

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

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

RECEIVED

FEB 14 2020

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

MINRD-OGD ARTESIA

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46133	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 325764	⁵ Property Name JACK SLEEPER STATE COM 9 & 16-23S-28E	⁶ Well Number 215H
⁷ GRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3013'

¹⁰Surface Location

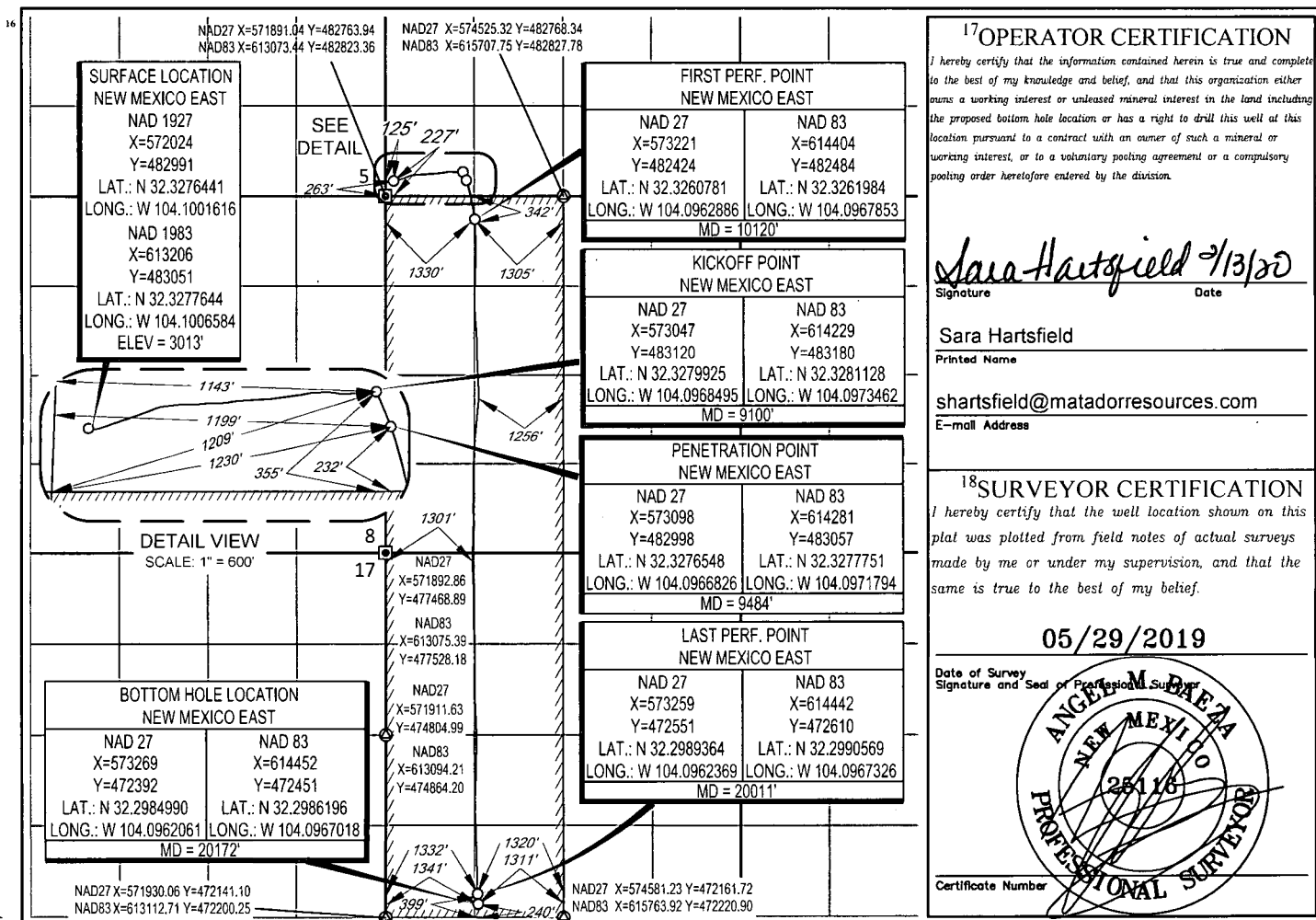
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	23-S	28-E	-	227'	SOUTH	125'	WEST	EDDY

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	16	23-S	28-E	-	240'	SOUTH	1341'	WEST	EDDY

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

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



¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Sara Hartsfield 2/13/20
Signature Date

Sara Hartsfield
Printed Name

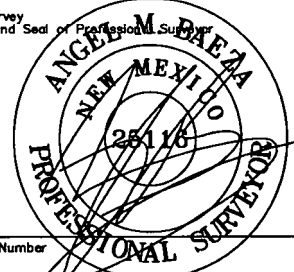
shartsfield@matadorresources.com
E-mail Address

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

05/29/2019

Date of Survey
Signature and Seal of Professional Surveyor



Certificate Number

SCALE: 1" = 1000'

0' 500' 1000'

SECTION 4, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

**SURFACE LOCATION
NEW MEXICO EAST**
NAD 1927
X=572024
Y=482991
LAT.: N 32.3276441
LONG.: W 104.1001616
NAD 1983
X=613206
Y=483051
LAT.: N 32.3277644
LONG.: W 104.1006584
ELEV = 3013'

**KICKOFF POINT
NEW MEXICO EAST**
NAD 1927
X=573047
Y=483120
LAT.: N 32.3279925
LONG.: W 104.0968495
NAD 1983
X=614229
Y=483180
LAT.: N 32.3281128
LONG.: W 104.0973462
MD = 9100'

