	1,443.48	1,366.19	77.29	18.676		
13,600.00	9,745.00	12,200.54	8,340.00	100.42	98.90	-13.22	79.45	3,711.64	1,443.48	1,364.40	79.08	18.253		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #121H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,700.00	9,745.00	12,300.54	8,340.00	102.70	101.21	-13.22	79.41	3,811.64	1,443.48	1,362.60	80.87	17.848		
13,800.00	9,745.00	12,400.54	8,340.00	104.98	103.53	-13.22	79.36	3,911.64	1,443.48	1,360.81	82.67	17.460		
13,900.00	9,745.00	12,500.54	8,340.00	107.27	105.86	-13.22	79.32	4,011.64	1,443.48	1,359.00	84.47	17.088		
14,000.00	9,745.00	12,600.54	8,340.00	109.57	108.18	-13.22	79.28	4,111.64	1,443.48	1,357.20	86.28	16.730		
14,100.00	9,745.00	12,700.54	8,340.00	111.88	110.51	-13.22	79.23	4,211.64	1,443.48	1,355.39	88.09	16.386		
14,200.00	9,745.00	12,800.54	8,340.00	114.19	112.85	-13.22	79.19	4,311.64	1,443.48	1,353.57	89.90	16.056		
14,300.00	9,745.00	12,900.54	8,340.00	116.50	115.19	-13.22	79.15	4,411.64	1,443.48	1,351.76	91.72	15.738		
14,400.00	9,745.00	13,000.54	8,340.00	118.82	117.53	-13.22	79.10	4,511.64	1,443.48	1,349.94	93.54	15.432		
14,500.00	9,745.00	13,100.54	8,340.00	121.14	119.88	-13.22	79.06	4,611.64	1,443.48	1,348.12	95.36	15.137		
14,600.00	9,745.00	13,200.54	8,340.00	123.46	122.23	-13.22	79.02	4,711.64	1,443.48	1,346.29	97.19	14.853		
14,616.79	9,745.00	13,217.33	8,340.00	123.86	122.62	-13.22	79.01	4,728.43	1,443.48	1,345.99	97.49	14.806		
14,618.22	9,745.00	13,216.38	8,340.00	123.89	122.60	-13.22	79.01	4,727.48	1,443.48	1,345.98	97.50	14.804		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #122H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-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	3.78	3.78	0.00	0.00	-159.23	-1,643.58	-623.50	1,757.87					
100.00	100.00	103.78	103.78	0.13	0.14	-159.23	-1,643.58	-623.50	1,757.87	1,757.60	0.27	6,557.618		
200.00	200.00	203.78	203.78	0.49	0.50	-159.23	-1,643.58	-623.50	1,757.87	1,756.89	0.99	1,784.624		
300.00	300.00	303.78	303.78	0.84	0.86	-159.23	-1,643.58	-623.50	1,757.87	1,756.17	1.70	1,032.856		
400.00	400.00	403.78	403.78	1.20	1.22	-159.23	-1,643.58	-623.50	1,757.87	1,755.45	2.42	726.725		
500.00	500.00	503.78	503.78	1.56	1.57	-159.23	-1,643.58	-623.50	1,757.87	1,754.73	3.14	560.574		
600.00	600.00	603.78	603.78	1.92	1.93	-159.23	-1,643.58	-623.50	1,757.87	1,754.02	3.85	456.260		
700.00	700.00	703.78	703.78	2.28	2.29	-159.23	-1,643.58	-623.50	1,757.87	1,753.30	4.57	384.678		
800.00	800.00	803.78	803.78	2.64	2.65	-159.23	-1,643.58	-623.50	1,757.87	1,752.58	5.29	332.510		
900.00	900.00	903.78	903.78	3.00	3.01	-159.23	-1,643.58	-623.50	1,757.87	1,751.87	6.00	292.802		
1,000.00	1,000.00	1,006.88	1,006.88	3.35	3.38	-159.23	-1,643.57	-623.50	1,757.87	1,751.14	6.73	261.138		
1,100.00	1,099.99	1,188.56	1,188.48	3.70	4.03	-35.37	-1,639.66	-620.99	1,754.29	1,746.57	7.72	227.194		
1,200.00	1,199.91	1,323.09	1,322.74	4.03	4.51	-35.61	-1,632.43	-616.37	1,744.71	1,736.18	8.53	204.464		
1,266.67	1,266.45	1,389.21	1,388.70	4.26	4.75	-35.79	-1,628.54	-613.88	1,736.87	1,727.87	9.00	193.078		
1,300.00	1,299.70	1,422.24	1,421.64	4.38	4.87	-35.85	-1,626.60	-612.64	1,732.71	1,723.49	9.23	187.790		
1,400.00	1,399.46	1,521.30	1,520.47	4.72	5.22	-36.03	-1,620.78	-608.92	1,720.26	1,710.34	9.92	173.375		
1,500.00	1,499.22	1,620.37	1,619.29	5.07	5.58	-36.22	-1,614.96	-605.19	1,707.83	1,697.21	10.62	160.795		
1,600.00	1,598.97	1,719.44	1,718.12	5.43	5.95	-36.41	-1,609.13	-601.47	1,695.41	1,684.09	11.32	149.727		
1,700.00	1,698.73	1,818.50	1,816.94	5.79	6.31	-36.61	-1,603.31	-597.75	1,683.02	1,670.99	12.03	139.923		
1,800.00	1,798.48	1,917.57	1,915.77	6.15	6.67	-36.80	-1,597.49	-594.02	1,670.64	1,657.91	12.74	131.182		
1,900.00	1,898.24	2,016.64	2,014.59	6.51	7.03	-37.00	-1,591.67	-590.30	1,658.29	1,644.84	13.44	123.345		
2,000.00	1,998.00	2,115.70	2,113.42	6.87	7.40	-37.20	-1,585.85	-586.58	1,645.95	1,631.79	14.15	116.282		
2,100.00	2,097.75	2,214.77	2,212.24	7.23	7.76	-37.41	-1,580.02	-582.85	1,633.63	1,618.77	14.87	109.884		
2,200.00	2,197.51	2,313.84	2,311.07	7.60	8.13	-37.62	-1,574.20	-579.13	1,621.34	1,605.76	15.58	104.064		
2,300.00	2,297.27	2,412.90	2,409.90	7.97	8.49	-37.83	-1,568.38	-575.41	1,609.06	1,592.77	16.29	98.748		
2,400.00	2,397.02	2,511.97	2,508.72	8.33	8.86	-38.04	-1,562.56	-571.68	1,596.81	1,579.80	17.01	93.875		
2,500.00	2,496.78	2,611.04	2,607.55	8.70	9.23	-38.26	-1,556.74	-567.96	1,584.58	1,566.86	17.73	89.392		
2,600.00	2,596.54	2,710.11	2,706.37	9.07	9.59	-38.48	-1,550.92	-564.24	1,572.38	1,553.93	18.44	85.254		
2,700.00	2,696.29	2,809.17	2,805.20	9.44	9.96	-38.71	-1,545.09	-560.51	1,560.19	1,541.03	19.16	81.424		
2,800.00	2,796.05	2,945.62	2,941.22	9.81	10.47	-39.03	-1,536.07	-554.74	1,547.33	1,527.35	19.98	77.433		
2,856.93	2,852.84	3,037.50	3,032.57	10.02	10.82	-39.28	-1,527.81	-549.46	1,538.41	1,517.93	20.48	75.121		
2,900.00	2,895.79	3,106.39	3,100.90	10.18	11.09	-39.57	-1,520.41	-544.73	1,530.63	1,509.78	20.85	73.424		
3,000.00	2,995.34	3,207.74	3,201.27	10.56	11.48	-40.16	-1,508.54	-537.14	1,510.08	1,488.51	21.57	69.992		
3,100.00	3,094.61	3,304.52	3,297.10	10.95	11.86	-40.83	-1,497.19	-529.88	1,487.65	1,465.35	22.30	66.714		
3,123.60	3,118.00	3,327.26	3,319.62	11.04	11.95	-41.00	-1,494.53	-528.17	1,482.09	1,459.62	22.47	65.956		
3,200.00	3,193.65	3,400.82	3,392.47	11.35	12.24	-41.39	-1,485.90	-522.66	1,463.95	1,440.92	23.03	63.581		
3,300.00	3,292.68	3,497.11	3,487.82	11.74	12.63	-41.92	-1,474.61	-515.44	1,440.31	1,416.56	23.75	60.637		
3,400.00	3,391.71	3,606.61	3,583.16	12.14	13.06	-42.46	-1,463.32	-508.22	1,416.79	1,392.26	24.53	57.752		
3,500.00	3,490.73	3,689.68	3,678.51	12.55	13.39	-43.02	-1,452.03	-501.00	1,393.40	1,368.18	25.22	55.256		
3,600.00	3,589.76	3,785.96	3,773.86	12.95	13.78	-43.60	-1,440.74	-493.78	1,370.14	1,344.19	25.95	52.791		
3,700.00	3,688.79	3,882.25	3,869.21	13.35	14.16	-44.20	-1,429.46	-486.56	1,347.02	1,320.33	26.69	50.462		
3,800.00	3,787.81	3,978.54	3,964.56	13.76	14.55	-44.82	-1,418.17	-479.34	1,324.05	1,296.61	27.44	48.258		
3,900.00	3,886.84	4,074.82	4,059.91	14.16	14.94	-45.46	-1,406.88	-472.12	1,301.23	1,273.05	28.18	46.171		
4,000.00	3,985.87	4,171.11	4,155.26	14.57	15.33	-46.12	-1,395.59	-464.90	1,278.58	1,249.64	28.93	44.192		
4,100.00	4,084.89	4,267.39	4,250.61	14.98	15.72	-46.80	-1,384.30	-457.68	1,256.09	1,226.41	29.69	42.314		
4,200.00	4,183.92	4,363.68	4,345.96	15.39	16.10	-47.51	-1,373.01	-450.46	1,233.79	1,203.35	30.44	40.530		
4,300.00	4,282.95	4,459.97	4,441.30	15.80	16.49	-48.25	-1,361.72	-443.24	1,211.68	1,180.48	31.20	38.834		
4,400.00	4,381.97	4,556.25	4,536.65	16.21	16.89	-49.01	-1,350.43	-436.02	1,189.77	1,157.81	31.97	37.221		
4,500.00	4,481.00	4,652.54	4,632.00	16.62	17.28	-49.80	-1,339.14	-428.80	1,168.08	1,135.34	32.73	35.685		
4,600.00	4,580.03	4,748.82	4,727.35	17.03	17.67	-50.62	-1,327.85	-421.58	1,146.60	1,113.10	33.50	34.222		
4,700.00	4,679.05	4,845.11	4,822.70	17.45	18.06	-51.47	-1,316.56	-414.36	1,125.37	1,091.09	34.28	32.828		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #122H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft
Survey Program: 0-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)					
4,900.00	4,877.11	5,037.68	5,013.40	18.27	18.85	-53.26	-1,293.99	-399.92	1,063.68	1,047.83	35.85	30.231	
4,992.19	4,968.40	5,126.45	5,101.30	18.66	19.21	-54.13	-1,283.58	-393.26	1,064.83	1,028.26	36.58	29.113	
5,000.00	4,976.14	5,133.97	5,108.75	18.69	19.24	-54.18	-1,282.70	-392.70	1,063.25	1,026.61	36.64	29.021	
5,100.00	5,075.36	5,230.64	5,204.48	19.09	19.63	-54.86	-1,271.36	-385.45	1,043.97	1,006.54	37.43	27.895	
5,200.00	5,174.87	5,311.75	5,284.88	19.49	19.96	-55.33	-1,262.39	-379.72	1,027.09	988.90	38.19	26.891	
5,300.00	5,274.61	5,391.89	5,364.54	19.86	20.28	-55.69	-1,254.94	-374.95	1,013.59	974.65	38.94	26.030	
5,400.00	5,374.50	5,472.89	5,445.21	20.22	20.59	-55.96	-1,248.83	-371.04	1,003.43	963.78	39.65	25.305	
5,500.00	5,474.48	5,554.49	5,526.61	20.57	20.89	-56.12	-1,244.14	-368.04	996.57	956.23	40.34	24.706	
5,525.52	5,500.00	5,575.38	5,547.48	20.65	20.97	179.89	-1,243.17	-367.42	995.34	954.84	40.51	24.573	
5,600.00	5,574.48	5,636.43	5,608.46	20.89	21.18	179.80	-1,240.90	-365.97	992.57	951.59	40.98	24.221	
5,700.00	5,674.48	5,718.49	5,690.50	21.21	21.47	179.74	-1,239.14	-364.84	990.43	948.83	41.60	23.807	
5,800.00	5,774.48	5,806.26	5,778.26	21.53	21.77	179.73	-1,238.79	-364.62	990.01	947.78	42.23	23.444	
5,900.00	5,874.48	5,906.26	5,878.26	21.85	22.10	179.73	-1,238.79	-364.62	990.01	947.11	42.90	23.077	
6,000.00	5,974.48	6,006.26	5,978.26	22.17	22.43	179.73	-1,238.79	-364.62	990.01	946.44	43.57	22.720	
6,100.00	6,074.48	6,106.26	6,078.26	22.49	22.77	179.73	-1,238.79	-364.62	990.01	945.76	44.25	22.373	
6,200.00	6,174.48	6,206.26	6,178.26	22.81	23.11	179.73	-1,238.79	-364.62	990.01	945.09	44.93	22.036	
6,300.00	6,274.48	6,306.26	6,278.26	23.14	23.44	179.73	-1,238.79	-364.62	990.01	944.41	45.60	21.709	
6,400.00	6,374.48	6,406.26	6,378.26	23.47	23.78	179.73	-1,238.79	-364.62	990.01	943.73	46.28	21.390	
6,500.00	6,474.48	6,506.26	6,478.26	23.79	24.12	179.73	-1,238.79	-364.62	990.01	943.05	46.96	21.081	
6,600.00	6,574.48	6,606.26	6,578.26	24.12	24.46	179.73	-1,238.79	-364.62	990.01	942.37	47.64	20.779	
6,700.00	6,674.48	6,706.26	6,678.26	24.45	24.80	179.73	-1,238.79	-364.62	990.01	941.69	48.33	20.486	
6,800.00	6,774.48	6,806.26	6,778.26	24.78	25.14	179.73	-1,238.79	-364.62	990.01	941.00	49.01	20.201	
6,900.00	6,874.48	6,906.26	6,878.26	25.11	25.48	179.73	-1,238.79	-364.62	990.01	940.32	49.69	19.923	
7,000.00	6,974.48	7,006.26	6,978.26	25.44	25.82	179.73	-1,238.79	-364.62	990.01	939.63	50.38	19.652	
7,100.00	7,074.48	7,106.26	7,078.26	25.77	26.16	179.73	-1,238.79	-364.62	990.01	938.95	51.06	19.388	
7,200.00	7,174.48	7,206.26	7,178.26	26.10	26.50	179.73	-1,238.79	-364.62	990.01	938.26	51.75	19.131	
7,300.00	7,274.48	7,306.26	7,278.26	26.44	26.84	179.73	-1,238.79	-364.62	990.01	937.57	52.44	18.880	
7,400.00	7,374.48	7,406.26	7,378.26	26.77	27.19	179.73	-1,238.79	-364.62	990.01	936.89	53.13	18.635	
7,500.00	7,474.48	7,506.26	7,478.26	27.11	27.53	179.73	-1,238.79	-364.62	990.01	936.20	53.81	18.397	
7,600.00	7,574.48	7,606.26	7,578.26	27.44	27.87	179.73	-1,238.79	-364.62	990.01	935.51	54.50	18.164	
7,700.00	7,674.48	7,706.26	7,678.26	27.78	28.22	179.73	-1,238.79	-364.62	990.01	934.82	55.19	17.937	
7,712.50	7,686.98	7,718.76	7,690.76	27.82	28.26	179.73	-1,238.79	-364.62	990.01	934.73	55.28	17.909 CC	
7,800.00	7,774.48	7,806.15	7,778.16	28.11	28.56	179.72	-1,238.79	-364.51	990.01	934.13	55.89	17.715	
7,900.00	7,874.48	7,903.93	7,875.28	28.45	28.91	179.13	-1,238.79	-354.30	990.12	933.53	56.60	17.495 ES	
8,000.00	7,974.48	7,995.74	7,963.66	28.79	29.26	177.71	-1,238.81	-329.83	990.91	933.58	57.33	17.284	
8,100.00	8,074.48	8,077.98	8,038.63	29.12	29.60	175.77	-1,238.82	-296.16	993.52	935.49	58.03	17.120	
8,200.00	8,174.48	8,150.00	8,099.73	29.46	29.92	173.59	-1,238.84	-258.14	999.36	940.73	58.63	17.045	
8,300.00	8,274.48	8,209.89	8,146.59	29.80	30.20	171.47	-1,238.85	-220.88	1,009.76	950.74	59.02	17.109	
8,400.00	8,374.48	8,260.98	8,183.30	30.14	30.46	169.47	-1,238.87	-185.38	1,025.73	966.59	59.13	17.346	
8,500.00	8,474.48	8,300.00	8,209.13	30.48	30.67	167.85	-1,238.88	-156.14	1,047.94	989.07	58.86	17.802	
8,600.00	8,574.48	8,340.28	8,233.63	30.82	30.91	166.09	-1,238.89	-124.19	1,076.65	1,018.25	58.40	18.434	
8,700.00	8,674.48	8,371.11	8,250.84	31.16	31.11	164.71	-1,238.90	-98.61	1,111.90	1,054.31	57.58	19.309	
8,800.00	8,774.48	8,400.00	8,265.70	31.50	31.30	163.38	-1,238.92	-73.83	1,153.43	1,096.86	56.57	20.390	
8,900.00	8,874.48	8,420.18	8,275.33	31.84	31.44	162.44	-1,238.92	-56.10	1,200.84	1,145.57	55.28	21.725	
9,000.00	8,974.48	8,450.00	8,288.40	32.18	31.66	161.05	-1,238.93	-29.30	1,253.77	1,199.66	54.11	23.169	
9,100.00	9,074.48	8,450.00	8,288.40	32.53	31.66	161.05	-1,238.93	-29.30	1,311.45	1,259.12	52.34	25.057	
9,191.76	9,166.24	8,471.09	8,296.79	32.84	31.82	160.05	-1,238.94	-9.95	1,368.25	1,317.09	51.16	26.744	
9,200.00	9,174.48	8,472.29	8,297.24	32.87	31.83	69.33	-1,238.94	-8.84	1,373.51	1,322.47	51.04	26.909	
9,250.00	9,224.38	8,480.17	8,300.18	33.03	31.89	65.19	-1,238.95	-1.53	1,405.23	1,354.92	50.32	27.927	
9,300.00	9,273.84	8,500.00	8,307.12	33.17	32.05	60.85	-1,238.95	17.04	1,436.60	1,386.78	49.81	28.840	
9,350.00	9,322.47	8,500.00	8,307.12	33.31	32.05	57.56	-1,238.95	17.04	1,466.98	1,418.07	48.91	29.991	
9,400.00	9,369.92	8,500.00	8,307.12	33.44	32.05	54.52	-1,238.95	17.04	1,496.59	1,448.57	48.02	31.164	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #122H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-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	Offset		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)				Between Centres (usft)	Between Ellipses (usft)	
9,450.00	9,415.82	8,520.08	8,313.50	33.56	32.22	51.21	-1,238.96	36.09	1,524.84	1,477.32		47.52	32.085	
9,500.00	9,459.82	8,531.70	8,316.88	33.67	32.32	48.49	-1,238.97	47.20	1,551.78	1,504.90		46.88	33.102	
9,550.00	9,501.59	8,550.00	8,321.74	33.77	32.48	45.96	-1,238.98	64.84	1,577.18	1,530.81		46.37	34.012	
9,600.00	9,540.80	8,550.00	8,321.74	33.87	32.48	44.07	-1,238.98	64.84	1,600.81	1,555.23		45.58	35.120	
9,650.00	9,577.17	8,569.34	8,326.27	33.97	32.66	42.12	-1,238.98	83.65	1,622.52	1,577.36		45.16	35.924	
9,700.00	9,610.40	8,582.63	8,329.01	34.07	32.78	40.54	-1,238.99	96.65	1,642.26	1,597.56		44.69	36.746	
9,750.00	9,640.26	8,600.00	8,332.14	34.18	32.94	39.15	-1,239.00	113.73	1,659.88	1,615.54		44.34	37.439	
9,800.00	9,666.50	8,600.00	8,332.14	34.31	32.94	38.14	-1,239.00	113.73	1,675.35	1,631.55		43.80	38.251	
9,850.00	9,688.94	8,624.05	8,335.61	34.46	33.17	37.14	-1,239.01	137.53	1,688.32	1,644.64		43.68	38.654	
9,900.00	9,707.41	8,650.00	8,338.23	34.65	33.43	36.34	-1,239.02	163.35	1,699.15	1,655.51		43.64	38.936	
9,950.00	9,721.75	8,650.00	8,338.23	34.87	33.43	35.86	-1,239.02	163.35	1,707.28	1,663.90		43.37	39.361	
9,991.76	9,730.49	8,650.00	8,338.23	35.07	33.43	35.55	-1,239.02	163.35	1,712.48	1,669.24		43.24	39.600	
10,000.00	9,731.89	8,666.96	8,339.31	35.11	33.60	35.49	-1,239.03	180.27	1,713.07	1,669.66		43.41	39.466	
10,050.00	9,738.85	8,695.04	8,340.00	35.40	33.89	35.29	-1,239.04	208.34	1,717.46	1,673.85		43.62	39.376	
10,100.00	9,743.21	8,702.19	8,340.00	35.71	33.97	35.18	-1,239.04	211.11	1,720.39	1,676.69		43.69	39.375	
10,150.00	9,744.96	8,747.77	8,340.00	36.06	34.48	35.10	-1,239.06	261.07	1,721.82	1,677.60		44.21	38.944	
10,158.43	9,745.00	8,756.20	8,340.00	36.12	34.58	35.10	-1,239.06	269.50	1,721.85	1,677.54		44.31	38.858	
10,200.00	9,745.00	8,802.23	8,340.00	36.43	35.10	35.10	-1,239.08	311.07	1,721.85	1,677.01		44.84	38.399	
10,300.00	9,745.00	8,902.23	8,340.00	37.30	36.35	35.10	-1,239.12	411.07	1,721.85	1,675.66		46.19	37.280	
10,400.00	9,745.00	9,002.23	8,340.00	38.30	37.72	35.10	-1,239.17	511.07	1,721.85	1,674.16		47.69	36.105	
10,500.00	9,745.00	9,102.23	8,340.00	39.42	39.20	35.10	-1,239.21	611.07	1,721.85	1,672.51		49.34	34.899	
10,600.00	9,745.00	9,202.23	8,340.00	40.66	40.76	35.10	-1,239.25	711.07	1,721.85	1,670.73		51.11	33.687	
10,700.00	9,745.00	9,302.23	8,340.00	41.99	42.40	35.10	-1,239.30	811.07	1,721.85	1,668.84		53.01	32.484	
10,800.00	9,745.00	9,402.23	8,340.00	43.43	44.12	35.10	-1,239.34	911.07	1,721.85	1,666.84		55.00	31.305	
10,900.00	9,745.00	9,502.23	8,340.00	44.95	45.90	35.10	-1,239.38	1,011.07	1,721.85	1,664.75		57.09	30.159	
11,000.00	9,745.00	9,602.23	8,340.00	46.54	47.74	35.10	-1,239.43	1,111.07	1,721.85	1,662.58		59.27	29.052	
11,100.00	9,745.00	9,702.23	8,340.00	48.21	49.63	35.10	-1,239.47	1,211.07	1,721.85	1,660.33		61.52	27.990	
11,200.00	9,745.00	9,802.23	8,340.00	49.93	51.56	35.10	-1,239.51	1,311.07	1,721.85	1,658.02		63.83	26.975	
11,300.00	9,745.00	9,902.23	8,340.00	51.71	53.53	35.10	-1,239.56	1,411.07	1,721.85	1,655.64		66.21	26.007	
11,400.00	9,745.00	10,002.23	8,340.00	53.55	55.54	35.10	-1,239.60	1,511.07	1,721.85	1,653.21		68.64	25.086	
11,500.00	9,745.00	10,102.23	8,340.00	55.42	57.58	35.10	-1,239.64	1,611.07	1,721.85	1,650.73		71.12	24.212	
11,600.00	9,745.00	10,202.23	8,340.00	57.34	59.65	35.10	-1,239.69	1,711.07	1,721.85	1,648.21		73.64	23.383	
11,700.00	9,745.00	10,302.23	8,340.00	59.30	61.75	35.10	-1,239.73	1,811.07	1,721.85	1,645.65		76.20	22.597	
11,800.00	9,745.00	10,402.23	8,340.00	61.29	63.87	35.10	-1,239.77	1,911.07	1,721.85	1,643.05		78.79	21.852	
11,900.00	9,745.00	10,502.23	8,340.00	63.31	66.01	35.10	-1,239.81	2,011.07	1,721.85	1,640.42		81.42	21.147	
12,000.00	9,745.00	10,602.23	8,340.00	65.35	68.17	35.10	-1,239.86	2,111.07	1,721.85	1,637.77		84.08	20.478	
12,100.00	9,745.00	10,702.23	8,340.00	67.43	70.34	35.10	-1,239.90	2,211.07	1,721.85	1,635.08		86.77	19.845	
12,200.00	9,745.00	10,802.23	8,340.00	69.52	72.54	35.10	-1,239.94	2,311.07	1,721.85	1,632.37		89.47	19.244	
12,300.00	9,745.00	10,902.23	8,340.00	71.64	74.74	35.10	-1,239.99	2,411.07	1,721.85	1,629.64		92.21	18.674	
12,400.00	9,745.00	11,002.23	8,340.00	73.77	76.96	35.10	-1,240.03	2,511.07	1,721.85	1,626.89		94.96	18.133	
12,500.00	9,745.00	11,102.23	8,340.00	75.92	79.19	35.10	-1,240.07	2,611.07	1,721.85	1,624.12		97.72	17.619	
12,600.00	9,745.00	11,202.23	8,340.00	78.09	81.44	35.10	-1,240.12	2,711.07	1,721.85	1,621.34		100.51	17.131	
12,700.00	9,745.00	11,302.23	8,340.00	80.27	83.69	35.10	-1,240.16	2,811.07	1,721.85	1,618.53		103.31	16.666	
12,800.00	9,745.00	11,402.23	8,340.00	82.47	85.95	35.10	-1,240.20	2,911.07	1,721.85	1,615.72		106.13	16.224	
12,900.00	9,745.00	11,502.23	8,340.00	84.68	88.22	35.10	-1,240.25	3,011.07	1,721.85	1,612.89		108.96	15.803	
13,000.00	9,745.00	11,602.23	8,340.00	86.90	90.50	35.10	-1,240.29	3,111.07	1,721.85	1,610.05		111.80	15.401	
13,100.00	9,745.00	11,702.23	8,340.00	89.13	92.79	35.10	-1,240.33	3,211.07	1,721.85	1,607.19		114.65	15.018	
13,200.00	9,745.00	11,802.23	8,340.00	91.37	95.08	35.10	-1,240.38	3,311.07	1,721.85	1,604.33		117.52	14.652	
13,300.00	9,745.00	11,902.23	8,340.00	93.62	97.38	35.10	-1,240.42	3,411.07	1,721.85	1,601.46		120.39	14.302	
13,400.00	9,745.00	12,002.23	8,340.00	95.88	99.68	35.10	-1,240.46	3,511.07	1,721.85	1,598.58		123.27	13.968	
13,500.00	9,745.00	12,102.23	8,340.00	98.14	101.99	35.10	-1,240.50	3,611.07	1,721.85	1,595.69		126.16	13.648	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #122H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)	Between Centres (usft)	Between Ellipses (usft)			
13,700.00	9,745.00	12,302.23	8,340.00	102.70	106.63	35.10	-1,240.59	3,811.07	1,721.85	1,589.88	131.97	13.048	
13,800.00	9,745.00	12,402.23	8,340.00	104.98	108.96	35.10	-1,240.63	3,911.07	1,721.85	1,586.97	134.88	12.766	
13,900.00	9,745.00	12,502.23	8,340.00	107.27	111.29	35.10	-1,240.68	4,011.07	1,721.85	1,584.05	137.80	12.495	
14,000.00	9,745.00	12,602.23	8,340.00	109.57	113.62	35.10	-1,240.72	4,111.07	1,721.85	1,581.12	140.72	12.236	
14,100.00	9,745.00	12,702.23	8,340.00	111.88	115.96	35.10	-1,240.76	4,211.07	1,721.85	1,578.19	143.65	11.986	
14,200.00	9,745.00	12,802.23	8,340.00	114.19	118.30	35.10	-1,240.81	4,311.07	1,721.85	1,575.26	146.59	11.746	
14,300.00	9,745.00	12,902.23	8,340.00	116.50	120.64	35.10	-1,240.85	4,411.07	1,721.85	1,572.31	149.53	11.515	
14,400.00	9,745.00	13,002.23	8,340.00	118.82	122.99	35.10	-1,240.89	4,511.07	1,721.85	1,569.37	152.48	11.292	
14,500.00	9,745.00	13,102.23	8,340.00	121.14	125.34	35.10	-1,240.94	4,611.07	1,721.85	1,566.42	155.43	11.078	
14,600.00	9,745.00	13,202.23	8,340.00	123.46	127.69	35.10	-1,240.98	4,711.07	1,721.85	1,563.46	158.38	10.871	
14,618.22	9,745.00	13,215.99	8,340.00	123.89	128.01	35.10	-1,240.99	4,729.29	1,721.85	1,562.99	158.86	10.839 SF	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #201H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00		0.10		0.00	0.00	-0.06	30.04	-0.03	30.04				
100.00	100.00	100.10	100.10	0.13	0.13	-0.06	30.04	-0.03	30.04	29.79	0.25	117.862		
200.00	200.00	200.10	200.10	0.49	0.49	-0.06	30.04	-0.03	30.04	29.07	0.97	30.911		
300.00	300.00	300.10	300.10	0.84	0.84	-0.06	30.04	-0.03	30.04	28.35	1.69	17.788		
400.00	400.00	400.10	400.10	1.20	1.20	-0.06	30.04	-0.03	30.04	27.63	2.41	12.487		
500.00	500.00	500.10	500.10	1.56	1.56	-0.06	30.04	-0.03	30.04	26.92	3.12	9.620		
600.00	600.00	600.10	600.10	1.92	1.92	-0.06	30.04	-0.03	30.04	26.20	3.84	7.824		
700.00	700.00	700.10	700.10	2.28	2.28	-0.06	30.04	-0.03	30.04	25.48	4.56	6.593		
800.00	800.00	800.10	800.10	2.64	2.64	-0.06	30.04	-0.03	30.04	24.77	5.27	5.696		
900.00	900.00	900.10	900.10	3.00	3.00	-0.06	30.04	-0.03	30.04	24.05	5.99	5.015		
1,000.00	1,000.00	1,000.10	1,000.10	3.35	3.35	-0.06	30.04	-0.03	30.04	23.33	6.71	4.479	CC, ES	
1,100.00	1,099.99	1,100.09	1,100.09	3.70	3.71	125.92	30.04	-0.03	30.79	23.38	7.41	4.155		
1,200.00	1,199.91	1,199.75	1,199.74	4.03	4.07	130.95	30.26	-0.24	33.44	25.33	8.10	4.126		
1,266.67	1,266.45	1,265.92	1,265.90	4.26	4.30	133.95	31.27	-1.22	37.05	28.48	8.56	4.326		
1,300.00	1,299.70	1,298.98	1,298.94	4.38	4.42	135.03	32.08	-2.01	39.34	30.54	8.79	4.472		
1,400.00	1,399.46	1,398.03	1,397.86	4.72	4.77	135.87	35.74	-5.56	47.21	37.72	9.49	4.976		
1,500.00	1,499.22	1,496.82	1,496.35	5.07	5.13	134.29	41.23	-10.88	56.55	46.37	10.18	5.553		
1,600.00	1,598.97	1,595.22	1,594.22	5.43	5.48	131.42	48.51	-17.93	67.49	56.61	10.88	6.203		
1,700.00	1,698.73	1,706.80	1,691.39	5.79	5.90	127.98	57.55	-26.70	80.21	68.59	11.62	6.900		
1,800.00	1,798.48	1,807.85	1,789.38	6.15	6.28	124.98	67.44	-36.28	93.90	81.56	12.35	7.605		
1,900.00	1,898.24	1,908.89	1,887.37	6.51	6.67	122.75	77.33	-45.87	107.78	94.70	13.07	8.243		
2,000.00	1,998.00	2,009.93	1,985.37	6.87	7.06	121.03	87.22	-55.45	121.78	107.97	13.81	8.821		
2,100.00	2,097.75	2,089.02	2,083.36	7.23	7.37	119.66	97.11	-65.04	135.86	121.41	14.46	9.397		
2,200.00	2,197.51	2,187.98	2,181.35	7.60	7.76	118.56	107.00	-74.62	150.01	134.82	15.19	9.878		
2,300.00	2,297.27	2,286.94	2,279.35	7.97	8.15	117.64	116.88	-84.21	164.20	148.28	15.92	10.316		
2,400.00	2,397.02	2,385.89	2,377.34	8.33	8.54	116.87	126.77	-93.79	178.43	161.78	16.65	10.716		
2,500.00	2,496.78	2,484.85	2,475.34	8.70	8.94	116.21	136.66	-103.38	192.68	175.30	17.38	11.083		
2,600.00	2,596.54	2,583.81	2,573.33	9.07	9.33	115.64	146.55	-112.97	206.96	188.84	18.12	11.421		
2,700.00	2,696.29	2,682.76	2,671.32	9.44	9.73	115.15	156.44	-122.55	221.25	202.39	18.86	11.732		
2,800.00	2,796.05	2,781.72	2,769.32	9.81	10.13	114.72	166.33	-132.14	235.55	215.96	19.60	12.020		
2,856.93	2,852.84	2,838.06	2,825.11	10.02	10.36	114.49	171.96	-137.59	243.71	223.69	20.02	12.175		
2,900.00	2,895.79	2,880.67	2,867.30	10.18	10.53	114.30	176.22	-141.72	249.97	229.64	20.34	12.291		
3,000.00	2,995.34	2,979.48	2,965.15	10.56	10.93	114.23	186.09	-151.29	265.29	244.20	21.09	12.581		
3,100.00	3,094.61	3,078.08	3,062.79	10.95	11.33	114.62	195.95	-160.84	281.68	259.83	21.85	12.894		
3,123.60	3,118.00	3,101.32	3,085.80	11.04	11.43	114.77	198.27	-163.09	285.71	263.68	22.03	12.971		
3,200.00	3,193.65	3,176.50	3,160.25	11.35	11.74	115.44	205.78	-170.38	298.88	276.26	22.61	13.217		
3,300.00	3,292.68	3,274.90	3,257.70	11.74	12.14	116.23	215.61	-179.91	316.17	292.79	23.38	13.522		
3,400.00	3,391.71	3,373.30	3,355.14	12.14	12.54	116.94	225.45	-189.44	333.52	309.37	24.15	13.809		
3,500.00	3,490.73	3,471.71	3,452.59	12.55	12.94	117.57	235.28	-198.97	350.91	325.99	24.92	14.079		
3,600.00	3,589.76	3,570.11	3,550.04	12.95	13.35	118.15	245.12	-208.50	368.34	342.64	25.70	14.334		
3,700.00	3,688.79	3,668.52	3,647.48	13.35	13.75	118.68	254.95	-218.04	385.80	359.33	26.47	14.574		
3,800.00	3,787.81	3,766.92	3,744.93	13.76	14.16	119.16	264.78	-227.57	403.30	376.05	27.25	14.802		
3,900.00	3,886.84	3,865.32	3,842.37	14.16	14.56	119.60	274.62	-237.10	420.81	392.79	28.02	15.017		
4,000.00	3,985.87	3,963.73	3,939.82	14.57	14.97	120.01	284.45	-246.63	438.35	409.55	28.80	15.221		
4,100.00	4,084.89	4,062.13	4,037.27	14.98	15.37	120.38	294.28	-256.16	455.91	426.34	29.58	15.414		
4,200.00	4,183.92	4,160.54	4,134.71	15.39	15.78	120.73	304.12	-265.69	473.49	443.13	30.36	15.598		
4,300.00	4,282.95	4,258.94	4,232.16	15.80	16.19	121.05	313.95	-275.23	491.08	459.95	31.14	15.773		
4,400.00	4,381.97	4,357.35	4,329.61	16.21	16.59	121.35	323.78	-284.76	508.69	476.77	31.92	15.939		
4,500.00	4,481.00	4,455.75	4,427.05	16.62	17.00	121.63	333.62	-294.29	526.31	493.61	32.70	16.097		
4,600.00	4,580.03	4,554.15	4,524.50	17.03	17.41	121.89	343.45	-303.82	543.94	510.46	33.48	16.248		
4,700.00	4,679.05	4,652.56	4,621.95	17.45	17.82	122.14	353.29	-313.35	561.58	527.32	34.26	16.393		
4,800.00	4,778.08	4,750.96	4,719.39	17.86	18.23	122.37	363.12	-322.89	579.23	544.19	35.04	16.530		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #201H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: O-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)						
4,900.00	4,877.11	4,849.37	4,816.84	18.27	18.63	122.58	372.95	-332.42	596.89	561.06	35.82	16.662		
4,992.19	4,968.40	4,940.08	4,906.67	18.66	19.01	122.77	382.02	-341.21	613.17	576.63	36.54	16.779		
5,000.00	4,976.14	4,947.77	4,914.29	18.69	19.04	122.80	382.79	-341.95	614.55	577.94	36.61	16.788		
5,100.00	5,075.36	5,057.34	5,022.93	19.09	19.49	123.16	392.95	-351.80	630.70	593.23	37.47	16.833		
5,200.00	5,174.87	5,170.10	5,135.12	19.49	19.93	123.45	401.09	-359.69	643.37	605.05	38.32	16.789		
5,300.00	5,274.61	5,283.55	5,248.28	19.86	20.35	123.67	406.88	-365.30	652.49	613.35	39.14	16.672		
5,400.00	5,374.50	5,397.46	5,362.08	20.22	20.75	123.84	410.26	-369.58	658.02	618.10	39.91	16.486		
5,500.00	5,474.48	5,509.96	5,474.58	20.57	21.13	123.94	411.22	-369.51	659.96	619.32	40.64	16.238		
5,525.52	5,500.00	5,535.49	5,500.10	20.65	21.21	-0.01	411.22	-369.51	660.01	619.20	40.81	16.171		
5,600.00	5,574.48	5,609.96	5,574.58	20.89	21.45	-0.01	411.22	-369.51	660.01	618.70	41.31	15.979		
5,700.00	5,674.48	5,709.96	5,674.58	21.21	21.78	-0.01	411.22	-369.51	660.01	618.04	41.97	15.727		
5,800.00	5,774.48	5,809.96	5,774.58	21.53	22.11	-0.01	411.22	-369.51	660.01	617.38	42.63	15.482		
5,900.00	5,874.48	5,909.96	5,874.58	21.85	22.44	-0.01	411.22	-369.51	660.01	616.71	43.30	15.244		
6,000.00	5,974.48	6,009.96	5,974.58	22.17	22.77	-0.01	411.22	-369.51	660.01	616.05	43.96	15.013		
6,100.00	6,074.48	6,109.96	6,074.58	22.49	23.10	-0.01	411.22	-369.51	660.01	615.38	44.63	14.788		
6,200.00	6,174.48	6,209.96	6,174.58	22.81	23.43	-0.01	411.22	-369.51	660.01	614.71	45.30	14.569		
6,300.00	6,274.48	6,309.96	6,274.58	23.14	23.76	-0.01	411.22	-369.51	660.01	614.04	45.97	14.356		
6,400.00	6,374.48	6,409.96	6,374.58	23.47	24.10	-0.01	411.22	-369.51	660.01	613.36	46.65	14.149		
6,500.00	6,474.48	6,509.96	6,474.58	23.79	24.43	-0.01	411.22	-369.51	660.01	612.69	47.32	13.948		
6,600.00	6,574.48	6,609.96	6,574.58	24.12	24.76	-0.01	411.22	-369.51	660.01	612.01	48.00	13.751		
6,700.00	6,674.48	6,709.96	6,674.58	24.45	25.10	-0.01	411.22	-369.51	660.01	611.34	48.67	13.560		
6,800.00	6,774.48	6,809.96	6,774.58	24.78	25.44	-0.01	411.22	-369.51	660.01	610.66	49.35	13.374		
