

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

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

RECEIVED

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46131	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 201H
⁷ GRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3014'

¹⁰Surface Location

UL or lot no. M	Section 4	Township 23-S	Range 28-E	Lot Idn -	Feet from the 197	North/South line SOUTH	Feet from the 126'	East/West line WEST	County EDDY
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¹¹Bottom Hole Location If Different From Surface

UL or lot no. M	Section 16	Township 23-S	Range 28-E	Lot Idn -	Feet from the 241'	North/South line SOUTH	Feet from the 351'	East/West line WEST	County EDDY
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¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16 SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=572024 Y=482962 LAT.: N 32.3275618 LONG.: W 104.1001620 NAD 1983 X=613206 Y=483021 LAT.: N 32.3276821 LONG.: W 104.1006588 ELEV = 3014' DETAIL VIEW SCALE: 1" = 300' BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 27 X=572279 Y=472385 LAT.: N 32.2984865 LONG.: W 104.0994094 MD = 19890' NAD 27 X=571891.04 Y=482763.94 NAD 83 X=613073.44 Y=482823.36 NAD 27 X=574525.32 Y=482768.34 NAD 83 X=615707.75 Y=482827.78 NAD 27 X=571892.86 Y=477468.89 NAD 83 X=613075.39 Y=477528.18 NAD 27 X=571911.63 Y=474804.99 NAD 83 X=613094.21 Y=474864.20 NAD 27 X=572280 Y=472527 NAD 83 X=613463 Y=472586 LAT.: N 32.2988762 LONG.: W 104.0994061 MD = 19748' NAD 27 X=574581.23 Y=472161.72 NAD 83 X=615763.92 Y=472220.90	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or 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. <i>Sara Hartsfield</i> 2/13/20 Signature Date Sara Hartsfield Printed Name shartsfield@matadorresources.com E-mail Address 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. 05/29/2019 Date of Survey Signature and Seal of Professional Surveyor ANGEL M. DIAZ NEW MEXICO PROFESSIONAL SURVEYOR 25116 Certificate Number
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R/S 4-9-2020

SCALE: 1" = 1000'

0' 500' 1000'

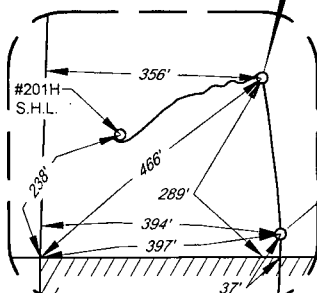
SECTION 4, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

**SURFACE LOCATION
NEW MEXICO EAST**
NAD 1927
X=572024
Y=482962
LAT.: N 32.3275618
LONG.: W 104.1001620
NAD 1983
X=613206
Y=483021
LAT.: N 32.3276821
LONG.: W 104.1006588
ELEV = 3014'

**KICKOFF POINT
NEW MEXICO EAST**
NAD 1927
X=572257
Y=483053
LAT.: N 32.3278121
LONG.: W 104.0994072
NAD 1983
X=613439
Y=483112
LAT.: N 32.3279324
LONG.: W 104.099041
MD = 8960'

**PENETRATION POINT
NEW MEXICO EAST**
NAD 1927
X=572286
Y=482802
LAT.: N 32.3271208
LONG.: W 104.0993129
NAD 1983
X=613469
Y=482861
LAT.: N 32.3272411
LONG.: W 104.0998097
MD = 9441'

**FIRST PERF. POINT
NEW MEXICO EAST**
NAD 1927
X=572255
Y=482300
LAT.: N 32.3257424
LONG.: W 104.0994192
NAD 1983
X=613437
Y=482360
LAT.: N 32.3258627
LONG.: W 104.0999160
MD = 9970'



**BOTTOM HOLE LOCATION
NEW MEXICO EAST**
NAD 1927
X=572279
Y=472385
LAT.: N 32.2984865
LONG.: W 104.0994094
NAD 1983
X=613462
Y=472444
LAT.: N 32.2986070
LONG.: W 104.0999052
MD = 19890'

CALCULATED CORNER

CALCULATED CORNER

**LAST PERF. POINT
NEW MEXICO EAST**
NAD 1927
X=572280
Y=472527
LAT.: N 32.2988762
LONG.: W 104.0994061
NAD 1983
X=613463
Y=472586
LAT.: N 32.2989967
LONG.: W 104.0999019
MD = 19748'

CALCULATED CORNER

CALCULATED CORNER

LEASE NAME & WELL NO.: JACK SLEEPER STATE COM 9 & 16-23S-28E 201H
SECTION 4 TWP 23-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM ELEVATION 3014'
DESCRIPTION 197' FSL & 126' 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 9 & 16-23S-28E 201H		REVISION:	NOTES:
DATE:	01/29/20		
FILE:	AD JACK SLEEPER STATE COM 9 & 16S-28E 201H		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.
DRAWN BY:	A.M.D.		
SHEET:	1 OF 1		

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

October 18, 2019

Matador Production Company
One Lincoln Centre
Dallas, TX 75240

RECEIVED

FEB 14 2020

EMNRD-OCD ARTESIA

Re:

S4, T23S, R28E Eddy, NM
N 32.3276821 W -104.1006588

CLIENT: Matador Production Company
WELL: Jack Sleeper State Com 9 16 23S 28E 201H
FIELD: Purple Sage; Wolcamp (GAS)

RIG: Patterson 274
COUNTY: Eddy
API NO: 30-015-46131
JOB NO: 19MLG0122

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Jonathan Burns FS	Com 9 16 23S 28E 201H Original Hole	9694.00 Ft to 19852.00 Ft	August 20, 2019 to August 29, 2019	SlimPulse

Drilling Services Contract U.S. Land
Schlumberger Drilling and Measurements

Drilling Group

Geo Market Area: South West Texas Basin

7220 W I-H 20

Midland, Texas 79706

Phone : (432) 742-5400 (Main)

Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:

S4, T23S, R28E Eddy, NM

N 32.3276821 W -104.1006588

I, Jonathan Burns certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of August 20, 2019 through August 29, 2019, conduct or supervise the taking of the SlimPulse surveys from a depth of 9694.00 feet to a depth of 19852.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Matador Production Company for the Jack Sleeper State Com 9 16 23S 28E 201H Well (Original Hole) API No. 30-015-46131 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

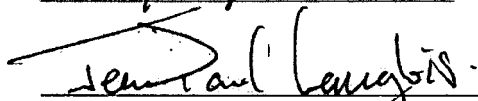
By
Jonathan Burns
FS



Subscribed and Sworn to before me this 18 day of October (month) 2019 (yr)

My Commission expires:

6/24/23

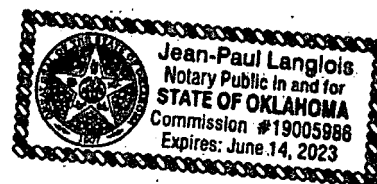


Notary Public

Comanche, Oklahoma

(County State)

(signature)



Matador Jack Sleeper Com 9 and 16-23S-28E 201H Gyro + MWD Surveys 0ft to 19892ft MD Survey Geodetic Report (Def Survey)



