



PRODIRECTIONAL



HOBBS OCD
MAR 23 2018
RECEIVED



Airstrip 31-18S-35E RN State Com #133H
Lea County, NM

March 09, 2018

Job No. LNM5164018

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

March 09, 2018



Operator Name: Matador Resources
Well Name: Airstrip 31-18S-35E RN State Com No. 133H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5164018

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:

<u>Surveyor</u>	<u>Surveyed Depths</u>	<u>Projection to Bit</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
ProDirectional	190' MD – 15,223' MD	15,366' MD	01/25/18 – 02/12/18	MWD-OWSG

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

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

prodirectional.com



Matador Resources

Lea County, NM

Airstrip 31-18S-35E RN State Com

No. 133H

OH

Survey: ProDirectional

Survey Report

09 March, 2018





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 133H
Project:	Lea County, NM(NAD83)	TVD Reference:	Well @ 3968.50usft
Site:	Airstrip 31-18S-35E RN State Com	MD Reference:	Well @ 3968.50usft
Well:	No. 133H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-190'-15223', Proj. 15366'	Database:	WellPlanner1

Project	Lea 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	Airstrip 31-18S-35E RN State Com		
Site Position:		Northing:	618,487.00 usft
From:	Map	Easting:	799,025.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.6974659
		Longitude:	-103.4956607
		Grid Convergence:	0.45 °

Well	No. 133H					
Well Position	+N/-S	0.00 usft	Northing:	618,487.00 usft	Latitude:	32.6974659
	+E/-W	0.00 usft	Easting:	799,025.00 usft	Longitude:	-103.4956607
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,940.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/22/2018	6.63	60.68	48,217.40

Design		MWD-190'-15223', Proj. 15366'		
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
		0.00	0.00	Direction (°) 359.48

Survey Program		Date 3/9/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
190.00	15,366.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Airstrip 31-18S-35E RN State Com
Well: No. 133H
Wellbore: OH
Design: MWD-190'-15223', Proj. 15366'

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

Well No. 133H
Well @ 3968.50usft
Well @ 3968.50usft
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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	618,487.00	799,025.00
190.00	1.10	89.90	189.99	-0.01	0.00	1.82	1.82	89.90	618,487.00	799,026.82
Pro MWD First Survey: 190' MD										
388.00	1.50	96.30	387.94	-0.34	-0.28	6.30	6.31	92.53	618,486.72	799,031.30
511.00	2.20	86.90	510.87	-0.42	-0.33	10.26	10.26	91.83	618,486.67	799,035.26
697.00	2.00	85.60	696.75	-0.04	0.12	17.06	17.06	89.61	618,487.12	799,042.06
881.00	2.00	99.20	880.64	-0.36	-0.15	23.43	23.43	90.37	618,486.85	799,048.43
1,064.00	2.10	96.80	1,063.52	-1.33	-1.06	29.91	29.93	92.03	618,485.94	799,054.91
1,158.00	1.80	109.40	1,157.47	-2.05	-1.75	33.01	33.06	93.04	618,485.25	799,058.01
1,252.00	2.20	110.60	1,251.41	-3.21	-2.88	36.10	36.21	94.56	618,484.12	799,061.10
1,345.00	2.20	111.10	1,344.34	-4.51	-4.15	39.43	39.65	96.01	618,482.85	799,064.43
1,438.00	2.20	109.90	1,437.27	-5.79	-5.40	42.78	43.11	97.19	618,481.60	799,067.78
1,532.00	2.40	110.20	1,531.19	-7.11	-6.69	46.32	46.80	98.22	618,480.31	799,071.32
1,626.00	2.50	98.10	1,625.11	-8.12	-7.66	50.20	50.78	98.68	618,479.34	799,075.20
1,719.00	2.40	100.60	1,718.02	-8.80	-8.31	54.12	54.75	98.73	618,478.69	799,079.12
1,813.00	2.50	95.40	1,811.94	-9.39	-8.86	58.09	58.77	98.67	618,478.14	799,083.09
1,841.00	2.60	92.10	1,839.91	-9.48	-8.94	59.34	60.01	98.57	618,478.06	799,084.34
2,003.00	2.80	98.30	2,001.73	-10.25	-9.65	66.92	67.61	98.20	618,477.35	799,091.92
2,096.00	2.70	96.70	2,094.62	-10.88	-10.23	71.35	72.08	98.16	618,476.77	799,096.35
2,283.00	2.70	99.00	2,281.42	-12.16	-11.43	80.07	80.88	98.13	618,475.57	799,105.07
2,470.00	2.80	99.20	2,468.20	-13.66	-12.85	88.93	89.85	98.22	618,474.15	799,113.93
2,564.00	2.60	101.00	2,562.10	-14.47	-13.63	93.29	94.28	98.31	618,473.37	799,118.29
2,658.00	2.70	99.70	2,656.00	-15.29	-14.41	97.56	98.62	98.40	618,472.59	799,122.56
2,751.00	3.10	111.70	2,748.88	-16.63	-15.71	102.06	103.26	98.75	618,471.29	799,127.06
2,845.00	3.60	114.20	2,842.72	-18.83	-17.86	107.11	108.59	99.46	618,469.14	799,132.11
2,938.00	3.70	113.30	2,935.53	-21.26	-20.24	112.53	114.34	100.20	618,466.76	799,137.53
3,032.00	3.70	113.10	3,029.33	-23.70	-22.63	118.11	120.26	100.85	618,464.37	799,143.11