6,900.00	6,874.48	6,909.96	6,874.58	25.11	25.77	-0.01	411.22	-369.51	660.01	609.98	50.03	13.192		
7,000.00	6,974.48	7,009.96	6,974.58	25.44	26.11	-0.01	411.22	-369.51	660.01	609.30	50.71	13.016		
7,100.00	7,074.48	7,109.96	7,074.58	25.77	26.45	-0.01	411.22	-369.51	660.01	608.62	51.39	12.843		
7,200.00	7,174.48	7,209.96	7,174.58	26.10	26.78	-0.01	411.22	-369.51	660.01	607.94	52.07	12.675		
7,300.00	7,274.48	7,309.96	7,274.58	26.44	27.12	-0.01	411.22	-369.51	660.01	607.26	52.75	12.511		
7,400.00	7,374.48	7,409.96	7,374.58	26.77	27.46	-0.01	411.22	-369.51	660.01	606.57	53.44	12.351		
7,500.00	7,474.48	7,509.96	7,474.58	27.11	27.80	-0.01	411.22	-369.51	660.01	605.89	54.12	12.195		
7,600.00	7,574.48	7,609.96	7,574.58	27.44	28.14	-0.01	411.22	-369.51	660.01	605.20	54.81	12.042		
7,700.00	7,674.48	7,709.96	7,674.58	27.78	28.48	-0.01	411.22	-369.51	660.01	604.52	55.49	11.893		
7,800.00	7,774.48	7,809.96	7,774.58	28.11	28.82	-0.01	411.22	-369.51	660.01	603.83	56.18	11.748		
7,900.00	7,874.48	7,909.96	7,874.58	28.45	29.17	-0.01	411.22	-369.51	660.01	603.14	56.87	11.606		
8,000.00	7,974.48	8,009.96	7,974.58	28.79	29.51	-0.01	411.22	-369.51	660.01	602.45	57.56	11.467		
8,100.00	8,074.48	8,109.96	8,074.58	29.12	29.85	-0.01	411.22	-369.51	660.01	601.76	58.25	11.331		
8,200.00	8,174.48	8,209.96	8,174.58	29.46	30.19	-0.01	411.22	-369.51	660.01	601.07	58.94	11.199		
8,300.00	8,274.48	8,309.96	8,274.58	29.80	30.54	-0.01	411.22	-369.51	660.01	600.38	59.63	11.069		
8,400.00	8,374.48	8,409.96	8,374.58	30.14	30.88	-0.01	411.22	-369.51	660.01	599.69	60.32	10.942		
8,500.00	8,474.48	8,509.96	8,474.58	30.48	31.22	-0.01	411.22	-369.51	660.01	599.00	61.01	10.818		
8,600.00	8,574.48	8,609.96	8,574.58	30.82	31.57	-0.01	411.22	-369.51	660.01	598.31	61.70	10.697		
8,700.00	8,674.48	8,709.96	8,674.58	31.16	31.91	-0.01	411.22	-369.51	660.01	597.62	62.39	10.578		
8,800.00	8,774.48	8,809.96	8,774.58	31.50	32.26	-0.01	411.22	-369.51	660.01	596.92	63.09	10.462		
8,900.00	8,874.48	8,909.96	8,874.58	31.84	32.60	-0.01	411.22	-369.51	660.01	596.23	63.78	10.348		
9,000.00	8,974.48	9,009.96	8,974.58	32.18	32.95	-0.01	411.22	-369.51	660.01	595.54	64.47	10.237		
9,100.00	9,074.48	9,109.96	9,074.58	32.53	33.29	-0.01	411.22	-369.51	660.01	594.84	65.17	10.128		
9,191.76	9,166.24	9,201.73	9,166.34	32.84	33.61	-0.01	411.22	-369.51	660.01	594.20	65.81	10.029		
9,200.00	9,174.48	9,209.97	9,174.58	32.87	33.64	-90.04	411.22	-369.45	660.01	594.15	65.86	10.021		
9,250.00	9,224.38	9,260.01	9,224.52	33.03	33.80	-90.04	411.22	-366.54	660.01	593.83	66.18	9.972		
9,300.00	9,273.84	9,310.04	9,274.01	33.17	33.94	-90.04	411.22	-359.28	660.01	593.53	66.48	9.927		
9,350.00	9,322.47	9,360.08	9,322.68	33.31	34.08	-90.03	411.21	-347.74	660.01	593.24	66.77	9.886		
9,400.00	9,369.92	9,410.11	9,370.16	33.44	34.20	-90.03	411.20	-331.99	660.01	592.98	67.03	9.847		
9,450.00	9,415.82	9,460.14	9,416.08	33.56	34.32	-90.03	411.20	-312.17	660.01	592.73	67.28	9.810		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #201H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft
Survey Program: 0-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	
9,500.00	9,459.82	9,510.17	9,460.09	33.67	34.42	-90.03	411.18	-288.42	660.01	592.49	67.52	9.775	
9,550.00	9,501.59	9,560.20	9,501.86	33.77	34.51	-90.03	411.17	-260.92	660.01	592.26	67.75	9.742	
9,600.00	9,540.80	9,610.23	9,541.08	33.87	34.60	-90.02	411.16	-229.89	660.01	592.03	67.98	9.709	
9,650.00	9,577.17	9,660.25	9,577.43	33.97	34.68	-90.02	411.14	-195.55	660.01	591.79	68.22	9.674	
9,700.00	9,610.40	9,710.27	9,610.66	34.07	34.76	-90.02	411.13	-158.18	660.01	591.53	68.48	9.638	
9,750.00	9,640.26	9,760.28	9,640.49	34.18	34.85	-90.01	411.11	-118.06	660.01	591.24	68.77	9.598	
9,800.00	9,666.50	9,810.29	9,666.71	34.31	34.96	-90.01	411.09	-75.49	660.01	590.92	69.08	9.554	
9,850.00	9,688.94	9,860.30	9,689.12	34.46	35.10	-90.01	411.07	-30.80	660.01	590.56	69.45	9.504	
9,900.00	9,707.41	9,910.31	9,707.55	34.65	35.27	-90.00	411.05	15.67	660.01	590.15	69.86	9.448	
9,950.00	9,721.75	9,960.31	9,721.86	34.87	35.48	-90.00	411.03	63.56	660.01	589.69	70.32	9.386	
9,991.76	9,730.49	10,002.07	9,730.57	35.07	35.69	-90.00	411.01	104.39	660.01	589.27	70.74	9.330	
10,000.00	9,731.89	10,010.31	9,731.96	35.11	35.73	-90.00	411.01	112.52	660.01	589.18	70.83	9.318	
10,050.00	9,738.85	10,060.31	9,738.90	35.40	36.01	-90.00	410.99	162.02	660.01	588.60	71.41	9.243	
10,100.00	9,743.21	10,110.31	9,743.24	35.71	36.33	-89.99	410.97	211.83	660.01	587.97	72.04	9.162	
10,150.00	9,744.96	10,160.30	9,744.97	36.06	36.67	-89.99	410.95	261.79	660.01	587.28	72.73	9.075	
10,158.43	9,745.00	10,168.73	9,745.00	36.12	36.73	-89.99	410.94	270.21	660.01	587.16	72.85	9.060	
10,200.00	9,745.00	10,210.30	9,745.00	36.43	37.05	-89.99	410.92	311.78	660.01	586.53	73.48	8.982	
10,300.00	9,745.00	10,310.30	9,745.00	37.30	37.91	-89.99	410.88	411.78	660.01	584.82	75.19	8.778	
10,400.00	9,745.00	10,410.30	9,745.00	38.30	38.90	-89.99	410.84	511.78	660.01	582.84	77.17	8.553	
10,500.00	9,745.00	10,510.30	9,745.00	39.42	40.01	-89.99	410.79	611.78	660.01	580.61	79.40	8.313	
10,600.00	9,745.00	10,610.30	9,745.00	40.66	41.24	-89.99	410.75	711.78	660.01	578.16	81.85	8.064	
10,700.00	9,745.00	10,710.30	9,745.00	41.99	42.56	-89.99	410.71	811.78	660.01	575.50	84.51	7.810	
10,800.00	9,745.00	10,810.30	9,745.00	43.43	43.98	-89.99	410.66	911.78	660.01	572.65	87.36	7.555	
10,900.00	9,745.00	10,910.30	9,745.00	44.95	45.49	-89.99	410.62	1,011.78	660.01	569.63	90.38	7.303	
11,000.00	9,745.00	11,010.30	9,745.00	46.54	47.07	-89.99	410.58	1,111.78	660.01	566.45	93.55	7.055	
11,100.00	9,745.00	11,110.30	9,745.00	48.21	48.72	-89.99	410.53	1,211.78	660.01	563.14	96.86	6.814	
11,200.00	9,745.00	11,210.30	9,745.00	49.93	50.43	-89.99	410.49	1,311.78	660.01	559.71	100.30	6.580	
11,300.00	9,745.00	11,310.30	9,745.00	51.71	52.20	-89.99	410.45	1,411.78	660.01	556.16	103.85	6.355	
11,400.00	9,745.00	11,410.30	9,745.00	53.55	54.02	-89.99	410.40	1,511.78	660.01	552.50	107.50	6.139	
11,500.00	9,745.00	11,510.30	9,745.00	55.42	55.88	-89.99	410.36	1,611.78	660.01	548.76	111.24	5.933	
11,600.00	9,745.00	11,610.30	9,745.00	57.34	57.79	-89.99	410.32	1,711.78	660.01	544.94	115.07	5.736	
11,700.00	9,745.00	11,710.30	9,745.00	59.30	59.73	-89.99	410.27	1,811.78	660.00	541.04	118.97	5.548	
11,800.00	9,745.00	11,810.30	9,745.00	61.29	61.71	-89.99	410.23	1,911.78	660.00	537.07	122.94	5.369	
11,900.00	9,745.00	11,910.30	9,745.00	63.31	63.72	-89.99	410.19	2,011.78	660.00	533.04	126.97	5.198	
12,000.00	9,745.00	12,010.30	9,745.00	65.35	65.76	-89.99	410.14	2,111.78	660.00	528.95	131.05	5.036	
12,100.00	9,745.00	12,110.30	9,745.00	67.43	67.82	-89.99	410.10	2,211.78	660.00	524.82	135.18	4.882	
12,200.00	9,745.00	12,210.30	9,745.00	69.52	69.90	-89.99	410.06	2,311.78	660.00	520.64	139.36	4.736	
12,300.00	9,745.00	12,310.30	9,745.00	71.64	72.01	-89.99	410.01	2,411.78	660.00	516.42	143.59	4.597	
12,400.00	9,745.00	12,410.30	9,745.00	73.77	74.14	-89.99	409.97	2,511.78	660.00	512.15	147.85	4.464	
12,500.00	9,745.00	12,510.30	9,745.00	75.92	76.28	-89.99	409.93	2,611.78	660.00	507.86	152.14	4.338	
12,600.00	9,745.00	12,610.30	9,745.00	78.09	78.44	-89.99	409.88	2,711.78	660.00	503.53	156.47	4.218	
12,700.00	9,745.00	12,710.30	9,745.00	80.27	80.61	-89.99	409.84	2,811.78	660.00	499.17	160.83	4.104	
12,800.00	9,745.00	12,810.30	9,745.00	82.47	82.80	-89.99	409.80	2,911.78	660.00	494.79	165.22	3.995	
12,900.00	9,745.00	12,910.30	9,745.00	84.68	85.00	-89.99	409.75	3,011.78	660.00	490.37	169.63	3.891	
13,000.00	9,745.00	13,010.30	9,745.00	86.90	87.22	-89.99	409.71	3,111.78	660.00	485.94	174.06	3.792	
13,100.00	9,745.00	13,110.30	9,745.00	89.13	89.44	-89.99	409.67	3,211.78	660.00	481.48	178.52	3.697	
13,200.00	9,745.00	13,210.30	9,745.00	91.37	91.67	-89.99	409.62	3,311.78	660.00	477.01	182.99	3.607	
13,300.00	9,745.00	13,310.30	9,745.00	93.62	93.92	-89.99	409.58	3,411.78	660.00	472.51	187.49	3.520	
13,400.00	9,745.00	13,410.30	9,745.00	95.88	96.17	-89.99	409.54	3,511.78	660.00	468.00	192.00	3.438	
13,500.00	9,745.00	13,510.30	9,745.00	98.14	98.43	-89.99	409.49	3,611.78	660.00	463.48	196.52	3.358	
13,600.00	9,745.00	13,610.30	9,745.00	100.42	100.70	-89.99	409.45	3,711.78	660.00	458.93	201.07	3.282	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #201H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-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		
13,800.00	9,745.00	13,810.30	9,745.00	104.98	105.26	-89.99	409.36	3,911.78	660.00	449.81	210.19	3.140		
13,900.00	9,745.00	13,910.30	9,745.00	107.27	107.54	-89.99	409.32	4,011.78	660.00	445.23	214.77	3.073		
14,000.00	9,745.00	14,010.30	9,745.00	109.57	109.84	-89.99	409.28	4,111.78	660.00	440.63	219.37	3.009		
14,100.00	9,745.00	14,110.30	9,745.00	111.88	112.14	-89.99	409.23	4,211.78	660.00	436.03	223.97	2.947		
14,200.00	9,745.00	14,210.30	9,745.00	114.19	114.44	-89.99	409.19	4,311.78	660.00	431.41	228.59	2.887		
14,300.00	9,745.00	14,310.30	9,745.00	116.50	116.75	-89.99	409.15	4,411.78	660.00	426.79	233.21	2.830		
14,400.00	9,745.00	14,410.30	9,745.00	118.82	119.07	-89.99	409.10	4,511.78	660.00	422.16	237.84	2.775		
14,500.00	9,745.00	14,510.30	9,745.00	121.14	121.38	-89.99	409.06	4,611.78	660.00	417.52	242.48	2.722		
14,600.00	9,745.00	14,610.30	9,745.00	123.46	123.71	-89.99	409.02	4,711.78	660.00	412.87	247.13	2.671		
14,615.74	9,745.00	14,626.04	9,745.00	123.83	124.07	-89.99	409.01	4,727.52	660.00	412.14	247.86	2.663 SF		
14,618.22	9,745.00	14,623.75	9,745.00	123.89	124.02	-89.99	409.01	4,725.23	660.02	412.15	247.87	2.663		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #202H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.90	2.90	0.00	0.00	-158.51	-1,583.61	-623.52	1,701.94					
100.00	100.00	102.90	102.90	0.13	0.14	-158.51	-1,583.61	-623.52	1,701.94	1,701.67	0.26	6,424.575		
200.00	200.00	202.90	202.90	0.49	0.50	-158.51	-1,583.61	-623.52	1,701.94	1,700.96	0.98	1,733.394		
300.00	300.00	302.90	302.90	0.84	0.85	-158.51	-1,583.61	-623.52	1,701.94	1,700.24	1.70	1,001.850		
400.00	400.00	402.90	402.90	1.20	1.21	-158.51	-1,583.61	-623.52	1,701.94	1,699.52	2.42	704.521		
500.00	500.00	502.90	502.90	1.56	1.57	-158.51	-1,583.61	-623.52	1,701.94	1,698.81	3.13	543.285		
600.00	600.00	602.90	602.90	1.92	1.93	-158.51	-1,583.61	-623.52	1,701.94	1,698.09	3.85	442.105		
700.00	700.00	702.90	702.90	2.28	2.29	-158.51	-1,583.61	-623.52	1,701.94	1,697.37	4.57	372.695		
800.00	800.00	802.90	802.90	2.64	2.65	-158.51	-1,583.61	-623.52	1,701.94	1,696.66	5.28	322.123		
900.00	900.00	902.90	902.90	3.00	3.01	-158.51	-1,583.61	-623.52	1,701.94	1,695.94	6.00	283.635		
1,000.00	1,000.00	1,005.23	1,005.23	3.35	3.37	-158.51	-1,583.61	-623.52	1,701.94	1,695.21	6.73	253.049		
1,100.00	1,099.99	1,185.33	1,185.25	3.70	4.02	-34.62	-1,579.41	-621.92	1,698.37	1,690.65	7.71	220.228		
1,200.00	1,199.91	1,363.93	1,363.38	4.03	4.66	-34.84	-1,567.42	-617.35	1,687.96	1,679.29	8.67	194.630		
1,266.67	1,266.45	1,481.48	1,480.21	4.26	5.09	-35.07	-1,555.29	-612.72	1,677.29	1,667.98	9.30	180.320		
1,300.00	1,299.70	1,539.70	1,537.91	4.38	5.30	-35.15	-1,548.04	-609.96	1,670.96	1,661.35	9.61	173.847		
1,400.00	1,399.46	1,634.91	1,632.19	4.72	5.66	-35.29	-1,535.67	-605.24	1,651.41	1,641.12	10.29	160.487		
1,500.00	1,499.22	1,732.90	1,729.23	5.07	6.04	-35.43	-1,522.92	-600.38	1,631.87	1,620.88	10.98	148.593		
1,600.00	1,598.97	1,830.89	1,826.26	5.43	6.42	-35.57	-1,510.18	-595.52	1,612.33	1,600.65	11.68	138.064		
1,700.00	1,698.73	1,928.88	1,923.30	5.79	6.80	-35.72	-1,497.44	-590.66	1,592.81	1,580.43	12.38	128.685		
1,800.00	1,798.48	2,026.88	2,020.34	6.15	7.18	-35.87	-1,484.70	-585.80	1,573.29	1,560.21	13.08	120.283		
1,900.00	1,898.24	2,124.87	2,117.38	6.51	7.57	-36.02	-1,471.95	-580.94	1,553.79	1,540.00	13.78	112.719		
2,000.00	1,998.00	2,222.86	2,214.42	6.87	7.96	-36.18	-1,459.21	-576.08	1,534.30	1,519.81	14.49	105.877		
2,100.00	2,097.75	2,320.85	2,311.46	7.23	8.35	-36.35	-1,446.47	-571.23	1,514.82	1,499.62	15.20	99.659		
2,200.00	2,197.51	2,418.84	2,408.49	7.60	8.74	-36.51	-1,433.72	-566.37	1,495.35	1,479.44	15.91	93.987		
2,300.00	2,297.27	2,516.84	2,505.53	7.97	9.14	-36.68	-1,420.98	-561.51	1,475.89	1,459.27	16.62	88.793		
2,400.00	2,397.02	2,614.83	2,602.57	8.33	9.53	-36.86	-1,408.24	-556.65	1,456.45	1,439.12	17.33	84.020		
2,500.00	2,496.78	2,712.82	2,699.61	8.70	9.93	-37.04	-1,395.50	-551.79	1,437.02	1,418.97	18.05	79.620		
2,600.00	2,596.54	2,810.81	2,796.65	9.07	10.33	-37.23	-1,382.75	-546.93	1,417.61	1,398.84	18.76	75.552		
2,700.00	2,696.29	2,913.93	2,898.76	9.44	10.75	-37.43	-1,369.32	-541.81	1,398.19	1,378.70	19.49	71.737		
2,800.00	2,796.05	3,067.00	3,049.79	9.81	11.39	-37.74	-1,346.06	-532.94	1,376.48	1,356.17	20.31	67.776		
2,856.93	2,852.84	3,152.86	3,134.02	10.02	11.76	-37.93	-1,330.55	-527.02	1,362.41	1,341.65	20.76	65.633		
2,900.00	2,895.79	3,217.03	3,196.73	10.18	12.05	-38.20	-1,317.80	-522.16	1,350.76	1,329.67	21.09	64.052		
3,000.00	2,995.34	3,323.79	3,300.68	10.56	12.54	-38.82	-1,295.07	-513.49	1,320.80	1,298.99	21.81	60.555		
3,100.00	3,094.61	3,418.18	3,392.55	10.95	12.98	-39.53	-1,274.85	-505.79	1,288.86	1,266.33	22.53	57.214		
3,123.60	3,118.00	3,440.33	3,414.11	11.04	13.08	-39.72	-1,270.11	-503.98	1,281.05	1,258.35	22.70	56.441		
3,200.00	3,193.65	3,511.98	3,483.85	11.35	13.41	-40.08	-1,254.77	-498.13	1,255.63	1,232.38	23.24	54.020		
3,300.00	3,292.68	3,605.77	3,575.14	11.74	13.85	-40.57	-1,234.68	-490.47	1,222.42	1,198.46	23.96	51.017		
3,400.00	3,391.71	3,700.45	3,666.43	12.14	14.30	-41.09	-1,214.60	-482.81	1,189.30	1,164.61	24.69	48.178		
3,500.00	3,490.73	3,806.67	3,757.71	12.55	14.80	-41.64	-1,194.51	-475.15	1,156.27	1,130.81	25.46	45.420		
3,600.00	3,589.76	3,887.11	3,849.00	12.95	15.18	-42.22	-1,174.43	-467.49	1,123.34	1,097.21	26.13	42.983		
3,700.00	3,688.79	3,980.90	3,940.29	13.35	15.63	-42.83	-1,154.34	-459.83	1,090.53	1,063.66	26.87	40.591		
3,800.00	3,787.81	4,074.68	4,031.57	13.76	16.07	-43.49	-1,134.26	-452.17	1,057.83	1,030.23	27.60	38.325		
3,900.00	3,886.84	4,168.46	4,122.86	14.16	16.52	-44.18	-1,114.17	-444.52	1,025.27	996.92	28.34	36.175		
4,000.00	3,985.87	4,262.25	4,214.14	14.57	16.97	-44.92	-1,094.09	-436.86	992.85	963.76	29.09	34.135		
4,100.00	4,084.89	4,356.03	4,305.43	14.98	17.43	-45.71	-1,074.01	-429.20	960.59	930.75	29.84	32.196		
4,200.00	4,183.92	4,449.81	4,396.72	15.39	17.88	-46.55	-1,053.92	-421.54	928.51	897.92	30.59	30.352		
4,300.00	4,282.95	4,543.59	4,488.00	15.80	18.33	-47.45	-1,033.84	-413.88	896.63	865.27	31.35	28.598		
4,400.00	4,381.97	4,637.38	4,579.29	16.21	18.79	-48.41	-1,013.75	-406.22	864.96	832.84	32.12	26.927		
4,500.00	4,481.00	4,722.84	4,662.53	16.62	19.20	-49.35	-995.63	-399.31	833.77	800.85	32.92	25.326		
4,600.00	4,580.03	4,800.96	4,738.91	17.03	19.57	-50.23	-980.36	-393.49	804.48	770.74	33.74	23.841		
4,700.00	4,679.05	4,880.14	4,816.66	17.45	19.93	-51.16	-966.37	-388.16	777.37	742.81	34.56	22.491		
4,800.00	4,778.08	4,960.32	4,895.69	17.86	20.28	-52.12	-953.74	-383.34	752.48	717.10	35.38	21.268		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #202H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-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	Offset		Between Centres (usft)	Between Ellipses (usft)						
4,900.00	4,877.11	5,041.45	4,975.93	18.27	20.62	-53.10	-942.54	-379.07	729.83	693.64	36.19	20.165		
4,992.19	4,968.40	5,117.05	5,050.91	18.66	20.93	-54.02	-933.54	-375.64	710.97	674.03	36.93	19.250		
5,000.00	4,976.14	5,123.49	5,057.31	18.69	20.96	-54.08	-932.84	-375.37	709.46	672.47	37.00	19.177		
5,100.00	5,075.36	5,206.62	5,139.98	19.09	21.28	-54.80	-924.68	-372.26	692.24	654.46	37.78	18.323		
5,200.00	5,174.87	5,290.86	5,223.93	19.49	21.59	-55.40	-918.12	-369.76	678.75	640.22	38.53	17.615		
5,300.00	5,274.61	5,375.96	5,308.86	19.86	21.89	-55.87	-913.26	-367.90	668.94	629.69	39.25	17.044		
5,400.00	5,374.50	5,461.66	5,394.50	20.22	22.18	-56.17	-910.15	-366.72	662.73	622.81	39.92	16.601		
5,500.00	5,474.48	5,547.70	5,480.52	20.57	22.46	-56.31	-908.84	-366.22	660.11	619.55	40.55	16.277		
5,525.52	5,500.00	5,570.08	5,502.90	20.65	22.53	179.73	-908.79	-366.20	660.01	619.30	40.71	16.213		
5,600.00	5,574.48	5,644.56	5,577.38	20.89	22.75	179.73	-908.79	-366.20	660.01	618.81	41.20	16.019		
5,700.00	5,674.48	5,744.56	5,677.38	21.21	23.06	179.73	-908.79	-366.20	660.01	618.14	41.86	15.766		
5,800.00	5,774.48	5,844.56	5,777.38	21.53	23.37	179.73	-908.79	-366.20	660.01	617.48	42.53	15.519		
5,900.00	5,874.48	5,944.56	5,877.38	21.85	23.68	179.73	-908.79	-366.20	660.01	616.81	43.20	15.280		
6,000.00	5,974.48	6,044.56	5,977.38	22.17	24.00	179.73	-908.79	-366.20	660.01	616.14	43.86	15.047		
6,100.00	6,074.48	6,144.56	6,077.38	22.49	24.31	179.73	-908.79	-366.20	660.01	615.48	44.53	14.821		
6,200.00	6,174.48	6,244.56	6,177.38	22.81	24.62	179.73	-908.79	-366.20	660.01	614.80	45.20	14.601		
6,300.00	6,274.48	6,344.56	6,277.38	23.14	24.94	179.73	-908.79	-366.20	660.01	614.13	45.88	14.387		
6,400.00	6,374.48	6,444.56	6,377.38	23.47	25.26	179.73	-908.79	-366.20	660.01	613.46	46.55	14.179		
6,500.00	6,474.48	6,544.56	6,477.38	23.79	25.58	179.73	-908.79	-366.20	660.01	612.78	47.22	13.976		
6,600.00	6,574.48	6,644.56	6,577.38	24.12	25.90	179.73	-908.79	-366.20	660.01	612.11	47.90	13.779		
6,700.00	6,674.48	6,744.56	6,677.38	24.45	26.22	179.73	-908.79	-366.20	660.01	611.43	48.58	13.587		
6,800.00	6,774.48	6,844.56	6,777.38	24.78	26.54	179.73	-908.79	-366.20	660.01	610.75	49.26	13.399		
6,900.00	6,874.48	6,944.56	6,877.38	25.11	26.86	179.73	-908.79	-366.20	660.01	610.07	49.94	13.217		
7,000.00	6,974.48	7,044.56	6,977.38	25.44	27.18	179.73	-908.79	-366.20	660.01	609.39	50.62	13.039		
7,100.00	7,074.48	7,144.56	7,077.38	25.77	27.51	179.73	-908.79	-366.20	660.01	608.71	51.30	12.866		
7,200.00	7,174.48	7,244.56	7,177.38	26.10	27.83	179.73	-908.79	-366.20	660.01	608.03	51.98	12.697		
7,300.00	7,274.48	7,344.56	7,277.38	26.44	28.16	179.73	-908.79	-366.20	660.01	607.34	52.66	12.532		
7,400.00	7,374.48	7,444.56	7,377.38	26.77	28.48	179.73	-908.79	-366.20	660.01	606.66	53.35	12.372		
7,500.00	7,474.48	7,544.56	7,477.38	27.11	28.81	179.73	-908.79	-366.20	660.01	605.97	54.03	12.215		
7,600.00	7,574.48	7,644.56	7,577.38	27.44	29.14	179.73	-908.79	-366.20	660.01	605.29	54.72	12.062		
7,700.00	7,674.48	7,744.56	7,677.38	27.78	29.47	179.73	-908.79	-366.20	660.01	604.60	55.41	11.912		
7,800.00	7,774.48	7,844.56	7,777.38	28.11	29.80	179.73	-908.79	-366.20	660.01	603.91	56.09	11.766		
7,900.00	7,874.48	7,944.56	7,877.38	28.45	30.13	179.73	-908.79	-366.20	660.01	603.23	56.78	11.624		
8,000.00	7,974.48	8,044.56	7,977.38	28.79	30.46	179.73	-908.79	-366.20	660.01	602.54	57.47	11.484		
8,100.00	8,074.48	8,144.56	8,077.38	29.12	30.79	179.73	-908.79	-366.20	660.01	601.85	58.16	11.348		
8,200.00	8,174.48	8,244.56	8,177.38	29.46	31.12	179.73	-908.79	-366.20	660.01	601.16	58.85	11.215		
8,300.00	8,274.48	8,344.56	8,277.38	29.80	31.45	179.73	-908.79	-366.20	660.01	600.47	59.54	11.085		
8,400.00	8,374.48	8,444.56	8,377.38	30.14	31.79	179.73	-908.79	-366.20	660.01	599.77	60.23	10.958		
8,500.00	8,474.48	8,544.56	8,477.38	30.48	32.12	179.73	-908.79	-366.20	660.01	599.08	60.93	10.833		
8,600.00	8,574.48	8,644.56	8,577.38	30.82	32.45	179.73	-908.79	-366.20	660.01	598.39	61.62	10.711		
8,700.00	8,674.48	8,744.56	8,677.38	31.16	32.79	179.73	-908.79	-366.20	660.01	597.70	62.31	10.592		
8,800.00	8,774.48	8,844.56	8,777.38	31.50	33.12	179.73	-908.79	-366.20	660.01	597.00	63.00	10.476		
8,900.00	8,874.48	8,944.56	8,877.38	31.84	33.46	179.73	-908.79	-366.20	660.01	596.31	63.70	10.361		
9,000.00	8,974.48	9,044.56	8,977.38	32.18	33.79	179.73	-908.79	-366.20	660.01	595.61	64.39	10.250		
9,100.00	9,074.48	9,144.56	9,077.38	32.53	34.13	179.73	-908.79	-366.20	660.01	594.92	65.09	10.140		
9,191.76	9,166.24	9,236.32	9,169.14	32.84	34.44	179.73	-908.79	-366.20	660.01	594.28	65.73	10.042		
9,200.00	9,174.48	9,244.49	9,177.31	32.87	34.47	89.70	-908.79	-366.09	660.01	594.22	65.78	10.033		
9,250.00	9,224.38	9,294.17	9,226.88	33.03	34.63	89.68	-908.79	-362.98	660.01	593.89	66.12	9.983		
9,300.00	9,273.84	9,343.84	9,275.98	33.17	34.81	89.66	-908.79	-355.59	660.01	593.56	66.45	9.933		
9,350.00	9,322.47	9,393.49	9,324.24	33.31	34.99	89.64	-908.80	-343.98	660.01	593.24	66.77	9.884		
9,400.00	9,369.92	9,443.13	9,371.30	33.44	35.17	89.63	-908.81	-328.25	660.01	592.91	67.10	9.836		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #202H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft
Survey Program: 0-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	
9,500.00	9,459.82	9,542.38	9,460.44	33.67	35.54	89.61	-908.83	-284.90	660.01	592.26	67.75	9.742	
9,550.00	9,501.59	9,591.99	9,501.86	33.77	35.73	89.61	-908.84	-257.61	660.01	591.93	68.09	9.694	
9,600.00	9,540.80	9,641.60	9,540.76	33.87	35.93	89.61	-908.85	-226.85	660.01	591.58	68.43	9.645	
9,650.00	9,577.17	9,691.21	9,576.86	33.97	36.14	89.61	-908.86	-192.84	660.01	591.22	68.80	9.594	
9,700.00	9,610.40	9,740.82	9,609.88	34.07	36.36	89.62	-908.88	-155.83	660.01	590.82	69.19	9.539	
9,750.00	9,640.26	9,790.44	9,639.57	34.18	36.59	89.62	-908.90	-116.10	660.01	590.40	69.61	9.481	
9,800.00	9,666.50	9,840.07	9,665.73	34.31	36.85	89.63	-908.92	-73.94	660.01	589.93	70.08	9.418	
9,850.00	9,688.94	9,889.71	9,688.15	34.46	37.14	89.65	-908.94	-29.66	660.01	589.42	70.59	9.350	
9,900.00	9,707.41	9,939.37	9,706.65	34.65	37.46	89.66	-908.96	16.40	660.01	588.86	71.15	9.276	
9,950.00	9,721.75	9,989.04	9,721.10	34.87	37.80	89.68	-908.98	63.91	660.01	588.24	71.77	9.196	
9,991.76	9,730.49	10,030.55	9,729.99	35.07	38.12	89.70	-908.99	104.44	660.01	587.68	72.33	9.126	
10,000.00	9,731.89	10,038.75	9,731.40	35.11	38.18	89.70	-909.00	112.52	660.01	587.57	72.44	9.111	
10,050.00	9,738.85	10,088.57	9,738.50	35.40	38.59	89.72	-909.02	161.83	660.01	586.84	73.17	9.020	
10,100.00	9,743.21	10,138.40	9,743.01	35.71	39.03	89.73	-909.04	211.45	660.01	586.05	73.95	8.925	
10,150.00	9,744.96	10,188.25	9,744.93	36.06	39.50	89.75	-909.06	261.25	660.01	585.22	74.79	8.825	
10,158.43	9,745.00	10,203.53	9,745.00	36.12	39.65	89.75	-909.06	269.64	660.00	585.00	75.00	8.800	
10,200.00	9,745.00	10,238.21	9,745.00	36.43	40.01	89.75	-909.08	311.21	660.00	584.31	75.69	8.719	
10,300.00	9,745.00	10,338.21	9,745.00	37.30	41.09	89.75	-909.13	411.21	660.00	582.33	77.68	8.497	
10,400.00	9,745.00	10,438.21	9,745.00	38.30	42.29	89.75	-909.17	511.21	660.00	580.10	79.91	8.260	
10,500.00	9,745.00	10,538.21	9,745.00	39.42	43.59	89.75	-909.21	611.21	660.00	577.64	82.36	8.013	
10,600.00	9,745.00	10,638.21	9,745.00	40.66	44.99	89.75	-909.25	711.21	660.00	574.98	85.02	7.763	
10,700.00	9,745.00	10,738.21	9,745.00	41.99	46.47	89.75	-909.30	811.21	660.00	572.13	87.87	7.511	
10,800.00	9,745.00	10,838.21	9,745.00	43.43	48.03	89.75	-909.34	911.21	660.00	569.11	90.89	7.261	
10,900.00	9,745.00	10,938.21	9,745.00	44.95	49.67	89.75	-909.38	1,011.21	660.00	565.94	94.06	7.016	
11,000.00	9,745.00	11,038.21	9,745.00	46.54	51.36	89.75	-909.43	1,111.21	660.00	562.63	97.38	6.778	
11,100.00	9,745.00	11,138.21	9,745.00	48.21	53.11	89.75	-909.47	1,211.21	660.00	559.19	100.81	6.547	
11,200.00	9,745.00	11,238.21	9,745.00	49.93	54.92	89.75	-909.51	1,311.21	660.00	555.64	104.36	6.324	
11,300.00	9,745.00	11,338.21	9,745.00	51.71	56.77	89.75	-909.56	1,411.21	660.00	551.99	108.01	6.111	
11,400.00	9,745.00	11,438.21	9,745.00	53.55	58.66	89.75	-909.60	1,511.21	660.00	548.25	111.75	5.906	
11,500.00	9,745.00	11,538.21	9,745.00	55.42	60.59	89.75	-909.64	1,611.21	660.00	544.43	115.58	5.711	
11,600.00	9,745.00	11,638.21	9,745.00	57.34	62.55	89.75	-909.69	1,711.21	660.00	540.53	119.48	5.524	
11,700.00	9,745.00	11,738.21	9,745.00	59.30	64.55	89.75	-909.73	1,811.21	660.00	536.56	123.44	5.347	
11,800.00	9,745.00	11,838.21	9,745.00	61.29	66.58	89.75	-909.77	1,911.21	660.00	532.53	127.47	5.178	
11,900.00	9,745.00	11,938.21	9,745.00	63.31	68.63	89.75	-909.82	2,011.21	660.00	528.45	131.55	5.017	
12,000.00	9,745.00	12,038.21	9,745.00	65.35	70.70	89.75	-909.86	2,111.21	660.00	524.32	135.69	4.864	
12,100.00	9,745.00	12,138.21	9,745.00	67.43	72.80	89.75	-909.90	2,211.21	660.00	520.14	139.87	4.719	
12,200.00	9,745.00	12,238.21	9,745.00	69.52	74.91	89.75	-909.94	2,311.21	660.00	515.92	144.09	4.581	
12,300.00	9,745.00	12,338.21	9,745.00	71.64	77.05	89.75	-909.99	2,411.21	660.00	511.66	148.35	4.449	
12,400.00	9,745.00	12,438.21	9,745.00	73.77	79.20	89.75	-910.03	2,511.21	660.00	507.36	152.64	4.324	
12,500.00	9,745.00	12,538.21	9,745.00	75.92	81.37	89.75	-910.07	2,611.21	660.00	503.03	156.97	4.205	
12,600.00	9,745.00	12,638.21	9,745.00	78.09	83.55	89.75	-910.12	2,711.21	660.00	498.68	161.33	4.091	
12,700.00	9,745.00	12,738.21	9,745.00	80.27	85.74	89.75	-910.16	2,811.21	660.00	494.29	165.71	3.983	
12,800.00	9,745.00	12,838.21	9,745.00	82.47	87.95	89.75	-910.20	2,911.21	660.00	489.88	170.12	3.880	
12,900.00	9,745.00	12,938.21	9,745.00	84.68	90.17	89.75	-910.25	3,011.21	660.00	485.45	174.56	3.781	
13,000.00	9,745.00	13,038.21	9,745.00	86.90	92.39	89.75	-910.29	3,111.21	660.00	480.99	179.01	3.687	
13,100.00	9,745.00	13,138.21	9,745.00	89.13	94.63	89.75	-910.33	3,211.21	660.00	476.52	183.49	3.597	
13,200.00	9,745.00	13,238.21	9,745.00	91.37	96.88	89.75	-910.38	3,311.21	660.00	472.03	187.98	3.511	
13,300.00	9,745.00	13,338.21	9,745.00	93.62	99.13	89.75	-910.42	3,411.21	660.00	467.52	192.49	3.429	
13,400.00	9,745.00	13,438.21	9,745.00	95.88	101.39	89.75	-910.46	3,511.21	660.00	462.99	197.02	3.350	
13,500.00	9,745.00	13,538.21	9,745.00	98.14	103.66	89.75	-910.51	3,611.21	660.00	458.45	201.56	3.275	
13,600.00	9,745.00	13,638.21	9,745.00	100.42	105.94	89.75	-910.55	3,711.21	660.00	453.89	206.11	3.202	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #202H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-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		
13,800.00	9,745.00	13,838.21	9,745.00	104.98	110.51	89.75	-910.64	3,911.21	660.00	444.74	215.26	3.066		
13,900.00	9,745.00	13,938.21	9,745.00	107.27	112.81	89.75	-910.68	4,011.21	660.00	440.15	219.85	3.002		
14,000.00	9,745.00	14,038.21	9,745.00	109.57	115.11	89.75	-910.72	4,111.21	660.00	435.55	224.46	2.940		
14,100.00	9,745.00	14,138.21	9,745.00	111.88	117.41	89.75	-910.76	4,211.21	660.00	430.93	229.07	2.881		
14,200.00	9,745.00	14,238.21	9,745.00	114.19	119.72	89.75	-910.81	4,311.21	660.00	426.31	233.69	2.824		
14,300.00	9,745.00	14,338.21	9,745.00	116.50	122.04	89.75	-910.85	4,411.21	660.00	421.68	238.33	2.769		
14,400.00	9,745.00	14,438.21	9,745.00	118.82	124.36	89.75	-910.89	4,511.21	660.00	417.04	242.97	2.716		
14,500.00	9,745.00	14,538.21	9,745.00	121.14	126.68	89.75	-910.94	4,611.21	660.00	412.39	247.61	2.665		
14,600.00	9,745.00	14,638.21	9,745.00	123.46	129.01	89.75	-910.98	4,711.21	660.00	407.74	252.27	2.616		
14,618.22	9,745.00	14,656.43	9,745.00	123.89	129.43	89.75	-910.99	4,729.44	660.00	406.89	253.12	2.608 CC, ES, SF		