Report Date: September 03, 2019 - 09:20 AM
 Client: Matador
 Field: NM Eddy County (NAD 27)
 Structure / Slot: Matador Jack Sleeper Com 9 and 16-23S-28E 201H / New Slot
 Well: Matador Jack Sleeper Com 9 and 16-23S-28E 201H
 Borehole: Matador Jack Sleeper Com 9 and 16-23S-28E 201H
 UWM / API#: Unknown / Unknown
 Survey Name: Matador Jack Sleeper Com 9 and 16-23S-28E 201H Gyro + MWD Surveys 0ft to 19892ft MD
 Survey Date: July 30, 2019
 Tort / AHD / DDI / ERD Ratio: 256.598 * / 10988.571 ft / 6.771 / 1.157
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 19' 39.22734", W 104° 6' 0.58106"
 Location Grid N/E Y/X: N 482962.000 ftUS, E 572024.000 ftUS
 CRS Grid Convergence Angle: 0.1247 *
 Grid Scale Factor: 0.99991503
 Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 179.800 * (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3042.500 ft above MSL
 Seabed / Ground Elevation: 3014.000 ft above MSL
 Magnetic Declination: 7.136 *
 Total Gravity Field Strength: 998.4806mgm (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47892.763 nT
 Magnetic Dip Angle: 60.047 *
 Declination Date: July 30, 2019
 Magnetic Declination Model: HDGM 2019
 North Reference: Grid North
 Grid Convergence Used: 0.1247 *
 Total Corr Mag North->Grid: 7.0109 *
 North: Well Head
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	482962.00	572024.00	N 32 19 39.23	W 104 6 0.58
	171.00	0.20	226.30	171.00	0.21	-0.21	-0.22	0.12	482961.79	572023.78	N 32 19 39.23	W 104 6 0.58
	232.00	0.50	209.00	232.00	0.51	-0.51	-0.42	0.52	482961.49	572023.58	N 32 19 39.22	W 104 6 0.59
	324.00	0.60	215.90	323.99	1.25	-1.25	-0.90	0.13	482960.75	572023.10	N 32 19 39.21	W 104 6 0.59
	338.00	0.40	206.30	337.99	1.35	-1.36	-0.96	1.54	482960.64	572023.04	N 32 19 39.21	W 104 6 0.59
	433.00	0.20	215.90	432.99	1.78	-1.79	-1.21	0.22	482960.21	572022.79	N 32 19 39.21	W 104 6 0.60
	525.00	0.40	271.60	524.99	1.90	-1.91	-1.62	0.36	482960.09	572022.38	N 32 19 39.21	W 104 6 0.60
	617.00	0.60	276.00	616.99	1.84	-1.85	-2.42	0.22	482960.15	572021.58	N 32 19 39.21	W 104 6 0.61
	709.00	0.50	291.50	708.98	1.64	-1.65	-3.28	0.19	482960.35	572020.72	N 32 19 39.21	W 104 6 0.62
	805.00	0.70	272.60	804.98	1.46	-1.47	-4.25	0.29	482960.53	572019.75	N 32 19 39.21	W 104 6 0.63
	900.00	0.50	284.60	899.97	1.32	-1.34	-5.23	0.25	482960.66	572018.77	N 32 19 39.21	W 104 6 0.64
	996.00	0.70	266.80	995.97	1.25	-1.27	-6.22	0.28	482960.73	572017.78	N 32 19 39.21	W 104 6 0.65
	1091.00	0.40	289.90	1090.96	1.16	-1.19	-7.11	0.39	482960.81	572016.89	N 32 19 39.22	W 104 6 0.66
	1186.00	0.70	220.30	1185.96	1.49	-1.52	-7.80	0.71	482960.48	572016.20	N 32 19 39.21	W 104 6 0.67
	1281.00	0.70	222.70	1280.95	2.36	-2.39	-8.57	0.03	482959.61	572015.43	N 32 19 39.20	W 104 6 0.68
	1376.00	0.70	238.20	1375.95	3.09	-3.12	-9.46	0.20	482958.88	572014.54	N 32 19 39.20	W 104 6 0.69
	1471.00	1.10	264.90	1470.93	3.47	-3.51	-10.86	0.60	482958.49	572013.14	N 32 19 39.19	W 104 6 0.71
	1567.00	1.20	274.50	1566.91	3.46	-3.51	-12.78	0.23	482958.49	572011.22	N 32 19 39.19	W 104 6 0.73
	1662.00	0.20	182.60	1661.91	3.55	-3.60	-13.78	1.29	482958.40	572010.22	N 32 19 39.19	W 104 6 0.74
	1756.00	1.40	131.30	1755.90	4.47	-4.52	-12.92	1.37	482957.48	572011.08	N 32 19 39.18	W 104 6 0.73
	1851.00	2.00	117.50	1850.86	6.01	-6.05	-10.58	0.76	482955.95	572013.42	N 32 19 39.17	W 104 6 0.70
	1946.00	2.00	131.70	1945.80	7.89	-7.92	-7.87	0.52	482954.08	572016.13	N 32 19 39.15	W 104 6 0.67
	2041.00	2.40	129.40	2040.73	10.27	-10.28	-5.10	0.43	482951.72	572018.90	N 32 19 39.13	W 104 6 0.64
	2136.00	1.60	97.80	2135.67	11.72	-11.73	-2.25	0.40	482950.27	572021.75	N 32 19 39.11	W 104 6 0.61
	2231.00	1.40	85.80	2230.64	11.82	-11.82	0.23	0.39	482950.18	572024.23	N 32 19 39.11	W 104 6 0.58
	2326.00	1.70	89.10	2325.60	11.72	-11.71	2.79	0.33	482950.29	572026.79	N 32 19 39.11	W 104 6 0.55
	2421.00	1.00	79.90	2420.58	11.56	-11.55	5.02	0.77	482950.45	572029.02	N 32 19 39.11	W 104 6 0.52
	2449.00	0.90	74.90	2448.57	11.47	-11.45	5.47	0.46	482950.55	572029.47	N 32 19 39.11	W 104 6 0.52
	2598.00	1.00	73.90	2597.56	10.85	-10.83	7.69	0.07	482951.17	572031.69	N 32 19 39.12	W 104 6 0.49
	2684.00	1.20	71.30	2683.54	10.30	-10.27	9.45	0.21	482951.73	572033.45	N 32 19 39.13	W 104 6 0.47
	2779.00	1.30	66.60	2778.51	9.56	-9.52	11.38	0.15	482952.48	572035.38	N 32 19 39.13	W 104 6 0.45
	2874.00	1.00	73.40	2873.50	8.91	-8.86	13.16	0.35	482953.14	572037.16	N 32 19 39.14	W 104 6 0.43
	2969.00	2.70	54.70	2968.44	7.38	-7.33	15.78	1.88	482954.67	572039.78	N 32 19 39.15	W 104 6 0.40
	3065.00	3.30	53.20	3064.31	4.44	-4.37	19.84	0.63	482957.63	572043.84	N 32 19 39.18	W 104 6 0.35
	3160.00	3.20	52.50	3159.16	1.20	-1.12	24.13	0.11	482960.88	572048.13	N 32 19 39.22	W 104 6 0.30
	3255.00	3.20	51.80	3254.01	-2.04	2.14	28.32	0.04	482964.14	572052.32	N 32 19 39.25	W 104 6 0.25
	3350.00	2.80	53.20	3348.88	-5.05	5.17	32.26	0.43	482967.17	572056.26	N 32 19 39.28	W 104 6 0.20
	3446.00	2.90	48.10	3444.76	-8.07	8.19	35.95	0.28	482970.19	572059.94	N 32 19 39.31	W 104 6 0.16
	3541.00	2.80	48.60	3539.64	-11.20	11.33	39.48	0.11	482973.33	572063.47	N 32 19 39.34	W 104 6 0.12
	3636.00	2.80	48.80	3634.53	-14.25	14.40	42.96	0.01	482976.40	572066.96	N 32 19 39.37	W 104 6 0.08
	3731.00	2.90	49.50	3729.41	-17.32	17.49	46.54	0.11	482979.48	572070.53	N 32 19 39.40	W 104 6 0.04
	3826.00	2.70	48.20	3824.30	-20.36	20.54	50.03	0.22	482982.54	572074.03	N 32 19 39.43	W 104 6 0.00
	3922.00	2.50	47.20	3920.20	-23.28	23.47	53.25	0.21	482985.47	572077.25	N 32 19 39.46	W 104 5 59.96
	4017.00	2.50	48.10	4015.11	-26.06	26.26	56.32	0.04	482988.26	572080.31	N 32 19 39.49	W 104 5 59.92
	4112.00	2.50	45.50	4110.02	-28.89	29.09	59.34	0.12	482991.09	572083.33	N 32 19 39.51	W 104 5 59.89
	4207.00	2.60	50.50	4204.93	-31.70	31.92	62.48	0.26	482993.91	572086.47	N 32 19 39.54	W 104 5 59.85
	4302.00	2.70	47.90	4299.82	-34.56	34.79	65.80	0.16	482996.79	572089.79	N 32 19 39.57	W 104 5 59.81
	4398.00	2.60	51.30	4395.72	-37.42	37.67	69.18	0.19	482999.66	572093.17	N 32 19 39.60	W 104 5 59.77
	4493.00	3.60	55.00	4490.58	-40.47	40.72	73.30	1.07	483002.72	572097.29	N 32 19 39.63	W 104 5 59.73
	4588.00	3.70	53.60	4585.39	-43.98	44.25	78.21	0.14	483006.25	572102.20	N 32 19 39.66	W 104 5 59.67
	4683.00	3.60	51.30	4680.20	-47.65	47.94	83.01	0.19	483009.93	572107.00	N 32 19 39.70	W 104 5 59.61
	4779.00	3.30	52.40	4776.02	-51.20	51.51	87.55	0.32	483013.50	572111.54	N 32 19 39.74	W 104 5 59.56
	4873.00	3.10	48.80	4869.88	-54.51	54.83	91.60	0.30	483016.83	572115.60	N 32 19 39.77	W 104 5 59.51
	4968.00	3.00	67.20	4964.74	-57.15	57.49	95.83	1.03	483019.48	572119.82	N 32 19 39.79	W 104 5 59.46
	5063.00	3.00	70.00	5059.61	-58.95	59.30	100.46	0.15	483021.30	572124.45	N 32 19 39.81	W 104 5 59.41
	5159.00	2.70	70.10	5155.49	-60.56	60.93	104.94	0.31	483022.92	572128.93	N 32 19 39.83	W 104 5 59.36
	5253.00	2.80	72.70	5249.39	-61.98	62.37	109.22	0.17	483024.36	572133.21	N 32 19 39.84	W 104 5 59.31
	5348.00	2.70	77.30	5344.28	-63.15	63.55	113.61	0.25	483025.54	572137.60	N 32 19 39.85	W 104 5 59.26
	5444.00	2.80	80.20	5440.17	-64.03	64.44	118.13	0.18	483026.44	572142.12	N 32 19 39.86	W 104 5 59.20
	5538.00	2.50	77.80	5534.07	-64.84	65.27	122.40	0.34	483027.26	572146.39	N 32 19 39.87	W 104 5 59.15
	5632.00	2.20	82.80	5627.99	-65.49	65.83	126.19	0.39	483027.92	572150.18	N 32 19 39.88	W 104 5 59.11
	5728.00	2.00	84.60	5723.92	-65.86	66.32	129.69	0.22	483028.31	572153.68	N 32 19 39.88	W 104 5 59.07
	5823.00	2.00	88.30	5818.86	-66.06	66.52	132.99	0.14	483028.52	572156.98	N 32 19 39.88	W 104 5 59.03
	5918.00	2.10	60.50	5913.81	-66.95	67.43	136.17	1.04	483029.42	572160.15	N 32 19 39.89	W 104 5 58.99
	6013.00	2.00	55.30	6008.75	-68.74	69.23	139.04	0.22	483031.22	572163.03	N 32 19 39.91	W 104 5 58.96
	6108.00	1.50	53.50	6103.70	-70.42	70.91	141.41	0.53	483032.91	572165.39	N 32 19 39.93	W 104 5 58.93
	6204.00	2.00	49.10	6199.66	-72.25	72.76	143.68	0.54	483034.75	572167.67	N 32 19 39.94	W 104 5 58.90
	6298.00	1.70	34.40	6293.61	-74.47	74.98	145.71	0.59	483036.97	572169.70	N 32 19 39.97	W 104 5 58.88
	6394.00	2.20	53.60	6389.55	-76.73	77.25	148.00	0.85	483039.24	572171.99	N 32 19 39.99	W 104 5 58.85
	6488.00	2.90	76.10	6483.46	-78.36	78.89	151.76	1.29	483040.88	572175.75	N 32 19 40.00	W 104 5 58.81
	6584.00	1.90	88.10	6579.38	-78.98	79.53	155.71	1.16	483041.52	572179.69	N 32 19 40.01	W 104 5 58.76
	6679.00	2.40	95.90	6674.31	-78.82	79.38	159.26	0.61	483041.37	572183.25	N 32 19 40.01	W 104 5 58.72
	6773.00	2.40	109.20	6768.23	-77.96	78.53	163.08	0.59	483040.52	572187.06	N 32 19 40.00	W 104 5 58.68
	6869.00	1.80	84.30	6864.16	-77.43	78.01	166.47	1.12	483040.01	572190.46	N 32 19 40.00	W 104 5 58.64
	6964.00	1.50	80.90	6959.12	-77.77	78.36	169.19	0.33	483040.35	572193.17	N 32 19 40.00	W 104 5 58.61