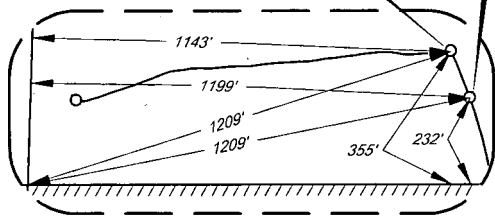
**PENETRATION POINT
NEW MEXICO EAST**
NAD 1927
X=573098
Y=482998
LAT.: N 32.3276548
LONG.: W 104.0966826
NAD 1983
X=614281
Y=483057
LAT.: N 32.3277751
LONG.: W 104.0971794
MD = 9484'

**FIRST PERF. POINT
NEW MEXICO EAST**
NAD 1927
X=573221
Y=482424
LAT.: N 32.3260781
LONG.: W 104.0962886
NAD 1983
X=614404
Y=482484
LAT.: N 32.3261984
LONG.: W 104.0967853
MD = 10120'

**LAST PERF. POINT
NEW MEXICO EAST**
NAD 1927
X=573259
Y=472551
LAT.: N 32.2989364
LONG.: W 104.0962369
NAD 1983
X=614442
Y=472610
LAT.: N 32.2990569
LONG.: W 104.0967326
MD = 20011'

**BOTTOM HOLE LOCATION
NEW MEXICO EAST**
NAD 1927
X=573269
Y=472392
LAT.: N 32.2984990
LONG.: W 104.0962061
NAD 1983
X=614452
Y=472451
LAT.: N 32.2986196
LONG.: W 104.0967018
MD = 20172'

DETAIL VIEW
SCALE: 1" = 500'



CALCULATED CORNER

CALCULATED CORNER

CALCULATED CORNER

CALCULATED CORNER

LEASE NAME & WELL NO.: JACK SLEEPER STATE COM 9 & 16-23S-28E 215H
SECTION 4 TWP 23-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM ELEVATION 3013'
DESCRIPTION 227' FSL & 125' FWL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX: (432) 682-1743
WWW.TOPOGRAPHIC.COM



Angel M. Baeza, P.S. No. 25116
JANUARY 29, 2020

JACK SLEEPER STATE COM 9 & 16-23S-28E 215H		REVISION:	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 COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. 3. THIS WELL 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.
DATE:	01/29/20		
FILE:	AD_JACK_SLEEPER_STATE_COM_9_&_16S-28E_215H		
DRAWN BY:	A.M.D.		
SHEET:	1 OF 1		



PRODIRECTIONAL

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FEB 14 2020

EMNRD-OGD ARTESIA



Jack Sleeper Com 9 & 16-23S-28E No. 215H

Eddy County, NM

30-015-46133

September 10, 2019

Job No. LNM5507619

ORIGINAL

Certified Report



PRODIRECTIONAL

Survey Certification Letter

September 10, 2019



Operator Name: Matador Resources
Well Name: Jack Sleeper Com 9 & 16-23S-28E No. 215H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5507619

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

Surveyor	Surveyed Depths	Projection to Bit	Dates Performed	Type of Survey
ProDirectional	170' MD – 20,110' MD	20,172' MD	07/22/19 – 08/15/19	MWD

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266

prodirectional.com

The Standard of Excellence in Directional Supervision



Matador Resources

Eddy County, NM (NAD 83)

Jack Sleeper Com 9 & 16-23S-28E

No. 215H

OH

Survey: ProDirectional

Survey Report

10 September, 2019





ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 215H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3041.50usft
Site:	Jack Sleeper Com 9 & 16-23S-28E	MD Reference:	Well @ 3041.50usft
Well:	No. 215H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-170'-20110', PTB: 21172'	Database:	WellPlanner1

Project	Eddy County, NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Jack Sleeper Com 9 & 16-23S-28E			
Site Position:	Northing:	483,051.00 usft	Latitude:	32.327765
From: Map	Easting:	613,206.00 usft	Longitude:	-104.100659
Position Uncertainty:	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 °

Well	No. 215H, LNM5507619					
Well Position	+N/-S	0.00 usft	Northing:	483,051.00 usft	Latitude:	32.327765
	+E/-W	0.00 usft	Easting:	613,206.00 usft	Longitude:	-104.100659
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,013.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/19/2019	7.13	60.05	47,895.90

Design	MWD-170'-20110', PTB: 21172'				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.79	