Anticollision Report



Company: Matador Resources
 Project: Eddy County, New Mexico (NAD 27)
 Reference Site: Zach McCormick Federal 18-24S-29E RB
 Site Error: 0.00 usft
 Reference Well: #205H
 Well Error: 0.00 usft
 Reference Wellbore: Wellbore #1
 Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
 TVD Reference: WELL @ 2981.60usft (Patterson 297)
 MD Reference: WELL @ 2981.60usft (Patterson 297)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Conroe DB
 Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #206H - Wellbore #1 - Design #1												Offset Site Error: 0.00 usft	
Survey Program: 0-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	1.47	1.47	0.00	0.00	-159.90	-1,703.50	-623.54	1,814.03				
100.00	100.00	101.47	101.47	0.13	0.13	-159.90	-1,703.50	-623.54	1,814.03	1,813.77	0.26	6,982.832	
200.00	200.00	201.47	201.47	0.49	0.49	-159.90	-1,703.50	-623.54	1,814.03	1,813.06	0.98	1,857.255	
300.00	300.00	301.47	301.47	0.84	0.85	-159.90	-1,703.50	-623.54	1,814.03	1,812.34	1.69	1,071.066	
400.00	400.00	401.47	401.47	1.20	1.21	-159.90	-1,703.50	-623.54	1,814.03	1,811.62	2.41	752.519	
500.00	500.00	501.47	501.47	1.56	1.57	-159.90	-1,703.50	-623.54	1,814.03	1,810.91	3.13	580.016	
600.00	600.00	601.47	601.47	1.92	1.92	-159.90	-1,703.50	-623.54	1,814.03	1,810.19	3.84	471.851	
700.00	700.00	701.47	701.47	2.28	2.28	-159.90	-1,703.50	-623.54	1,814.03	1,809.47	4.56	397.688	
800.00	800.00	801.47	801.47	2.64	2.64	-159.90	-1,703.50	-623.54	1,814.03	1,808.75	5.28	343.672	
900.00	900.00	901.47	901.47	3.00	3.00	-159.90	-1,703.50	-623.54	1,814.03	1,808.04	6.00	302.574	
1,000.00	1,000.00	1,002.26	1,002.26	3.35	3.36	-159.90	-1,703.50	-623.54	1,814.03	1,807.32	6.72	270.146	
1,100.00	1,099.99	1,155.89	1,155.85	3.70	3.90	-36.06	-1,702.04	-620.71	1,811.45	1,803.85	7.60	238.309	
1,200.00	1,199.91	1,306.04	1,293.68	4.03	4.44	-36.40	-1,698.35	-613.58	1,803.93	1,795.47	8.46	213.126	
1,266.67	1,266.45	1,360.06	1,359.62	4.26	4.63	-36.64	-1,696.23	-609.49	1,797.26	1,788.37	8.88	202.311	
1,300.00	1,299.70	1,406.93	1,392.55	4.38	4.80	-36.73	-1,695.18	-607.44	1,793.70	1,784.53	9.16	195.736	
1,400.00	1,399.46	1,507.90	1,491.33	4.72	5.16	-37.02	-1,692.00	-601.31	1,783.04	1,773.17	9.87	180.714	
1,500.00	1,499.22	1,608.87	1,590.12	5.07	5.53	-37.31	-1,688.83	-595.17	1,772.43	1,761.85	10.57	167.618	
1,600.00	1,598.97	1,709.84	1,688.91	5.43	5.89	-37.60	-1,685.66	-589.03	1,761.86	1,750.58	11.29	156.114	
1,700.00	1,698.73	1,789.19	1,787.70	5.79	6.18	-37.90	-1,682.48	-582.90	1,751.34	1,739.42	11.92	146.895	
1,800.00	1,798.48	1,888.22	1,886.49	6.15	6.54	-38.20	-1,679.31	-576.76	1,740.87	1,728.24	12.63	137.804	
1,900.00	1,898.24	1,987.25	1,985.28	6.51	6.91	-38.50	-1,676.14	-570.63	1,730.45	1,717.10	13.35	129.662	
2,000.00	1,998.00	2,086.28	2,084.07	6.87	7.27	-38.81	-1,672.96	-564.49	1,720.07	1,706.01	14.06	122.331	
2,100.00	2,097.75	2,185.31	2,182.86	7.23	7.63	-39.12	-1,669.79	-558.35	1,709.75	1,694.97	14.78	115.698	
2,200.00	2,197.51	2,284.34	2,281.64	7.60	8.00	-39.43	-1,666.62	-552.22	1,699.47	1,683.98	15.50	109.670	
2,300.00	2,297.27	2,383.37	2,380.43	7.97	8.36	-39.75	-1,663.44	-546.08	1,689.25	1,673.03	16.22	104.170	
2,400.00	2,397.02	2,482.40	2,479.22	8.33	8.73	-40.07	-1,660.27	-539.95	1,679.08	1,662.14	16.94	99.134	
2,500.00	2,496.78	2,581.43	2,578.01	8.70	9.10	-40.40	-1,657.10	-533.81	1,668.96	1,651.30	17.66	94.505	
2,600.00	2,596.54	2,680.46	2,676.80	9.07	9.46	-40.73	-1,653.92	-527.67	1,658.90	1,640.52	18.38	90.238	
2,700.00	2,696.29	2,779.49	2,775.59	9.44	9.83	-41.06	-1,650.75	-521.54	1,648.90	1,629.79	19.11	86.292	
2,800.00	2,796.05	2,890.08	2,885.89	9.81	10.24	-41.45	-1,647.11	-514.50	1,638.85	1,618.98	19.87	82.477	
2,856.93	2,852.84	2,968.94	2,964.42	10.02	10.54	-41.76	-1,643.83	-508.16	1,632.42	1,612.07	20.35	80.201	
2,900.00	2,895.79	3,028.15	3,023.29	10.18	10.76	-42.09	-1,640.88	-502.45	1,626.89	1,606.17	20.72	78.521	
3,000.00	2,995.34	3,150.58	3,144.66	10.56	11.24	-42.96	-1,633.52	-488.22	1,611.25	1,589.72	21.53	74.844	
3,100.00	3,094.61	3,247.23	3,240.37	10.95	11.62	-43.81	-1,627.34	-476.27	1,593.42	1,571.14	22.27	71.535	
3,123.60	3,118.00	3,269.94	3,262.86	11.04	11.71	-44.02	-1,625.89	-473.47	1,588.97	1,566.52	22.45	70.771	
3,200.00	3,193.65	3,343.39	3,335.59	11.35	12.00	-44.57	-1,621.20	-464.39	1,574.50	1,551.47	23.03	68.380	
3,300.00	3,292.68	3,439.53	3,430.80	11.74	12.38	-45.31	-1,615.05	-452.50	1,555.79	1,532.01	23.78	65.425	
3,400.00	3,391.71	3,535.67	3,526.00	12.14	12.77	-46.06	-1,608.90	-440.62	1,537.34	1,512.80	24.54	62.650	
3,500.00	3,490.73	3,631.81	3,621.20	12.55	13.15	-46.83	-1,602.76	-428.73	1,519.17	1,493.86	25.30	60.043	
3,600.00	3,589.76	3,727.95	3,716.41	12.95	13.54	-47.62	-1,596.61	-416.85	1,501.28	1,475.21	26.07	57.589	
3,700.00	3,688.79	3,824.08	3,811.61	13.35	13.93	-48.42	-1,590.47	-404.96	1,483.68	1,456.84	26.84	55.278	
3,800.00	3,787.81	3,915.84	3,902.48	13.76	14.29	-49.21	-1,584.62	-393.67	1,466.43	1,438.83	27.60	53.124	
3,900.00	3,886.84	3,995.14	3,981.17	14.16	14.61	-49.86	-1,580.12	-384.95	1,450.30	1,421.97	28.33	51.187	
4,000.00	3,985.87	4,075.29	4,060.89	14.57	14.92	-50.48	-1,576.32	-377.62	1,435.58	1,406.52	29.06	49.404	
4,100.00	4,084.89	4,156.24	4,141.57	14.98	15.23	-51.05	-1,573.27	-371.72	1,422.23	1,392.45	29.78	47.762	
4,200.00	4,183.92	4,237.93	4,223.11	15.39	15.53	-51.59	-1,570.99	-367.31	1,410.20	1,379.71	30.49	46.251	
4,300.00	4,282.95	4,320.30	4,305.41	15.80	15.82	-52.07	-1,569.51	-364.43	1,399.46	1,368.27	31.20	44.859	
4,400.00	4,381.97	4,403.26	4,388.36	16.21	16.11	-52.50	-1,568.83	-363.13	1,389.97	1,358.08	31.90	43.578	
4,500.00	4,481.00	4,502.63	4,482.47	16.62	16.45	-52.93	-1,568.79	-363.05	1,381.43	1,348.79	32.64	42.324	
4,600.00	4,580.03	4,603.80	4,581.50	17.03	16.80	-53.39	-1,568.79	-363.05	1,373.03	1,339.65	33.39	41.123	
4,700.00	4,679.05	4,704.57	4,680.52	17.45	17.14	-53.86	-1,568.79	-363.05	1,364.73	1,330.59	34.14	39.974	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #206H - Wellbore #1 - Design #1											Offset Site Error: 0.00 usft		
Survey Program: 0-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
4,900.00	4,877.11	4,906.52	4,878.58	18.27	17.83	-54.81	-1,568.79	-363.05	1,348.39	1,312.75	35.65	37.825	
4,992.19	4,968.40	4,984.77	4,969.87	18.66	18.10	-55.25	-1,568.79	-363.05	1,340.99	1,304.70	36.29	36.948	
5,000.00	4,976.14	5,007.49	4,977.61	18.69	18.17	-55.28	-1,568.79	-363.05	1,340.37	1,303.97	36.40	36.819	
5,100.00	5,075.36	5,108.27	5,076.83	19.09	18.52	-55.63	-1,568.79	-363.05	1,333.29	1,296.14	37.15	35.886	
5,200.00	5,174.87	5,208.75	5,176.34	19.49	18.87	-55.91	-1,568.79	-363.05	1,327.75	1,289.86	37.89	35.042	
5,300.00	5,274.61	5,309.02	5,276.08	19.86	19.21	-56.12	-1,568.79	-363.05	1,323.72	1,285.10	38.61	34.281	
5,400.00	5,374.50	5,409.12	5,375.97	20.22	19.56	-56.25	-1,568.79	-363.05	1,321.16	1,281.84	39.32	33.597	
5,500.00	5,474.48	5,509.15	5,475.95	20.57	19.90	-56.31	-1,568.79	-363.05	1,320.06	1,280.04	40.02	32.986	
5,525.52	5,500.00	5,516.37	5,501.47	20.65	19.93	179.73	-1,568.79	-363.05	1,320.02	1,279.89	40.13	32.894	
5,600.00	5,574.48	5,609.15	5,575.95	20.89	20.25	179.73	-1,568.79	-363.05	1,320.02	1,279.32	40.69	32.439	
5,700.00	5,674.48	5,709.15	5,675.95	21.21	20.59	179.73	-1,568.79	-363.05	1,320.02	1,278.65	41.36	31.912	
5,800.00	5,774.48	5,809.15	5,775.95	21.53	20.94	179.73	-1,568.79	-363.05	1,320.02	1,277.98	42.04	31.401	
5,900.00	5,874.48	5,909.15	5,875.95	21.85	21.29	179.73	-1,568.79	-363.05	1,320.02	1,277.30	42.71	30.905	
6,000.00	5,974.48	6,009.15	5,975.95	22.17	21.63	179.73	-1,568.79	-363.05	1,320.02	1,276.63	43.39	30.424	
6,100.00	6,074.48	6,109.15	6,075.95	22.49	21.98	179.73	-1,568.79	-363.05	1,320.02	1,275.95	44.06	29.956	
6,200.00	6,174.48	6,209.15	6,175.95	22.81	22.33	179.73	-1,568.79	-363.05	1,320.02	1,275.27	44.74	29.502	
6,300.00	6,274.48	6,309.15	6,275.95	23.14	22.68	179.73	-1,568.79	-363.05	1,320.02	1,274.59	45.42	29.060	
6,400.00	6,374.48	6,409.15	6,375.95	23.47	23.03	179.73	-1,568.79	-363.05	1,320.02	1,273.91	46.10	28.631	
6,500.00	6,474.48	6,509.15	6,475.95	23.79	23.37	179.73	-1,568.79	-363.05	1,320.02	1,273.23	46.79	28.214	
6,600.00	6,574.48	6,609.15	6,575.95	24.12	23.72	179.73	-1,568.79	-363.05	1,320.02	1,272.55	47.47	27.808	
6,700.00	6,674.48	6,709.15	6,675.95	24.45	24.07	179.73	-1,568.79	-363.05	1,320.02	1,271.86	48.15	27.413	
6,800.00	6,774.48	6,809.15	6,775.95	24.78	24.42	179.73	-1,568.79	-363.05	1,320.02	1,271.18	48.84	27.029	
6,900.00	6,874.48	6,909.15	6,875.95	25.11	24.77	179.73	-1,568.79	-363.05	1,320.02	1,270.49	49.52	26.655	
7,000.00	6,974.48	7,009.15	6,975.95	25.44	25.12	179.73	-1,568.79	-363.05	1,320.02	1,269.81	50.21	26.290	
7,100.00	7,074.48	7,109.15	7,075.95	25.77	25.47	179.73	-1,568.79	-363.05	1,320.02	1,269.12	50.90	25.935	
7,200.00	7,174.48	7,209.15	7,175.95	26.10	25.82	179.73	-1,568.79	-363.05	1,320.02	1,268.43	51.59	25.589	
7,300.00	7,274.48	7,309.15	7,275.95	26.44	26.18	179.73	-1,568.79	-363.05	1,320.02	1,267.74	52.27	25.252	
7,400.00	7,374.48	7,409.15	7,375.95	26.77	26.53	179.73	-1,568.79	-363.05	1,320.02	1,267.05	52.96	24.923	
7,500.00	7,474.48	7,509.15	7,475.95	27.11	26.88	179.73	-1,568.79	-363.05	1,320.02	1,266.36	53.65	24.602	
7,600.00	7,574.48	7,609.15	7,575.95	27.44	27.23	179.73	-1,568.79	-363.05	1,320.02	1,265.67	54.35	24.289	
7,700.00	7,674.48	7,709.15	7,675.95	27.78	27.58	179.73	-1,568.79	-363.05	1,320.02	1,264.98	55.04	23.984	
7,800.00	7,774.48	7,809.15	7,775.95	28.11	27.93	179.73	-1,568.79	-363.05	1,320.02	1,264.29	55.73	23.686	
7,900.00	7,874.48	7,909.15	7,875.95	28.45	28.28	179.73	-1,568.79	-363.05	1,320.02	1,263.59	56.42	23.395	
8,000.00	7,974.48	8,009.15	7,975.95	28.79	28.64	179.73	-1,568.79	-363.05	1,320.02	1,262.90	57.12	23.111	
8,100.00	8,074.48	8,109.15	8,075.95	29.12	28.99	179.73	-1,568.79	-363.05	1,320.02	1,262.20	57.81	22.834	
8,200.00	8,174.48	8,209.15	8,175.95	29.46	29.34	179.73	-1,568.79	-363.05	1,320.02	1,261.51	58.50	22.562	
8,300.00	8,274.48	8,309.15	8,275.95	29.80	29.69	179.73	-1,568.79	-363.05	1,320.02	1,260.81	59.20	22.298	
8,400.00	8,374.48	8,409.15	8,375.95	30.14	30.05	179.73	-1,568.79	-363.05	1,320.02	1,260.12	59.90	22.038	
8,500.00	8,474.48	8,509.15	8,475.95	30.48	30.40	179.73	-1,568.79	-363.05	1,320.02	1,259.42	60.59	21.785	
8,600.00	8,574.48	8,609.15	8,575.95	30.82	30.75	179.73	-1,568.79	-363.05	1,320.02	1,258.73	61.29	21.538	
8,700.00	8,674.48	8,709.15	8,675.95	31.16	31.11	179.73	-1,568.79	-363.05	1,320.02	1,258.03	61.99	21.295	
8,800.00	8,774.48	8,809.15	8,775.95	31.50	31.46	179.73	-1,568.79	-363.05	1,320.02	1,257.33	62.68	21.058	
8,900.00	8,874.48	8,909.15	8,875.95	31.84	31.81	179.73	-1,568.79	-363.05	1,320.02	1,256.63	63.38	20.826	
9,000.00	8,974.48	9,009.15	8,975.95	32.18	32.17	179.73	-1,568.79	-363.05	1,320.02	1,255.93	64.08	20.599	
9,100.00	9,074.48	9,090.85	9,075.95	32.53	32.46	179.73	-1,568.79	-363.05	1,320.02	1,255.30	64.71	20.398	
9,191.76	9,166.24	9,182.61	9,167.71	32.84	32.78	179.73	-1,568.79	-363.05	1,320.02	1,254.66	65.36	20.197	
9,200.00	9,174.48	9,190.74	9,175.83	32.87	32.81	89.70	-1,568.79	-362.97	1,320.02	1,254.60	65.41	20.180	
9,250.00	9,224.38	9,240.14	9,225.13	33.03	32.99	89.70	-1,568.79	-360.02	1,320.02	1,254.27	65.75	20.077	
9,300.00	9,273.84	9,289.53	9,273.98	33.17	33.17	89.69	-1,568.79	-352.83	1,320.02	1,253.93	66.08	19.975	
9,350.00	9,322.47	9,338.93	9,322.04	33.31	33.36	89.70	-1,568.80	-341.46	1,320.02	1,253.60	66.42	19.875	
9,400.00	9,369.92	9,388.32	9,368.93	33.44	33.56	89.70	-1,568.81	-326.00	1,320.02	1,253.27	66.75	19.776	
9,450.00	9,415.82	9,437.72	9,414.22	33.56	33.77	89.70	-1,568.81	-306.55	1,320.01	1,252.93	67.08	19.678	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #206H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWVD													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)						
9,500.00	9,459.82	9,487.15	9,457.90	33.67	33.99	89.71	-1,568.82	-283.26	1,320.01	1,252.60	67.42	19.580		
9,550.00	9,501.59	9,536.58	9,499.31	33.77	34.21	89.72	-1,568.84	-256.29	1,320.01	1,252.26	67.76	19.481		
9,600.00	9,540.80	9,586.03	9,538.26	33.87	34.45	89.73	-1,568.85	-225.84	1,320.01	1,251.90	68.11	19.380		
9,650.00	9,577.17	9,635.51	9,574.46	33.97	34.71	89.75	-1,568.86	-192.13	1,320.01	1,251.53	68.48	19.275		
9,700.00	9,610.40	9,685.02	9,607.63	34.07	34.98	89.76	-1,568.88	-155.40	1,320.01	1,251.12	68.88	19.163		
9,750.00	9,640.26	9,734.56	9,637.53	34.18	35.27	89.78	-1,568.90	-115.92	1,320.01	1,250.69	69.32	19.043		
9,800.00	9,666.50	9,784.14	9,663.93	34.31	35.58	89.80	-1,568.91	-73.98	1,320.01	1,250.22	69.79	18.914		
9,850.00	9,688.94	9,833.75	9,686.61	34.46	35.92	89.82	-1,568.93	-29.87	1,320.00	1,249.69	70.31	18.774		
9,900.00	9,707.41	9,883.41	9,705.41	34.65	36.29	89.84	-1,568.95	16.07	1,320.00	1,249.12	70.88	18.622		
9,950.00	9,721.75	9,933.11	9,720.18	34.87	36.69	89.86	-1,568.97	63.51	1,320.00	1,248.49	71.51	18.460		
9,991.76	9,730.49	9,974.66	9,729.33	35.07	37.03	89.88	-1,568.99	104.03	1,320.00	1,247.93	72.07	18.316		
10,000.00	9,731.89	9,982.86	9,730.79	35.11	37.10	89.89	-1,568.99	112.10	1,320.00	1,247.82	72.18	18.287		
10,050.00	9,738.85	10,032.73	9,738.08	35.40	37.55	89.90	-1,569.02	161.43	1,320.00	1,247.08	72.92	18.102		
10,100.00	9,743.21	10,082.62	9,742.78	35.71	38.03	89.92	-1,569.04	211.10	1,320.00	1,246.29	73.71	17.907		
10,150.00	9,744.96	10,132.53	9,744.88	36.06	38.52	89.93	-1,569.06	260.95	1,320.00	1,245.44	74.55	17.705		
10,158.43	9,745.00	10,140.94	9,744.98	36.12	38.61	89.94	-1,569.06	269.37	1,320.00	1,245.30	74.70	17.670		
10,175.80	9,745.00	10,158.30	9,745.00	36.25	38.79	89.94	-1,569.07	286.73	1,320.00	1,244.98	75.01	17.597		
10,200.00	9,745.00	10,182.50	9,745.00	36.43	39.05	89.94	-1,569.08	310.93	1,320.00	1,244.54	75.45	17.494		
10,300.00	9,745.00	10,282.50	9,745.00	37.30	40.18	89.94	-1,569.12	410.93	1,320.00	1,242.54	77.46	17.042		
10,400.00	9,745.00	10,382.50	9,745.00	38.30	41.43	89.94	-1,569.17	510.93	1,320.00	1,240.30	79.70	16.563		
10,500.00	9,745.00	10,482.50	9,745.00	39.42	42.77	89.94	-1,569.21	610.93	1,320.00	1,237.84	82.16	16.066		
10,600.00	9,745.00	10,582.50	9,745.00	40.66	44.21	89.94	-1,569.25	710.93	1,320.00	1,235.16	84.83	15.560		
10,700.00	9,745.00	10,682.50	9,745.00	41.99	45.73	89.94	-1,569.30	810.93	1,320.00	1,232.30	87.69	15.052		
10,800.00	9,745.00	10,782.50	9,745.00	43.43	47.33	89.94	-1,569.34	910.93	1,320.00	1,229.27	90.72	14.550		
10,900.00	9,745.00	10,882.50	9,745.00	44.95	48.99	89.94	-1,569.38	1,010.93	1,320.00	1,226.09	93.91	14.057		
11,000.00	9,745.00	10,982.50	9,745.00	46.54	50.72	89.94	-1,569.43	1,110.93	1,320.00	1,222.77	97.23	13.577		
11,100.00	9,745.00	11,082.50	9,745.00	48.21	52.50	89.94	-1,569.47	1,210.93	1,320.00	1,219.33	100.67	13.112		
11,200.00	9,745.00	11,182.50	9,745.00	49.93	54.33	89.94	-1,569.51	1,310.93	1,320.00	1,215.77	104.23	12.664		
11,300.00	9,745.00	11,282.50	9,745.00	51.71	56.21	89.94	-1,569.56	1,410.93	1,320.00	1,212.11	107.89	12.235		
11,400.00	9,745.00	11,382.50	9,745.00	53.55	58.12	89.94	-1,569.60	1,510.93	1,320.00	1,208.36	111.64	11.824		
11,500.00	9,745.00	11,482.50	9,745.00	55.42	60.08	89.94	-1,569.64	1,610.93	1,320.00	1,204.53	115.47	11.432		
11,600.00	9,745.00	11,582.50	9,745.00	57.34	62.06	89.94	-1,569.68	1,710.93	1,320.00	1,200.62	119.37	11.058		
11,700.00	9,745.00	11,682.50	9,745.00	59.30	64.08	89.94	-1,569.73	1,810.93	1,320.00	1,196.65	123.35	10.702		
11,800.00	9,745.00	11,782.50	9,745.00	61.29	66.12	89.94	-1,569.77	1,910.93	1,320.00	1,192.62	127.38	10.363		
11,900.00	9,745.00	11,882.50	9,745.00	63.31	68.19	89.94	-1,569.81	2,010.93	1,320.00	1,188.53	131.47	10.040		
12,000.00	9,745.00	11,982.50	9,745.00	65.35	70.28	89.94	-1,569.86	2,110.93	1,320.00	1,184.39	135.61	9.734		
12,100.00	9,745.00	12,082.50	9,745.00	67.43	72.40	89.94	-1,569.90	2,210.93	1,320.00	1,180.21	139.79	9.443		
12,200.00	9,745.00	12,182.50	9,745.00	69.52	74.53	89.94	-1,569.94	2,310.93	1,320.00	1,175.98	144.02	9.166		
12,300.00	9,745.00	12,282.50	9,745.00	71.64	76.68	89.94	-1,569.99	2,410.93	1,320.00	1,171.71	148.28	8.902		
12,400.00	9,745.00	12,382.50	9,745.00	73.77	78.84	89.94	-1,570.03	2,510.93	1,320.00	1,167.42	152.58	8.651		
12,500.00	9,745.00	12,482.50	9,745.00	75.92	81.02	89.94	-1,570.07	2,610.93	1,320.00	1,163.08	156.91	8.412		
12,600.00	9,745.00	12,582.50	9,745.00	78.09	83.21	89.94	-1,570.12	2,710.93	1,320.00	1,158.72	161.27	8.185		
12,700.00	9,745.00	12,682.50	9,745.00	80.27	85.42	89.94	-1,570.16	2,810.93	1,320.00	1,154.33	165.66	7.968		
12,800.00	9,745.00	12,782.50	9,745.00	82.47	87.63	89.94	-1,570.20	2,910.93	1,320.00	1,149.92	170.08	7.761		
12,900.00	9,745.00	12,882.50	9,745.00	84.68	89.86	89.94	-1,570.24	3,010.93	1,320.00	1,145.48	174.51	7.564		
13,000.00	9,745.00	12,982.50	9,745.00	86.90	92.10	89.94	-1,570.29	3,110.93	1,320.00	1,141.03	178.97	7.375		
13,100.00	9,745.00	13,082.50	9,745.00	89.13	94.35	89.94	-1,570.33	3,210.93	1,320.00	1,136.55	183.45	7.195		
13,200.00	9,745.00	13,182.50	9,745.00	91.37	96.60	89.94	-1,570.37	3,310.93	1,320.00	1,132.05	187.94	7.023		
13,300.00	9,745.00	13,282.50	9,745.00	93.62	98.86	89.94	-1,570.42	3,410.93	1,320.00	1,127.54	192.46	6.859		
13,400.00	9,745.00	13,382.50	9,745.00	95.88	101.14	89.94	-1,570.46	3,510.93	1,320.00	1,123.01	196.99	6.701		
13,500.00	9,745.00	13,482.50	9,745.00	98.14	103.41	89.94	-1,570.50	3,610.93	1,320.00	1,118.47	201.53	6.550		
13,600.00	9,745.00	13,582.50	9,745.00	100.42	105.70	89.94	-1,570.55	3,710.93	1,320.00	1,113.91	206.09	6.405		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #206H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWVD													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		
13,700.00	9,745.00	13,682.50	9,745.00	102.70	107.99	89.94	-1,570.59	3,810.93	1,320.00	1,109.34	210.66	6.266		
13,800.00	9,745.00	13,782.50	9,745.00	104.98	110.28	89.94	-1,570.63	3,910.93	1,320.00	1,104.75	215.24	6.133		
13,900.00	9,745.00	13,882.50	9,745.00	107.27	112.59	89.94	-1,570.68	4,010.93	1,320.00	1,100.16	219.84	6.004		
14,000.00	9,745.00	13,982.50	9,745.00	109.57	114.89	89.94	-1,570.72	4,110.93	1,320.00	1,095.55	224.44	5.881		
14,100.00	9,745.00	14,082.50	9,745.00	111.88	117.20	89.94	-1,570.76	4,210.93	1,320.00	1,090.94	229.06	5.763		
14,200.00	9,745.00	14,182.50	9,745.00	114.19	119.52	89.94	-1,570.81	4,310.93	1,320.00	1,086.31	233.68	5.649		
14,300.00	9,745.00	14,282.50	9,745.00	116.50	121.84	89.94	-1,570.85	4,410.93	1,320.00	1,081.68	238.32	5.539		
14,400.00	9,745.00	14,382.50	9,745.00	118.82	124.16	89.94	-1,570.89	4,510.93	1,320.00	1,077.04	242.96	5.433		
14,500.00	9,745.00	14,482.50	9,745.00	121.14	126.49	89.94	-1,570.93	4,610.93	1,320.00	1,072.39	247.61	5.331		
14,600.00	9,745.00	14,582.50	9,745.00	123.46	128.82	89.94	-1,570.98	4,710.93	1,320.00	1,067.73	252.27	5.233		
14,618.22	9,745.00	14,600.73	9,745.00	123.89	129.25	89.94	-1,570.99	4,729.15	1,320.00	1,066.88	253.11	5.215 CC, ES, SF		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #221H - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-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)					
0.00	0.00	0.33	0.33	0.00	0.00	-44.96	30.09	-30.05	42.53				
100.00	100.00	100.33	100.33	0.13	0.13	-44.96	30.09	-30.05	42.53	42.27	0.26	166.311	
200.00	200.00	200.33	200.33	0.49	0.49	-44.96	30.09	-30.05	42.53	41.55	0.97	43.722	
300.00	300.00	300.33	300.33	0.84	0.85	-44.96	30.09	-30.05	42.53	40.84	1.69	25.169	
400.00	400.00	400.33	400.33	1.20	1.20	-44.96	30.09	-30.05	42.53	40.12	2.41	17.671	
500.00	500.00	500.33	500.33	1.56	1.56	-44.96	30.09	-30.05	42.53	39.40	3.12	13.615	
600.00	600.00	600.33	600.33	1.92	1.92	-44.96	30.09	-30.05	42.53	38.68	3.84	11.073	
700.00	700.00	700.33	700.33	2.28	2.28	-44.96	30.09	-30.05	42.53	37.97	4.56	9.331	
800.00	800.00	800.33	800.33	2.64	2.64	-44.96	30.09	-30.05	42.53	37.25	5.27	8.063	
900.00	900.00	900.33	900.33	3.00	3.00	-44.96	30.09	-30.05	42.53	36.53	5.99	7.098	
1,000.00	1,000.00	1,000.33	1,000.33	3.35	3.35	-44.96	30.09	-30.05	42.53	35.82	6.71	6.339 CC, ES	
1,100.00	1,099.99	1,099.22	1,099.21	3.70	3.71	80.33	30.81	-31.12	43.57	36.16	7.40	5.885	
1,200.00	1,199.91	1,198.00	1,197.91	4.03	4.05	83.97	32.96	-34.30	46.81	38.73	8.08	5.792 SF	
1,266.67	1,266.45	1,269.66	1,263.47	4.26	4.31	87.22	35.19	-37.58	50.34	41.78	8.56	5.882	
1,300.00	1,299.70	1,303.09	1,296.62	4.38	4.43	88.92	36.48	-39.50	52.45	43.66	8.79	5.966	
1,400.00	1,399.46	1,403.40	1,396.07	4.72	4.79	93.27	40.38	-45.27	59.01	49.51	9.49	6.215	
1,500.00	1,499.22	1,503.70	1,495.52	5.07	5.15	96.73	44.28	-51.03	65.84	55.64	10.20	6.452	
1,600.00	1,598.97	1,604.00	1,594.98	5.43	5.51	99.53	48.17	-56.79	72.87	61.95	10.92	6.674	
1,700.00	1,698.73	1,704.31	1,694.43	5.79	5.88	101.84	52.07	-62.55	80.04	68.40	11.64	6.878	
1,800.00	1,798.48	1,804.61	1,793.88	6.15	6.25	103.77	55.96	-68.31	87.31	74.96	12.36	7.066	
1,900.00	1,898.24	1,904.92	1,893.33	6.51	6.61	105.40	59.86	-74.07	94.67	81.59	13.08	7.238	
2,000.00	1,998.00	2,005.22	1,992.79	6.87	6.98	106.79	63.76	-79.83	102.10	88.29	13.81	7.395	
2,100.00	2,097.75	2,105.53	2,092.24	7.23	7.35	107.99	67.65	-85.59	109.58	95.04	14.53	7.539	
2,200.00	2,197.51	2,205.83	2,191.69	7.60	7.72	109.04	71.55	-91.35	117.10	101.84	15.26	7.672	
2,300.00	2,297.27	2,306.14	2,291.14	7.97	8.09	109.96	75.45	-97.11	124.65	108.66	15.99	7.794	
2,400.00	2,397.02	2,406.44	2,390.60	8.33	8.46	110.78	79.34	-102.87	132.23	115.51	16.72	7.907	
2,500.00	2,496.78	2,506.75	2,490.05	8.70	8.83	111.51	83.24	-108.63	139.84	122.38	17.46	8.011	
2,600.00	2,596.54	2,607.05	2,589.50	9.07	9.20	112.16	87.13	-114.39	147.47	129.28	18.19	8.107	
2,700.00	2,696.29	2,707.36	2,688.95	9.44	9.58	112.75	91.03	-120.15	155.11	136.19	18.92	8.197	
2,800.00	2,796.05	2,792.34	2,788.41	9.81	9.89	113.28	94.93	-125.91	162.77	143.17	19.60	8.304	
2,856.93	2,852.84	2,849.10	2,845.03	10.02	10.10	113.56	97.14	-129.19	167.14	147.12	20.02	8.349	
2,900.00	2,895.79	2,890.76	2,886.57	10.18	10.26	113.73	98.89	-131.78	170.69	150.37	20.32	8.398	
3,000.00	2,995.34	2,987.14	2,982.53	10.56	10.62	114.19	103.91	-139.20	180.97	159.93	21.04	8.602	
3,100.00	3,094.61	3,083.04	3,077.76	10.95	10.99	114.70	110.25	-148.57	194.06	172.30	21.75	8.920	
3,123.60	3,118.00	3,105.59	3,100.10	11.04	11.08	114.82	111.94	-151.07	197.55	175.63	21.92	9.011	
3,200.00	3,193.65	3,180.67	3,174.46	11.35	11.38	115.33	117.78	-159.71	209.27	186.77	22.50	9.300	
3,300.00	3,292.68	3,279.46	3,272.29	11.74	11.77	115.91	125.48	-171.10	224.64	201.37	23.27	9.654	
3,400.00	3,391.71	3,378.25	3,370.11	12.14	12.16	116.41	133.19	-182.49	240.04	216.00	24.04	9.985	
3,500.00	3,490.73	3,477.03	3,467.94	12.55	12.55	116.86	140.89	-193.87	255.44	230.63	24.81	10.296	
3,600.00	3,589.76	3,575.82	3,565.76	12.95	12.95	117.25	148.59	-205.26	270.86	245.28	25.58	10.587	
3,700.00	3,688.79	3,674.61	3,663.59	13.35	13.35	117.61	156.29	-216.65	286.30	259.94	26.36	10.861	
3,800.00	3,787.81	3,773.40	3,761.42	13.76	13.74	117.92	164.00	-228.04	301.74	274.60	27.14	11.119	
3,900.00	3,886.84	3,872.18	3,859.24	14.16	14.14	118.21	171.70	-239.43	317.19	289.27	27.92	11.363	
4,000.00	3,985.87	3,970.97	3,957.07	14.57	14.54	118.47	179.40	-250.82	332.65	303.95	28.70	11.592	
4,100.00	4,084.89	4,069.76	4,054.90	14.98	14.94	118.70	187.10	-262.20	348.11	318.63	29.48	11.810	
4,200.00	4,183.92	4,168.55	4,152.72	15.39	15.34	118.92	194.81	-273.59	363.58	333.32	30.26	12.015	
4,300.00	4,282.95	4,267.33	4,250.55	15.80	15.75	119.11	202.51	-284.98	379.05	348.01	31.04	12.210	
4,400.00	4,381.97	4,366.12	4,348.37	16.21	16.15	119.30	210.21	-296.37	394.53	362.70	31.83	12.396	
4,500.00	4,481.00	4,464.91	4,446.20	16.62	16.55	119.47	217.91	-307.76	410.01	377.39	32.61	12.572	
4,600.00	4,580.03	4,563.70	4,544.03	17.03	16.96	119.62	225.62	-319.15	425.49	392.09	33.40	12.739	
4,700.00	4,679.05	4,662.48	4,641.85	17.45	17.36	119.77	233.32	-330.54	440.98	406.79	34.19	12.899	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #221H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft
Survey Program: 0-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	
4,900.00	4,877.11	4,868.70	4,846.29	18.27	18.20	120.21	248.43	-352.87	470.98	435.14	35.84	13.142	
4,992.19	4,968.40	4,967.46	4,944.58	18.66	18.58	120.73	253.76	-360.75	482.90	446.29	36.61	13.191	
5,000.00	4,976.14	4,975.84	4,952.93	18.69	18.61	120.79	254.14	-361.33	483.84	447.16	36.67	13.193	
5,100.00	5,075.36	5,083.33	5,060.18	19.09	19.01	121.59	258.19	-367.31	494.31	456.83	37.48	13.188	
5,200.00	5,174.87	5,191.15	5,167.91	19.49	19.39	122.33	260.55	-370.80	501.82	463.56	38.26	13.116	
5,300.00	5,274.61	5,301.81	5,274.94	19.86	19.77	123.02	261.22	-371.79	506.35	467.34	39.01	12.979	
5,400.00	5,374.50	5,401.92	5,374.83	20.22	20.11	123.48	261.22	-371.79	508.87	469.17	39.71	12.815	
5,500.00	5,474.48	5,501.94	5,474.81	20.57	20.44	123.68	261.22	-371.79	509.97	469.57	40.39	12.625	
5,525.52	5,500.00	5,523.58	5,500.33	20.65	20.52	-0.27	261.22	-371.79	510.02	469.46	40.55	12.577	
5,600.00	5,574.48	5,601.94	5,574.81	20.89	20.78	-0.27	261.22	-371.79	510.02	468.96	41.06	12.421	
5,700.00	5,674.48	5,701.94	5,674.81	21.21	21.12	-0.27	261.22	-371.79	510.02	468.29	41.72	12.223	
5,800.00	5,774.48	5,801.94	5,774.81	21.53	21.45	-0.27	261.22	-371.79	510.02	467.62	42.39	12.031	
5,900.00	5,874.48	5,901.94	5,874.81	21.85	21.79	-0.27	261.22	-371.79	510.02	466.96	43.06	11.844	
6,000.00	5,974.48	6,001.94	5,974.81	22.17	22.13	-0.27	261.22	-371.79	510.02	466.29	43.73	11.663	
6,100.00	6,074.48	6,101.94	6,074.81	22.49	22.47	-0.27	261.22	-371.79	510.02	465.62	44.40	11.487	
6,200.00	6,174.48	6,201.94	6,174.81	22.81	22.81	-0.27	261.22	-371.79	510.02	464.94	45.07	11.315	
6,300.00	6,274.48	6,301.94	6,274.81	23.14	23.15	-0.27	261.22	-371.79	510.02	464.27	45.75	11.149	
6,400.00	6,374.48	6,401.94	6,374.81	23.47	23.49	-0.27	261.22	-371.79	510.02	463.59	46.42	10.986	
6,500.00	6,474.48	6,501.94	6,474.81	23.79	23.83	-0.27	261.22	-371.79	510.02	462.92	47.10	10.829	
6,600.00	6,574.48	6,601.94	6,574.81	24.12	24.17	-0.27	261.22	-371.79	510.02	462.24	47.78	10.675	
6,700.00	6,674.48	6,701.94	6,674.81	24.45	24.52	-0.27	261.22	-371.79	510.02	461.56	48.46	10.526	
6,800.00	6,774.48	6,801.94	6,774.81	24.78	24.86	-0.27	261.22	-371.79	510.02	460.88	49.13	10.380	
6,900.00	6,874.48	6,901.94	6,874.81	25.11	25.20	-0.27	261.22	-371.79	510.02	460.20	49.82	10.238	
7,000.00	6,974.48	7,001.94	6,974.81	25.44	25.55	-0.27	261.22	-371.79	510.02	459.52	50.50	10.100	
7,100.00	7,074.48	7,101.94	7,074.81	25.77	25.89	-0.27	261.22	-371.79	510.02	458.84	51.18	9.965	
7,200.00	7,174.48	7,201.94	7,174.81	26.10	26.24	-0.27	261.22	-371.79	510.02	458.15	51.86	9.834	
7,300.00	7,274.48	7,301.94	7,274.81	26.44	26.58	-0.27	261.22	-371.79	510.02	457.47	52.55	9.706	
7,400.00	7,374.48	7,401.94	7,374.81	26.77	26.93	-0.27	261.22	-371.79	510.02	456.78	53.23	9.581	
7,500.00	7,474.48	7,501.94	7,474.81	27.11	27.27	-0.27	261.22	-371.79	510.02	456.10	53.92	9.459	
7,600.00	7,574.48	7,601.94	7,574.81	27.44	27.62	-0.27	261.22	-371.79	510.02	455.41	54.61	9.340	
7,700.00	7,674.48	7,701.94	7,674.81	27.78	27.96	-0.27	261.22	-371.79	510.02	454.72	55.30	9.223	
7,800.00	7,774.48	7,801.94	7,774.81	28.11	28.31	-0.27	261.22	-371.79	510.02	454.03	55.98	9.110	
7,900.00	7,874.48	7,901.94	7,874.81	28.45	28.66	-0.27	261.22	-371.79	510.02	453.34	56.67	8.999	
8,000.00	7,974.48	8,001.94	7,974.81	28.79	29.00	-0.27	261.22	-371.79	510.02	452.65	57.36	8.891	
8,100.00	8,074.48	8,101.94	8,074.81	29.12	29.35	-0.27	261.22	-371.79	510.02	451.96	58.05	8.785	
8,200.00	8,174.48	8,201.94	8,174.81	29.46	29.70	-0.27	261.22	-371.79	510.02	451.27	58.75	8.682	
8,300.00	8,274.48	8,301.94	8,274.81	29.80	30.05	-0.27	261.22	-371.79	510.02	450.58	59.44	8.581	
8,400.00	8,374.48	8,401.94	8,374.81	30.14	30.40	-0.27	261.22	-371.79	510.02	449.89	60.13	8.482	
8,500.00	8,474.48	8,501.94	8,474.81	30.48	30.74	-0.27	261.22	-371.79	510.02	449.19	60.82	8.385	
8,600.00	8,574.48	8,601.94	8,574.81	30.82	31.09	-0.27	261.22	-371.79	510.02	448.50	61.52	8.291	
8,700.00	8,674.48	8,701.94	8,674.81	31.16	31.44	-0.27	261.22	-371.79	510.02	447.81	62.21	8.198	
8,800.00	8,774.48	8,801.94	8,774.81	31.50	31.79	-0.27	261.22	-371.79	510.02	447.11	62.90	8.108	
8,900.00	8,874.48	8,901.94	8,874.81	31.84	32.14	-0.27	261.22	-371.79	510.02	446.42	63.60	8.019	
9,000.00	8,974.48	9,001.94	8,974.81	32.18	32.49	-0.27	261.22	-371.79	510.02	445.72	64.30	7.932	
9,100.00	9,074.48	9,101.94	9,074.81	32.53	32.84	-0.27	261.22	-371.79	510.02	445.02	64.99	7.847	
9,191.76	9,166.24	9,189.82	9,166.57	32.84	33.15	-0.27	261.22	-371.79	510.02	444.40	65.62	7.773	
9,200.00	9,174.48	9,201.95	9,174.81	32.87	33.19	-90.30	261.22	-371.79	510.02	444.33	65.69	7.764	
9,250.00	9,224.38	9,247.96	9,224.71	33.03	33.35	-90.63	261.22	-371.79	510.04	444.03	66.01	7.727	
9,300.00	9,273.84	9,302.59	9,274.17	33.17	33.54	-91.42	261.22	-371.79	510.17	443.82	66.35	7.689	
9,350.00	9,322.47	9,346.05	9,322.80	33.31	33.69	-92.63	261.22	-371.79	510.59	443.94	66.65	7.661	
9,400.00	9,369.92	9,406.50	9,370.25	33.44	33.91	-94.20	261.22	-371.79	511.58	444.59	66.99	7.636	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #221H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft
Survey Program: 0-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	
9,500.00	9,459.82	9,483.40	9,460.15	33.67	34.18	-98.01	261.22	-371.79	516.81	449.31	67.50	7.656	
9,550.00	9,501.59	9,525.17	9,501.92	33.77	34.32	-100.01	261.22	-371.79	521.96	454.21	67.75	7.704	
9,600.00	9,540.80	9,564.38	9,541.13	33.87	34.46	-101.90	261.22	-371.79	529.42	461.43	67.98	7.787	
9,650.00	9,577.17	9,600.74	9,577.50	33.97	34.59	-103.55	261.22	-371.79	539.63	471.43	68.20	7.912	
9,700.00	9,610.40	9,633.98	9,610.73	34.07	34.70	-104.82	261.22	-371.79	552.96	484.56	68.40	8.084	
9,750.00	9,640.26	9,663.83	9,640.59	34.18	34.81	-105.62	261.22	-371.79	569.65	501.07	68.58	8.306	
9,800.00	9,666.50	9,709.92	9,666.83	34.31	34.97	-105.81	261.22	-371.79	589.83	521.02	68.81	8.572	
9,850.00	9,688.94	9,712.52	9,689.27	34.46	34.98	-105.31	261.22	-371.79	613.48	544.60	68.88	8.906	
9,900.00	9,707.41	9,730.98	9,707.74	34.65	35.04	-104.01	261.22	-371.79	640.46	571.46	69.01	9.281	
9,950.00	9,721.75	9,745.33	9,722.08	34.87	35.09	-101.81	261.22	-371.79	670.51	601.41	69.10	9.703	
9,991.76	9,730.49	9,754.07	9,730.82	35.07	35.12	-99.21	261.22	-371.79	697.71	628.54	69.17	10.087	
10,000.00	9,731.89	9,755.47	9,732.22	35.11	35.13	-98.91	261.22	-371.79	703.27	634.09	69.18	10.166	
10,050.00	9,738.85	9,762.43	9,739.18	35.40	35.15	-96.76	261.22	-371.79	738.23	669.00	69.23	10.663	
10,100.00	9,743.21	9,766.79	9,743.54	35.71	35.17	-94.00	261.22	-371.79	775.01	705.73	69.28	11.187	
10,150.00	9,744.96	9,768.54	9,745.29	36.06	35.18	-90.63	261.22	-371.79	813.29	743.98	69.31	11.734	
10,158.43	9,745.00	9,768.58	9,745.33	36.12	35.18	-90.00	261.22	-371.79	819.87	750.56	69.31	11.829	
10,200.00	9,745.00	9,768.58	9,745.33	36.43	35.18	-90.00	261.22	-371.79	852.81	783.49	69.33	12.301	
10,300.00	9,745.00	9,768.58	9,745.33	37.30	35.18	-90.00	261.22	-371.79	934.88	865.50	69.38	13.475	
10,400.00	9,745.00	9,768.58	9,745.33	38.30	35.18	-90.00	261.22	-371.79	1,020.15	950.72	69.43	14.694	
10,500.00	9,745.00	11,318.19	10,550.00	39.42	42.54	-140.65	410.55	611.75	1,040.57	983.68	56.89	18.292	
10,600.00	9,745.00	11,418.19	10,550.00	40.66	43.70	-140.65	410.52	711.75	1,040.57	982.07	58.50	17.787	
10,700.00	9,745.00	11,518.19	10,550.00	41.99	44.95	-140.65	410.48	811.75	1,040.58	980.33	60.25	17.271	
10,800.00	9,745.00	11,618.19	10,550.00	43.43	46.29	-140.65	410.44	911.75	1,040.58	978.45	62.13	16.750	
10,900.00	9,745.00	11,718.19	10,550.00	44.95	47.72	-140.65	410.40	1,011.75	1,040.58	976.47	64.12	16.230	
11,000.00	9,745.00	11,818.19	10,550.00	46.54	49.22	-140.65	410.37	1,111.75	1,040.59	974.38	66.21	15.717	
11,100.00	9,745.00	11,918.19	10,550.00	48.21	50.80	-140.65	410.33	1,211.75	1,040.59	972.19	68.40	15.214	
11,200.00	9,745.00	12,018.19	10,550.00	49.93	52.44	-140.65	410.29	1,311.75	1,040.59	969.92	70.67	14.724	
11,300.00	9,745.00	12,118.19	10,550.00	51.71	54.14	-140.65	410.25	1,411.75	1,040.60	967.57	73.03	14.250	
11,400.00	9,745.00	12,218.19	10,550.00	53.55	55.89	-140.65	410.22	1,511.75	1,040.60	965.15	75.45	13.792	
11,500.00	9,745.00	12,318.19	10,550.00	55.42	57.69	-140.65	410.18	1,611.75	1,040.61	962.67	77.94	13.352	
11,600.00	9,745.00	12,418.19	10,550.00	57.34	59.53	-140.65	410.14	1,711.75	1,040.61	960.12	80.48	12.929	
11,700.00	9,745.00	12,518.19	10,550.00	59.30	61.42	-140.65	410.10	1,811.75	1,040.61	957.53	83.08	12.525	
11,800.00	9,745.00	12,618.19	10,550.00	61.29	63.34	-140.65	410.07	1,911.75	1,040.62	954.88	85.73	12.138	
11,900.00	9,745.00	12,718.19	10,550.00	63.31	65.29	-140.65	410.03	2,011.75	1,040.62	952.20	88.42	11.769	
12,000.00	9,745.00	12,818.19	10,550.00	65.35	67.28	-140.65	409.99	2,111.75	1,040.62	949.47	91.15	11.416	
12,100.00	9,745.00	12,918.19	10,550.00	67.43	69.29	-140.65	409.95	2,211.75	1,040.63	946.70	93.92	11.080	
12,200.00	9,745.00	13,018.19	10,550.00	69.52	71.33	-140.65	409.92	2,311.75	1,040.63	943.91	96.72	10.759	
12,300.00	9,745.00	13,118.19	10,550.00	71.64	73.39	-140.65	409.88	2,411.75	1,040.63	941.08	99.55	10.453	
12,400.00	9,745.00	13,218.19	10,550.00	73.77	75.48	-140.65	409.84	2,511.75	1,040.64	938.22	102.41	10.161	
12,500.00	9,745.00	13,318.19	10,550.00	75.92	77.58	-140.65	409.80	2,611.75	1,040.64	935.34	105.30	9.883	
12,600.00	9,745.00	13,418.19	10,550.00	78.09	79.70	-140.65	409.77	2,711.75	1,040.64	932.44	108.21	9.617	
12,700.00	9,745.00	13,518.19	10,550.00	80.27	81.84	-140.65	409.73	2,811.75	1,040.65	929.51	111.14	9.364	
12,800.00	9,745.00	13,618.19	10,550.00	82.47	83.99	-140.65	409.69	2,911.75	1,040.65	926.56	114.09	9.121	
12,900.00	9,745.00	13,718.19	10,550.00	84.68	86.16	-140.65	409.65	3,011.75	1,040.66	923.60	117.06	8.890	
13,000.00	9,745.00	13,818.19	10,550.00	86.90	88.34	-140.64	409.62	3,111.75	1,040.66	920.61	120.05	8.669	
13,100.00	9,745.00	13,918.19	10,550.00	89.13	90.54	-140.64	409.58	3,211.75	1,040.66	917.61	123.05	8.457	
13,200.00	9,745.00	14,018.19	10,550.00	91.37	92.74	-140.64	409.54	3,311.75	1,040.67	914.60	126.07	8.255	
13,300.00	9,745.00	14,118.19	10,550.00	93.62	94.96	-140.64	409.50	3,411.75	1,040.67	911.57	129.10	8.061	
13,400.00	9,745.00	14,218.19	10,550.00	95.88	97.18	-140.64	409.47	3,511.75	1,040.67	908.53	132.14	7.875	
13,500.00	9,745.00	14,318.19	10,550.00	98.14	99.42	-140.64	409.43	3,611.75	1,040.68	905.48	135.20	7.697	
13,600.00	9,745.00	14,418.19	10,550.00	100.42	101.66	-140.64	409.39	3,711.75	1,040.68	902.42	138.26	7.527	
13,700.00	9,745.00	14,518.19	10,550.00	102.70	103.91	-140.64	409.35	3,811.75	1,040.68	899.34	141.34	7.363	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #221H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-MVVD													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		
13,800.00	9,745.00	14,618.19	10,550.00	104.98	106.17	-140.64	409.32	3,911.75	1,040.69	896.26	144.43	7.205		
13,900.00	9,745.00	14,718.19	10,550.00	107.27	108.44	-140.64	409.28	4,011.75	1,040.69	893.16	147.53	7.054		
14,000.00	9,745.00	14,818.19	10,550.00	109.57	110.71	-140.64	409.24	4,111.75	1,040.69	890.06	150.63	6.909		
14,100.00	9,745.00	14,918.19	10,550.00	111.88	112.99	-140.64	409.20	4,211.75	1,040.70	886.95	153.75	6.769		
14,200.00	9,745.00	15,018.19	10,550.00	114.19	115.28	-140.64	409.17	4,311.75	1,040.70	883.84	156.87	6.634		
14,300.00	9,745.00	15,118.19	10,550.00	116.50	117.57	-140.64	409.13	4,411.75	1,040.71	880.71	160.00	6.505		