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	7345.00	1.90	78.20	7339.81	-85.87	86.51	181.57	0.64	483048.50	572205.55	N 32 19 40.08 W 104	5 58.46
	7440.00	1.90	82.90	7434.76	-86.38	87.02	184.67	0.16	483049.02	572208.66	N 32 19 40.08 W 104	5 58.43
	7536.00	1.90	125.10	7530.71	-85.65	86.31	187.55	1.42	483048.30	572211.54	N 32 19 40.08 W 104	5 58.39
	7631.00	3.10	109.10	7625.62	-83.89	84.56	191.27	1.45	483046.55	572215.25	N 32 19 40.08 W 104	5 58.35
	7727.00	2.30	104.70	7721.52	-82.54	83.22	195.58	0.86	483045.21	572219.57	N 32 19 40.05 W 104	5 58.30
	7821.00	3.30	72.60	7811.21	-82.85	83.55	199.99	1.94	483045.54	572223.97	N 32 19 40.05 W 104	5 58.25
	7917.00	4.00	64.80	7911.41	-85.09	85.80	205.66	0.89	483047.80	572229.64	N 32 19 40.07 W 104	5 58.18
	8012.00	3.30	65.90	8006.02	-87.59	88.33	211.15	0.74	483050.32	572235.13	N 32 19 40.10 W 104	5 58.12
	8107.00	4.10	56.80	8100.82	-90.55	91.31	216.49	1.04	483053.30	572240.47	N 32 19 40.13 W 104	5 58.06
	8202.00	3.30	58.40	8195.62	-93.83	94.60	221.66	0.85	483056.59	572245.64	N 32 19 40.16 W 104	5 58.00
	8297.00	2.60	58.60	8290.50	-96.37	97.16	225.83	0.74	483059.15	572249.81	N 32 19 40.18 W 104	5 57.95
	8392.00	1.90	70.30	8385.42	-98.01	98.81	229.15	0.88	483060.80	572253.13	N 32 19 40.20 W 104	5 57.91
	8488.00	1.70	80.30	8481.38	-98.77	99.59	232.05	0.39	483061.58	572256.03	N 32 19 40.21 W 104	5 57.87
	8582.00	1.50	118.60	8575.34	-98.41	99.23	234.51	1.13	483061.22	572258.49	N 32 19 40.20 W 104	5 57.85
	8678.00	0.90	195.50	8671.33	-97.08	97.90	235.41	1.63	483059.89	572259.39	N 32 19 40.19 W 104	5 57.84
	8773.00	1.00	215.80	8766.31	-95.69	96.51	234.72	0.37	483058.50	572258.70	N 32 19 40.18 W 104	5 57.84
	8873.00	1.40	229.90	8866.29	-94.20	95.02	233.28	0.49	483057.01	572257.26	N 32 19 40.16 W 104	5 57.86
	8968.00	3.70	169.80	8961.20	-90.44	91.25	232.93	3.41	483053.24	572256.91	N 32 19 40.13 W 104	5 57.86
	9063.00	18.30	169.70	9054.20	-72.64	73.46	236.16	15.37	483035.46	572260.14	N 32 19 39.95 W 104	5 57.83
	9158.00	30.10	172.10	9140.71	-34.21	35.06	242.12	12.46	482997.05	572266.10	N 32 19 39.57 W 104	5 57.76
	9253.00	39.80	173.30	9218.48	-19.73	-18.87	248.96	10.24	482943.14	572272.94	N 32 19 39.04 W 104	5 57.68
	9347.00	49.10	172.90	9285.51	85.04	-84.14	256.88	9.90	482877.87	572280.86	N 32 19 38.39 W 104	5 57.59
	9442.00	57.60	178.10	9342.19	160.94	-160.03	262.66	9.96	482801.99	572286.64	N 32 19 37.64 W 104	5 57.52
	9537.00	61.80	186.00	9390.17	242.78	-241.87	259.61	8.43	482720.15	572283.59	N 32 19 36.83 W 104	5 57.56
Final Third Party MWD Survey	9630.00	71.20	184.10	9427.21	327.61	-326.73	252.16	10.28	482635.29	572276.14	N 32 19 35.99 W 104	5 57.65
First SLB MWD Survey	9694.00	78.32	183.41	9444.02	389.17	-388.31	248.13	11.17	482573.72	572272.10	N 32 19 35.38 W 104	5 57.70
HL Crossing	9775.00	79.34	183.08	9459.72	468.50	-467.65	243.63	1.32	482494.39	572267.61	N 32 19 34.59 W 104	5 57.75
	9805.00	79.73	183.83	9465.16	497.94	-497.10	241.85	2.78	482464.95	572265.83	N 32 19 34.30 W 104	5 57.78
	9836.31	80.73	183.77	9470.48	528.72	-527.88	239.81	3.21	482434.16	572263.78	N 32 19 34.07 W 104	5 57.80
	9870.00	81.81	183.71	9475.59	561.94	-561.11	237.63	3.21	482400.94	572261.61	N 32 19 33.67 W 104	5 57.83
	9965.00	85.83	183.96	9485.81	656.13	-655.33	231.32	4.24	482306.73	572255.30	N 32 19 32.74 W 104	5 57.90
	10061.00	87.49	183.57	9491.41	751.74	-750.95	225.02	1.78	482211.11	572249.00	N 32 19 31.79 W 104	5 57.98
	10156.00	91.48	183.99	9492.26	846.48	-845.72	218.76	4.22	482116.35	572242.74	N 32 19 30.85 W 104	5 58.05
	10251.00	91.31	183.69	9489.95	941.22	-940.48	212.40	0.36	482021.60	572236.38	N 32 19 29.92 W 104	5 58.13
	10346.00	90.69	180.38	9488.29	1036.12	-1035.40	209.03	3.54	481926.69	572233.01	N 32 19 28.98 W 104	5 58.17
	10441.00	90.69	179.04	9487.15	1131.11	-1130.39	209.51	1.41	481831.71	572233.49	N 32 19 28.04 W 104	5 58.17
	10536.00	91.38	180.91	9485.43	1226.09	-1225.36	209.55	2.10	481736.74	572233.53	N 32 19 27.10 W 104	5 58.17
	10631.00	90.79	181.88	9483.63	1321.03	-1320.32	207.24	1.19	481641.80	572231.22	N 32 19 26.16 W 104	5 58.20
	10726.00	90.14	182.51	9482.86	1415.95	-1415.24	203.60	0.95	481546.88	572227.58	N 32 19 25.22 W 104	5 58.24
	10821.00	90.45	181.83	9482.37	1510.86	-1510.17	200.00	0.79	481451.96	572223.99	N 32 19 24.28 W 104	5 58.29
	10916.00	89.48	180.49	9482.43	1605.83	-1605.15	198.08	1.74	481356.99	572222.06	N 32 19 23.34 W 104	5 58.31
	11011.00	86.14	178.06	9482.06	1700.74	-1700.05	199.28	4.35	481262.09	572223.26	N 32 19 22.40 W 104	5 58.30
	11102.00	88.00	177.98	9490.71	1791.57	-1790.88	202.42	2.05	481171.28	572226.40	N 32 19 21.50 W 104	5 58.27
	11194.00	90.00	178.14	9492.32	1883.51	-1882.81	205.53	2.18	481079.36	572229.52	N 32 19 20.59 W 104	5 58.23
	11286.00	90.55	176.74	9491.87	1975.43	-1974.71	209.64	1.63	480987.46	572233.62	N 32 19 19.68 W 104	5 58.19
	11378.00	88.07	177.64	9491.38	2067.33	-2066.60	214.15	1.11	480895.58	572238.13	N 32 19 18.77 W 104	5 58.14
	11470.00	88.11	179.31	9492.84	2159.29	-2158.54	216.60	2.80	480803.64	572240.58	N 32 19 17.86 W 104	5 58.11
	11562.00	86.76	180.33	9496.86	2251.19	-2250.45	216.89	1.84	480711.75	572240.87	N 32 19 16.95 W 104	5 58.11
	11654.00	88.00	180.20	9500.44	2343.12	-2342.38	216.46	2.33	480619.83	572240.45	N 32 19 16.04 W 104	5 58.12
	11745.00	89.86	181.39	9501.42	2434.10	-2433.36	215.20	1.68	480528.85	572239.18	N 32 19 15.14 W 104	5 58.14
	11837.00	91.72	180.56	9500.15	2526.06	-2525.33	213.64	2.21	480436.89	572237.62	N 32 19 14.23 W 104	5 58.16
	11925.00	91.93	180.40	9497.35	2614.01	-2613.28	212.90	0.30	480348.94	572236.88	N 32 19 13.36 W 104	5 58.17
	12017.00	91.65	180.48	9494.48	2705.96	-2705.24	212.19	0.32	480257.00	572236.18	N 32 19 12.45 W 104	5 58.18
	12109.00	91.55	180.23	9491.91	2797.92	-2797.20	211.62	0.29	480165.04	572235.61	N 32 19 11.54 W 104	5 58.19
	12200.00	90.86	180.11	9490.00	2888.90	-2888.18	211.35	0.77	480074.07	572235.34	N 32 19 10.64 W 104	5 58.19
	12292.00	90.93	180.10	9488.56	2980.89	-2980.17	211.49	0.08	479982.09	572235.17	N 32 19 9.73 W 104	5 58.20
	12383.00	90.65	178.32	9487.30	3071.87	-3071.15	212.44	1.98	479891.12	572236.42	N 32 19 8.83 W 104	5 58.18
	12478.00	89.72	178.46	9487.00	3166.84	-3166.11	215.11	0.99	479796.17	572239.09	N 32 19 7.89 W 104	5 58.15
	12572.00	90.41	178.60	9486.89	3260.81	-3260.08	217.52	0.75	479702.21	572241.50	N 32 19 6.96 W 104	5 58.13
	12667.00	90.59	177.42	9486.06	3355.76	-3355.01	220.82	1.26	479607.28	572244.80	N 32 19 6.02 W 104	5 58.09
	12762.00	90.28	176.90	9485.34	3450.66	-3449.89	225.53	0.64	479512.41	572249.51	N 32 19 5.08 W 104	5 58.04
	12857.00	90.65	176.86	9484.57	3545.53	-3544.75	230.70	0.39	479417.56	572254.68	N 32 19 4.15 W 104	5 57.98
	12951.00	90.78	177.25	9483.39	3639.42	-3638.62	235.53	0.44	479323.70	572259.51	N 32 19 3.22 W 104	5 57.93
	13045.00	90.31	177.28	9482.49	3733.32	-3732.51	240.01	0.51	479229.82	572263.99	N 32 19 2.29 W 104	5 57.88
	13140.00	89.24	177.75	9482.86	3828.24	-3827.41	244.13	1.23	479134.92	572268.11	N 32 19 1.35 W 104	5 57.83
	13235.00	89.21	178.00	9484.14	3923.18	-3922.34	247.65	0.27	479040.00	572271.63	N 32 19 0.41 W 104	5 57.79
	13329.00	90.17	178.30	9484.65	4017.14	-4016.29	250.69	1.07	478946.06	572274.66	N 32 18 59.48 W 104	5 57.76
	13424.00	90.72	178.42	9483.91	4112.11	-4111.25	253.41	0.59	478851.11	572277.38	N 32 18 58.54 W 104	5 57.73
	13520.00	91.31	178.63	9482.21	4208.07	-4207.20	255.88	0.65	478755.17	572279.85	N 32 18 57.59 W 104	5 57.71
	13615.00	90.72	178.33	9480.53	4303.03	-4302.15	258.40	0.70	478660.22	572282.37	N 32 18 56.65 W 104	5 57.68
	13710.00	90.96	178.55	9479.14	4397.99	-4397.10	260.98	0.34	478565.28	572284.96	N 32 18 55.71 W 104	5 57.65
	13805.00	89.97	177.95	9479.20	4492.95	-4492.05	263.88	2.19	478470.34	572287.86	N 32 18 54.77 W 104	5 57.62
	13900.00	89.83	178.40	9480.19	4587.90	-4587.00	266.91	1.02	478375.40	572290.88	N 32 18 53.83 W 104	5 57.59
	13995.00	90.76	178.58	9479.70	4682.88	-4681.96	269.41	1.00	478280.44	572293.39	N 32 18 52.89 W 104	5 57.56
	14090.00	91.21	177.45	9478.07	4777.81	-4776.89	272.70	1.28	478185.52	572296.68	N 32 18 51.95 W 104	5 57.52
	14184.00	90.93	177.85	9476.31	4871.73	-4870.80	276.55	0.52	478091.63	572300.53	N 32 18 51.02 W 104	5 57.48
	14279.00	90.90	179.54	9474.80	4966.70	-4965.76	278.72	1.78	477996.			