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Airstrip 31-18S-35E RN State Com
Well: No. 133H
Wellbore: OH
Design: MWD-190'-15223', Proj. 15366'

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well No. 133H
Well @ 3968.50usft
Well @ 3968.50usft
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)	
3,125.00	3.80	111.50	3,122.13	-26.06	-24.94	123.74	126.22	101.39	618,462.06	799,148.74	
3,219.00	3.80	110.20	3,215.93	-28.33	-27.15	129.56	132.37	101.84	618,459.85	799,154.56	
3,312.00	3.80	116.00	3,308.72	-30.79	-29.57	135.22	138.41	102.33	618,457.43	799,160.22	
3,406.00	3.70	119.70	3,402.52	-33.71	-32.44	140.65	144.34	102.99	618,454.56	799,165.65	
3,499.00	3.60	119.70	3,495.33	-36.69	-35.37	145.80	150.02	103.64	618,451.63	799,170.80	
3,592.00	3.50	120.50	3,588.15	-39.62	-38.26	150.78	155.56	104.24	618,448.74	799,175.78	
3,686.00	3.40	122.30	3,681.98	-42.61	-41.20	155.61	160.97	104.83	618,445.80	799,180.61	
3,780.00	3.10	124.20	3,775.83	-45.57	-44.12	160.06	166.03	105.41	618,442.88	799,185.06	
3,873.00	2.90	123.40	3,868.71	-48.32	-46.83	164.11	170.66	105.93	618,440.17	799,189.11	
3,932.00	2.80	123.70	3,927.63	-49.96	-48.45	166.55	173.46	106.22	618,438.55	799,191.55	
4,057.00	2.60	128.80	4,052.49	-53.47	-51.92	171.30	179.00	106.86	618,435.08	799,196.30	
4,151.00	2.30	128.50	4,146.41	-56.01	-54.43	174.44	182.74	107.33	618,432.57	799,199.44	
4,244.00	2.20	127.30	4,239.34	-58.28	-56.67	177.32	186.16	107.72	618,430.33	799,202.32	
4,337.00	1.90	129.90	4,332.28	-60.38	-58.74	179.92	189.27	108.08	618,428.26	799,204.92	
4,430.00	2.10	152.60	4,425.22	-62.89	-61.25	181.89	191.93	108.61	618,425.75	799,206.89	
4,524.00	2.10	129.70	4,519.16	-65.54	-63.88	184.01	194.78	109.14	618,423.12	799,209.01	
4,617.00	2.60	89.90	4,612.09	-66.66	-64.96	187.43	198.37	109.12	618,422.04	799,212.43	
4,710.00	2.70	87.30	4,704.99	-66.59	-64.85	191.73	202.40	108.69	618,422.15	799,216.73	
4,804.00	2.60	85.00	4,798.89	-66.34	-64.56	196.06	206.42	108.23	618,422.44	799,221.06	
4,897.00	2.40	86.50	4,891.80	-66.07	-64.26	200.11	210.17	107.80	618,422.74	799,225.11	
4,991.00	2.40	87.50	4,985.72	-65.90	-64.05	204.04	213.86	107.43	618,422.95	799,229.04	
5,084.00	2.50	82.90	5,078.63	-65.60	-63.72	208.00	217.54	107.03	618,423.28	799,233.00	
5,178.00	3.70	100.10	5,172.49	-65.93	-64.00	213.02	222.42	106.72	618,423.00	799,238.02	
5,271.00	3.70	97.20	5,265.30	-66.88	-64.90	218.95	228.36	106.51	618,422.10	799,243.95	
5,364.00	3.30	98.40	5,358.13	-67.70	-65.67	224.57	233.98	106.30	618,421.33	799,249.57	
5,457.00	3.20	100.50	5,450.98	-68.61	-66.53	229.77	239.21	106.15	618,420.47	799,254.77	
5,551.00	3.80	111.70	5,544.80	-70.29	-68.16	235.25	244.92	106.16	618,418.84	799,260.25	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Airstrip 31-18S-35E RN State Com
Well: No. 133H
Wellbore: OH
Design: MWD-190'-15223', Proj. 15366'