14,400.00	9,745.00	15,218.19	10,550.00	118.82	119.86	-140.64	409.09	4,511.75	1,040.71	877.58	163.13	6.380		
14,500.00	9,745.00	15,318.19	10,550.00	121.14	122.16	-140.64	409.05	4,611.75	1,040.71	874.44	166.27	6.259		
14,600.00	9,745.00	15,418.19	10,550.00	123.46	124.47	-140.64	409.02	4,711.75	1,040.72	871.30	169.42	6.143		
14,600.00	9,745.00	15,418.19	10,550.00	123.46	124.47	-140.64	409.02	4,711.75	1,040.72	871.30	169.42	6.143		
14,618.22	9,745.00	15,431.68	10,550.00	123.89	124.78	-140.64	409.01	4,725.23	1,040.73	870.81	169.92	6.125		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #222H - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-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	3.22	3.22	0.00	0.00	-158.87	-1,613.55	-623.46	1,729.81				
100.00	100.00	103.22	103.22	0.13	0.14	-158.87	-1,613.55	-623.46	1,729.81	1,729.54	0.27	6,501.633	
200.00	200.00	203.22	203.22	0.49	0.50	-158.87	-1,613.55	-623.46	1,729.81	1,728.83	0.98	1,759.725	
300.00	300.00	303.22	303.22	0.84	0.86	-158.87	-1,613.55	-623.46	1,729.81	1,728.11	1.70	1,017.569	
400.00	400.00	403.22	403.22	1.20	1.21	-158.87	-1,613.55	-623.46	1,729.81	1,727.39	2.42	715.719	
500.00	500.00	503.22	503.22	1.56	1.57	-158.87	-1,613.55	-623.46	1,729.81	1,726.68	3.13	551.980	
600.00	600.00	603.22	603.22	1.92	1.93	-158.87	-1,613.55	-623.46	1,729.81	1,725.96	3.85	449.211	
700.00	700.00	703.22	703.22	2.28	2.29	-158.87	-1,613.55	-623.46	1,729.81	1,725.24	4.57	378.704	
800.00	800.00	803.22	803.22	2.64	2.65	-158.87	-1,613.55	-623.46	1,729.81	1,724.53	5.28	327.327	
900.00	900.00	903.22	903.22	3.00	3.01	-158.87	-1,613.55	-623.46	1,729.81	1,723.81	6.00	288.225	
1,000.00	1,000.00	1,005.87	1,005.87	3.35	3.37	-158.87	-1,613.55	-623.46	1,729.81	1,723.08	6.73	257.105	
1,100.00	1,099.99	1,188.04	1,187.96	3.70	4.03	-35.00	-1,609.35	-621.51	1,726.20	1,718.48	7.72	223.576	
1,200.00	1,199.91	1,368.64	1,368.07	4.03	4.68	-35.26	-1,597.43	-615.97	1,715.73	1,707.05	8.69	197.481	
1,266.67	1,266.45	1,448.50	1,447.51	4.26	4.97	-35.46	-1,589.98	-612.50	1,705.56	1,696.36	9.20	185.478	
1,300.00	1,299.70	1,481.37	1,480.19	4.38	5.09	-35.51	-1,586.86	-611.05	1,700.20	1,690.77	9.43	180.378	
1,400.00	1,399.46	1,579.95	1,578.24	4.72	5.45	-35.68	-1,577.52	-606.71	1,684.13	1,674.02	10.12	166.457	
1,500.00	1,499.22	1,678.54	1,676.28	5.07	5.82	-35.84	-1,568.18	-602.36	1,668.09	1,657.27	10.81	154.258	
1,600.00	1,598.97	1,777.12	1,774.33	5.43	6.19	-36.01	-1,558.83	-598.01	1,652.05	1,640.54	11.51	143.492	
1,700.00	1,698.73	1,875.71	1,872.37	5.79	6.56	-36.19	-1,549.49	-593.67	1,636.03	1,623.81	12.22	133.929	
1,800.00	1,798.48	1,974.29	1,970.42	6.15	6.93	-36.36	-1,540.14	-589.32	1,620.02	1,607.10	12.92	125.384	
1,900.00	1,898.24	2,072.88	2,068.46	6.51	7.30	-36.54	-1,530.80	-584.98	1,604.03	1,590.41	13.63	117.705	
2,000.00	1,998.00	2,171.47	2,166.51	6.87	7.68	-36.73	-1,521.46	-580.63	1,588.06	1,573.72	14.34	110.771	
2,100.00	2,097.75	2,270.05	2,264.55	7.23	8.05	-36.92	-1,512.11	-576.29	1,572.10	1,557.05	15.05	104.481	
2,200.00	2,197.51	2,368.64	2,362.60	7.60	8.43	-37.11	-1,502.77	-571.94	1,556.16	1,540.40	15.76	98.750	
2,300.00	2,297.27	2,467.22	2,460.65	7.97	8.81	-37.30	-1,493.42	-567.60	1,540.24	1,523.76	16.47	93.508	
2,400.00	2,397.02	2,565.81	2,558.69	8.33	9.19	-37.50	-1,484.08	-563.25	1,524.33	1,507.14	17.19	88.697	
2,500.00	2,496.78	2,664.39	2,656.74	8.70	9.57	-37.71	-1,474.74	-558.91	1,508.44	1,490.54	17.90	84.266	
2,600.00	2,596.54	2,762.98	2,754.78	9.07	9.95	-37.92	-1,465.39	-554.56	1,492.57	1,473.96	18.62	80.173	
2,700.00	2,696.29	2,861.56	2,852.83	9.44	10.33	-38.13	-1,456.05	-550.22	1,476.72	1,457.39	19.33	76.380	
2,800.00	2,796.05	2,960.14	2,951.11	9.81	10.71	-38.34	-1,446.71	-545.87	1,460.26	1,440.13	20.04	72.535	
2,856.93	2,852.84	3,063.47	3,053.01	10.22	11.10	-38.55	-1,437.37	-541.49	1,449.32	1,428.71	20.75	70.321	
2,900.00	2,895.79	3,155.62	3,145.31	10.63	11.48	-38.76	-1,428.03	-537.11	1,440.00	1,419.04	21.46	68.691	
3,000.00	2,995.34	3,254.20	3,243.14	11.04	11.86	-38.97	-1,418.69	-532.73	1,414.30	1,392.50	22.17	64.870	
3,100.00	3,094.61	3,352.78	3,341.46	11.45	12.24	-39.18	-1,409.35	-528.35	1,385.53	1,363.07	22.88	61.689	
3,123.60	3,118.00	3,409.52	3,393.37	11.86	12.62	-39.39	-1,400.01	-523.97	1,378.47	1,355.84	23.59	60.911	
3,200.00	3,193.65	3,481.84	3,464.24	12.27	13.00	-39.60	-1,390.67	-519.59	1,355.49	1,332.31	24.30	58.477	
3,300.00	3,292.68	3,576.50	3,557.01	12.68	13.38	-39.81	-1,381.33	-515.21	1,325.50	1,301.60	25.01	55.457	
3,400.00	3,391.71	3,671.17	3,649.77	13.09	13.76	-39.99	-1,372.00	-510.83	1,295.62	1,270.99	25.72	52.612	
3,500.00	3,490.73	3,765.83	3,742.53	13.50	14.14	-40.18	-1,362.66	-506.45	1,265.85	1,240.50	26.43	49.926	
3,600.00	3,589.76	3,860.49	3,835.29	13.91	14.52	-40.37	-1,353.32	-502.07	1,236.21	1,210.12	27.14	47.389	
3,700.00	3,688.79	3,955.16	3,928.06	14.32	14.90	-40.56	-1,344.00	-497.69	1,206.69	1,179.87	27.85	44.988	
3,800.00	3,787.81	4,049.82	4,020.82	14.73	15.28	-40.75	-1,334.66	-493.31	1,177.33	1,149.76	28.56	42.715	
3,900.00	3,886.84	4,144.48	4,113.58	15.14	15.66	-40.94	-1,325.32	-488.93	1,148.11	1,119.80	29.27	40.560	
4,000.00	3,985.87	4,239.14	4,206.34	15.55	16.04	-41.13	-1,316.00	-484.55	1,119.06	1,090.01	30.00	38.515	
4,100.00	4,084.89	4,333.81	4,299.11	15.96	16.42	-41.32	-1,306.66	-480.17	1,090.19	1,060.38	30.71	36.574	
4,200.00	4,183.92	4,428.47	4,391.87	16.37	16.80	-41.51	-1,297.32	-475.79	1,061.51	1,030.95	31.42	34.728	
4,300.00	4,282.95	4,523.13	4,484.63	16.78	17.18	-41.70	-1,288.00	-471.41	1,033.05	1,001.72	32.13	32.972	
4,400.00	4,381.97	4,617.80	4,577.39	17.19	17.56	-41.89	-1,278.66	-467.03	1,004.81	972.71	32.84	31.302	
4,500.00	4,481.00	4,712.46	4,670.16	17.60	17.94	-42.08	-1,269.32	-462.65	976.82	943.94	33.55	29.711	
4,600.00	4,580.03	4,807.13	4,758.26	18.01	18.32	-42.27	-1,260.00	-458.27	949.16	915.49	34.26	28.192	
4,700.00	4,679.05	4,879.58	4,834.16	18.42	18.70	-42.46	-1,250.66	-453.89	923.10	888.63	34.97	26.776	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #222H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													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 +N/-S (usft)	Centre +E/-W (usft)						
4,900.00	4,877.11	5,036.85	4,989.54	18.27	19.81	-53.69	-1,089.86	-379.93	877.38	841.31	36.08	24.320		
4,992.19	4,968.40	5,110.53	5,062.65	18.66	20.11	-54.48	-1,081.57	-376.07	859.21	822.40	36.80	23.345		
5,000.00	4,976.14	5,116.80	5,068.88	18.69	20.14	-54.53	-1,080.92	-375.77	857.76	820.89	36.87	23.267		
5,100.00	5,075.36	5,197.82	5,149.47	19.09	20.45	-55.11	-1,073.41	-372.28	841.14	803.50	37.64	22.350		
5,200.00	5,174.87	5,279.90	5,231.28	19.49	20.76	-55.59	-1,067.37	-369.47	828.12	789.74	38.38	21.579		
5,300.00	5,274.61	5,362.81	5,314.05	19.86	21.06	-55.96	-1,062.90	-367.39	818.63	779.55	39.08	20.945		
5,400.00	5,374.50	5,446.31	5,397.48	20.22	21.34	-56.20	-1,060.04	-366.06	812.64	772.89	39.76	20.440		
5,500.00	5,474.48	5,530.13	5,481.29	20.57	21.62	-56.31	-1,058.83	-365.50	810.11	769.72	40.39	20.057		
5,525.52	5,500.00	5,552.06	5,503.22	20.65	21.69	179.73	-1,058.79	-365.48	810.01	769.46	40.55	19.977		
5,600.00	5,574.48	5,626.54	5,577.70	20.89	21.93	179.73	-1,058.79	-365.48	810.01	768.97	41.04	19.736		
5,700.00	5,674.48	5,726.54	5,677.70	21.21	22.25	179.73	-1,058.79	-365.48	810.01	768.30	41.71	19.421		
5,800.00	5,774.48	5,826.54	5,777.70	21.53	22.57	179.73	-1,058.79	-365.48	810.01	767.63	42.38	19.115		
5,900.00	5,874.48	5,926.54	5,877.70	21.85	22.89	179.73	-1,058.79	-365.48	810.01	766.96	43.05	18.818		
6,000.00	5,974.48	6,026.54	5,977.70	22.17	23.22	179.73	-1,058.79	-365.48	810.01	766.29	43.72	18.529		
6,100.00	6,074.48	6,126.54	6,077.70	22.49	23.54	179.73	-1,058.79	-365.48	810.01	765.62	44.39	18.248		
6,200.00	6,174.48	6,226.54	6,177.70	22.81	23.87	179.73	-1,058.79	-365.48	810.01	764.95	45.06	17.975		
6,300.00	6,274.48	6,326.54	6,277.70	23.14	24.19	179.73	-1,058.79	-365.48	810.01	764.27	45.74	17.710		
6,400.00	6,374.48	6,426.54	6,377.70	23.47	24.52	179.73	-1,058.79	-365.48	810.01	763.59	46.41	17.452		
6,500.00	6,474.48	6,526.54	6,477.70	23.79	24.85	179.73	-1,058.79	-365.48	810.01	762.92	47.09	17.201		
6,600.00	6,574.48	6,626.54	6,577.70	24.12	25.18	179.73	-1,058.79	-365.48	810.01	762.24	47.77	16.956		
6,700.00	6,674.48	6,726.54	6,677.70	24.45	25.51	179.73	-1,058.79	-365.48	810.01	761.56	48.45	16.718		
6,800.00	6,774.48	6,826.54	6,777.70	24.78	25.84	179.73	-1,058.79	-365.48	810.01	760.88	49.13	16.486		
6,900.00	6,874.48	6,926.54	6,877.70	25.11	26.17	179.73	-1,058.79	-365.48	810.01	760.20	49.81	16.261		
7,000.00	6,974.48	7,026.54	6,977.70	25.44	26.50	179.73	-1,058.79	-365.48	810.01	759.51	50.50	16.041		
7,100.00	7,074.48	7,126.54	7,077.70	25.77	26.83	179.73	-1,058.79	-365.48	810.01	758.83	51.18	15.827		
7,200.00	7,174.48	7,226.54	7,177.70	26.10	27.17	179.73	-1,058.79	-365.48	810.01	758.14	51.87	15.618		
7,300.00	7,274.48	7,326.54	7,277.70	26.44	27.50	179.73	-1,058.79	-365.48	810.01	757.46	52.55	15.414		
7,400.00	7,374.48	7,426.54	7,377.70	26.77	27.83	179.73	-1,058.79	-365.48	810.01	756.77	53.24	15.215		
7,500.00	7,474.48	7,526.54	7,477.70	27.11	28.17	179.73	-1,058.79	-365.48	810.01	756.08	53.92	15.021		
7,600.00	7,574.48	7,626.54	7,577.70	27.44	28.50	179.73	-1,058.79	-365.48	810.01	755.40	54.61	14.832		
7,700.00	7,674.48	7,726.54	7,677.70	27.78	28.84	179.73	-1,058.79	-365.48	810.01	754.71	55.30	14.647		
7,800.00	7,774.48	7,826.54	7,777.70	28.11	29.18	179.73	-1,058.79	-365.48	810.01	754.02	55.99	14.467		
7,900.00	7,874.48	7,926.54	7,877.70	28.45	29.51	179.73	-1,058.79	-365.48	810.01	753.33	56.68	14.291		
8,000.00	7,974.48	8,026.54	7,977.70	28.79	29.85	179.73	-1,058.79	-365.48	810.01	752.64	57.37	14.119		
8,100.00	8,074.48	8,126.54	8,077.70	29.12	30.19	179.73	-1,058.79	-365.48	810.01	751.95	58.06	13.951		
8,200.00	8,174.48	8,226.54	8,177.70	29.46	30.53	179.73	-1,058.79	-365.48	810.01	751.25	58.75	13.786		
8,300.00	8,274.48	8,326.54	8,277.70	29.80	30.87	179.73	-1,058.79	-365.48	810.01	750.56	59.45	13.626		
8,400.00	8,374.48	8,426.54	8,377.70	30.14	31.21	179.73	-1,058.79	-365.48	810.01	749.87	60.14	13.469		
8,500.00	8,474.48	8,526.54	8,477.70	30.48	31.55	179.73	-1,058.79	-365.48	810.01	749.18	60.83	13.315		
8,600.00	8,574.48	8,626.54	8,577.70	30.82	31.89	179.73	-1,058.79	-365.48	810.01	748.48	61.53	13.165		
8,700.00	8,674.48	8,726.54	8,677.70	31.16	32.23	179.73	-1,058.79	-365.48	810.01	747.79	62.22	13.018		
8,800.00	8,774.48	8,826.54	8,777.70	31.50	32.57	179.73	-1,058.79	-365.48	810.01	747.09	62.92	12.874		
8,900.00	8,874.48	8,926.54	8,877.70	31.84	32.91	179.73	-1,058.79	-365.48	810.01	746.40	63.61	12.733		
9,000.00	8,974.48	9,026.54	8,977.70	32.18	33.25	179.73	-1,058.79	-365.48	810.01	745.70	64.31	12.595		
9,100.00	9,074.48	9,126.54	9,077.70	32.53	33.60	179.73	-1,058.79	-365.48	810.01	745.00	65.01	12.460		
9,191.76	9,166.24	9,218.30	9,169.46	32.84	33.91	179.73	-1,058.79	-365.48	810.01	744.36	65.65	12.339		
9,200.00	9,174.48	9,226.54	9,177.70	32.87	33.94	89.71	-1,058.79	-365.48	810.01	744.31	65.70	12.328		
9,250.00	9,224.38	9,276.44	9,227.60	33.03	34.11	89.91	-1,058.79	-365.48	810.00	743.97	66.03	12.267		
9,261.42	9,235.73	9,287.79	9,238.95	33.06	34.15	90.00	-1,058.79	-365.48	810.00	743.89	66.10	12.253 CC		
9,300.00	9,273.84	9,325.90	9,277.06	33.17	34.28	90.41	-1,058.79	-365.48	810.02	743.68	66.34	12.210		
9,350.00	9,322.47	9,374.54	9,325.69	33.31	34.45	91.19	-1,058.79	-365.48	810.19	743.56	66.63	12.159 ES		
9,400.00	9,369.92	9,421.99	9,373.14	33.44	34.61	92.19	-1,058.79	-365.48	810.68	743.78	66.90	12.118		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #222H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,450.00	9,415.82	9,467.88	9,419.04	33.56	34.77	93.37	-1,058.79	-365.48	811.73	744.58	67.15	12.088		
9,500.00	9,459.82	9,511.88	9,463.04	33.67	34.92	94.65	-1,058.79	-365.48	813.62	746.24	67.38	12.075		
9,550.00	9,501.59	9,553.65	9,504.81	33.77	35.06	95.95	-1,058.79	-365.48	816.67	749.07	67.60	12.081		
9,600.00	9,540.80	9,607.14	9,544.02	33.87	35.25	97.20	-1,058.79	-365.48	821.20	753.34	67.86	12.101		
9,650.00	9,577.17	9,629.23	9,580.39	33.97	35.32	98.29	-1,058.79	-365.48	827.53	759.52	68.01	12.168		
9,700.00	9,610.40	9,662.46	9,613.62	34.07	35.44	99.16	-1,058.79	-365.48	835.98	767.77	68.21	12.256		
9,750.00	9,640.26	9,707.68	9,643.48	34.18	35.59	99.72	-1,058.79	-365.48	846.78	778.32	68.47	12.368		
9,800.00	9,666.50	9,718.56	9,669.72	34.31	35.63	99.88	-1,058.79	-365.48	860.15	791.53	68.62	12.535		
9,850.00	9,688.94	9,741.00	9,692.16	34.46	35.71	99.59	-1,058.79	-365.48	876.19	807.36	68.83	12.729		
9,900.00	9,707.41	9,759.47	9,710.63	34.65	35.77	98.77	-1,058.79	-365.48	894.93	825.88	69.05	12.961		
9,950.00	9,721.75	9,773.81	9,724.97	34.87	35.82	97.38	-1,058.79	-365.48	916.31	847.05	69.26	13.230		
9,991.76	9,730.49	9,782.55	9,733.71	35.07	35.85	95.74	-1,058.79	-365.48	936.10	866.66	69.44	13.481		
10,000.00	9,731.89	9,783.95	9,735.11	35.11	35.85	95.56	-1,058.79	-365.48	940.19	870.72	69.47	13.533		
10,050.00	9,738.85	9,809.09	9,742.07	35.40	35.94	94.21	-1,058.79	-365.48	966.27	896.52	69.75	13.854		
10,100.00	9,743.21	9,804.73	9,746.43	35.71	35.93	92.49	-1,058.79	-365.48	994.30	924.38	69.93	14.220		
10,150.00	9,744.96	9,802.98	9,748.18	36.06	35.92	90.39	-1,058.79	-365.48	1,024.09	953.98	70.11	14.606		
10,158.43	9,745.00	9,802.94	9,748.22	36.12	35.92	90.00	-1,058.79	-365.48	1,029.27	959.12	70.14	14.673		
10,200.00	9,745.00	11,115.63	10,550.00	36.43	43.56	139.98	-922.43	390.40	1,049.99	993.15	56.84	18.474		
10,300.00	9,745.00	11,189.22	10,550.00	37.30	44.38	140.28	-915.28	463.64	1,043.71	986.10	57.61	18.118		
10,400.00	9,745.00	11,263.26	10,550.00	38.30	45.26	140.47	-910.93	537.55	1,039.93	981.31	58.62	17.741		
10,500.00	9,745.00	11,341.27	10,550.00	39.42	46.22	140.53	-909.45	611.25	1,038.64	978.75	59.89	17.343		
10,600.00	9,745.00	11,436.98	10,550.00	40.66	47.47	140.53	-909.49	711.25	1,038.63	977.03	61.61	16.859		
10,700.00	9,745.00	11,536.98	10,550.00	41.99	48.86	140.53	-909.53	811.25	1,038.63	975.15	63.48	16.361		
10,800.00	9,745.00	11,636.98	10,550.00	43.43	50.33	140.53	-909.57	911.25	1,038.63	973.15	65.47	15.863		
10,900.00	9,745.00	11,736.98	10,550.00	44.95	51.88	140.53	-909.60	1,011.25	1,038.62	971.05	67.57	15.371		
11,000.00	9,745.00	11,836.98	10,550.00	46.54	53.48	140.53	-909.64	1,111.25	1,038.62	968.86	69.76	14.888		
11,100.00	9,745.00	11,936.98	10,550.00	48.21	55.15	140.53	-909.68	1,211.25	1,038.62	966.57	72.04	14.416		
11,200.00	9,745.00	12,036.98	10,550.00	49.93	56.87	140.53	-909.72	1,311.25	1,038.61	964.21	74.40	13.959		
11,300.00	9,745.00	12,136.98	10,550.00	51.71	58.65	140.53	-909.75	1,411.25	1,038.61	961.78	76.83	13.518		
11,400.00	9,745.00	12,236.98	10,550.00	53.55	60.47	140.53	-909.79	1,511.25	1,038.60	959.28	79.33	13.093		
11,500.00	9,745.00	12,336.98	10,550.00	55.42	62.33	140.53	-909.83	1,611.25	1,038.60	956.72	81.88	12.684		
11,600.00	9,745.00	12,436.98	10,550.00	57.34	64.22	140.53	-909.86	1,711.25	1,038.60	954.11	84.49	12.293		
11,700.00	9,745.00	12,536.98	10,550.00	59.30	66.16	140.53	-909.90	1,811.25	1,038.59	951.45	87.14	11.918		
11,800.00	9,745.00	12,636.98	10,550.00	61.29	68.12	140.53	-909.94	1,911.25	1,038.59	948.75	89.84	11.560		
11,900.00	9,745.00	12,736.98	10,550.00	63.31	70.11	140.53	-909.98	2,011.25	1,038.59	946.00	92.58	11.218		
12,000.00	9,745.00	12,836.98	10,550.00	65.35	72.13	140.53	-910.01	2,111.25	1,038.58	943.22	95.36	10.891		
12,100.00	9,745.00	12,936.98	10,550.00	67.43	74.18	140.53	-910.05	2,211.25	1,038.58	940.41	98.17	10.579		
12,200.00	9,745.00	13,036.98	10,550.00	69.52	76.24	140.53	-910.09	2,311.25	1,038.57	937.56	101.01	10.282		
12,300.00	9,745.00	13,136.98	10,550.00	71.64	78.33	140.53	-910.13	2,411.25	1,038.57	934.69	103.88	9.998		
12,400.00	9,745.00	13,236.98	10,550.00	73.77	80.44	140.53	-910.16	2,511.25	1,038.57	931.79	106.78	9.727		
12,500.00	9,745.00	13,336.98	10,550.00	75.92	82.56	140.53	-910.20	2,611.25	1,038.56	928.87	109.69	9.468		
12,600.00	9,745.00	13,436.98	10,550.00	78.09	84.70	140.53	-910.24	2,711.25	1,038.56	925.92	112.64	9.220		
12,700.00	9,745.00	13,536.98	10,550.00	80.27	86.85	140.54	-910.27	2,811.25	1,038.56	922.96	115.60	8.984		
12,800.00	9,745.00	13,636.98	10,550.00	82.47	89.02	140.54	-910.31	2,911.25	1,038.55	919.97	118.58	8.758		
12,900.00	9,745.00	13,736.98	10,550.00	84.68	91.21	140.54	-910.35	3,011.25	1,038.55	916.97	121.58	8.542		
13,000.00	9,745.00	13,836.98	10,550.00	86.90	93.40	140.54	-910.39	3,111.25	1,038.54	913.96	124.59	8.336		
13,100.00	9,745.00	13,936.98	10,550.00	89.13	95.60	140.54	-910.42	3,211.25	1,038.54	910.92	127.62	8.138		
13,200.00	9,745.00	14,036.98	10,550.00	91.37	97.82	140.54	-910.46	3,311.25	1,038.54	907.88	130.66	7.948		
13,300.00	9,745.00	14,136.98	10,550.00	93.62	100.04	140.54	-910.50	3,411.25	1,038.53	904.82	133.72	7.767		
13,400.00	9,745.00	14,236.98	10,550.00	95.88	102.28	140.54	-910.53	3,511.25	1,038.53	901.74	136.79	7.592		
13,500.00	9,745.00	14,336.98	10,550.00	98.14	104.52	140.54	-910.57	3,611.25	1,038.53	898.66	139.86	7.425		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #222H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-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		
13,700.00	9,745.00	14,536.98	10,550.00	102.70	109.03	140.54	-910.65	3,811.25	1,038.52	892.46	146.05	7.110		
13,800.00	9,745.00	14,636.98	10,550.00	104.98	111.29	140.54	-910.68	3,911.25	1,038.51	889.35	149.16	6.962		
13,900.00	9,745.00	14,736.98	10,550.00	107.27	113.57	140.54	-910.72	4,011.25	1,038.51	886.23	152.28	6.820		
14,000.00	9,745.00	14,836.98	10,550.00	109.57	115.84	140.54	-910.76	4,111.25	1,038.51	883.10	155.41	6.682		
14,100.00	9,745.00	14,936.98	10,550.00	111.88	118.13	140.54	-910.80	4,211.25	1,038.50	879.96	158.54	6.550		
14,200.00	9,745.00	15,036.98	10,550.00	114.19	120.42	140.54	-910.83	4,311.25	1,038.50	876.82	161.68	6.423		
14,300.00	9,745.00	15,136.98	10,550.00	116.50	122.71	140.54	-910.87	4,411.25	1,038.50	873.67	164.83	6.300		
14,400.00	9,745.00	15,236.98	10,550.00	118.82	125.01	140.54	-910.91	4,511.25	1,038.49	870.51	167.99	6.182		
14,500.00	9,745.00	15,336.98	10,550.00	121.14	127.31	140.54	-910.94	4,611.25	1,038.49	867.34	171.15	6.068		
14,600.00	9,745.00	15,436.98	10,550.00	123.46	129.36	140.54	-910.98	4,711.25	1,038.48	864.37	174.11	5.964		
14,618.22	9,745.00	15,455.21	10,550.00	123.89	129.66	140.54	-910.99	4,729.47	1,038.48	863.89	174.59	5.948 SF		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #225H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													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)		+N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.35	0.35	0.00	0.00	-89.98	0.01	-30.04	30.04				
100.00	100.00	100.35	100.35	0.13	0.13	-89.98	0.01	-30.04	30.04	29.78	0.26	117.449	
200.00	200.00	200.35	200.35	0.49	0.49	-89.98	0.01	-30.04	30.04	29.07	0.97	30.883	
300.00	300.00	300.35	300.35	0.84	0.85	-89.98	0.01	-30.04	30.04	28.35	1.69	17.779	
400.00	400.00	400.35	400.35	1.20	1.20	-89.98	0.01	-30.04	30.04	27.63	2.41	12.482	
500.00	500.00	500.35	500.35	1.56	1.56	-89.98	0.01	-30.04	30.04	26.92	3.12	9.617	
600.00	600.00	600.35	600.35	1.92	1.92	-89.98	0.01	-30.04	30.04	26.20	3.84	7.822	
700.00	700.00	700.35	700.35	2.28	2.28	-89.98	0.01	-30.04	30.04	25.48	4.56	6.591	
800.00	800.00	800.35	800.35	2.64	2.64	-89.98	0.01	-30.04	30.04	24.77	5.27	5.695	
900.00	900.00	900.35	900.35	3.00	3.00	-89.98	0.01	-30.04	30.04	24.05	5.99	5.014	
1,000.00	1,000.00	1,000.35	1,000.35	3.35	3.35	-89.98	0.01	-30.04	30.04	23.33	6.71	4.478 CC	
1,100.00	1,099.99	1,099.60	1,099.58	3.70	3.70	34.67	-0.35	-31.29	30.21	22.82	7.40	4.085	
1,200.00	1,199.91	1,198.84	1,198.75	4.03	4.04	36.70	-1.43	-35.01	30.74	22.68	8.06	3.813 ES	
1,266.67	1,266.45	1,268.36	1,264.76	4.26	4.28	38.72	-2.55	-38.86	31.32	22.80	8.52	3.676	
1,300.00	1,299.70	1,301.70	1,298.00	4.38	4.39	39.85	-3.20	-41.09	31.69	22.94	8.75	3.622	
1,400.00	1,399.46	1,401.72	1,397.74	4.72	4.74	43.07	-5.15	-47.79	32.85	23.41	9.44	3.480	
1,500.00	1,499.22	1,501.75	1,497.47	5.07	5.10	46.06	-7.09	-54.49	34.11	23.97	10.14	3.364	
1,600.00	1,598.97	1,601.77	1,597.20	5.43	5.46	48.84	-9.04	-61.19	35.45	24.61	10.84	3.270	
1,700.00	1,698.73	1,701.79	1,696.94	5.79	5.82	51.40	-10.99	-67.88	36.87	25.32	11.55	3.192	
1,800.00	1,798.48	1,801.82	1,796.67	6.15	6.18	53.77	-12.93	-74.58	38.36	26.09	12.27	3.127	
1,900.00	1,898.24	1,901.84	1,896.40	6.51	6.54	55.96	-14.88	-81.28	39.91	26.92	12.99	3.073	
2,000.00	1,998.00	2,001.86	1,996.14	6.87	6.90	57.98	-16.82	-87.97	41.51	27.80	13.71	3.028	
2,100.00	2,097.75	2,101.89	2,095.87	7.23	7.27	59.86	-18.77	-94.67	43.16	28.73	14.44	2.990	
2,200.00	2,197.51	2,201.91	2,195.60	7.60	7.64	61.59	-20.72	-101.37	44.86	29.69	15.17	2.958	
2,300.00	2,297.27	2,301.93	2,295.34	7.97	8.01	63.19	-22.66	-108.06	46.59	30.69	15.90	2.930	
2,400.00	2,397.02	2,401.96	2,395.07	8.33	8.37	64.68	-24.61	-114.76	48.36	31.72	16.63	2.907	
2,500.00	2,496.78	2,501.98	2,494.80	8.70	8.74	66.06	-26.55	-121.46	50.15	32.78	17.37	2.887	
2,600.00	2,596.54	2,602.00	2,594.54	9.07	9.11	67.35	-28.50	-128.16	51.98	33.87	18.11	2.871	
2,700.00	2,696.29	2,702.03	2,694.27	9.44	9.48	68.55	-30.44	-134.85	53.82	34.98	18.85	2.856	
2,800.00	2,796.05	2,802.05	2,794.00	9.81	9.85	69.66	-32.39	-141.55	55.69	36.11	19.59	2.844	
2,856.93	2,852.84	2,854.87	2,850.79	10.02	10.05	70.27	-33.50	-145.36	56.77	36.77	19.99	2.839	
2,900.00	2,895.79	2,897.50	2,893.28	10.18	10.21	70.68	-34.41	-148.50	57.68	37.37	20.31	2.840	
3,000.00	2,995.34	2,996.54	2,991.88	10.56	10.58	71.86	-37.04	-157.54	60.32	39.27	21.05	2.865	
3,100.00	3,094.61	3,095.55	3,090.16	10.95	10.97	73.25	-40.38	-169.03	63.69	41.88	21.81	2.920	
3,123.60	3,118.00	3,118.93	3,113.32	11.04	11.06	73.61	-41.27	-172.10	64.59	42.60	21.99	2.937	
3,200.00	3,193.65	3,204.74	3,188.91	11.35	11.40	74.79	-44.23	-182.30	67.58	44.94	22.63	2.986	
3,300.00	3,292.68	3,304.83	3,287.84	11.74	11.80	76.19	-48.11	-195.65	71.52	48.09	23.43	3.053	
3,400.00	3,391.71	3,404.92	3,386.78	12.14	12.20	77.49	-51.99	-209.01	75.51	51.28	24.23	3.116	
3,500.00	3,490.73	3,505.01	3,485.72	12.55	12.60	78.57	-55.87	-222.36	79.52	54.49	25.03	3.177	
3,600.00	3,589.76	3,594.89	3,584.65	12.95	12.96	79.59	-59.75	-235.71	83.57	57.77	25.80	3.239	
3,700.00	3,688.79	3,694.80	3,683.59	13.35	13.37	80.51	-63.63	-249.06	87.64	61.03	26.61	3.293	
3,800.00	3,787.81	3,805.29	3,782.52	13.76	13.82	81.35	-67.51	-262.42	91.73	64.26	27.46	3.340	
3,900.00	3,886.84	3,894.62	3,881.46	14.16	14.18	82.12	-71.39	-275.77	95.83	67.60	28.23	3.394	
4,000.00	3,985.87	4,005.48	3,980.39	14.57	14.63	82.83	-75.27	-289.12	99.96	70.87	29.09	3.436	
4,100.00	4,084.89	4,105.57	4,079.33	14.98	15.04	83.48	-79.15	-302.47	104.09	74.18	29.91	3.480	
4,200.00	4,183.92	4,205.66	4,178.26	15.39	15.45	84.08	-83.03	-315.82	108.24	77.52	30.73	3.523	
4,300.00	4,282.95	4,294.25	4,277.20	15.80	15.81	84.64	-86.91	-329.18	112.41	80.90	31.50	3.568	
4,400.00	4,381.97	4,394.87	4,376.91	16.21	16.22	85.38	-90.68	-342.15	116.39	84.06	32.33	3.600	
4,500.00	4,481.00	4,495.89	4,477.31	16.62	16.62	87.19	-93.78	-352.82	119.52	86.35	33.16	3.604	
4,600.00	4,580.03	4,596.72	4,577.78	17.03	17.01	90.07	-96.13	-360.93	121.93	87.95	33.98	3.588	
4,700.00	4,679.05	4,697.21	4,678.11	17.45	17.38	94.01	-97.74	-366.47	123.99	89.21	34.78	3.565	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #225H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-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		
4,900.00	4,877.11	4,903.39	4,877.46	18.27	18.09	104.76	-98.79	-370.07	129.15	92.87	36.28	3.560		
4,992.19	4,968.40	4,987.91	4,968.75	18.66	18.36	110.07	-98.79	-370.07	133.03	96.16	36.87	3.608		
5,000.00	4,976.14	5,004.36	4,976.49	18.69	18.42	110.50	-98.79	-370.07	133.40	96.45	36.95	3.610		
5,100.00	5,075.36	5,105.13	5,075.71	19.09	18.75	115.36	-98.79	-370.07	138.28	100.68	37.59	3.678		
5,200.00	5,174.87	5,205.62	5,175.22	19.49	19.08	118.97	-98.79	-370.07	142.78	104.55	38.23	3.735		
5,300.00	5,274.61	5,305.88	5,274.96	19.86	19.41	121.48	-98.79	-370.07	146.41	107.54	38.87	3.766		
5,400.00	5,374.50	5,405.99	5,374.85	20.22	19.74	123.02	-98.79	-370.07	148.87	109.34	39.53	3.766		
5,500.00	5,474.48	5,506.01	5,474.83	20.57	20.07	123.66	-98.79	-370.07	149.95	109.76	40.19	3.731		
5,525.52	5,500.00	5,519.51	5,500.35	20.65	20.12	-0.27	-98.79	-370.07	150.00	109.68	40.32	3.720		
5,600.00	5,574.48	5,606.01	5,574.83	20.89	20.41	-0.27	-98.79	-370.07	150.00	109.15	40.85	3.672		
5,700.00	5,674.48	5,706.01	5,674.83	21.21	20.74	-0.27	-98.79	-370.07	150.00	108.49	41.51	3.614		
5,800.00	5,774.48	5,806.01	5,774.83	21.53	21.07	-0.27	-98.79	-370.07	150.00	107.83	42.17	3.557		
5,900.00	5,874.48	5,906.01	5,874.83	21.85	21.41	-0.27	-98.79	-370.07	150.00	107.17	42.83	3.502		
6,000.00	5,974.48	6,006.01	5,974.83	22.17	21.75	-0.27	-98.79	-370.07	150.00	106.50	43.50	3.448		
6,100.00	6,074.48	6,106.01	6,074.83	22.49	22.08	-0.27	-98.79	-370.07	150.00	105.84	44.17	3.396		
6,200.00	6,174.48	6,206.01	6,174.83	22.81	22.42	-0.27	-98.79	-370.07	150.00	105.17	44.83	3.346		
6,300.00	6,274.48	6,306.01	6,274.83	23.14	22.76	-0.27	-98.79	-370.07	150.00	104.50	45.50	3.296		
6,400.00	6,374.48	6,406.01	6,374.83	23.47	23.10	-0.27	-98.79	-370.07	150.00	103.83	46.17	3.249		
6,500.00	6,474.48	6,506.01	6,474.83	23.79	23.44	-0.27	-98.79	-370.07	150.00	103.15	46.85	3.202		
6,600.00	6,574.48	6,606.01	6,574.83	24.12	23.78	-0.27	-98.79	-370.07	150.00	102.48	47.52	3.157		
6,700.00	6,674.48	6,706.01	6,674.83	24.45	24.12	-0.27	-98.79	-370.07	150.00	101.81	48.20	3.112		
6,800.00	6,774.48	6,806.01	6,774.83	24.78	24.46	-0.27	-98.79	-370.07	150.00	101.13	48.87	3.069		
6,900.00	6,874.48	6,906.01	6,874.83	25.11	24.80	-0.27	-98.79	-370.07	150.00	100.45	49.55	3.027		
7,000.00	6,974.48	7,006.01	6,974.83	25.44	25.14	-0.27	-98.79	-370.07	150.00	99.77	50.23	2.986		
7,100.00	7,074.48	7,106.01	7,074.83	25.77	25.49	-0.27	-98.79	-370.07	150.00	99.09	50.91	2.947		
7,200.00	7,174.48	7,206.01	7,174.83	26.10	25.83	-0.27	-98.79	-370.07	150.00	98.41	51.59	2.908		
7,300.00	7,274.48	7,306.01	7,274.83	26.44	26.17	-0.27	-98.79	-370.07	150.00	97.73	52.27	2.870		
7,400.00	7,374.48	7,406.01	7,374.83	26.77	26.52	-0.27	-98.79	-370.07	150.00	97.05	52.95	2.833		
7,500.00	7,474.48	7,506.01	7,474.83	27.11	26.86	-0.27	-98.79	-370.07	150.00	96.37	53.64	2.797		
7,600.00	7,574.48	7,606.01	7,574.83	27.44	27.20	-0.27	-98.79	-370.07	150.00	95.68	54.32	2.761		
7,700.00	7,674.48	7,706.01	7,674.83	27.78	27.55	-0.27	-98.79	-370.07	150.00	95.00	55.00	2.727		
7,800.00	7,774.48	7,806.01	7,774.83	28.11	27.89	-0.27	-98.79	-370.07	150.00	94.31	55.69	2.694		
7,900.00	7,874.48	7,906.01	7,874.83	28.45	28.24	-0.27	-98.79	-370.07	150.00	93.63	56.38	2.661		
8,000.00	7,974.48	8,006.01	7,974.83	28.79	28.59	-0.27	-98.79	-370.07	150.00	92.94	57.06	2.629		
8,100.00	8,074.48	8,106.01	8,074.83	29.12	28.93	-0.27	-98.79	-370.07	150.00	92.25	57.75	2.597		
8,200.00	8,174.48	8,206.01	8,174.83	29.46	29.28	-0.27	-98.79	-370.07	150.00	91.56	58.44	2.567		
8,300.00	8,274.48	8,306.01	8,274.83	29.80	29.62	-0.27	-98.79	-370.07	150.00	90.87	59.13	2.537		
8,400.00	8,374.48	8,406.01	8,374.83	30.14	29.97	-0.27	-98.79	-370.07	150.00	90.18	59.82	2.508		
8,500.00	8,474.48	8,506.01	8,474.83	30.48	30.32	-0.27	-98.79	-370.07	150.00	89.49	60.51	2.479		
8,600.00	8,574.48	8,606.01	8,574.83	30.82	30.67	-0.27	-98.79	-370.07	150.00	88.80	61.20	2.451		
8,700.00	8,674.48	8,706.01	8,674.83	31.16	31.01	-0.27	-98.79	-370.07	150.00	88.11	61.89	2.424		
8,800.00	8,774.48	8,806.01	8,774.83	31.50	31.36	-0.27	-98.79	-370.07	150.00	87.42	62.59	2.397		
8,900.00	8,874.48	8,906.01	8,874.83	31.84	31.71	-0.27	-98.79	-370.07	150.00	86.72	63.28	2.370		
9,000.00	8,974.48	9,006.01	8,974.83	32.18	32.06	-0.27	-98.79	-370.07	150.00	86.03	63.97	2.345		
9,100.00	9,074.48	9,106.01	9,074.83	32.53	32.41	-0.27	-98.79	-370.07	150.00	85.33	64.67	2.320		
9,191.76	9,166.24	9,185.75	9,166.59	32.84	32.69	-0.27	-98.79	-370.07	150.00	84.74	65.26	2.298		
9,200.00	9,174.48	9,206.01	9,174.83	32.87	32.76	-90.32	-98.79	-370.07	150.00	84.64	65.36	2.295		
9,250.00	9,224.38	9,243.89	9,224.73	33.03	32.89	-91.42	-98.79	-370.07	150.05	84.37	65.67	2.285		
9,300.00	9,273.84	9,306.66	9,274.19	33.17	33.11	-94.11	-98.79	-370.07	150.40	84.32	66.08	2.276 SF		
9,350.00	9,322.47	9,341.98	9,322.82	33.31	33.23	-98.21	-98.79	-370.07	151.68	85.27	66.40	2.284		
9,400.00	9,369.92	9,389.43	9,370.27	33.44	33.40	-103.39	-98.79	-370.07	154.79	88.03	66.76	2.319		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #225H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWMD													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,500.00	9,459.82	9,479.33	9,460.17	33.67	33.71	-115.07	-98.79	-370.07	170.81	103.46	67.35	2.536		
9,550.00	9,501.59	9,521.10	9,501.94	33.77	33.86	-120.54	-98.79	-370.07	185.52	117.95	67.57	2.746		
9,600.00	9,540.80	9,560.31	9,541.15	33.87	33.99	-125.26	-98.79	-370.07	205.29	137.56	67.74	3.031		
9,650.00	9,577.17	9,603.33	9,577.52	33.97	34.15	-129.02	-98.79	-370.07	230.08	162.18	67.89	3.389		
9,700.00	9,610.40	9,629.91	9,610.75	34.07	34.24	-131.73	-98.79	-370.07	259.53	191.55	67.98	3.818		
9,750.00	9,640.26	9,659.76	9,640.61	34.18	34.34	-133.33	-98.79	-370.07	293.16	225.10	68.06	4.307		
9,800.00	9,666.50	9,686.01	9,666.85	34.31	34.43	-133.74	-98.79	-370.07	330.43	262.29	68.14	4.850		
9,850.00	9,688.94	9,708.45	9,689.29	34.46	34.51	-132.79	-98.79	-370.07	370.78	302.59	68.19	5.437		
9,900.00	9,707.41	9,726.91	9,707.76	34.65	34.58	-130.17	-98.79	-370.07	413.68	345.45	68.23	6.063		
9,950.00	9,721.75	9,741.26	9,722.10	34.87	34.63	-125.28	-98.79	-370.07	458.64	390.38	68.26	6.719		
9,991.76	9,730.49	9,750.00	9,730.84	35.07	34.66	-118.77	-98.79	-370.07	497.40	429.13	68.27	7.286		
10,000.00	9,731.89	9,751.40	9,732.24	35.11	34.66	-117.97	-98.79	-370.07	505.14	436.87	68.27	7.399		
10,050.00	9,738.85	9,758.36	9,739.20	35.40	34.69	-111.89	-98.79	-370.07	552.61	484.35	68.27	8.095		
10,100.00	9,743.21	9,762.72	9,743.56	35.71	34.70	-103.34	-98.79	-370.07	600.70	532.44	68.26	8.800		
10,150.00	9,744.96	9,764.47	9,745.31	36.06	34.71	-92.13	-98.79	-370.07	649.20	580.95	68.25	9.513		
10,158.43	9,745.00	9,764.51	9,745.35	36.12	34.71	-90.00	-98.79	-370.07	657.40	589.16	68.24	9.633		
10,200.00	9,745.00	9,764.51	9,745.35	36.43	34.71	-90.00	-98.79	-370.07	697.94	629.71	68.23	10.229		
10,300.00	9,745.00	9,764.51	9,745.35	37.30	34.71	-90.00	-98.79	-370.07	795.90	727.69	68.20	11.669		
10,400.00	9,745.00	11,212.45	10,550.00	38.30	41.23	-179.86	-247.24	511.60	804.65	774.54	30.10	26.728		
10,448.91	9,745.00	11,261.30	10,550.00	38.85	41.75	-180.00	-249.16	560.41	804.65	774.21	30.43	26.439		
10,500.00	9,745.00	11,312.39	10,550.00	39.42	42.30	-179.96	-249.83	611.50	804.65	773.86	30.79	26.135		
10,600.00	9,745.00	11,412.39	10,550.00	40.66	43.48	-179.96	-249.86	711.50	804.65	773.09	31.55	25.503		
10,700.00	9,745.00	11,512.39	10,550.00	41.99	44.76	-179.96	-249.89	811.50	804.65	772.28	32.37	24.858		
10,800.00	9,745.00	11,612.39	10,550.00	43.43	46.13	-179.96	-249.92	911.50	804.65	771.40	33.24	24.205		
10,900.00	9,745.00	11,712.39	10,550.00	44.95	47.58	-179.96	-249.95	1,011.50	804.65	770.48	34.17	23.551		
11,000.00	9,745.00	11,812.39	10,550.00	46.54	49.11	-179.96	-249.97	1,111.50	804.65	769.51	35.13	22.902		
11,100.00	9,745.00	11,912.39	10,550.00	48.21	50.71	-179.96	-250.00	1,211.50	804.65	768.50	36.15	22.261		
11,200.00	9,745.00	12,012.39	10,550.00	49.93	52.37	-179.96	-250.03	1,311.50	804.65	767.45	37.19	21.633		
11,300.00	9,745.00	12,112.39	10,550.00	51.71	54.09	-179.96	-250.06	1,411.50	804.65	766.37	38.28	21.020		
11,400.00	9,745.00	12,212.39	10,550.00	53.55	55.86	-179.97	-250.09	1,511.50	804.65	765.25	39.40	20.424		
11,500.00	9,745.00	12,312.39	10,550.00	55.42	57.68	-179.97	-250.12	1,611.50	804.65	764.10	40.54	19.846		
11,600.00	9,745.00	12,412.39	10,550.00	57.34	59.54	-179.97	-250.14	1,711.50	804.65	762.93	41.72	19.287		
11,700.00	9,745.00	12,512.39	10,550.00	59.30	61.44	-179.97	-250.17	1,811.50	804.65	761.73	42.92	18.748		
11,800.00	9,745.00	12,612.39	10,550.00	61.29	63.38	-179.97	-250.20	1,911.50	804.65	760.50	44.14	18.228		
11,900.00	9,745.00	12,712.39	10,550.00	63.31	65.35	-179.97	-250.23	2,011.50	804.65	759.26	45.39	17.729		
12,000.00	9,745.00	12,812.39	10,550.00	65.35	67.35	-179.97	-250.26	2,111.50	804.65	758.00	46.65	17.248		
12,100.00	9,745.00	12,912.39	10,550.00	67.43	69.37	-179.97	-250.28	2,211.50	804.65	756.71	47.93	16.787		
12,200.00	9,745.00	13,012.39	10,550.00	69.52	71.42	-179.97	-250.31	2,311.50	804.65	755.42	49.23	16.344		
12,300.00	9,745.00	13,112.39	10,550.00	71.64	73.50	-179.98	-250.34	2,411.50	804.65	754.10	50.55	15.919		
12,400.00	9,745.00	13,212.39	10,550.00	73.77	75.59	-179.98	-250.37	2,511.50	804.65	752.77	51.87	15.512		
12,500.00	9,745.00	13,312.39	10,550.00	75.92	77.70	-179.98	-250.40	2,611.50	804.65	751.43	53.21	15.121		
12,600.00	9,745.00	13,412.39	10,550.00	78.09	79.84	-179.98	-250.42	2,711.50	804.65	750.08	54.57	14.746		
12,700.00	9,745.00	13,512.39	10,550.00	80.27	81.98	-179.98	-250.45	2,811.50	804.65	748.72	55.93	14.386		
12,800.00	9,745.00	13,612.39	10,550.00	82.47	84.15	-179.98	-250.48	2,911.50	804.65	747.34	57.31	14.041		
12,900.00	9,745.00	13,712.39	10,550.00	84.68	86.32	-179.98	-250.51	3,011.50	804.65	745.96	58.69	13.710		
13,000.00	9,745.00	13,812.39	10,550.00	86.90	88.51	-179.98	-250.54	3,111.50	804.65	744.56	60.09	13.392		
13,100.00	9,745.00	13,912.39	10,550.00	89.13	90.71	-179.98	-250.56	3,211.50	804.65	743.16	61.49	13.086		
13,200.00	9,745.00	14,012.39	10,550.00	91.37	92.92	-179.98	-250.59	3,311.50	804.65	741.75	62.90	12.793		
13,300.00	9,745.00	14,112.39	10,550.00	93.62	95.15	-179.99	-250.62	3,411.50	804.65	740.33	64.32	12.511		
13,400.00	9,745.00	14,212.39	10,550.00	95.88	97.38	-179.99	-250.65	3,511.50	804.65	738.91	65.74	12.240		
13,500.00	9,745.00	14,312.39	10,550.00	98.14	99.62	-179.99	-250.68	3,611.50	804.65	737.48	67.17	11.979		
13,600.00	9,745.00	14,412.39	10,550.00	100.42	101.87	-179.99	-250.70	3,711.50	804.65	736.04	68.61	11.728		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #225H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWVD													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	
13,700.00	9,745.00	14,512.39	10,550.00	102.70	104.13	179.99	-250.73	3,811.50	804.65	734.60	70.05	11.487		
13,800.00	9,745.00	14,612.39	10,550.00	104.98	106.39	179.99	-250.76	3,911.50	804.65	733.15	71.50	11.254		
13,900.00	9,745.00	14,712.39	10,550.00	107.27	108.66	179.99	-250.79	4,011.50	804.65	731.70	72.95	11.030		
14,000.00	9,745.00	14,812.39	10,550.00	109.57	110.94	179.99	-250.82	4,111.50	804.65	730.24	74.41	10.814		
14,100.00	9,745.00	14,912.39	10,550.00	111.88	113.22	179.99	-250.84	4,211.50	804.65	728.78	75.87	10.605		
14,200.00	9,745.00	15,012.39	10,550.00	114.19	115.51	180.00	-250.87	4,311.50	804.65	727.31	77.34	10.404		
14,300.00	9,745.00	15,112.39	10,550.00	116.50	117.81	180.00	-250.90	4,411.50	804.65	725.84	78.81	10.210		
14,400.00	9,745.00	15,212.39	10,550.00	118.82	120.11	180.00	-250.93	4,511.50	804.65	724.37	80.28	10.023		
14,500.00	9,745.00	15,312.39	10,550.00	121.14	122.41	180.00	-250.96	4,611.50	804.65	722.89	81.76	9.842		
14,600.00	9,745.00	15,412.39	10,550.00	123.46	124.63	180.00	-250.98	4,711.50	804.65	721.45	83.20	9.672		
14,618.22	9,745.00	15,430.62	10,550.00	123.89	124.92	-180.00	-250.99	4,729.72	804.65	721.25	83.40	9.648		