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	17134.00	89.79	181.98	9477.34	7821.04	-7820.14	270.52	0.98	475142.54	572294.50	N 32 18 21.84 W 104	5 57.63
	17229.00	89.97	180.78	9477.54	7916.00	-7915.11	268.23	1.28	475047.57	572292.21	N 32 18 20.90 W 104	5 57.66
	17324.00	89.73	180.60	9477.79	8010.99	-8010.11	267.09	0.32	474952.59	572291.07	N 32 18 19.96 W 104	5 57.67
	17419.00	89.48	181.22	9478.44	8105.97	-8105.09	265.58	0.70	474857.61	572289.56	N 32 18 19.02 W 104	5 57.69
	17514.00	89.55	181.96	9479.25	8200.92	-8200.05	262.95	0.78	474762.66	572286.92	N 32 18 18.08 W 104	5 57.73
	17609.00	90.07	181.37	9479.56	8295.87	-8295.01	260.19	0.83	474667.71	572284.16	N 32 18 17.14 W 104	5 57.76
	17704.00	89.04	181.42	9480.30	8390.83	-8389.98	257.87	1.09	474572.75	572281.85	N 32 18 16.20 W 104	5 57.79
	17799.00	89.62	180.76	9481.41	8485.79	-8484.95	256.07	0.92	474477.79	572280.04	N 32 18 15.26 W 104	5 57.81
	17894.00	89.59	182.45	9482.07	8580.74	-8579.91	253.41	1.78	474382.84	572277.38	N 32 18 14.32 W 104	5 57.85
	17990.00	89.83	181.81	9482.55	8676.65	-8675.84	249.84	0.71	474286.91	572273.82	N 32 18 13.37 W 104	5 57.89
	18085.00	90.14	181.69	9482.58	8771.61	-8770.80	246.94	0.35	474191.97	572270.92	N 32 18 12.43 W 104	5 57.93
	18180.00	90.48	179.46	9482.06	8866.59	-8865.78	245.98	2.37	474096.99	572269.96	N 32 18 11.49 W 104	5 57.94
	18275.00	90.21	178.67	9481.49	8961.58	-8960.77	247.53	0.88	474002.01	572271.51	N 32 18 10.55 W 104	5 57.92
	18371.00	90.72	179.10	9480.71	9057.56	-9056.75	245.40	0.69	473906.04	572273.38	N 32 18 9.60 W 104	5 57.90
	18466.00	90.24	180.11	9479.92	9152.56	-9151.74	250.06	1.18	473811.06	572274.03	N 32 18 8.66 W 104	5 57.90
	18561.00	89.90	179.96	9479.80	9247.56	-9246.74	250.00	0.39	473716.06	572273.88	N 32 18 7.72 W 104	5 57.90
	18657.00	87.73	179.62	9481.79	9343.53	-9342.71	250.35	2.29	473620.10	572274.33	N 32 18 6.77 W 104	5 57.90
	18752.00	90.21	179.64	9483.49	9438.51	-9437.69	250.96	2.61	473525.13	572274.94	N 32 18 5.83 W 104	5 57.90
	18847.00	90.58	179.59	9482.84	9533.50	-9532.68	251.60	0.39	473430.15	572275.58	N 32 18 4.89 W 104	5 57.89
	18942.00	91.72	179.42	9480.93	9628.48	-9627.66	252.42	1.21	473335.18	572276.40	N 32 18 3.95 W 104	5 57.88
	19038.00	90.38	180.81	9479.17	9724.46	-9723.64	252.23	2.01	473239.21	572276.21	N 32 18 3.00 W 104	5 57.89
	19133.00	90.00	179.73	9478.86	9819.45	-9818.64	251.78	1.21	473144.22	572275.76	N 32 18 2.06 W 104	5 57.90
	19228.00	90.69	179.88	9478.29	9914.45	-9913.63	252.10	0.74	473049.23	572276.08	N 32 18 1.12 W 104	5 57.90
	19323.00	89.45	179.36	9478.17	10009.45	-10008.63	252.73	1.42	472954.24	572276.71	N 32 18 0.18 W 104	5 57.89
	19419.00	89.45	179.86	9479.09	10105.44	-10104.62	253.39	0.52	472858.26	572277.37	N 32 17 59.23 W 104	5 57.89
	19514.00	89.42	179.82	9480.03	10200.44	-10199.62	253.65	0.05	472763.27	572277.63	N 32 17 58.29 W 104	5 57.88
	19609.00	89.55	178.52	9480.88	10295.43	-10294.60	255.03	1.38	472668.29	572279.01	N 32 17 57.35 W 104	5 57.87
	19704.00	89.31	179.59	9481.83	10390.41	-10389.58	256.60	1.15	472573.32	572280.57	N 32 17 56.41 W 104	5 57.86
	19800.00	89.59	180.51	9482.75	10486.41	-10485.58	256.51	1.00	472477.34	572280.49	N 32 17 55.46 W 104	5 57.86
HL Crossing	19803.62	89.59	180.50	9482.77	10490.03	-10489.20	256.48	0.23	472473.72	572280.46	N 32 17 55.43 W 104	5 57.86
Final Survey	19852.00	89.59	180.39	9483.12	10538.40	-10537.57	256.10	0.23	472425.34	572280.08	N 32 17 54.95 W 104	5 57.86
Projection To Bit	19892.00	89.59	180.39	9483.41	10578.40	-10577.57	255.83	0.00	472385.35	572279.81	N 32 17 54.55 W 104	5 57.87