Local Co-ordinate Reference:
TVD Reference: Well @ 3968.50usft
MD Reference: Well @ 3968.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	
5,644.00	4.10	114.20	5,637.58	-72.85	-70.66	241.14	251.28	106.33	618,416.34	799,266.14	
5,737.00	4.00	111.70	5,730.35	-75.47	-73.23	247.19	257.81	106.50	618,413.77	799,272.19	
5,831.00	4.00	112.90	5,824.12	-78.01	-75.71	253.26	264.33	106.64	618,411.29	799,278.26	
5,924.00	4.10	113.10	5,916.89	-80.63	-78.28	259.30	270.86	106.80	618,408.72	799,284.30	
6,017.00	3.90	110.20	6,009.66	-83.08	-80.68	265.33	277.32	106.91	618,406.32	799,290.33	
6,110.00	3.70	109.70	6,102.46	-85.24	-82.78	271.12	283.48	106.98	618,404.22	799,296.12	
6,204.00	3.40	111.00	6,196.28	-87.31	-84.80	276.58	289.29	107.05	618,402.20	799,301.58	
6,297.00	3.30	108.30	6,289.12	-89.18	-86.63	281.70	294.72	107.09	618,400.37	799,306.70	
6,391.00	3.00	108.80	6,382.98	-90.87	-88.27	286.59	299.88	107.12	618,398.73	799,311.59	
6,484.00	2.70	108.10	6,475.86	-92.37	-89.74	290.98	304.50	107.14	618,397.26	799,315.98	
6,578.00	2.50	110.90	6,569.76	-93.83	-91.16	295.00	308.76	107.17	618,395.84	799,320.00	
6,671.00	2.50	134.30	6,662.68	-96.00	-93.30	298.34	312.59	107.37	618,393.70	799,323.34	
6,764.00	2.50	141.00	6,755.59	-99.02	-96.29	301.07	316.10	107.74	618,390.71	799,326.07	
6,858.00	2.50	142.30	6,849.50	-102.26	-99.51	303.62	319.51	108.15	618,387.49	799,328.62	
6,951.00	2.60	143.00	6,942.41	-105.57	-102.79	306.13	322.92	108.56	618,384.21	799,331.13	
7,045.00	2.50	143.50	7,036.31	-108.94	-106.15	308.63	326.37	108.98	618,380.85	799,333.63	
7,137.00	2.30	141.40	7,128.23	-112.02	-109.20	310.97	329.59	109.35	618,377.80	799,335.97	
7,230.00	2.30	141.30	7,221.16	-114.95	-112.12	313.31	332.76	109.69	618,374.88	799,338.31	
7,324.00	1.80	133.90	7,315.10	-117.47	-114.61	315.55	335.72	109.96	618,372.39	799,340.55	
7,417.00	1.30	190.30	7,408.07	-119.53	-116.66	316.41	337.23	110.24	618,370.34	799,341.41	
7,510.00	1.10	206.50	7,501.05	-121.36	-118.50	315.83	337.32	110.57	618,368.50	799,340.83	
7,604.00	1.00	214.90	7,595.03	-122.83	-119.98	314.95	337.03	110.85	618,367.02	799,339.95	
7,698.00	0.70	222.50	7,689.02	-123.92	-121.08	314.10	336.62	111.08	618,365.92	799,339.10	
7,791.00	0.40	253.40	7,782.02	-124.43	-121.59	313.40	336.16	111.20	618,365.41	799,338.40	
7,884.00	0.30	251.40	7,875.02	-124.59	-121.76	312.86	335.72	111.26	618,365.24	799,337.86	
7,978.00	0.20	220.80	7,969.02	-124.79	-121.96	312.52	335.47	111.32	618,365.04	799,337.52	
8,072.00	0.10	170.40	8,063.02	-125.00	-122.17	312.43	335.46	111.36	618,364.83	799,337.43	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Airstrip 31-18S-35E RN State Com
Well: No. 133H
Wellbore: OH
Design: MWD-190'-15223', Proj. 15366'