Survey Program	Date 9/10/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
170.00	20,172.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 215H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3041.50usft
Site:	Jack Sleeper Com 9 & 16-23S-28E	MD Reference:	Well @ 3041.50usft
Well:	No. 215H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-170'-20110', PTB: 21172'	Database:	WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	483,051.00	613,206.00	
170.00	1.50	340.50	169.98	-2.10	2.10	-0.74	2.23	340.50	483,053.10	613,205.26	
Pro MWD First Survey: 170' MD											
231.00	1.70	325.30	230.96	-3.60	3.59	-1.52	3.90	337.02	483,054.59	613,204.48	
324.00	1.10	333.90	323.93	-5.54	5.53	-2.70	6.15	333.96	483,056.53	613,203.30	
345.00	1.10	333.90	344.93	-5.90	5.89	-2.88	6.56	333.95	483,056.89	613,203.12	
433.00	0.80	326.80	432.91	-7.18	7.16	-3.59	8.01	333.40	483,058.16	613,202.41	
526.00	1.10	309.40	525.90	-8.29	8.27	-4.63	9.48	330.75	483,059.27	613,201.37	
617.00	1.20	309.50	616.88	-9.46	9.43	-6.04	11.20	327.36	483,060.43	613,199.96	
710.00	1.50	321.70	709.86	-11.04	11.01	-7.55	13.35	325.56	483,062.01	613,198.45	
805.00	1.40	316.40	804.83	-12.86	12.83	-9.12	15.74	324.58	483,063.83	613,196.88	
900.00	0.40	218.60	899.82	-13.44	13.41	-10.13	16.80	322.93	483,064.41	613,195.87	
996.00	1.20	176.80	995.81	-12.18	12.14	-10.28	15.91	319.75	483,063.14	613,195.72	
1,091.00	0.90	185.30	1,090.79	-10.44	10.41	-10.29	14.64	315.31	483,061.41	613,195.71	
1,186.00	1.00	183.60	1,185.78	-8.87	8.84	-10.41	13.66	310.31	483,059.84	613,195.59	
1,281.00	0.90	186.90	1,280.76	-7.31	7.27	-10.56	12.82	304.54	483,058.27	613,195.44	
1,453.00	0.40	220.80	1,452.75	-5.51	5.47	-11.11	12.39	296.22	483,056.47	613,194.89	
1,549.00	0.80	275.50	1,548.75	-5.33	5.28	-12.00	13.11	293.76	483,056.28	613,194.00	
1,644.00	0.10	102.70	1,643.75	-5.37	5.33	-12.58	13.66	292.96	483,056.33	613,193.42	
1,740.00	1.50	118.20	1,739.73	-4.76	4.72	-11.39	12.32	292.49	483,055.72	613,194.61	
1,835.00	1.90	113.10	1,834.69	-3.54	3.51	-8.84	9.51	291.65	483,054.51	613,197.16	
1,930.00	1.10	116.70	1,929.66	-2.51	2.48	-6.58	7.03	290.67	483,053.48	613,199.42	
2,024.00	1.50	112.70	2,023.63	-1.62	1.60	-4.64	4.91	289.05	483,052.60	613,201.36	
2,119.00	2.20	114.80	2,118.58	-0.36	0.36	-1.84	1.87	281.01	483,051.36	613,204.16	
2,214.00	2.40	108.80	2,213.51	1.05	-1.05	1.70	2.00	121.63	483,049.95	613,207.70	
2,309.00	1.90	105.00	2,308.44	2.12	-2.10	5.11	5.52	112.33	483,048.90	613,211.11	
2,404.00	1.40	100.30	2,403.40	2.74	-2.71	7.77	8.23	109.24	483,048.29	613,213.77	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD 83)
Site: Jack Sleeper Corn 9 & 16-23S-28E
Well: No. 215H
Wellbore: OH
Design: MWD-170'-20110', PTB: 21172'