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #226H - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-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)					
4,900.00	4,877.11	4,906.52	4,878.60	18.27	17.62	-54.98	-1,718.79	-362.33	1,498.33	1,462.81	35.52	42.184	
4,992.19	4,968.40	4,984.77	4,969.89	18.66	17.89	-55.38	-1,718.79	-362.33	1,490.96	1,454.80	36.16	41.234	
5,000.00	4,976.14	5,007.49	4,977.63	18.69	17.97	-55.41	-1,718.79	-362.33	1,490.34	1,454.07	36.27	41.093	
5,100.00	5,075.36	5,108.27	5,076.85	19.09	18.32	-55.72	-1,718.79	-362.33	1,483.28	1,446.27	37.01	40.077	
5,200.00	5,174.87	5,208.76	5,176.36	19.49	18.66	-55.96	-1,718.79	-362.33	1,477.75	1,440.01	37.74	39.155	
5,300.00	5,274.61	5,309.02	5,276.10	19.86	19.00	-56.14	-1,718.79	-362.33	1,473.72	1,435.26	38.46	38.318	
5,400.00	5,374.50	5,409.13	5,375.99	20.22	19.35	-56.26	-1,718.79	-362.33	1,471.16	1,432.00	39.17	37.562	
5,500.00	5,474.48	5,509.15	5,475.97	20.57	19.69	-56.31	-1,718.79	-362.33	1,470.06	1,430.20	39.86	36.881	
5,525.52	5,500.00	5,516.37	5,501.49	20.65	19.72	179.73	-1,718.79	-362.33	1,470.02	1,430.05	39.97	36.778	
5,600.00	5,574.48	5,609.15	5,575.97	20.89	20.04	179.73	-1,718.79	-362.33	1,470.02	1,429.49	40.53	36.269	
5,700.00	5,674.48	5,709.15	5,675.97	21.21	20.38	179.73	-1,718.79	-362.33	1,470.02	1,428.82	41.20	35.679	
5,800.00	5,774.48	5,809.15	5,775.97	21.53	20.73	179.73	-1,718.79	-362.33	1,470.02	1,428.14	41.87	35.106	
5,900.00	5,874.48	5,909.15	5,875.97	21.85	21.08	179.73	-1,718.79	-362.33	1,470.02	1,427.47	42.55	34.551	
6,000.00	5,974.48	6,009.15	5,975.97	22.17	21.42	179.73	-1,718.79	-362.33	1,470.02	1,426.80	43.22	34.011	
6,100.00	6,074.48	6,109.15	6,075.97	22.49	21.77	179.73	-1,718.79	-362.33	1,470.02	1,426.12	43.90	33.487	
6,200.00	6,174.48	6,209.15	6,175.97	22.81	22.12	179.73	-1,718.79	-362.33	1,470.02	1,425.44	44.57	32.979	
6,300.00	6,274.48	6,309.15	6,275.97	23.14	22.47	179.73	-1,718.79	-362.33	1,470.02	1,424.76	45.25	32.484	
6,400.00	6,374.48	6,409.15	6,375.97	23.47	22.81	179.73	-1,718.79	-362.33	1,470.02	1,424.08	45.93	32.003	
6,500.00	6,474.48	6,509.15	6,475.97	23.79	23.16	179.73	-1,718.79	-362.33	1,470.02	1,423.40	46.61	31.536	
6,600.00	6,574.48	6,609.15	6,575.97	24.12	23.51	179.73	-1,718.79	-362.33	1,470.02	1,422.72	47.30	31.081	
6,700.00	6,674.48	6,709.15	6,675.97	24.45	23.86	179.73	-1,718.79	-362.33	1,470.02	1,422.04	47.98	30.639	
6,800.00	6,774.48	6,809.15	6,775.97	24.78	24.21	179.73	-1,718.79	-362.33	1,470.02	1,421.35	48.66	30.208	
6,900.00	6,874.48	6,909.15	6,875.97	25.11	24.56	179.73	-1,718.79	-362.33	1,470.02	1,420.67	49.35	29.789	
7,000.00	6,974.48	7,009.15	6,975.97	25.44	24.91	179.73	-1,718.79	-362.33	1,470.02	1,419.98	50.03	29.381	
7,100.00	7,074.48	7,109.15	7,075.97	25.77	25.26	179.73	-1,718.79	-362.33	1,470.02	1,419.30	50.72	28.983	
7,200.00	7,174.48	7,209.15	7,175.97	26.10	25.61	179.73	-1,718.79	-362.33	1,470.02	1,418.61	51.41	28.596	
7,300.00	7,274.48	7,309.15	7,275.97	26.44	25.96	179.73	-1,718.79	-362.33	1,470.02	1,417.92	52.09	28.218	
7,400.00	7,374.48	7,409.15	7,375.97	26.77	26.31	179.73	-1,718.79	-362.33	1,470.02	1,417.23	52.78	27.850	
7,500.00	7,474.48	7,509.15	7,475.97	27.11	26.66	179.73	-1,718.79	-362.33	1,470.02	1,416.54	53.47	27.491	
7,600.00	7,574.48	7,609.15	7,575.97	27.44	27.01	179.73	-1,718.79	-362.33	1,470.02	1,415.85	54.16	27.140	
7,700.00	7,674.48	7,709.15	7,675.97	27.78	27.37	179.73	-1,718.79	-362.33	1,470.02	1,415.16	54.85	26.798	
7,800.00	7,774.48	7,809.15	7,775.97	28.11	27.72	179.73	-1,718.79	-362.33	1,470.02	1,414.47	55.55	26.465	
7,900.00	7,874.48	7,909.15	7,875.97	28.45	28.07	179.73	-1,718.79	-362.33	1,470.02	1,413.78	56.24	26.139	
8,000.00	7,974.48	8,009.15	7,975.97	28.79	28.42	179.73	-1,718.79	-362.33	1,470.02	1,413.09	56.93	25.821	
8,100.00	8,074.48	8,109.15	8,075.97	29.12	28.77	179.73	-1,718.79	-362.33	1,470.02	1,412.39	57.63	25.510	
8,200.00	8,174.48	8,209.15	8,175.97	29.46	29.13	179.73	-1,718.79	-362.33	1,470.02	1,411.70	58.32	25.206	
8,300.00	8,274.48	8,309.15	8,275.97	29.80	29.48	179.73	-1,718.79	-362.33	1,470.02	1,411.00	59.01	24.910	
8,400.00	8,374.48	8,409.15	8,375.97	30.14	29.83	179.73	-1,718.79	-362.33	1,470.02	1,410.31	59.71	24.620	
8,500.00	8,474.48	8,509.15	8,475.97	30.48	30.18	179.73	-1,718.79	-362.33	1,470.02	1,409.61	60.40	24.336	
8,600.00	8,574.48	8,609.15	8,575.97	30.82	30.54	179.73	-1,718.79	-362.33	1,470.02	1,408.92	61.10	24.059	
8,700.00	8,674.48	8,709.15	8,675.97	31.16	30.89	179.73	-1,718.79	-362.33	1,470.02	1,408.22	61.80	23.788	
8,800.00	8,774.48	8,809.15	8,775.97	31.50	31.24	179.73	-1,718.79	-362.33	1,470.02	1,407.52	62.49	23.522	
8,900.00	8,874.48	8,909.15	8,875.97	31.84	31.60	179.73	-1,718.79	-362.33	1,470.02	1,406.82	63.19	23.263	
9,000.00	8,974.48	9,009.15	8,975.97	32.18	31.95	179.73	-1,718.79	-362.33	1,470.02	1,406.13	63.89	23.009	
9,100.00	9,074.48	9,109.15	9,075.97	32.53	32.30	179.73	-1,718.79	-362.33	1,470.02	1,405.43	64.59	22.760	
9,191.76	9,166.24	9,182.61	9,167.73	32.84	32.56	179.73	-1,718.79	-362.33	1,470.02	1,404.85	65.16	22.559	
9,200.00	9,174.48	9,209.15	9,175.97	32.87	32.66	89.70	-1,718.79	-362.33	1,470.02	1,404.73	65.29	22.516	
9,250.00	9,224.38	9,240.75	9,225.87	33.03	32.77	89.82	-1,718.79	-362.33	1,470.00	1,404.45	65.56	22.424	
9,285.58	9,259.64	9,276.01	9,261.13	33.13	32.89	90.00	-1,718.79	-362.33	1,470.00	1,404.21	65.79	22.345 CC	
9,300.00	9,273.84	9,309.79	9,275.33	33.17	33.01	90.10	-1,718.79	-362.33	1,470.00	1,404.05	65.95	22.290	
9,350.00	9,322.47	9,338.85	9,323.96	33.31	33.11	90.53	-1,718.79	-362.33	1,470.06	1,403.88	66.19	22.211	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #226H - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance		Minimum Separation		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	
9,450.00	9,415.82	9,432.20	9,417.31	33.56	33.44	91.74	-1,718.79	-362.33	1,470.83	1,404.07	66.76	22.032	
9,500.00	9,459.82	9,476.20	9,461.31	33.67	33.60	92.45	-1,718.79	-362.33	1,471.82	1,404.80	67.02	21.960	
9,550.00	9,501.59	9,517.96	9,503.08	33.77	33.75	93.18	-1,718.79	-362.33	1,473.44	1,406.17	67.28	21.901	
9,600.00	9,540.80	9,557.17	9,542.29	33.87	33.89	93.88	-1,718.79	-362.33	1,475.89	1,408.37	67.52	21.858	
9,650.00	9,577.17	9,606.46	9,578.66	33.97	34.06	94.50	-1,718.79	-362.33	1,479.34	1,411.54	67.80	21.818	
9,700.00	9,610.40	9,626.77	9,611.89	34.07	34.13	94.99	-1,718.79	-362.33	1,484.00	1,416.00	67.99	21.825	
9,750.00	9,640.26	9,656.63	9,641.75	34.18	34.24	95.31	-1,718.79	-362.33	1,490.02	1,421.79	68.23	21.838	
9,800.00	9,666.50	9,682.88	9,667.99	34.31	34.33	95.42	-1,718.79	-362.33	1,497.56	1,429.09	68.47	21.872	
9,850.00	9,688.94	9,705.32	9,690.43	34.46	34.41	95.26	-1,718.79	-362.33	1,506.72	1,438.01	68.71	21.928	
9,900.00	9,707.41	9,723.78	9,708.90	34.65	34.48	94.82	-1,718.79	-362.33	1,517.59	1,448.63	68.96	22.006	
9,950.00	9,721.75	9,738.12	9,723.24	34.87	34.53	94.05	-1,718.79	-362.33	1,530.19	1,460.97	69.22	22.106	
9,991.76	9,730.49	9,746.86	9,731.98	35.07	34.56	93.15	-1,718.79	-362.33	1,542.03	1,472.59	69.44	22.207	
10,000.00	9,731.89	9,748.26	9,733.38	35.11	34.56	93.05	-1,718.79	-362.33	1,544.50	1,475.02	69.48	22.229	
10,050.00	9,738.85	9,755.22	9,740.34	35.40	34.59	92.31	-1,718.79	-362.33	1,560.41	1,490.65	69.75	22.371	
10,100.00	9,743.21	11,066.66	10,550.00	35.71	42.11	120.73	-1,584.24	378.65	1,568.18	1,500.27	67.91	23.093	
10,150.00	9,744.96	11,100.00	10,550.00	36.06	42.46	121.07	-1,580.39	411.77	1,562.27	1,493.80	68.48	22.815	
10,158.43	9,745.00	11,100.00	10,550.00	36.12	42.46	121.11	-1,580.39	411.77	1,561.46	1,492.94	68.52	22.788	
10,200.00	9,745.00	11,125.05	10,550.00	36.43	42.75	121.16	-1,577.88	436.69	1,557.88	1,488.88	69.00	22.577	
10,300.00	9,745.00	11,183.80	10,550.00	37.30	43.44	121.25	-1,573.27	495.26	1,551.12	1,480.87	70.25	22.080	
10,400.00	9,745.00	11,242.79	10,550.00	38.30	44.17	121.31	-1,570.45	554.18	1,547.01	1,475.32	71.69	21.580	
10,500.00	9,745.00	11,310.70	10,550.00	39.42	45.04	121.33	-1,569.45	611.01	1,545.53	1,472.15	73.38	21.063	
10,600.00	9,745.00	11,400.37	10,550.00	40.66	46.26	121.33	-1,569.49	711.01	1,545.53	1,470.02	75.51	20.469	
10,700.00	9,745.00	11,500.37	10,550.00	41.99	47.71	121.33	-1,569.53	811.01	1,545.52	1,467.60	77.92	19.835	
10,800.00	9,745.00	11,600.37	10,550.00	43.43	49.23	121.33	-1,569.57	911.01	1,545.52	1,465.03	80.48	19.203	
10,900.00	9,745.00	11,700.37	10,550.00	44.95	50.82	121.33	-1,569.60	1,011.01	1,545.51	1,462.32	83.19	18.579	
11,000.00	9,745.00	11,800.37	10,550.00	46.54	52.47	121.33	-1,569.64	1,111.01	1,545.50	1,459.49	86.01	17.969	
11,100.00	9,745.00	11,900.37	10,550.00	48.21	54.18	121.33	-1,569.68	1,211.01	1,545.50	1,456.55	88.95	17.375	
11,200.00	9,745.00	12,000.37	10,550.00	49.93	55.95	121.33	-1,569.71	1,311.01	1,545.49	1,453.51	91.99	16.801	
11,300.00	9,745.00	12,100.37	10,550.00	51.71	57.76	121.33	-1,569.75	1,411.01	1,545.49	1,450.37	95.11	16.249	
11,400.00	9,745.00	12,200.37	10,550.00	53.55	59.61	121.33	-1,569.79	1,511.01	1,545.48	1,447.16	98.33	15.718	
11,500.00	9,745.00	12,300.37	10,550.00	55.42	61.51	121.33	-1,569.83	1,611.01	1,545.48	1,443.87	101.61	15.210	
11,600.00	9,745.00	12,400.37	10,550.00	57.34	63.44	121.33	-1,569.86	1,711.01	1,545.47	1,440.51	104.97	14.724	
11,700.00	9,745.00	12,500.37	10,550.00	59.30	65.41	121.33	-1,569.90	1,811.01	1,545.47	1,437.09	108.38	14.260	
11,800.00	9,745.00	12,600.37	10,550.00	61.29	67.40	121.33	-1,569.94	1,911.01	1,545.46	1,433.61	111.85	13.817	
11,900.00	9,745.00	12,700.37	10,550.00	63.31	69.42	121.33	-1,569.97	2,011.01	1,545.46	1,430.09	115.37	13.396	
12,000.00	9,745.00	12,800.37	10,550.00	65.35	71.47	121.33	-1,570.01	2,111.01	1,545.45	1,426.52	118.94	12.994	
12,100.00	9,745.00	12,900.37	10,550.00	67.43	73.54	121.33	-1,570.05	2,211.01	1,545.45	1,422.90	122.55	12.611	
12,200.00	9,745.00	13,000.37	10,550.00	69.52	75.63	121.33	-1,570.09	2,311.01	1,545.44	1,419.25	126.19	12.247	
12,300.00	9,745.00	13,100.37	10,550.00	71.64	77.74	121.33	-1,570.12	2,411.01	1,545.44	1,415.56	129.88	11.899	
12,400.00	9,745.00	13,200.37	10,550.00	73.77	79.87	121.33	-1,570.16	2,511.01	1,545.43	1,411.84	133.59	11.568	
12,500.00	9,745.00	13,300.37	10,550.00	75.92	82.01	121.33	-1,570.20	2,611.01	1,545.43	1,408.10	137.33	11.253	
12,600.00	9,745.00	13,400.37	10,550.00	78.09	84.17	121.33	-1,570.24	2,711.01	1,545.42	1,404.32	141.11	10.952	
12,700.00	9,745.00	13,500.37	10,550.00	80.27	86.34	121.33	-1,570.27	2,811.01	1,545.42	1,400.52	144.90	10.665	
12,800.00	9,745.00	13,600.37	10,550.00	82.47	88.53	121.33	-1,570.31	2,911.01	1,545.41	1,396.69	148.72	10.391	
12,900.00	9,745.00	13,700.37	10,550.00	84.68	90.73	121.33	-1,570.35	3,011.01	1,545.41	1,392.85	152.56	10.130	
13,000.00	9,745.00	13,800.37	10,550.00	86.90	92.94	121.33	-1,570.38	3,111.01	1,545.40	1,388.98	156.42	9.880	
13,100.00	9,745.00	13,900.37	10,550.00	89.13	95.16	121.33	-1,570.42	3,211.01	1,545.40	1,385.10	160.30	9.641	
13,200.00	9,745.00	14,000.37	10,550.00	91.37	97.39	121.33	-1,570.46	3,311.01	1,545.39	1,381.20	164.20	9.412	
13,300.00	9,745.00	14,100.37	10,550.00	93.62	99.63	121.33	-1,570.50	3,411.01	1,545.39	1,377.28	168.11	9.193	
13,400.00	9,745.00	14,200.37	10,550.00	95.88	101.87	121.33	-1,570.53	3,511.01	1,545.38	1,373.35	172.04	8.983	
13,500.00	9,745.00	14,300.37	10,550.00	98.14	104.13	121.33	-1,570.57	3,611.01	1,545.38	1,369.40	175.98	8.782	