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7855 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	28.500	1/98.425	17.500	13.375	NAL_MWD-NON_SLB-Depth Only	Matador Jack Sleeper Com 9 and 16-23S-28E 201H / Matador Jack Sleeper Com 9 and 16-23S-28E
	1	28.500	28.500	Act Stns	17.500	13.375	NAL_MWD-NON_SLB-Depth Only	Matador Jack Sleeper Com 9 and 16-23S-28E 201H / Matador Jack Sleeper Com 9 and 16-23S-28E
	1	28.500	400.000	Act Stns	17.500	13.375	NAL_MWD-NON_SLB	Matador Jack Sleeper Com 9 and 16-23S-28E 201H / Matador Jack Sleeper Com 9 and 16-23S-28E
	1	400.000	2500.000	Act Stns	12.250	9.625	NAL_MWD-NON_SLB	Matador Jack Sleeper Com 9 and 16-23S-28E 201H / Matador Jack Sleeper Com 9 and 16-23S-28E
	1	2500.000	9630.000	Act Stns	8.750	7.625	NAL_MWD-NON_SLB	Matador Jack Sleeper Com 9 and 16-23S-28E 201H / Matador Jack Sleeper Com 9 and 16-23S-28E
	1	9630.000	19892.000	Act Stns	6.750	5.500	NAL_MWD_1.0_DEG	Matador Jack Sleeper Com 9 and 16-23S-28E 201H / Matador Jack