Local Co-ordinate Reference: Well No. 133H
TVD Reference: Well @ 3968.50usft
MD Reference: Well @ 3968.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	
8,165.00	0.10	146.70	8,156.02	-125.14	-122.31	312.48	335.57	111.38	618,364.69	799,337.48	
8,259.00	0.30	103.10	8,250.02	-125.27	-122.44	312.77	335.88	111.38	618,364.56	799,337.77	
8,352.00	0.40	97.00	8,343.01	-125.37	-122.53	313.33	336.43	111.36	618,364.47	799,338.33	
8,446.00	0.20	134.20	8,437.01	-125.53	-122.69	313.77	336.90	111.36	618,364.31	799,338.77	
8,539.00	0.10	223.40	8,530.01	-125.70	-122.86	313.83	337.02	111.38	618,364.14	799,338.83	
8,633.00	0.20	179.30	8,624.01	-125.93	-123.08	313.78	337.05	111.42	618,363.92	799,338.78	
8,727.00	0.60	194.10	8,718.01	-126.57	-123.72	313.66	337.18	111.53	618,363.28	799,338.66	
8,820.00	0.50	220.70	8,811.01	-127.34	-124.50	313.28	337.11	111.67	618,362.50	799,338.28	
8,914.00	0.30	179.40	8,905.00	-127.90	-125.06	313.01	337.07	111.78	618,361.94	799,338.01	
9,008.00	0.40	98.10	8,999.00	-128.19	-125.35	313.34	337.48	111.80	618,361.65	799,338.34	
9,101.00	1.30	90.20	9,091.99	-128.25	-125.40	314.71	338.78	111.73	618,361.60	799,339.71	
9,194.00	1.80	87.10	9,184.96	-128.21	-125.33	317.23	341.09	111.56	618,361.67	799,342.23	
9,288.00	1.70	82.70	9,278.91	-127.98	-125.08	320.09	343.66	111.34	618,361.92	799,345.09	
9,382.00	1.80	84.90	9,372.87	-127.70	-124.77	322.94	346.21	111.12	618,362.23	799,347.94	
9,476.00	1.60	80.80	9,466.83	-127.38	-124.43	325.71	348.66	110.91	618,362.57	799,350.71	
9,568.00	1.60	83.80	9,558.79	-127.06	-124.09	328.25	350.92	110.71	618,362.91	799,353.25	
9,662.00	1.70	80.70	9,652.75	-126.72	-123.72	330.93	353.30	110.50	618,363.28	799,355.93	
9,756.00	1.70	82.10	9,746.71	-126.33	-123.30	333.69	355.74	110.28	618,363.70	799,358.69	
9,849.00	1.80	83.30	9,839.67	-125.99	-122.94	336.50	358.26	110.07	618,364.06	799,361.50	
9,943.00	1.90	97.20	9,933.62	-126.04	-122.97	339.52	361.10	109.91	618,364.03	799,364.52	
9,990.00	2.10	102.10	9,980.59	-126.33	-123.24	341.13	362.71	109.86	618,363.76	799,366.13	
10,037.00	1.20	81.70	10,027.57	-126.46	-123.35	342.46	364.00	109.81	618,363.65	799,367.46	
10,083.00	4.30	349.40	10,073.52	-124.69	-121.59	342.62	363.56	109.54	618,365.41	799,367.62	
10,130.00	9.60	348.70	10,120.16	-119.10	-116.01	341.53	360.69	108.76	618,370.99	799,366.53	
10,177.00	15.00	351.30	10,166.07	-109.23	-106.15	339.84	356.03	107.35	618,380.85	799,364.84	
10,224.00	20.10	355.90	10,210.87	-95.14	-92.07	338.34	350.64	105.22	618,394.93	799,363.34	
10,270.00	24.80	356.80	10,253.37	-77.60	-74.54	337.24	345.38	102.46	618,412.46	799,362.24	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Airstrip 31-18S-35E RN State Com
Well: No. 133H
Wellbore: OH
Design: MWD-190'-15223', Proj. 15366'