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Offset Design Zach McCormick Federal 18-24S-29E RB - #226H - Wellbore #1 - Design #1													Offset Site Error:	0 00 usft
Survey Program: 0-MWD													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 Centras (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
13,700.00	9,745.00	14,500.37	10,550.00	102.70	108.66	121.33	-1,570.64	3,811.01	1,545.37	1,361.47	183.90	8.403		
13,800.00	9,745.00	14,600.37	10,550.00	104.98	110.94	121.33	-1,570.68	3,911.01	1,545.36	1,357.49	187.87	8.226		
13,900.00	9,745.00	14,700.37	10,550.00	107.27	113.22	121.33	-1,570.72	4,011.01	1,545.36	1,353.50	191.86	8.055		
14,000.00	9,745.00	14,800.37	10,550.00	109.57	115.51	121.33	-1,570.76	4,111.01	1,545.35	1,349.49	195.86	7.890		
14,100.00	9,745.00	14,900.37	10,550.00	111.88	117.80	121.33	-1,570.79	4,211.01	1,545.35	1,345.48	199.87	7.732		
14,200.00	9,745.00	15,000.37	10,550.00	114.19	120.10	121.33	-1,570.83	4,311.01	1,545.34	1,341.46	203.88	7.580		
14,300.00	9,745.00	15,100.37	10,550.00	116.50	122.41	121.33	-1,570.87	4,411.01	1,545.34	1,337.43	207.91	7.433		
14,400.00	9,745.00	15,200.37	10,550.00	118.82	124.71	121.33	-1,570.91	4,511.01	1,545.33	1,333.40	211.94	7.291		
14,500.00	9,745.00	15,300.37	10,550.00	121.14	127.03	121.33	-1,570.94	4,611.01	1,545.33	1,329.35	215.98	7.155		
14,600.00	9,745.00	15,399.63	10,550.00	123.46	129.33	121.33	-1,570.98	4,711.01	1,545.32	1,325.31	220.01	7.024		
14,618.22	9,745.00	15,417.85	10,550.00	123.89	129.75	121.33	-1,570.99	4,729.23	1,545.32	1,324.58	220.75	7.000 ES, SF		