PRODIRECTIONAL

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EMNRD-OCD ARTESIA



Jack Sleeper Com 9 & 16-23S-28E No. 201H

Eddy County, NM

30-015-46131

October 07, 2019

Job No. LNM5507519

ORIGINAL

Certified Report



PRODIRECTIONAL

Survey Certification Letter

October 07, 2019



Operator Name: Matador Resources
Well Name: Jack Sleeper Com 9 & 16-23S-28E No. 201H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5507519

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	Dates Performed	Type of Survey
ProDirectional	171' MD – 9,630' MD	07/13/19 – 07/19/19	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

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

No. 201H

OH

Survey: ProDirectional

Survey Report

07 October, 2019





ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 201H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3042.50usft
Site:	Jack Sleeper Com 9 & 16-23S-28E	MD Reference:	Well @ 3042.50usft
Well:	No. 201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD	Database:	WellPlanner1

Project:	Eddy County, NM (NAD83)		
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. 201H, LNM5507519					
Well Position	+N/-S	0.00 usft	Northing:	483,021.00 usft	Latitude:	32.327682
	+E/-W	0.00 usft	Easting:	613,206.00 usft	Longitude:	-104.100660
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,014.00 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				
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	179.80	

Survey Program	Date 10/7/2019				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
171.00	9,630.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM	



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 201H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3042.50usft
Site:	Jack Sleeper Com 9 & 16-23S-28E	MD Reference:	Well @ 3042.50usft
Well:	No. 201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD	Database:	WellPlanner1