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well No. 215H
Well @ 3041.50usft
Well @ 3041.50usft
Grid
Minimum Curvature
WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
2,496.00	1.10	115.00	2,495.38	3.32	-3.29	9.68	10.22	108.76	483,047.71	613,215.68	
2,594.00	1.50	104.00	2,593.35	4.04	-3.99	11.77	12.43	108.74	483,047.01	613,217.77	
2,690.00	4.20	77.70	2,689.23	3.61	-3.55	16.43	16.81	102.19	483,047.45	613,222.43	
2,785.00	4.00	80.40	2,783.99	2.34	-2.26	23.09	23.20	95.58	483,048.74	613,229.09	
2,880.00	3.90	81.10	2,878.76	1.31	-1.20	29.55	29.58	92.33	483,049.80	613,235.55	
2,976.00	6.00	74.40	2,974.40	-0.51	0.65	37.61	37.62	89.01	483,051.65	613,243.61	
3,071.00	6.40	73.90	3,068.84	-3.28	3.45	47.48	47.61	85.84	483,054.45	613,253.48	
3,166.00	6.00	73.60	3,163.29	-6.11	6.33	57.33	57.68	83.70	483,057.33	613,263.33	
3,261.00	8.00	69.70	3,257.57	-9.77	10.02	68.30	69.03	81.65	483,061.02	613,274.30	
3,356.00	7.50	68.10	3,351.71	-14.33	14.63	80.25	81.57	79.67	483,065.63	613,286.25	
3,452.00	9.10	73.20	3,446.70	-18.82	19.16	93.33	95.28	78.40	483,070.16	613,299.33	
3,547.00	9.30	72.20	3,540.48	-23.28	23.68	107.83	110.40	77.62	483,074.68	613,313.83	
3,642.00	9.00	72.10	3,634.27	-27.86	28.31	122.21	125.45	76.96	483,079.31	613,328.21	
3,738.00	10.90	73.40	3,728.82	-32.70	33.21	138.06	141.99	76.47	483,084.21	613,344.06	
3,833.00	10.90	70.70	3,822.11	-38.17	38.74	155.14	159.90	75.98	483,089.74	613,361.14	
3,928.00	10.10	70.40	3,915.51	-43.88	44.51	171.47	177.15	75.45	483,095.51	613,377.47	
4,023.00	11.10	69.20	4,008.89	-49.86	50.55	187.86	194.54	74.94	483,101.55	613,393.86	
4,118.00	11.40	69.20	4,102.07	-56.38	57.13	205.19	212.99	74.44	483,108.13	613,411.19	
4,213.00	11.10	68.90	4,195.24	-62.94	63.76	222.50	231.45	74.01	483,114.76	613,428.50	
4,308.00	10.90	67.50	4,288.50	-69.61	70.48	239.33	249.49	73.59	483,121.48	613,445.33	
4,404.00	11.70	80.20	4,382.65	-74.67	75.62	257.31	268.19	73.62	483,126.62	613,463.31	
4,499.00	11.60	82.90	4,475.69	-77.42	78.44	276.28	287.19	74.15	483,129.44	613,482.28	
4,594.00	11.20	82.00	4,568.82	-79.82	80.90	294.89	305.79	74.66	483,131.90	613,500.89	
4,689.00	10.30	80.00	4,662.15	-82.51	83.66	312.39	323.40	75.01	483,134.66	613,518.39	
4,785.00	10.80	91.60	4,756.54	-83.69	84.90	329.84	340.59	75.57	483,135.90	613,535.84	
4,880.00	10.10	91.70	4,849.96	-83.13	84.40	347.06	357.18	76.33	483,135.40	613,553.06	
4,974.00	8.80	91.60	4,942.68	-82.63	83.96	362.49	372.08	76.96	483,134.96	613,568.49	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 215H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3041.50usft
Site:	Jack Sleeper Com 9 & 16-23S-28E	MD Reference:	Well @ 3041.50usft
Well:	No. 215H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-170'-20110', PTB: 21172'	Database:	WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
5,070.00	10.90	85.20	5,037.27	-83.12	84.51	378.87	388.19	77.43	483,135.51	613,584.87	
5,165.00	10.70	80.70	5,130.59	-85.24	86.69	396.53	405.89	77.67	483,137.69	613,602.53	
5,259.00	12.00	87.80	5,222.75	-86.95	88.47	414.91	424.23	77.96	483,139.47	613,620.91	
5,355.00	13.00	89.40	5,316.47	-87.37	88.97	435.68	444.67	78.46	483,139.97	613,641.68	
5,450.00	13.10	90.10	5,409.02	-87.39	89.06	457.13	465.72	78.97	483,140.06	613,663.13	
5,544.00	12.50	83.70	5,500.69	-88.41	90.16	477.89	486.32	79.32	483,141.16	613,683.89	
5,639.00	11.30	81.30	5,593.65	-90.87	92.70	497.31	505.88	79.44	483,143.70	613,703.31	
5,734.00	10.50	81.20	5,686.93	-93.54	95.43	515.07	523.83	79.50	483,146.43	613,721.07	
5,829.00	11.50	85.80	5,780.19	-95.49	97.45	533.07	541.90	79.64	483,148.45	613,739.07	
5,924.00	12.00	87.20	5,873.20	-96.60	98.62	552.38	561.11	79.88	483,149.62	613,758.38	
6,020.00	10.70	86.60	5,967.32	-97.55	99.64	571.24	579.87	80.11	483,150.64	613,777.24	
6,115.00	9.90	86.80	6,060.78	-98.46	100.62	588.20	596.74	80.29	483,151.62	613,794.20	
6,210.00	11.60	87.80	6,154.11	-99.22	101.44	605.90	614.33	80.50	483,152.44	613,811.90	
6,304.00	10.60	86.80	6,246.35	-100.00	102.29	623.97	632.30	80.69	483,153.29	613,829.97	
6,400.00	8.30	84.00	6,341.05	-101.16	103.50	639.68	648.00	80.81	483,154.50	613,845.68	
6,495.00	10.20	83.00	6,434.81	-102.85	105.25	654.85	663.26	80.87	483,156.25	613,860.85	
6,590.00	8.40	78.30	6,528.55	-105.22	107.68	670.00	678.60	80.87	483,158.68	613,876.00	
6,685.00	9.90	85.40	6,622.35	-107.23	109.74	684.93	693.67	80.90	483,160.74	613,890.93	
6,779.00	11.10	83.40	6,714.77	-108.86	111.43	701.98	710.77	80.98	483,162.43	613,907.98	
6,875.00	10.10	81.40	6,809.13	-111.11	113.75	719.48	728.42	81.02	483,164.75	613,925.48	
6,970.00	12.00	84.60	6,902.37	-113.22	115.93	737.55	746.61	81.07	483,166.93	613,943.55	
7,065.00	9.50	80.70	6,995.69	-115.35	118.12	755.12	764.31	81.11	483,169.12	613,961.12	
7,161.00	11.30	80.90	7,090.11	-118.06	120.89	772.23	781.64	81.10	483,171.89	613,978.23	
7,256.00	10.40	82.20	7,183.41	-120.63	123.53	789.92	799.52	81.11	483,174.53	613,995.92	
7,351.00	10.90	86.00	7,276.78	-122.36	125.32	807.37	817.04	81.18	483,176.32	614,013.37	
7,447.00	10.00	84.80	7,371.18	-123.68	126.70	824.73	834.40	81.27	483,177.70	614,030.73	
7,542.00	12.00	90.40	7,464.44	-124.29	127.38	842.82	852.39	81.41	483,178.38	614,048.82	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 215H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3041.50usft
Site:	Jack Sleeper Com 9 & 16-23S-28E	MD Reference:	Well @ 3041.50usft
Well:	No. 215H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-170'-20110', PTB: 21172'	Database:	WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