Anticollision Report

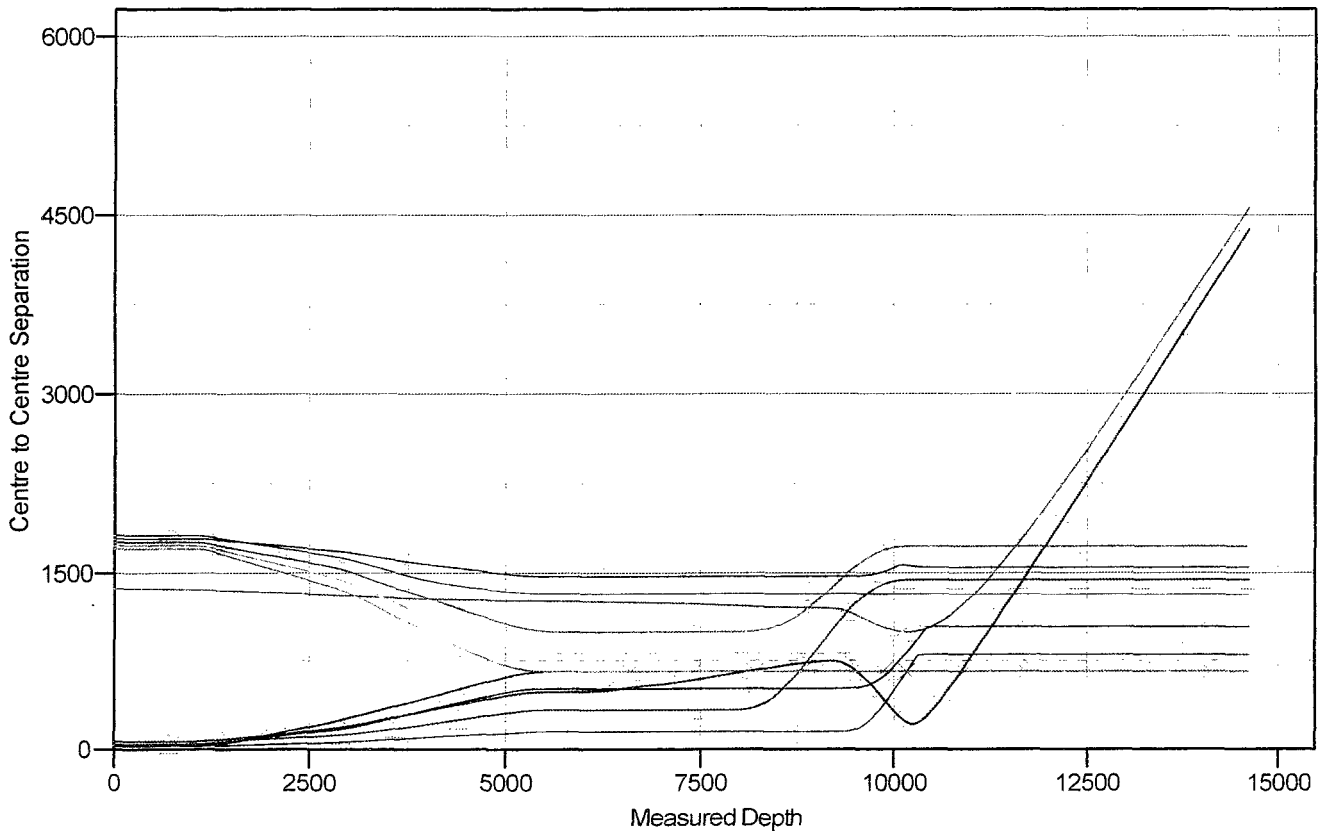


Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 2981.60usft (Patterson 297) Coordinates are relative to: #205H
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.16°

Ladder Plot



LEGEND

- | | | |
|------------------------------------|------------------------------------|------------------------------------|
| — #1, 122H, Surveys V0 | — #225H, Wellbore #1, Design #1 V0 | — #122H, Wellbore #1, Design #1 V0 |
| — #222H, Wellbore #1, Design #1 V0 | — #121H, Wellbore #1, Design #1 V0 | — #206H, Wellbore #1, Design #1 V0 |
| — #1, Wellbore #1, Surveys V0 | — #201H, Wellbore #1, Design #1 V0 | — #226H, Wellbore #1, Design #1 V0 |
| — #221H, Wellbore #1, Design #1 V0 | — #202H, Wellbore #1, Design #1 V0 | |



Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Zach McCormick Federal 18-24S-29E RB
Site Error: 0.00 usft
Reference Well: #205H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well #205H
TVD Reference: WELL @ 2981.60usft (Patterson 297)
MD Reference: WELL @ 2981.60usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Conroe DB
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 2981.60usft (Patterson 297) Coordinates are relative to: #205H

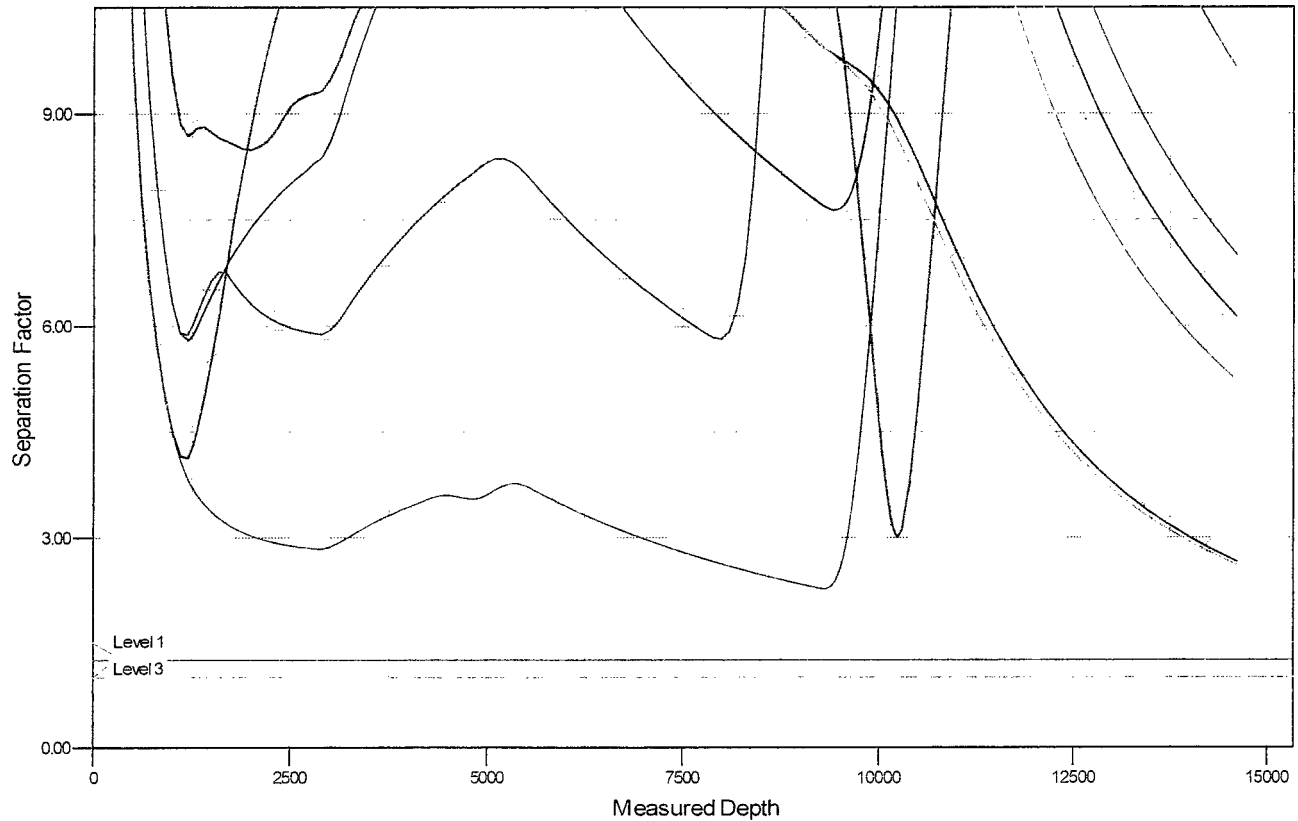
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

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

Grid Convergence at Surface is: 0.16°

Separation Factor Plot



LEGEND

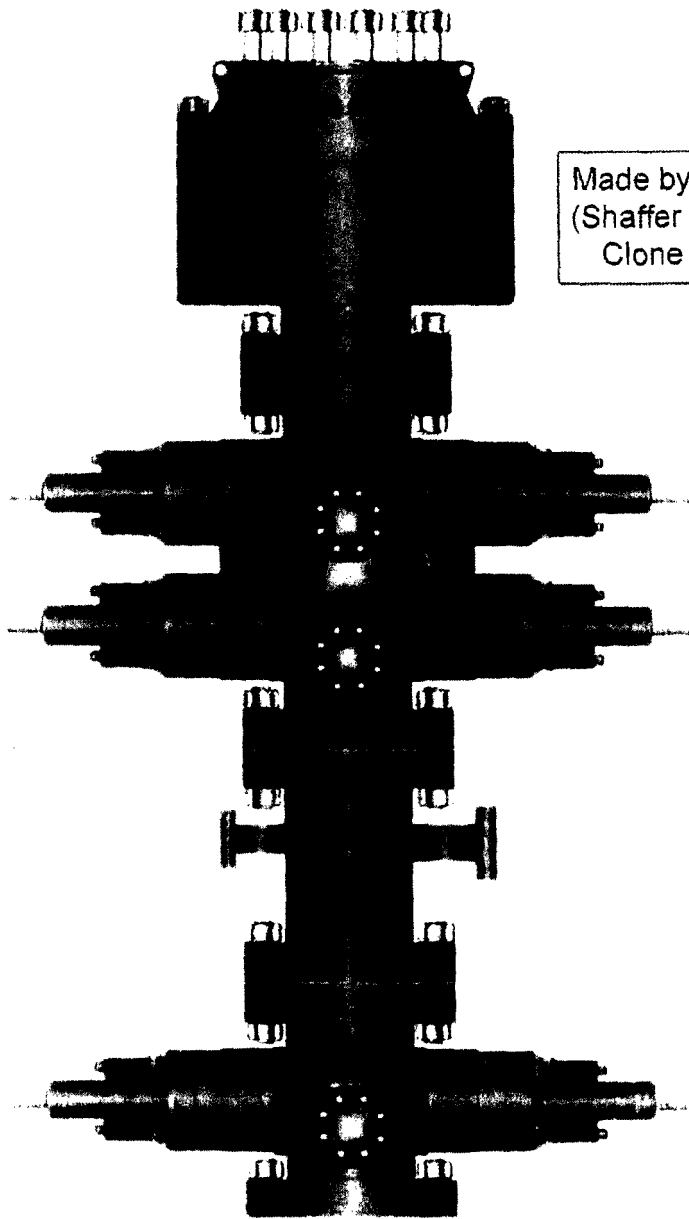
- | | | |
|----------------------------------|----------------------------------|----------------------------------|
| #1, 122H, Surveys V0 | #225H, Wellbore #1, Design #1 V0 | #122H, Wellbore #1, Design #1 V0 |
| #222H, Wellbore #1, Design #1 V0 | #121H, Wellbore #1, Design #1 V0 | #206H, Wellbore #1, Design #1 V0 |
| #1, Wellbore #1, Surveys V0 | #201H, Wellbore #1, Design #1 V0 | #226H, Wellbore #1, Design #1 V0 |
| #221H, Wellbore #1, Design #1 V0 | #202H, Wellbore #1, Design #1 V0 | |



PATTERSON-UTI

Well Control

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

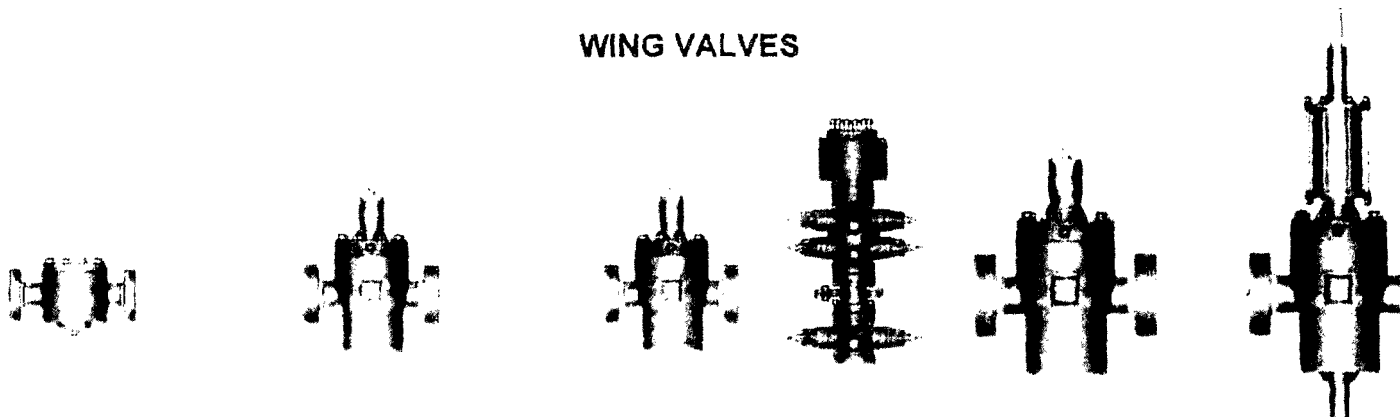
STYLE: New Cameron Type U

BORE 13 5/8" PRESSURE 10,000

RAMS: 5" Pipe

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

WING VALVES



3. PRESSURE CONTROL

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

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

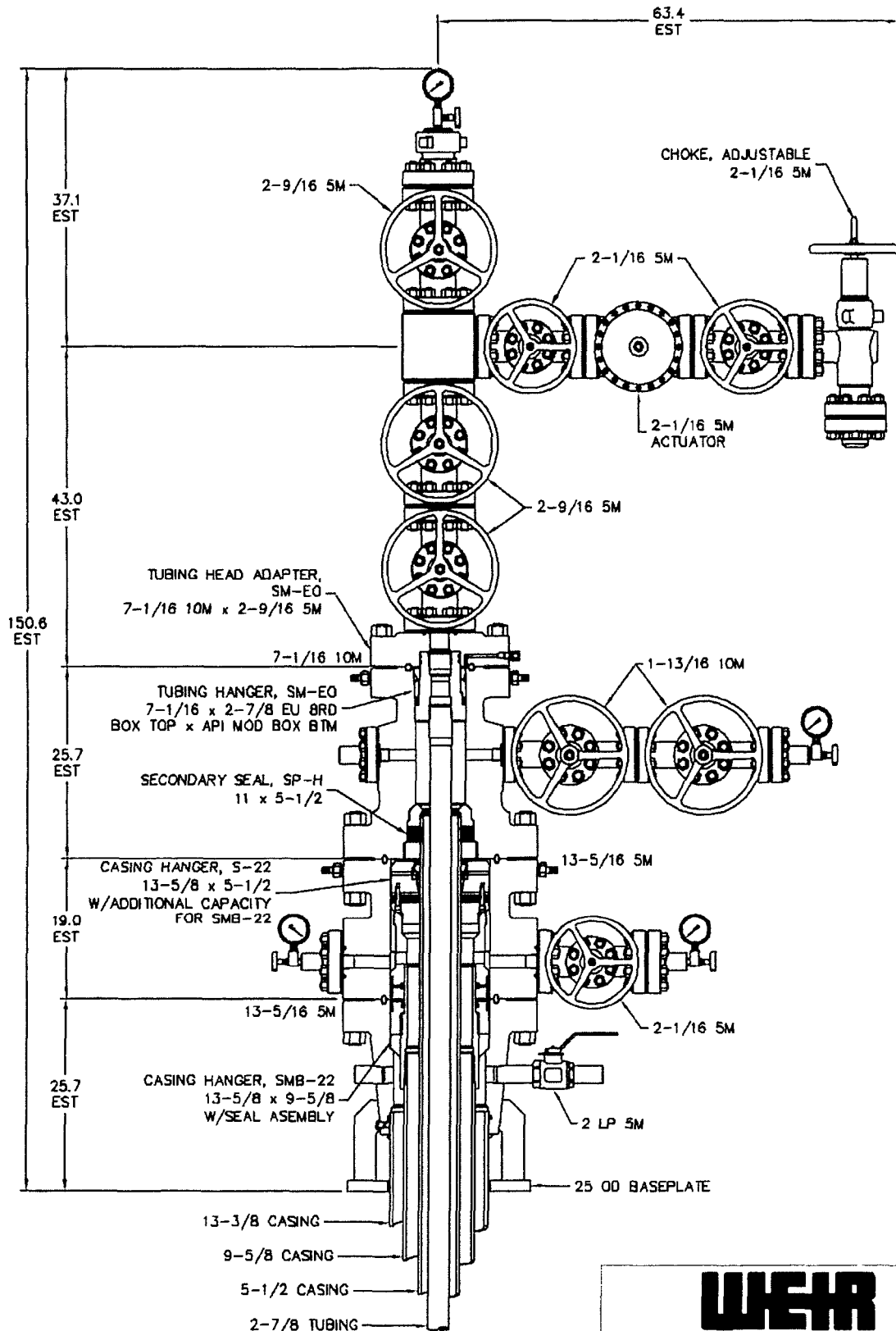
Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as recommended in Onshore Order 2. A Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

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, BOP pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate, pressure tests will be made to 250 psi low and 3000 psi high. The annular preventer will be tested to 250 psi low and 1000 psi high on the surface casing, and 250 psi low and 2500 psi high on the intermediate casing. In the case of running a speed head with landing mandrel for 9-5/8" casing the initial, after surface casing is set, BOP test pressures will be 250 psi low and 3000 psi high with wellhead seals tested to 5000 psi once the 9-5/8" casing has been landed and cemented.

The BOP will then be lifted to install the 'C-section' of the wellhead. Matador will nipple the BOP back up and the pressure tests will be made to 250 psi low and 5000 psi high and the annular will be tested to 250 psi low and 2500 psi high.

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

MATADOR PROD. CO.
TIGER 14-24S-28E RB #124H
HO-35272



NOTE:
DIMENSIONS SHOWN ON THIS DRAWING ARE
ESTIMATES ONLY AND CAN VARY SIGNIFICANTLY
DEPENDING ON RAW MATERIAL LENGTHS.
NO GUARANTEE OF STACKUP HEIGHT IS IMPLIED.
DIMENSIONS SHOWN SHOULD BE CONSIDERED
FOR REFERENCE PURPOSES ONLY.

RESTRICTED CONFIDENTIAL DOCUMENT

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SYSTEM, WITHOUT PERMISSION IN WRITING FROM BEARINGS
INTERNATIONAL, INC.

WEIR
OIL & GAS

5,000 PSI WELLHEAD ASSEMBLY
13-3/8 X 9-5/8 X 5-1/2 X 2-7/8

DATE	BY	SCALE	DATE	REV
17APR15	RPL	1:13	17APR15	
DRAWING NO.		00-000475		



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

December 8, 2014

Customer: Patterson

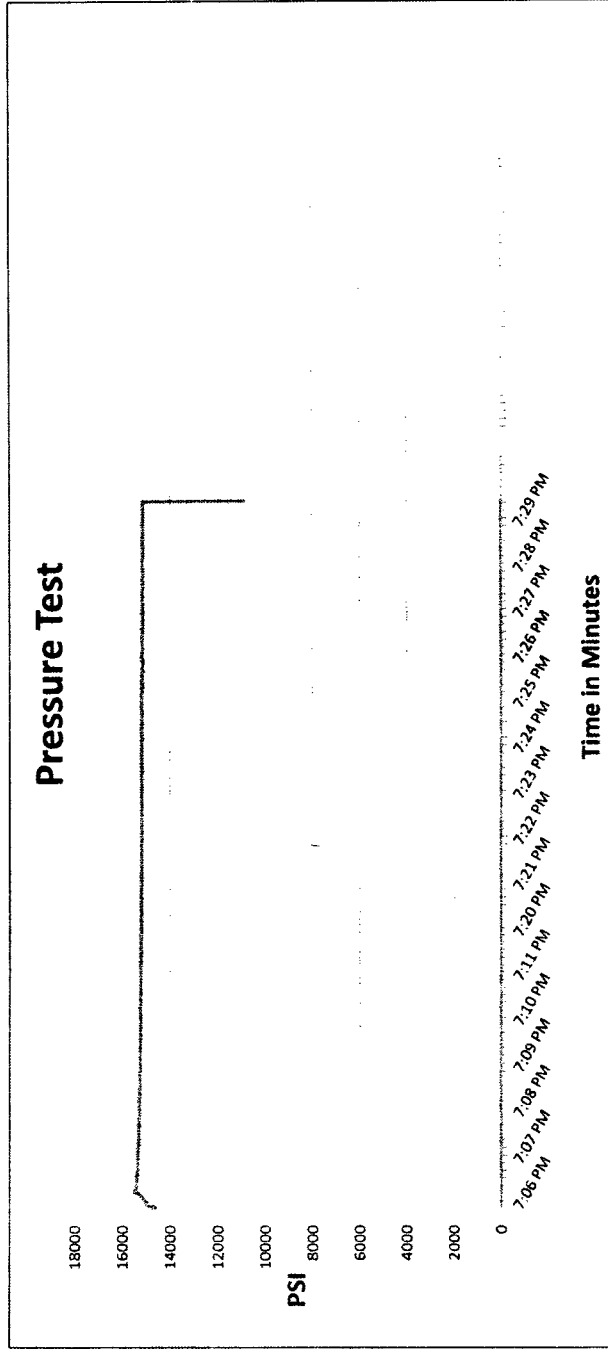
Pick Ticket #: 284918

Hose Specifications

Hose Type: CK
Length: 10'
I.D.: 3"
O.D.: 4.79"
Working Pressure: 10000 PSI
Standard Safety Multiplier Applies

Verification

Type of Fitting: 4-1/16 10K
Coupling Method: Swage
Die Size: 5.37"
Final O.D.: 5.37"
Hose Serial #: 10490
Hose Assembly Serial #: 284918-2



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



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

December 9, 2014

Customer: Patterson

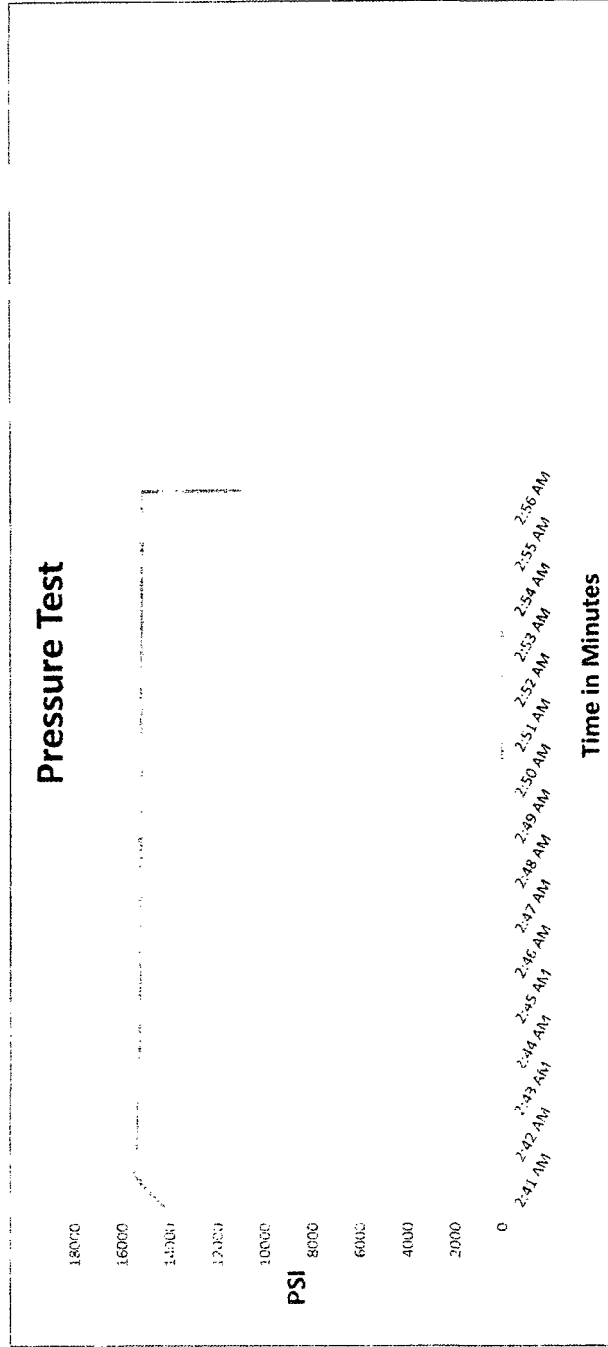
Pick Ticket #: 284918

Hose Specifications

Hose Type: Ck
Length: 20'
I.D.: 3"
Working Pressure: 10000 PSI
Standard Safety Multiplier Applies

Verification

Type of Fitting: 4-1/16 10K
Die Size: 5.37"
Coupling Method: Swage
Final O.D.: 5.40"
Hose Serial #: 10490
Hose Assembly Serial #: 284918-1



Test Pressure: 15000 PSI
Time Held at Test Pressure: 15 2/4 Minutes
Actual Burst Pressure: 15893 PSI
Peak Pressure: 15893 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 #)	287918-1	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



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

December 9, 2014

Customer: Patterson

Pick Ticket #: 284918

Midwest Hose
& Specialty, Inc.

Hose Specifications

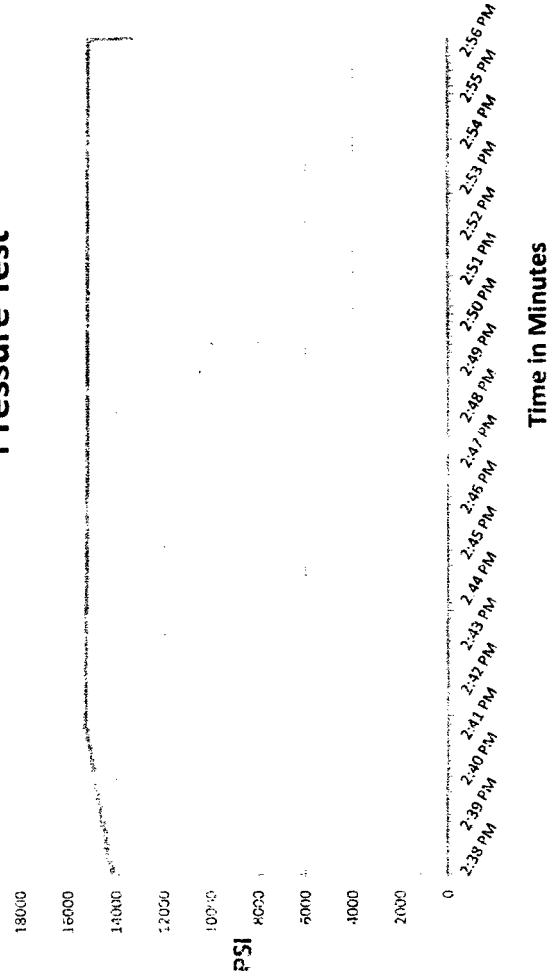
Hose Type
Mud
I.D.
3"
Working Pressure
10000 PSI

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



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

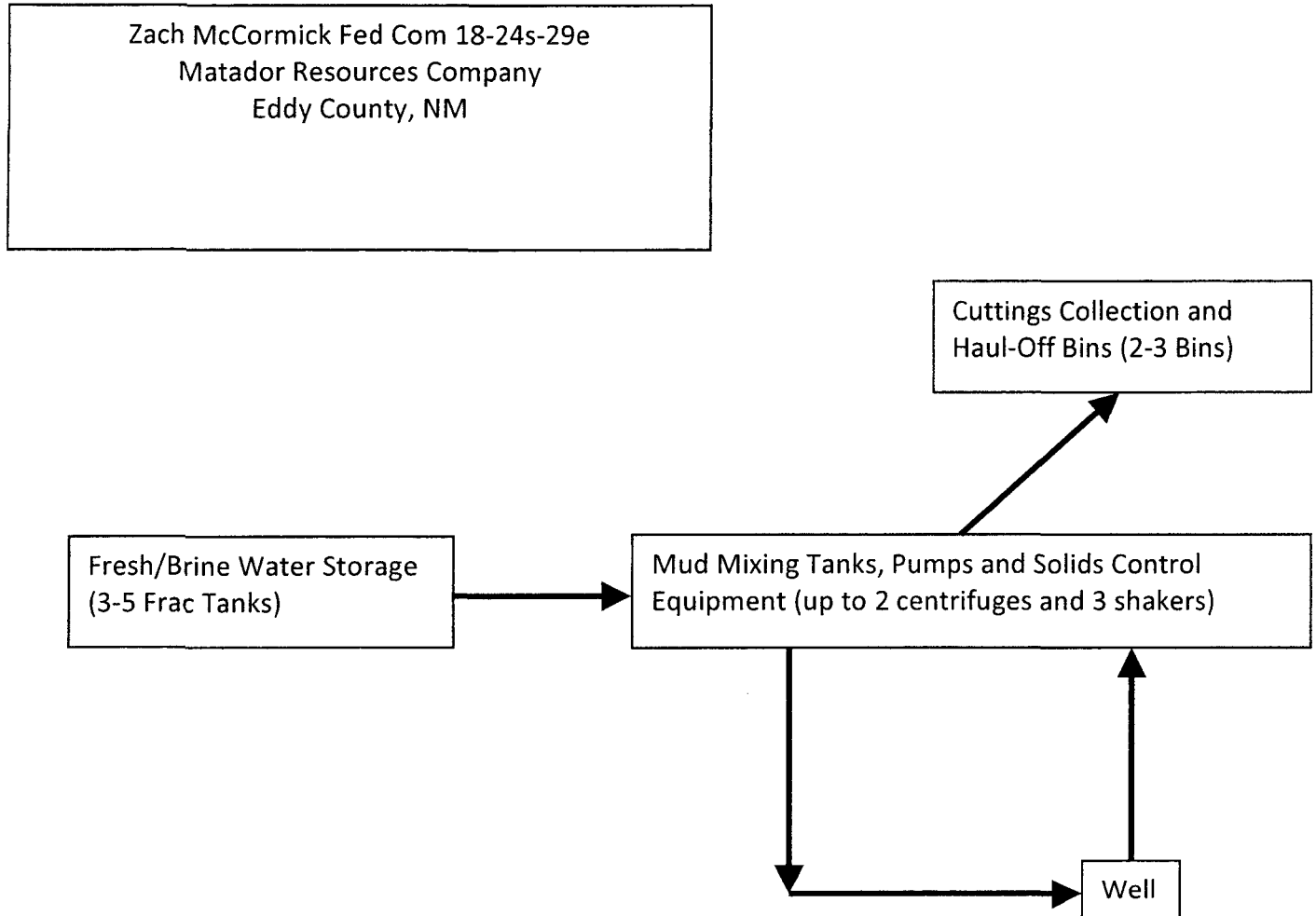
Comments:

Approved By

Date

12/9/2014

Closed-Loop System

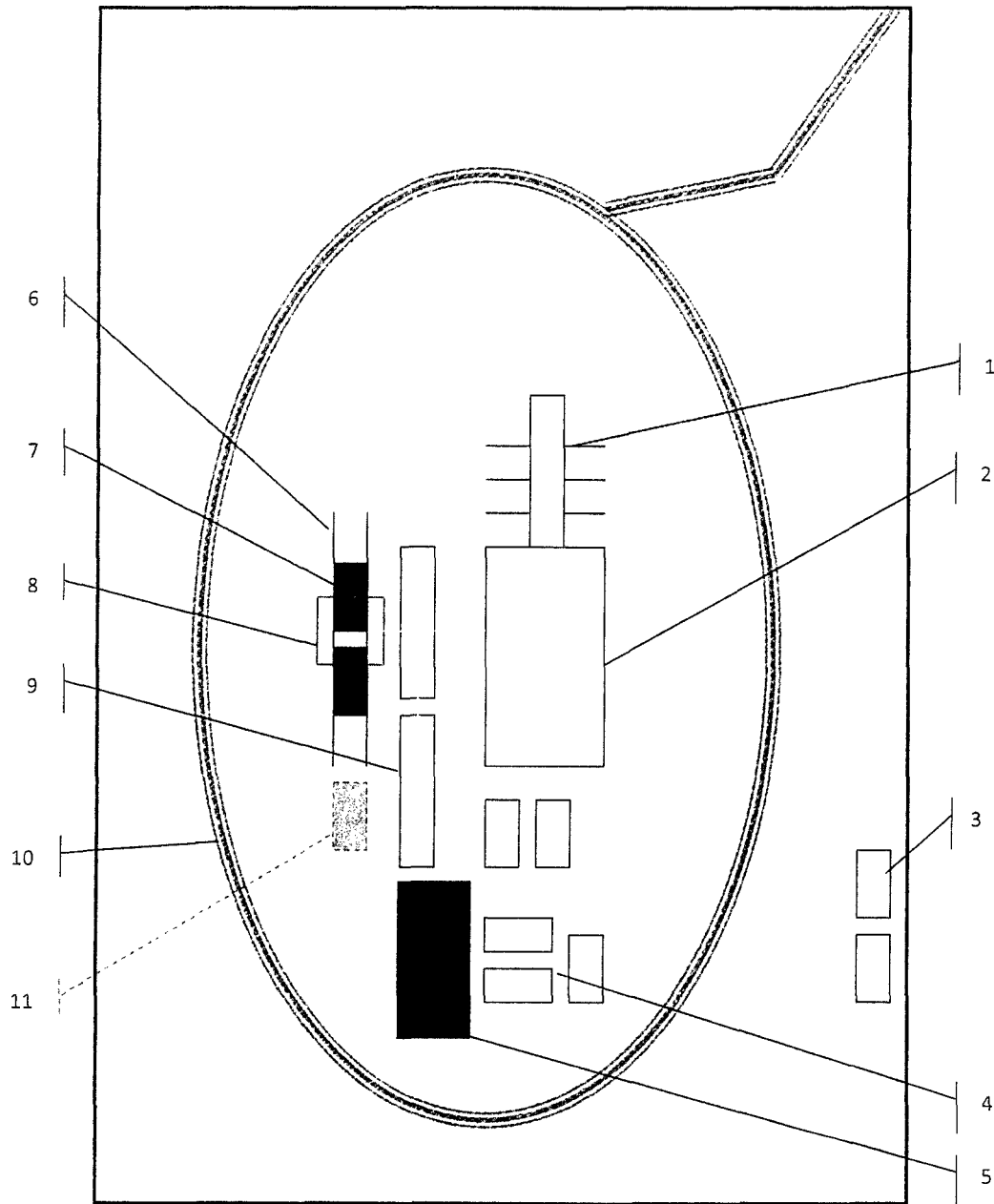


Operating and Maintenance Plan:

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

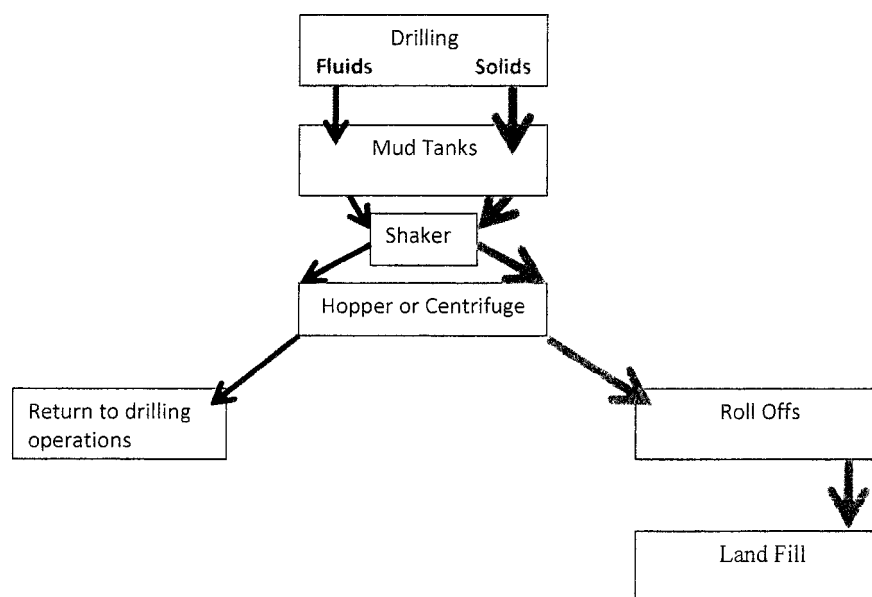


Above: Centrifugal Closed Loop System



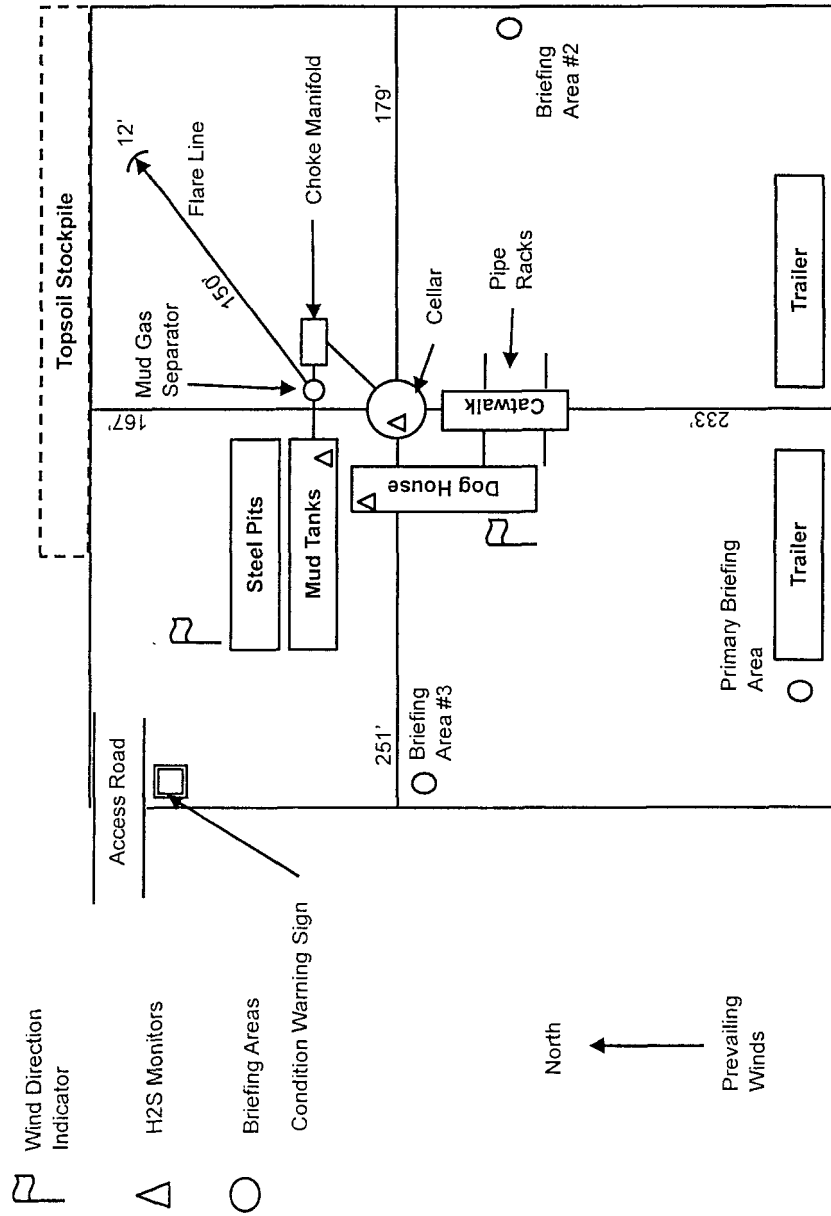
Closed Loop Drilling System: Mud tanks to right (1)
 Hopper in air to settle out solids (2)
 Water return pipe (3)
 Shaker between hopper and mud tanks (4)
 Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids



Rig Diagram

Zach McCormick 205H
18-24S-29E Eddy County, NM
SHL 742' FNL & 321' FWL
BHL 991' FNL & 240' FEL





Hydrogen Sulfide Drilling Operations Plan

Matador Production Company

1 H2S safety instructions covering:

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

2 H2S Detection and Alarm Systems:

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

3 Windsocks and / Wind Streamers:

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

4 Condition Flags and Signs:

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

5 Well Control Equipment:

- See APD

6 Communications:

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



7 Drill Stem Testing:

- No DST or cores are planned at this time.

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

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

11 Emergency Contacts

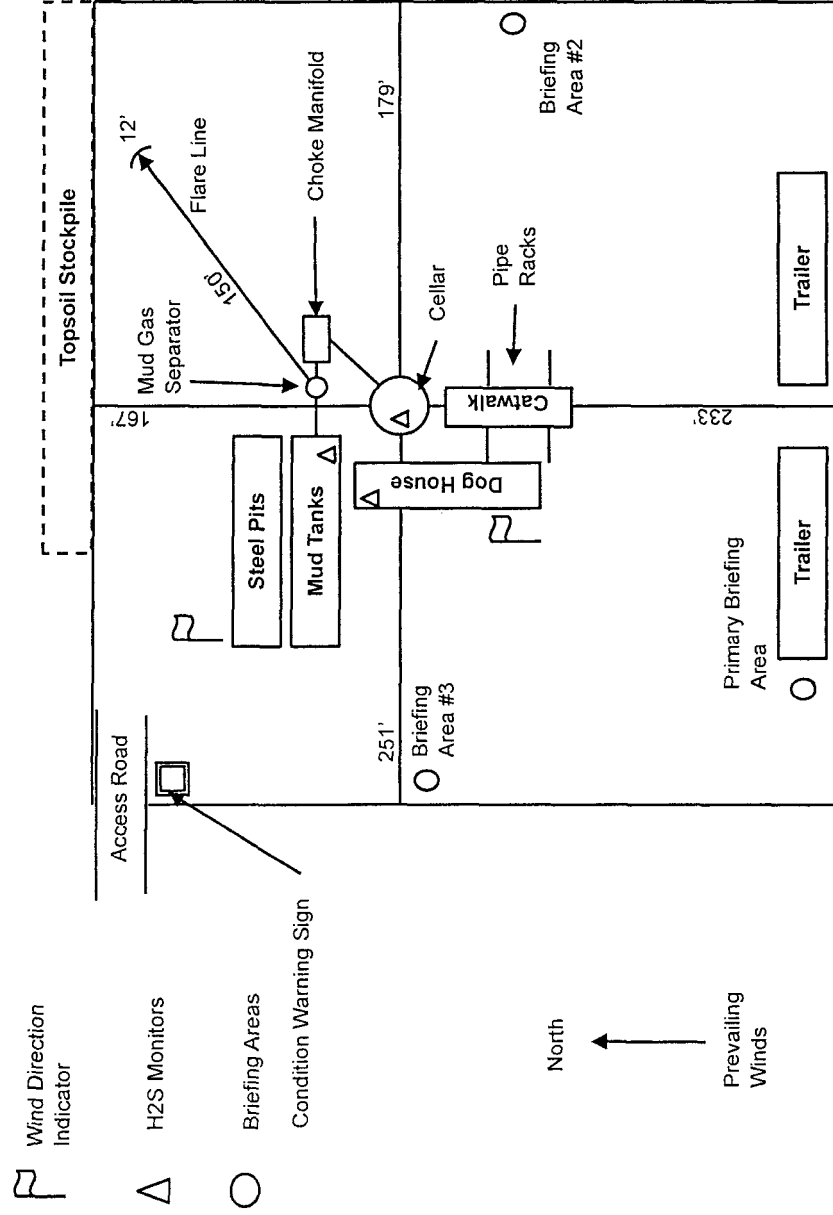
- See next page

H2S Contingency Plan Emergency Contacts
Matador Production Company
Zach McCormick Fed Com 18-24s-29e wells, Eddy County, NM

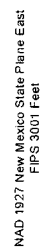
<u>Company Office</u>			
Matador Production Company	(972)-371-5200		
<u>Key Personnel</u>			
Name	Title	Office	Mobile
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Aaron Byrd	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	
Loving City Police		575-745-3511	
Sheriff's Office		575-887-7551	
Malaga Fire Department		575-745-2317	
Local Emergency Planning Committee		575-885-3581	
<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
Halliburton		575-746-2757	
B.J. Services		575-746-3569	

H2S Rig Diagram

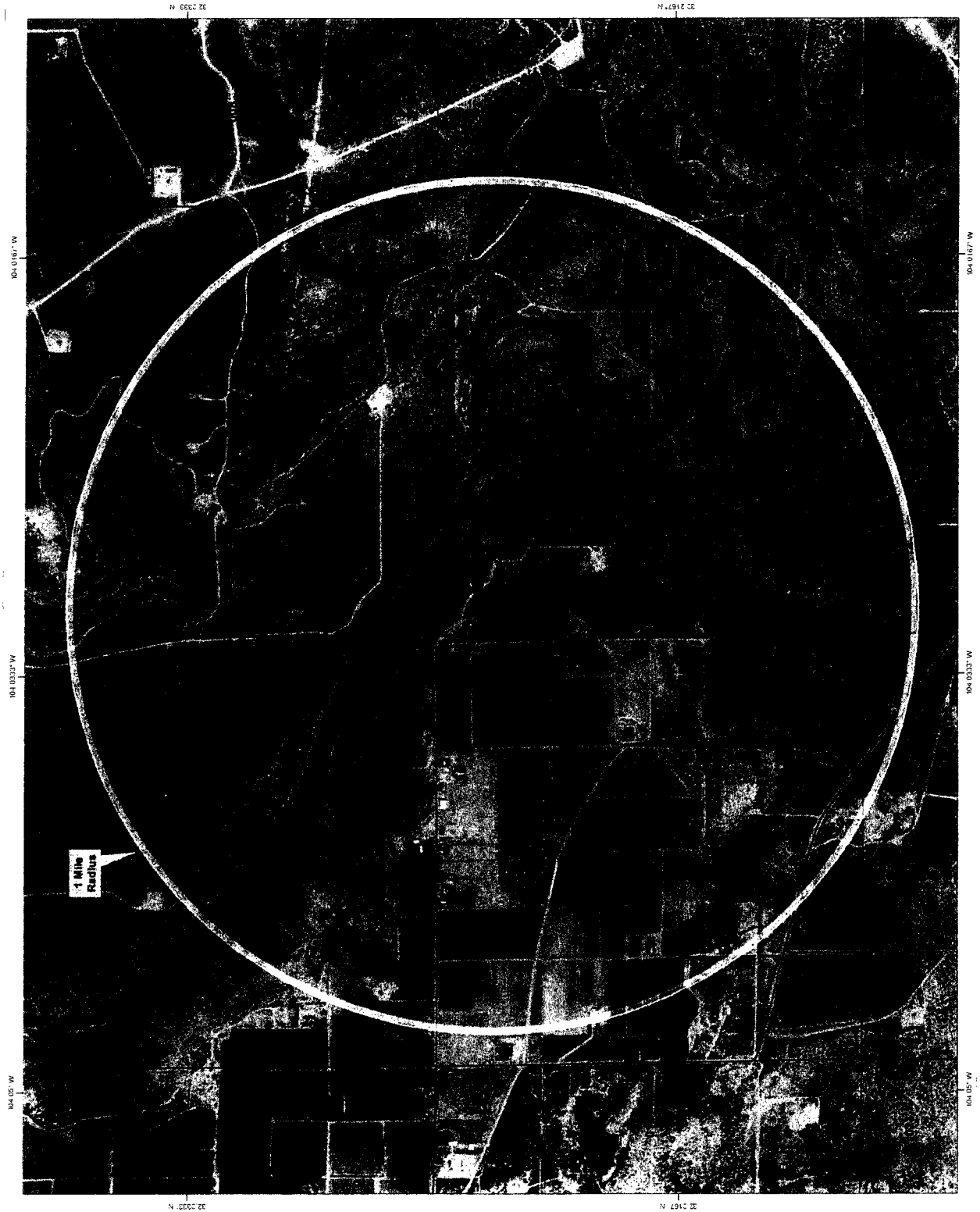
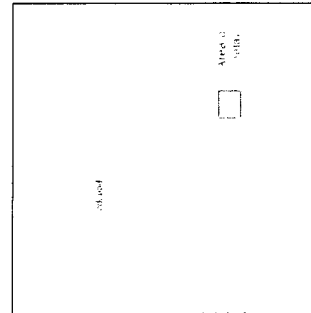
Zach McCormick Fed Com 205H
18-24S-29E Eddy County, NM
SHL 742' FNL & 321' FWL
BHL 991' FNL & 240' FEL



Zach McCormick Federal Com
18-24S-29E RB #205H
H2S Contingency Plan:
1 Mile Radius Map

 Surface Hole Location

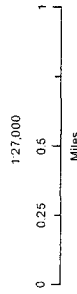
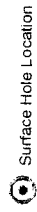
Prepared by Pernits West, Inc., June 22, 2016
for Matador Production Company



Matador Production Company

Zach McCormick Federal Com
18-24S-29E RB #205H
H2S Contingency Plan:
2 Mile Radius Map

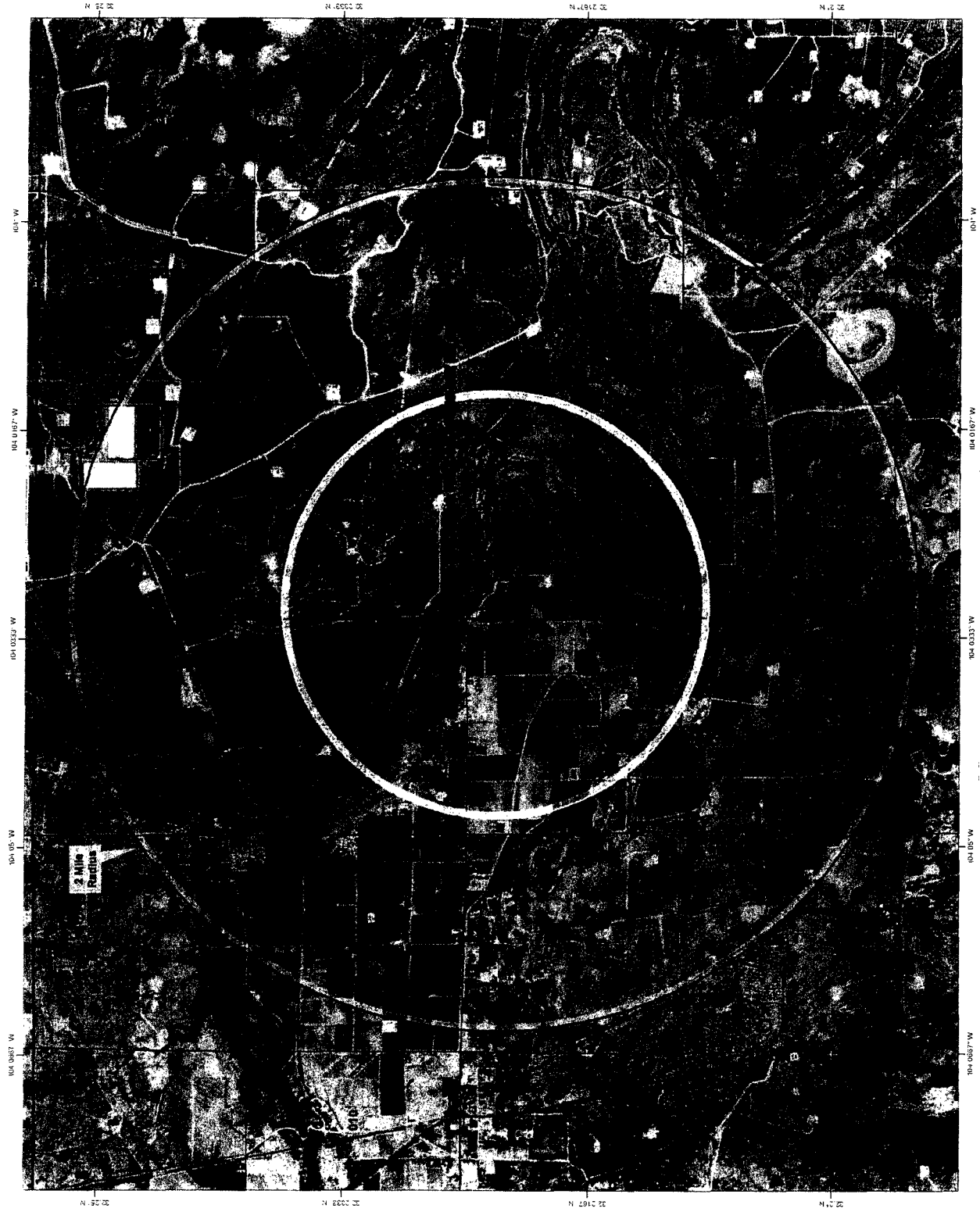
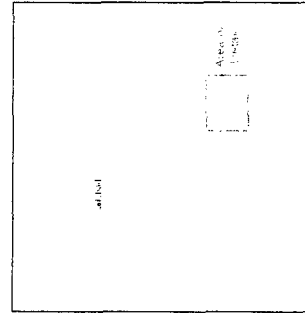
Section 18, Township 24S, Range 29E
Eddy County, New Mexico



NAD 1927 New Mexico State Plane East
FPS 3001 Feet



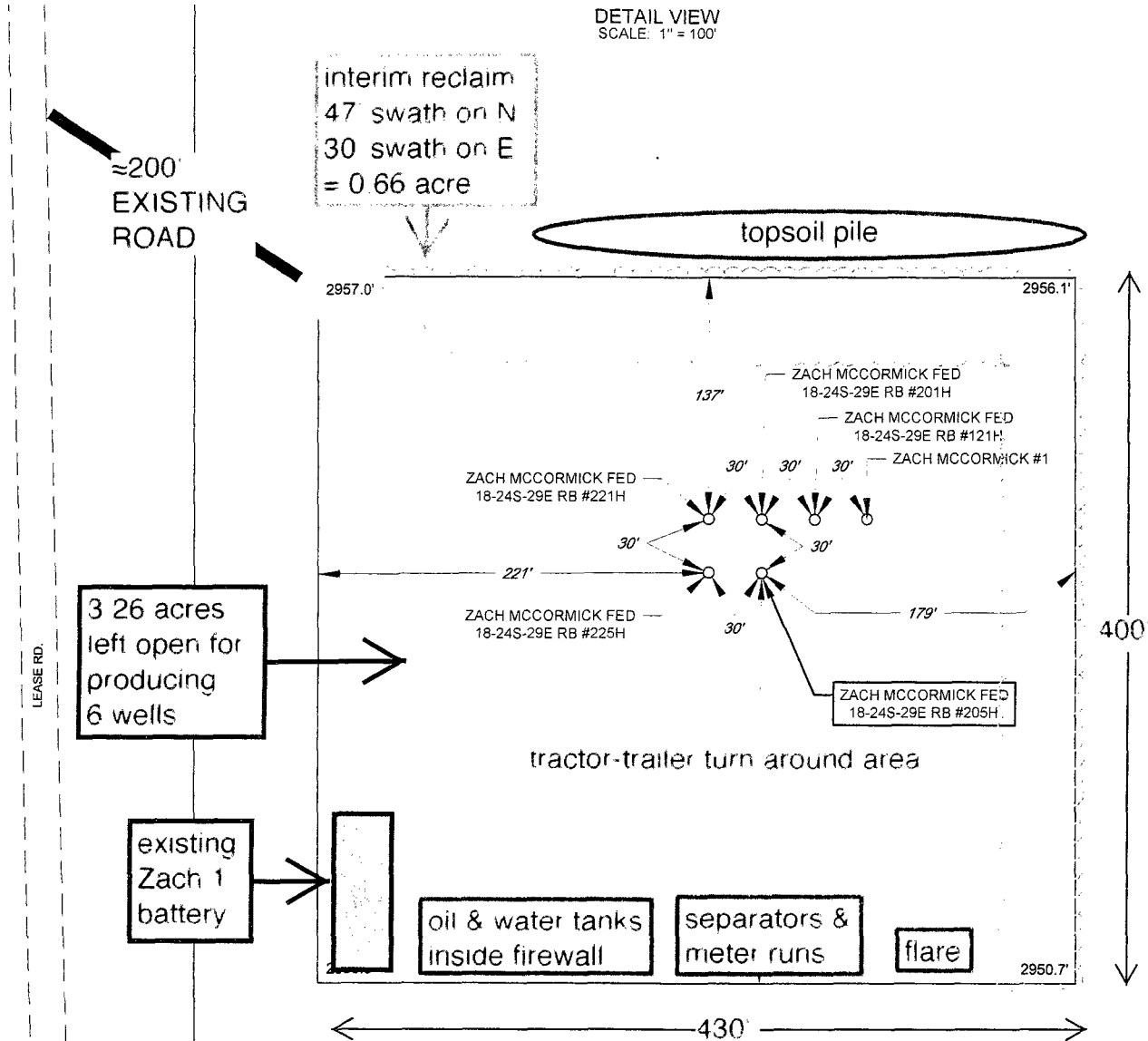
Prepared by Permits West, Inc., June 22, 2016
for Matador Production Company





SECTION 18, TOWNSHIP 24-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



PRODUCTION FACILITY & INTERIM RECLAMATION DIAGRAM

LEGEND

- EXISTING ROAD
- SECTION LINE
- EXISTING PIPELINE

LEASE NAME & WELL NO.: ZACH MCCORMICK FEDERAL 18-24S-29E RB #205H

#205H LATITUDE N 32.2228552 #205H LONGITUDE W 104.0307344

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.



Matador Production Company
Zach McCormick Fed Com 205H
SHL 742' FNL & 321' FWL Sec. 18
BHL 991' FNL & 240' FEL Sec. 18
T. 24 S., R. 29 E., Eddy County, NM

SURFACE PLAN PAGE 1

Surface Use Plan

1. ROAD DIRECTIONS & DESCRIPTIONS (See MAPS 1 – 4)

From Malaga, NM...

Go East 2.3 miles on paved County Roads 744 and 720

Then turn right onto a caliche road and go South 500'

Then turn left and go Southeast 200' on a caliche road to an existing 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

No new road or upgrade is needed. All access is via existing roads.

3. EXISTING WELLS (See MAP 2)

Existing oil, gas, water, injection, and P & A wells are within a mile. No disposal well is within a mile radius.

4. PROPOSED PRODUCTION FACILITIES (See preceding page)

Oil tanks, water tanks, meter runs, separators, and a flare will be installed on the south side of the pad (see preceding diagram). A berm will surround the fill sides of the facility.

Matador Production Company
Zach McCormick Fed Com 205H
SHL 742' FNL & 321' FWL Sec. 18
BHL 991' FNL & 240' FEL Sec. 18
T. 24 S., R. 29 E., Eddy County, NM

SURFACE PLAN PAGE 2

Longwood Midstream's Black River Gathering System will serve the facility with $\approx 6"$ O. D. steel gas line and $\approx 6"$ O. D. HDPE buried saltwater disposal line laid in the same trench which is under construction to the existing Zach McCormick Federal Com 18-24s-29e #1. Xcel will build a 3-phase raptor safe overhead power line 1/10 mile south to the well pad.

5. WATER SUPPLY (See MAP 2)

Water will be trucked 0.6 mile via existing roads from existing water well C 00464 on private land in NENW 13-24s-28e.

6. CONSTRUCTION MATERIALS & METHODS (see MAPS 4 & 5)

NM One Call (811) will be notified before construction starts. Top $\approx 6"$ of soil and brush is stockpiled north 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. A berm will surround the fill sides of the pad.

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
Zach McCormick Fed Com 205H
SHL 742' FNL & 321' FWL Sec. 18
BHL 991' FNL & 240' FEL Sec. 18
T. 24 S., R. 29 E., Eddy County, NM

SURFACE PLAN PAGE 3

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT

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

10. RECLAMATION

Interim reclamation will be completed within 6 months of completing the last well on the pad. (A variance is requested for the intervening wells.) Interim reclamation will consist of shrinking the pad $\approx 17\%$ by removing caliche and reclaiming the north (47') and east (30') sides. This will leave 3.26 acres for six pump jacks and tractor-trailer turn around. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas. Disturbed areas will be seeded in accordance with the surface owner's requirements. Enough stockpiled topsoil will be retained to cover the remainder of the pad when the wells are plugged. Once the last well is plugged, then the remainder of the pad will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled.

11. SURFACE OWNER

All construction occurred on private surface.

Matador Resources Company has a private surface owner agreement with Evelyn Kay Walker Faulk (P. O. Box 115, Malaga NM 88263) for the existing road in NENE Section 13, T. 24 S., R. 28 E. and with Roy Burkham (P. O. Box 84, Malaga

Matador Production Company
Zach McCormick Fed Com 205H
SHL 742' FNL & 321' FWL Sec. 18
BHL 991' FNL & 240' FEL Sec. 18
T. 24 S., R. 29 E., Eddy County, NM

SURFACE PLAN PAGE 4

NM 88263) for the existing road and existing pad in Lot 1 Section 18, T. 24 S., R. 29 E., Eddy County, NM.

12. OTHER INFORMATION

On site inspection was held with Vance Wolf and Bob Ballard (both of BLM) on June 2, 2016.

**PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM117120
WELL NAME & NO.:	205H-Zach McCormick Fed Com
SURFACE HOLE FOOTAGE:	742'N & 321'W
BOTTOM HOLE FOOTAGE:	991'N & 240'E
LOCATION:	Section 18, T.24 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

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.

A. DRILLING OPERATIONS REQUIREMENTS

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

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

☒ **Eddy County**

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

1. **Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. It is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements,**

which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

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

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

Wait on cement (WOC) for Water Basin:

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

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

Medium Cave/Karst

Possible water flows in the Artesia Group and Salado.

Possibility of lost circulation in the Artesia Group, Rustler, Capitan Reef, and Delaware.

Abnormal pressure might be encountered upon entering third Bone Spring and subsequent formations.

1. The **13-3/8** inch surface casing shall be set at approximately **650** 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 1st 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.**
3. The minimum required fill of cement behind the **7** inch 2nd intermediate casing is:
☒ Cement as proposed. Operator shall provide method of verification.
4. The minimum required fill of cement behind the **4-1/2** inch production casing is:
☒ Cement as proposed. Operator shall provide method of verification. **Excess calculates to 22%. 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **13-3/8** inch surface casing shoe shall be **2000 (2M) annular**.

Option 1:

- i. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch second intermediate casing shoe shall be **3000 (3M)** psi.
- ii. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7** inch third 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.

Option 2:

- i. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the second intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch second intermediate casing shoe shall be **5000 (5M)** psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
- e. **After the 9 5/8" casing has been landed and cemented, the operator will then lift up the BOP to install the 'D-section' of the wellhead. Therefore, per Onshore Oil and Gas Order No. 2, the entire BOP/BOPE shall be tested prior to drilling out the second intermediate casing hole.**
- f. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

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.

- 4. 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.

Proposed mud weight may not be adequate for drilling through Wolfcamp.

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.

TMAK 05262017

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production
LEASE NO.:	NMNM117120
WELL NAME & NO.:	205H-Zach McCormick Fed Com
SURFACE HOLE FOOTAGE:	742'/N & 321'/W
BOTTOM HOLE FOOTAGE:	991'/N & 240'/E
LOCATION:	Section 18, T.24 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

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

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

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

Avian Protection

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 power line structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. The holder without liability or expense shall make such modifications and/or additions to the United States.

COA Mid Karst

Cave and Karst

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

Cave/Karst Surface Mitigation

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

Construction:

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

No Blasting:

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

Pad Berming:

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

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.

- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery Liners and Berms:

Tank battery locations and all facilities will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:

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

Automatic Shut-off Systems:

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

Cave/Karst Subsurface Mitigation

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

Rotary Drilling with Fresh Water:

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

Directional Drilling:

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

Lost Circulation:

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

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

Abandonment Cementing:

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

Pressure Testing:

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

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

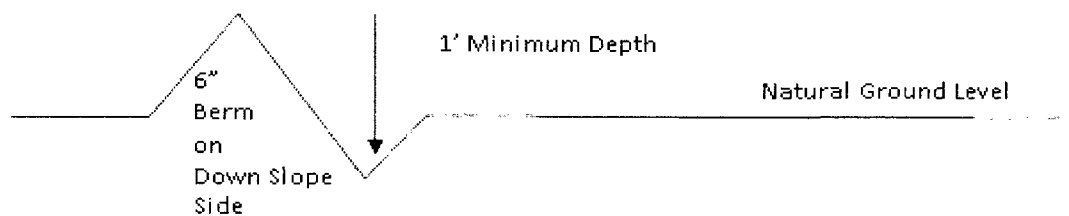
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill out sloping 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:

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

Cattle guards

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

Fence Requirement

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

Public Access

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

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

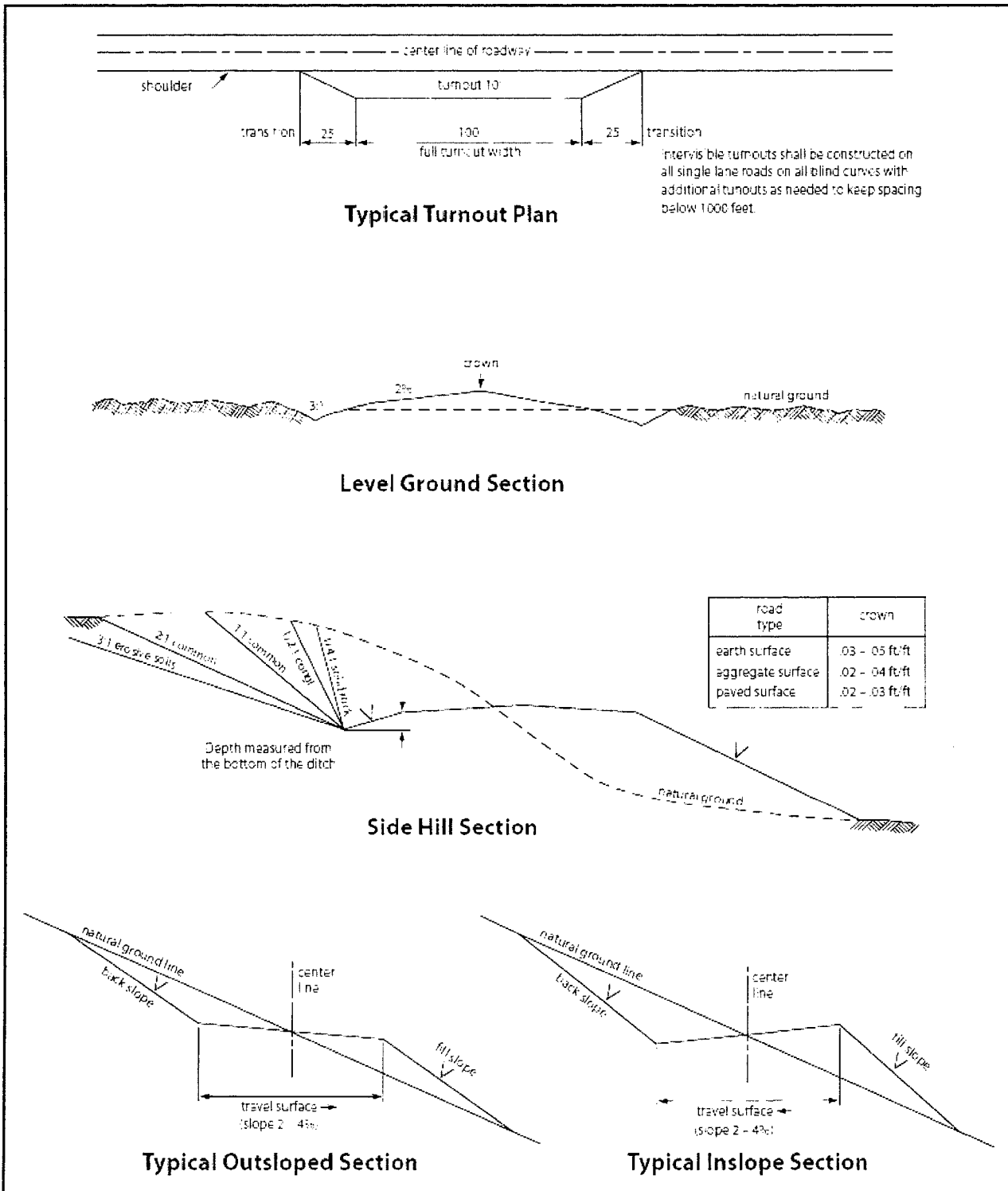


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

BURIED PIPELINE STIPULATIONS

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

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

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of

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

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

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

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

7. The maximum allowable disturbance for construction in this right-of-way will be 30 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 30 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.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

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

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

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching

deterrence shall be placed on all vertical poles that extend past the cross arms.

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

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

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

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

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

11. Special Stipulations:

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

VIII. INTERIM RECLAMATION

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

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce

the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

Seed Mixture 3, for Shallow Sites

The 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 will 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 will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will 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 Bristlegrass (<i>Setaria macrostachya</i>)	1.0
Green Sprangletop (<i>Leptochloa dubia</i>)	2.0
Sideoats Grama (<i>Bouteloua curtipendula</i>)	5.0

*Pounds of pure live seed:

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