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	483,021.00	613,206.00
171.00	0.20	226.30	171.00	0.21	-0.21	-0.22	0.30	226.30	483,020.79	613,205.78
Pro MWD First Survey: 171' MD										
232.00	0.50	209.00	232.00	0.51	-0.51	-0.42	0.66	219.45	483,020.49	613,205.58
324.00	0.60	215.90	323.99	1.25	-1.25	-0.90	1.54	215.64	483,019.75	613,205.10
338.00	0.40	206.30	337.99	1.35	-1.36	-0.96	1.66	215.37	483,019.64	613,205.04
433.00	0.20	215.90	432.99	1.78	-1.79	-1.21	2.16	214.03	483,019.21	613,204.79
525.00	0.40	271.60	524.99	1.90	-1.91	-1.62	2.51	220.36	483,019.09	613,204.38
617.00	0.60	276.00	616.99	1.84	-1.85	-2.42	3.05	232.63	483,019.15	613,203.58
709.00	0.50	291.50	708.98	1.64	-1.65	-3.28	3.67	243.22	483,019.35	613,202.72
805.00	0.70	272.60	804.98	1.46	-1.47	-4.25	4.50	250.89	483,019.53	613,201.75
900.00	0.50	284.60	899.97	1.32	-1.34	-5.23	5.40	255.61	483,019.66	613,200.77
996.00	0.70	266.80	995.97	1.25	-1.27	-6.22	6.35	258.47	483,019.73	613,199.78
1,091.00	0.40	289.90	1,090.96	1.16	-1.19	-7.11	7.21	260.51	483,019.81	613,198.89
1,186.00	0.70	220.30	1,185.96	1.49	-1.52	-7.80	7.95	258.99	483,019.48	613,198.20
1,281.00	0.70	222.70	1,280.95	2.36	-2.39	-8.57	8.90	254.43	483,018.61	613,197.43
1,376.00	0.70	238.20	1,375.95	3.09	-3.12	-9.46	9.96	251.74	483,017.88	613,196.54
1,471.00	1.10	264.90	1,470.93	3.47	-3.51	-10.86	11.41	252.10	483,017.49	613,195.14
1,567.00	1.20	274.50	1,566.91	3.46	-3.51	-12.78	13.25	254.64	483,017.49	613,193.22
1,662.00	0.20	182.60	1,661.91	3.55	-3.60	-13.78	14.24	255.37	483,017.40	613,192.22
1,756.00	1.40	131.30	1,755.90	4.47	-4.52	-12.92	13.69	250.72	483,016.48	613,193.08
1,851.00	2.00	117.50	1,850.86	6.01	-6.05	-10.58	12.19	240.24	483,014.95	613,195.42
1,946.00	2.00	131.70	1,945.80	7.89	-7.92	-7.87	11.17	224.83	483,013.08	613,198.13
2,041.00	2.40	129.40	2,040.73	10.27	-10.28	-5.10	11.48	206.36	483,010.72	613,200.90
2,136.00	1.60	97.80	2,135.67	11.72	-11.73	-2.25	11.94	190.84	483,009.27	613,203.75
2,231.00	1.40	85.80	2,230.64	11.82	-11.82	0.23	11.82	178.91	483,009.18	613,206.23
2,326.00	1.70	89.10	2,325.60	11.72	-11.71	2.79	12.04	166.59	483,009.29	613,208.79



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 201H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3042.50usft
Site:	Jack Sleeper Com 9 & 16-23S-28E	MD Reference:	Well @ 3042.50usft
Well:	No. 201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD	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)	
2,421.00	1.00	79.90	2,420.58	11.56	-11.55	5.02	12.59	156.51	483,009.45	613,211.02	
2,449.00	0.90	74.90	2,448.57	11.47	-11.45	5.47	12.69	154.46	483,009.55	613,211.47	
2,588.00	1.00	73.90	2,587.56	10.85	-10.83	7.69	13.28	144.61	483,010.17	613,213.69	
2,684.00	1.20	71.30	2,683.54	10.30	-10.27	9.45	13.95	137.40	483,010.73	613,215.45	
2,779.00	1.30	66.60	2,778.51	9.56	-9.52	11.38	14.84	129.93	483,011.48	613,217.38	
2,874.00	1.00	73.40	2,873.50	8.91	-8.86	13.16	15.87	123.95	483,012.14	613,219.16	
2,969.00	2.70	54.70	2,968.44	7.38	-7.33	15.78	17.40	114.91	483,013.67	613,221.78	
3,065.00	3.30	53.20	3,064.31	4.44	-4.37	19.84	20.32	102.42	483,016.63	613,225.84	
3,160.00	3.20	52.50	3,159.16	1.20	-1.12	24.13	24.16	92.65	483,019.88	613,230.13	
3,255.00	3.20	51.80	3,254.01	-2.04	2.14	28.32	28.40	85.68	483,023.14	613,234.32	
3,350.00	2.80	53.20	3,348.88	-5.05	5.17	32.26	32.67	80.90	483,026.17	613,238.26	
3,446.00	2.90	48.10	3,444.76	-8.07	8.19	35.95	36.87	77.16	483,029.19	613,241.95	
3,541.00	2.80	48.60	3,539.64	-11.20	11.33	39.48	41.07	73.98	483,032.33	613,245.48	
3,636.00	2.80	48.80	3,634.53	-14.25	14.40	42.96	45.31	71.47	483,035.40	613,248.96	
3,731.00	2.90	49.50	3,729.41	-17.32	17.49	46.54	49.71	69.41	483,038.49	613,252.54	
3,826.00	2.70	48.20	3,824.30	-20.36	20.54	50.03	54.08	67.68	483,041.54	613,256.03	
3,922.00	2.50	47.20	3,920.20	-23.28	23.47	53.25	58.19	66.22	483,044.47	613,259.25	
4,017.00	2.50	48.10	4,015.11	-26.06	26.26	56.32	62.14	65.00	483,047.26	613,262.32	
4,112.00	2.50	45.50	4,110.02	-28.89	29.09	59.34	66.08	63.88	483,050.09	613,265.34	
4,207.00	2.60	50.50	4,204.93	-31.70	31.92	62.48	70.16	62.94	483,052.92	613,268.48	
4,302.00	2.70	47.90	4,299.82	-34.56	34.79	65.80	74.43	62.13	483,055.79	613,271.80	
4,398.00	2.60	51.30	4,395.72	-37.42	37.67	69.18	78.77	61.43	483,058.67	613,275.18	
4,493.00	3.60	55.00	4,490.58	-40.47	40.72	73.30	83.85	60.94	483,061.72	613,279.30	
4,588.00	3.70	53.60	4,585.39	-43.98	44.25	78.21	89.86	60.50	483,065.25	613,284.21	
4,683.00	3.60	51.30	4,680.20	-47.65	47.94	83.01	95.85	59.99	483,068.94	613,289.01	
4,779.00	3.30	52.40	4,776.02	-51.20	51.51	87.55	101.58	59.53	483,072.51	613,293.55	
4,873.00	3.10	48.80	4,869.88	-54.51	54.83	91.60	106.76	59.10	483,075.83	613,297.60	