7,637.00	11.80	95.30	7,557.40	-123.26	126.42	862.37	871.58	81.66	483,177.42	614,068.37	
7,726.00	10.50	102.20	7,644.72	-120.64	123.86	879.36	888.04	81.98	483,174.86	614,085.36	
7,821.00	10.80	95.50	7,738.09	-117.89	121.18	896.68	904.83	82.30	483,172.18	614,102.68	
7,916.00	11.60	86.40	7,831.28	-117.57	120.93	915.07	923.03	82.47	483,171.93	614,121.07	
8,012.00	10.60	85.80	7,925.49	-118.76	122.18	933.51	941.47	82.54	483,173.18	614,139.51	
8,107.00	10.00	87.00	8,018.96	-119.77	123.25	950.46	958.42	82.61	483,174.25	614,156.46	
8,201.00	8.80	85.90	8,111.69	-120.65	124.19	965.78	973.74	82.67	483,175.19	614,171.78	
8,297.00	6.40	85.20	8,206.84	-121.58	125.17	978.44	986.42	82.71	483,176.17	614,184.44	
8,392.00	4.10	97.30	8,301.44	-121.56	125.18	987.09	994.99	82.77	483,176.18	614,193.09	
8,487.00	2.70	102.60	8,396.27	-120.62	124.26	992.64	1,000.39	82.86	483,175.26	614,198.64	
8,582.00	4.20	67.50	8,491.11	-121.44	125.10	998.04	1,005.85	82.86	483,176.10	614,204.04	
8,677.00	4.10	67.70	8,585.86	-124.04	127.72	1,004.40	1,012.48	82.75	483,178.72	614,210.40	
8,773.00	3.40	79.30	8,681.65	-125.85	129.55	1,010.37	1,018.64	82.69	483,180.55	614,216.37	
8,868.00	2.60	85.40	8,776.52	-126.53	130.25	1,015.29	1,023.61	82.69	483,181.25	614,221.29	
8,963.00	1.90	96.00	8,871.45	-126.52	130.26	1,019.00	1,027.29	82.72	483,181.26	614,225.00	
9,064.00	1.30	94.10	8,972.41	-126.25	130.00	1,021.81	1,030.04	82.75	483,181.00	614,227.81	
9,126.00	3.60	149.70	9,034.35	-124.52	128.27	1,023.49	1,031.50	82.86	483,179.27	614,229.49	
9,158.00	6.90	147.50	9,066.21	-122.02	125.78	1,025.03	1,032.72	83.00	483,176.78	614,231.03	
9,253.00	15.60	155.70	9,159.31	-105.50	109.29	1,033.37	1,039.13	83.96	483,160.29	614,239.37	
9,300.00	21.50	156.70	9,203.84	-91.80	95.61	1,039.38	1,043.77	84.74	483,146.61	614,245.38	
9,348.00	26.10	158.90	9,247.75	-73.83	77.67	1,046.67	1,049.55	85.76	483,128.67	614,252.67	
9,411.00	32.40	157.70	9,302.69	-45.22	49.09	1,058.07	1,059.21	87.34	483,100.09	614,264.07	
9,443.00	36.30	157.50	9,329.11	-28.50	32.41	1,064.95	1,065.45	88.26	483,083.41	614,270.95	
9,538.00	48.50	161.50	9,399.14	31.53	-27.55	1,087.09	1,087.44	91.45	483,023.45	614,293.09	
9,633.00	60.00	165.90	9,454.57	105.52	-101.46	1,108.48	1,113.11	95.23	482,949.54	614,314.48	
9,696.00	67.90	166.90	9,482.21	160.54	-156.43	1,121.76	1,132.62	97.94	482,894.57	614,327.76	
9,750.00	73.10	167.00	9,500.23	210.15	-206.00	1,133.25	1,151.82	100.30	482,845.00	614,339.25	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 215H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3041.50usft
Site:	Jack Sleeper Com 9 & 16-23S-28E	MD Reference:	Well @ 3041.50usft
Well:	No. 215H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-170'-20110', PTB: 21172'	Database:	WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
9,786.00	73.70	165.60	9,510.52	243.70	-239.52	1,141.42	1,166.28	101.85	482,811.48	614,347.42	
9,882.00	83.30	168.90	9,529.64	335.42	-331.16	1,162.11	1,208.37	105.91	482,719.84	614,368.11	
9,977.00	88.50	172.20	9,536.43	428.90	-424.59	1,177.65	1,251.85	109.83	482,626.41	614,383.65	
10,072.00	87.50	171.20	9,539.75	522.89	-518.53	1,191.36	1,299.31	113.52	482,532.47	614,397.36	
10,167.00	88.00	175.80	9,543.48	617.22	-612.82	1,202.10	1,349.29	117.01	482,438.18	614,408.10	
10,262.00	88.00	179.20	9,546.79	712.08	-707.66	1,206.24	1,398.50	120.40	482,343.34	614,412.24	
10,357.00	88.00	178.40	9,550.11	807.00	-802.58	1,208.23	1,450.50	123.59	482,248.42	614,414.23	
10,452.00	86.90	177.60	9,554.34	901.86	-897.43	1,211.54	1,507.71	126.53	482,153.57	614,417.54	
10,547.00	89.40	179.20	9,557.40	996.77	-992.33	1,214.19	1,568.11	129.26	482,058.67	614,420.19	
10,642.00	89.60	180.80	9,558.23	1,091.76	-1,087.32	1,214.19	1,629.89	131.84	481,963.68	614,420.19	
10,737.00	92.30	182.10	9,556.66	1,186.70	-1,182.27	1,211.79	1,692.98	134.29	481,868.73	614,417.79	
10,833.00	93.10	181.60	9,552.14	1,282.53	-1,278.11	1,208.69	1,759.12	136.60	481,772.89	614,414.69	
10,927.00	93.30	181.60	9,546.89	1,376.34	-1,371.93	1,206.07	1,826.69	138.68	481,679.07	614,412.07	
11,019.00	91.10	182.30	9,543.36	1,468.20	-1,463.80	1,202.94	1,894.67	140.59	481,587.20	614,408.94	
11,111.00	89.30	182.00	9,543.04	1,560.12	-1,555.73	1,199.49	1,964.45	142.37	481,495.27	614,405.49	
11,203.00	87.40	180.50	9,545.68	1,652.04	-1,647.66	1,197.48	2,036.85	143.99	481,403.34	614,403.48	
11,295.00	89.20	179.70	9,548.41	1,743.99	-1,739.62	1,197.32	2,111.84	145.46	481,311.38	614,403.32	
11,387.00	88.20	177.40	9,550.50	1,835.94	-1,831.56	1,199.65	2,189.47	146.78	481,219.44	614,405.65	
11,479.00	91.00	179.50	9,551.14	1,927.90	-1,923.51	1,202.14	2,268.26	148.00	481,127.49	614,408.14	
11,570.00	84.10	176.20	9,555.03	2,018.70	-2,014.29	1,205.54	2,347.49	149.10	481,036.71	614,411.54	
11,662.00	85.30	174.30	9,563.53	2,110.01	-2,105.58	1,213.13	2,430.05	150.05	480,945.42	614,419.13	
11,753.00	82.50	174.70	9,573.20	2,200.10	-2,195.64	1,221.80	2,512.69	150.91	480,855.36	614,427.80	
11,814.00	82.90	176.60	9,580.95	2,260.45	-2,255.97	1,226.39	2,567.76	151.47	480,795.03	614,432.39	
11,845.00	85.70	178.90	9,584.03	2,291.27	-2,286.78	1,227.60	2,595.45	151.77	480,764.22	614,433.60	
11,937.00	90.90	179.30	9,586.76	2,383.19	-2,378.70	1,229.04	2,677.45	152.68	480,672.30	614,435.04	
12,029.00	93.00	179.10	9,583.63	2,475.13	-2,470.63	1,230.32	2,760.02	153.53	480,580.37	614,436.32	
12,120.00	93.40	178.50	9,578.55	2,565.97	-2,561.47	1,232.23	2,842.45	154.31	480,489.53	614,438.23	



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 215H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3041.50usft
Site:	Jack Sleeper Com.9 & 16-23S-28E	MD Reference:	Well @ 3041.50usft
Well:	No. 215H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-170'-20110', PTB: 21172'	Database:	WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
12,212.00	94.00	177.90	9,572.61	2,657.74	-2,653.23	1,235.11	2,926.63	155.04	480,397.77	614,441.11	
12,303.00	95.40	176.90	9,565.16	2,748.35	-2,743.83	1,239.22	3,010.69	155.69	480,307.17	614,445.22	
12,398.00	93.10	177.10	9,558.12	2,842.97	-2,838.43	1,244.18	3,099.14	156.33	480,212.57	614,450.18	
12,493.00	94.80	176.90	9,551.57	2,937.63	-2,933.07	1,249.14	3,187.99	156.93	480,117.93	614,455.14	
12,587.00	93.60	176.70	9,544.69	3,031.25	-3,026.67	1,254.37	3,276.31	157.49	480,024.33	614,460.37	
12,682.00	91.30	178.50	9,540.63	3,126.08	-3,121.49	1,258.35	3,365.58	158.04	479,929.51	614,464.35	
12,776.00	93.60	184.20	9,536.61	3,219.92	-3,215.34	1,256.14	3,452.00	158.66	479,835.66	614,462.14	
12,871.00	91.40	184.90	9,532.46	3,314.49	-3,309.94	1,248.61	3,537.62	159.33	479,741.06	614,454.61	
12,966.00	91.50	186.00	9,530.06	3,409.00	-3,404.48	1,239.59	3,623.13	159.99	479,646.52	614,445.59	
13,060.00	92.30	185.30	9,526.94	3,502.46	-3,497.97	1,230.34	3,708.04	160.62	479,553.03	614,436.34	
13,154.00	92.10	185.70	9,523.33	3,595.92	-3,591.47	1,221.34	3,793.46	161.22	479,459.53	614,427.34	
13,249.00	92.00	186.00	9,519.93	3,690.33	-3,685.91	1,211.66	3,879.96	161.80	479,365.09	614,417.66	
13,344.00	88.90	185.40	9,519.19	3,784.81	-3,780.43	1,202.23	3,966.99	162.36	479,270.57	614,408.23	
13,439.00	87.20	183.10	9,522.42	3,879.46	-3,875.10	1,195.19	4,055.23	162.86	479,175.90	614,401.19	
13,534.00	85.90	183.70	9,528.14	3,974.09	-3,969.76	1,189.57	4,144.16	163.32	479,081.24	614,395.57	
13,629.00	85.80	182.20	9,535.01	4,068.70	-4,064.38	1,184.69	4,233.52	163.75	478,986.62	614,390.69	
13,724.00	83.50	180.10	9,543.87	4,163.24	-4,158.94	1,182.79	4,323.86	164.12	478,892.06	614,388.79	
13,819.00	86.10	180.60	9,552.48	4,257.84	-4,253.54	1,182.21	4,414.77	164.47	478,797.46	614,388.21	
13,920.00	88.90	180.50	9,556.89	4,358.73	-4,354.43	1,181.24	4,511.80	164.82	478,696.57	614,387.24	
14,015.00	93.00	180.20	9,555.31	4,453.69	-4,449.39	1,180.66	4,603.37	165.14	478,601.61	614,386.66	
14,110.00	94.30	179.70	9,549.26	4,548.49	-4,544.20	1,180.75	4,695.09	165.43	478,506.80	614,386.75	
14,205.00	95.70	180.00	9,540.98	4,643.13	-4,638.83	1,180.99	4,786.80	165.72	478,412.17	614,386.99	
14,300.00	95.30	180.00	9,531.88	4,737.69	-4,733.39	1,180.99	4,878.50	165.99	478,317.61	614,386.99	
14,395.00	94.30	179.20	9,523.93	4,832.35	-4,828.06	1,181.66	4,970.56	166.25	478,222.94	614,387.66	
14,490.00	92.50	179.00	9,518.30	4,927.18	-4,922.87	1,183.15	5,063.05	166.49	478,128.13	614,389.15	
14,585.00	90.40	179.40	9,515.89	5,022.14	-5,017.83	1,184.47	5,155.73	166.72	478,033.17	614,390.47	
14,681.00	89.60	181.80	9,515.89	5,118.12	-5,113.81	1,183.47	5,248.97	166.97	477,937.19	614,389.47	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 215H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3041.50usft
Site:	Jack Sleeper Com 9 & 16-23S-28E	MD Reference:	Well @ 3041.50usft
Well:	No. 215H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-170'-20110', PTB: 21172'	Database:	WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
14,775.00	89.70	182.70	9,516.47	5,212.03	-5,207.74	1,179.78	5,339.70	167.24	477,843.26	614,385.78	
14,871.00	88.00	182.10	9,518.39	5,307.91	-5,303.63	1,175.76	5,432.40	167.50	477,747.37	614,381.76	
14,966.00	85.60	180.90	9,523.70	5,402.71	-5,398.44	1,173.27	5,524.47	167.74	477,652.56	614,379.27	
15,060.00	86.00	180.70	9,530.58	5,496.44	-5,492.18	1,171.96	5,615.83	167.95	477,558.82	614,377.96	
15,156.00	86.30	180.90	9,537.03	5,592.21	-5,587.96	1,170.63	5,709.26	168.17	477,463.04	614,376.63	
15,251.00	89.50	178.80	9,540.51	5,687.13	-5,682.87	1,170.88	5,802.24	168.36	477,368.13	614,376.88	
15,346.00	90.20	177.00	9,540.76	5,782.07	-5,777.80	1,174.36	5,895.94	168.51	477,273.20	614,380.36	
15,441.00	91.50	176.70	9,539.35	5,876.93	-5,872.65	1,179.58	5,989.94	168.64	477,178.35	614,385.58	
15,536.00	92.60	179.40	9,535.95	5,971.82	-5,967.52	1,182.81	6,083.61	168.79	477,083.48	614,388.81	
15,631.00	93.30	178.90	9,531.06	6,066.68	-6,062.39	1,184.22	6,176.96	168.95	476,988.61	614,390.22	
15,726.00	89.70	178.10	9,528.57	6,161.61	-6,157.30	1,186.70	6,270.62	169.09	476,893.70	614,392.70	
15,821.00	92.20	180.10	9,527.00	6,256.58	-6,252.27	1,188.19	6,364.17	169.24	476,798.73	614,394.19	
15,916.00	91.30	180.30	9,524.10	6,351.53	-6,347.22	1,187.86	6,457.42	169.40	476,703.78	614,393.86	
16,011.00	87.60	179.40	9,525.01	6,446.51	-6,442.20	1,188.11	6,550.84	169.55	476,608.80	614,394.11	
16,106.00	87.30	178.30	9,529.23	6,541.40	-6,537.08	1,190.02	6,644.52	169.68	476,513.92	614,396.02	
16,201.00	87.80	177.30	9,533.30	6,636.26	-6,631.93	1,193.66	6,738.49	169.80	476,419.07	614,399.66	
16,296.00	88.30	176.60	9,536.53	6,731.08	-6,726.73	1,198.71	6,832.71	169.90	476,324.27	614,404.71	
16,391.00	90.20	179.40	9,537.77	6,826.02	-6,821.66	1,202.02	6,926.75	170.01	476,229.34	614,408.02	
16,486.00	91.40	179.40	9,536.44	6,921.00	-6,916.64	1,203.02	7,020.48	170.13	476,134.36	614,409.02	
16,580.00	91.70	179.90	9,533.90	7,014.97	-7,010.60	1,203.59	7,113.17	170.26	476,040.40	614,409.59	
16,676.00	89.60	180.50	9,532.81	7,110.95	-7,106.59	1,203.26	7,207.74	170.39	475,944.41	614,409.26	
16,771.00	88.30	181.50	9,534.55	7,205.91	-7,201.56	1,201.60	7,301.11	170.53	475,849.44	614,407.60	
16,867.00	89.30	181.00	9,536.56	7,301.86	-7,297.51	1,199.51	7,395.44	170.67	475,753.49	614,405.51	
16,962.00	87.70	178.90	9,539.05	7,396.82	-7,392.47	1,199.59	7,489.17	170.78	475,658.53	614,405.59	
17,057.00	89.00	179.60	9,541.79	7,491.77	-7,487.42	1,200.83	7,583.10	170.89	475,563.58	614,406.83	
17,153.00	90.30	179.00	9,542.37	7,587.76	-7,583.41	1,202.01	7,678.08	170.99	475,467.59	614,408.01	
17,248.00	90.30	178.10	9,541.88	7,682.74	-7,678.38	1,204.41	7,772.26	171.09	475,372.62	614,410.41	