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 201H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3042.50usft
Site:	Jack Sleeper Com 9 & 16-23S-28E	MD Reference:	Well @ 3042.50usft
Well:	No. 201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD	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)	
4,968.00	3.00	67.20	4,964.74	-57.15	57.49	95.83	111.75	59.04	483,078.49	613,301.83	
5,063.00	3.00	70.00	5,059.61	-58.95	59.30	100.46	116.65	59.45	483,080.30	613,306.46	
5,159.00	2.70	70.10	5,155.49	-60.56	60.93	104.94	121.35	59.86	483,081.93	613,310.94	
5,253.00	2.80	72.70	5,249.39	-61.98	62.37	109.22	125.77	60.27	483,083.37	613,315.22	
5,348.00	2.70	77.30	5,344.28	-63.15	63.55	113.61	130.18	60.78	483,084.55	613,319.61	
5,444.00	2.80	80.20	5,440.17	-64.03	64.44	118.13	134.57	61.39	483,085.44	613,324.13	
5,538.00	2.50	77.80	5,534.07	-64.84	65.27	122.40	138.71	61.93	483,086.27	613,328.40	
5,632.00	2.20	82.80	5,627.99	-65.49	65.93	126.19	142.38	62.42	483,086.93	613,332.19	
5,728.00	2.00	84.60	5,723.92	-65.86	66.32	129.69	145.66	62.92	483,087.32	613,335.69	
5,823.00	2.00	88.30	5,818.86	-66.06	66.52	132.99	148.70	63.43	483,087.52	613,338.99	
5,918.00	2.10	60.50	5,913.81	-66.95	67.43	136.17	151.95	63.66	483,088.43	613,342.17	
6,013.00	2.00	55.30	6,008.75	-68.74	69.23	139.04	155.33	63.53	483,090.23	613,345.04	
6,108.00	1.50	53.50	6,103.70	-70.42	70.91	141.41	158.19	63.37	483,091.91	613,347.41	
6,204.00	2.00	49.10	6,199.66	-72.25	72.76	143.68	161.05	63.14	483,093.76	613,349.68	
6,298.00	1.70	34.40	6,293.61	-74.47	74.98	145.71	163.87	62.77	483,095.98	613,351.71	
6,394.00	2.20	53.60	6,389.55	-76.73	77.25	148.00	166.95	62.44	483,098.25	613,354.00	
6,488.00	2.90	76.10	6,483.46	-78.36	78.89	151.76	171.04	62.53	483,099.89	613,357.76	
6,584.00	1.90	88.10	6,579.38	-78.98	79.53	155.71	174.84	62.94	483,100.53	613,361.71	
6,679.00	2.40	95.90	6,674.31	-78.82	79.38	159.26	177.94	63.51	483,100.38	613,365.26	
6,773.00	2.40	109.20	6,768.23	-77.96	78.53	163.08	181.00	64.29	483,099.53	613,369.08	
6,869.00	1.80	84.30	6,864.16	-77.43	78.01	166.47	183.85	64.89	483,099.01	613,372.47	
6,964.00	1.50	80.90	6,959.12	-77.77	78.36	169.19	186.45	65.15	483,099.36	613,375.19	
7,059.00	2.90	49.50	7,054.06	-79.51	80.12	172.24	189.96	65.05	483,101.12	613,378.24	
7,155.00	2.90	48.50	7,149.93	-82.69	83.30	175.91	194.64	64.66	483,104.30	613,381.91	
7,250.00	1.60	60.90	7,244.86	-84.92	85.54	178.87	198.27	64.44	483,106.54	613,384.87	
7,345.00	1.90	78.20	7,339.81	-85.87	86.51	181.57	201.12	64.52	483,107.51	613,387.57	
7,440.00	1.90	82.90	7,434.76	-86.38	87.02	184.67	204.15	64.77	483,108.02	613,390.67	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD83)
Site: Jack Sleeper Com 9 & 16-23S-28E
Well: No. 201H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey/Calculation Method:
Database:
Well No. 201H
Well @ 3042.50usft
Well @ 3042.50usft
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)
7,536.00	1.90	125.10	7,530.71	-85.65	86.31	187.55	206.46	65.29	483,107.31	613,393.55
7,631.00	3.10	109.10	7,625.62	-83.89	84.56	191.27	209.13	66.15	483,105.56	613,397.27
7,727.00	2.30	104.70	7,721.52	-82.54	83.22	195.58	212.55	66.95	483,104.22	613,401.58
7,821.00	3.30	72.60	7,815.41	-82.85	83.55	199.99	216.74	67.33	483,104.55	613,405.99
7,917.00	4.00	64.80	7,911.21	-85.09	85.80	205.66	222.84	67.35	483,106.80	613,411.66
8,012.00	3.30	65.90	8,006.02	-87.59	88.33	211.15	228.88	67.30	483,109.33	613,417.15
8,107.00	4.10	56.80	8,100.82	-90.55	91.31	216.49	234.96	67.13	483,112.31	613,422.49
8,202.00	3.30	58.40	8,195.62	-93.83	94.60	221.66	241.00	66.89	483,115.60	613,427.66
8,297.00	2.60	58.60	8,290.50	-96.37	97.16	225.83	245.84	66.72	483,118.16	613,431.83
8,392.00	1.90	70.30	8,385.42	-98.01	98.81	229.15	249.55	66.67	483,119.81	613,435.15
8,488.00	1.70	80.30	8,481.38	-98.77	99.59	232.05	252.52	66.77	483,120.59	613,438.05
8,582.00	1.50	118.60	8,575.34	-98.41	99.23	234.51	254.64	67.06	483,120.23	613,440.51
8,678.00	0.90	195.50	8,671.33	-97.08	97.90	235.41	254.96	67.42	483,118.90	613,441.41
8,773.00	1.00	215.80	8,766.31	-95.69	96.51	234.72	253.79	67.65	483,117.51	613,440.72
8,873.00	1.40	229.90	8,866.29	-94.20	95.02	233.28	251.89	67.84	483,116.02	613,439.28
8,968.00	3.70	169.80	8,961.20	-90.44	91.25	232.93	250.17	68.61	483,112.25	613,438.93
9,063.00	18.30	169.70	9,054.20	-72.64	73.46	236.16	247.32	72.72	483,094.46	613,442.16
9,158.00	30.10	172.10	9,140.71	-34.21	35.06	242.12	244.65	81.76	483,056.06	613,448.12
9,253.00	39.80	173.30	9,218.48	19.73	-18.87	248.96	249.68	94.33	483,002.13	613,454.96
9,347.00	49.10	172.90	9,285.51	85.04	-84.14	256.88	270.31	108.14	482,936.86	613,462.88
9,442.00	57.60	178.10	9,342.19	160.94	-160.03	262.66	307.57	121.35	482,860.97	613,468.66
9,537.00	61.80	186.00	9,390.17	242.78	-241.87	259.61	354.82	132.97	482,779.13	613,465.61
9,630.00	71.20	184.10	9,427.21	327.61	-326.73	252.16	412.72	142.34	482,694.27	613,458.16

Last Survey: 9630' MD



ProDirectional
Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD83)
Site: Jack Sleeper Com 9 & 16-23S-28E
Well: No. 201H
Wellbore: OH
Design: MWD

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

Well No. 201H
Well @ 3042.50usft
Well @ 3042.50usft
Grid:
Minimum Curvature
WellPlanner1

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
171.00	171.00	-0.21	-0.22	Pro MWD First Survey: 171' MD
9,630.00	9,427.21	-326.73	252.16	Last Survey: 9630' MD