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 215H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3041.50usft
Site:	Jack Sleeper Com 9 & 16-23S-28E	MD Reference:	Well @ 3041.50usft
Well:	No. 215H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-170'-20110', PTB: 21172'	Database:	WellPlanner1

Survey										
MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
17,343.00	90.80	177.10	9,540.96	7,777.66	-7,773.29	1,208.39	7,866.65	171.16	475,277.71	614,414.39
17,438.00	89.80	176.60	9,540.47	7,872.54	-7,868.14	1,213.61	7,961.19	171.23	475,182.86	614,419.61
17,533.00	89.60	178.20	9,540.96	7,967.45	-7,963.04	1,217.92	8,055.64	171.30	475,087.96	614,423.92
17,616.00	90.80	178.00	9,540.67	8,050.41	-8,045.99	1,220.67	8,138.06	171.37	475,005.01	614,426.67
17,711.00	91.20	178.00	9,539.02	8,145.35	-8,140.92	1,223.98	8,232.42	171.45	474,910.08	614,429.98
17,812.00	91.60	178.90	9,536.55	8,246.29	-8,241.85	1,226.71	8,332.64	171.53	474,809.15	614,432.71
17,908.00	88.20	182.00	9,536.72	8,342.26	-8,337.82	1,225.96	8,427.47	171.64	474,713.18	614,431.96
18,003.00	87.40	181.00	9,540.36	8,437.14	-8,432.72	1,223.48	8,521.01	171.74	474,618.28	614,429.48
18,098.00	87.50	180.80	9,544.59	8,532.03	-8,527.61	1,221.98	8,614.72	171.85	474,523.39	614,427.98
18,193.00	88.60	182.10	9,547.82	8,626.93	-8,622.52	1,219.58	8,708.34	171.95	474,428.48	614,425.58
18,289.00	89.10	182.10	9,549.75	8,722.84	-8,718.44	1,216.07	8,802.84	172.06	474,332.56	614,422.07
18,384.00	90.50	182.40	9,550.08	8,817.74	-8,813.36	1,212.34	8,896.35	172.17	474,237.64	614,418.34
18,479.00	90.70	182.40	9,549.09	8,912.64	-8,908.27	1,208.36	8,989.85	172.28	474,142.73	614,414.36
18,575.00	91.30	181.60	9,547.41	9,008.55	-9,004.20	1,205.01	9,084.47	172.38	474,046.80	614,411.01
18,670.00	91.30	179.80	9,545.26	9,103.51	-9,099.16	1,203.85	9,178.45	172.46	473,951.84	614,409.85
18,765.00	91.70	179.50	9,542.77	9,198.48	-9,194.13	1,204.43	9,272.68	172.54	473,856.87	614,410.43
18,861.00	90.10	179.30	9,541.26	9,294.46	-9,290.11	1,205.43	9,367.99	172.61	473,760.89	614,411.43
18,956.00	87.50	177.70	9,543.25	9,389.41	-9,385.04	1,207.92	9,462.46	172.67	473,665.96	614,413.92
19,051.00	87.10	177.30	9,547.73	9,484.23	-9,479.85	1,212.06	9,557.02	172.71	473,571.15	614,418.06
19,146.00	89.00	178.60	9,550.96	9,579.11	-9,574.72	1,215.45	9,651.56	172.77	473,476.28	614,421.45
19,242.00	89.10	178.00	9,552.55	9,675.07	-9,670.67	1,218.30	9,747.11	172.82	473,380.33	614,424.30
19,337.00	89.20	177.20	9,553.96	9,769.99	-9,765.57	1,222.28	9,841.77	172.87	473,285.43	614,428.28
19,432.00	89.20	178.80	9,555.29	9,864.93	-9,860.50	1,225.59	9,936.38	172.91	473,190.50	614,431.59
19,527.00	92.10	179.80	9,554.21	9,959.91	-9,955.48	1,226.75	10,030.78	172.98	473,095.52	614,432.75
19,623.00	92.40	179.40	9,550.44	10,055.83	-10,051.40	1,227.42	10,126.07	173.04	472,999.60	614,433.42
19,718.00	92.60	179.20	9,546.29	10,150.74	-10,146.30	1,228.58	10,220.42	173.10	472,904.70	614,434.58
19,813.00	90.20	179.00	9,543.97	10,245.70	-10,241.26	1,230.07	10,314.87	173.15	472,809.74	614,436.07



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 215H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3041.50usft
Site:	Jack Sleeper Com 9 & 16-23S-28E	MD Reference:	Well @ 3041.50usft
Well:	No. 215H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-170'-20110', PTB: 21172'	Database:	WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
19,908.00	91.30	178.80	9,542.73	10,340.68	-10,336.23	1,231.90	10,409.38	173.20	472,714.77	614,437.90	
20,003.00	90.10	177.30	9,541.57	10,435.62	-10,431.16	1,235.13	10,504.03	173.25	472,619.84	614,441.13	
20,099.00	90.30	176.20	9,541.23	10,531.48	-10,527.01	1,240.57	10,599.85	173.28	472,523.99	614,446.57	
20,110.00	90.30	176.10	9,541.18	10,542.46	-10,537.98	1,241.31	10,610.84	173.28	472,513.02	614,447.31	
Last Survey: 20110' MD											
20,172.00	90.30	176.10	9,540.85	10,604.33	-10,599.84	1,245.53	10,672.76	173.30	472,451.16	614,451.53	
PTB: 20172' MD											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
170.00	169.98	2.10	-0.74	Pro MWD First Survey: 170' MD
20,110.00	9,541.18	-10,537.98	1,241.31	Last Survey: 20110' MD
20,172.00	9,540.85	-10,599.84	1,245.53	PTB: 20172' MD