Local Co-ordinate Reference: Well No. 133H
TVD Reference: Well @ 3968.50usft
MD Reference: Well @ 3968.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	
10,317.00	29.70	356.20	10,295.14	-56.12	-53.07	335.91	340.08	98.98	618,433.93	799,360.91	
10,364.00	34.30	356.10	10,334.99	-31.26	-28.23	334.24	335.43	94.83	618,458.77	799,359.24	
10,411.00	39.20	357.20	10,372.64	-3.18	-0.16	332.61	332.61	90.03	618,486.84	799,357.61	
10,457.00	44.90	359.00	10,406.78	27.61	30.62	331.62	333.03	84.73	618,517.62	799,356.62	
10,504.00	49.80	359.40	10,438.61	62.16	65.17	331.14	337.49	78.87	618,552.17	799,356.14	
10,550.00	54.00	359.10	10,466.99	98.35	101.36	330.66	345.85	72.96	618,588.36	799,355.66	
10,597.00	57.80	359.70	10,493.34	137.27	140.27	330.26	358.81	66.99	618,627.27	799,355.26	
10,643.00	60.60	359.70	10,516.89	176.77	179.78	330.05	375.84	61.42	618,666.78	799,355.05	
10,690.00	60.90	0.00	10,539.85	217.78	220.78	329.95	397.00	56.21	618,707.78	799,354.95	
10,737.00	63.00	359.60	10,561.95	259.26	262.26	329.80	421.37	51.51	618,749.26	799,354.80	
10,784.00	66.20	359.30	10,582.11	301.71	304.71	329.39	448.72	47.23	618,791.71	799,354.39	
10,830.00	70.60	358.90	10,599.04	344.46	347.46	328.72	478.32	43.41	618,834.46	799,353.72	
10,877.00	74.00	358.50	10,613.33	389.23	392.22	327.70	511.10	39.88	618,879.22	799,352.70	
10,923.00	77.60	357.50	10,624.61	433.80	436.78	326.14	545.11	36.75	618,923.78	799,351.14	
10,970.00	81.50	357.30	10,633.13	479.98	482.94	324.05	581.58	33.86	618,969.94	799,349.05	
11,017.00	83.00	357.40	10,639.47	526.52	529.46	321.89	619.63	31.30	619,016.46	799,346.89	
11,064.00	84.80	357.30	10,644.47	573.22	576.14	319.73	658.92	29.03	619,063.14	799,344.73	
11,110.00	87.00	357.60	10,647.75	619.07	621.98	317.69	698.42	27.06	619,108.98	799,342.69	
11,157.00	87.60	357.30	10,649.97	665.99	668.88	315.60	739.60	25.26	619,155.88	799,340.60	
11,203.00	88.00	357.60	10,651.73	711.92	714.80	313.56	780.55	23.69	619,201.80	799,338.56	
11,298.00	88.30	357.50	10,654.80	806.82	809.66	309.50	866.80	20.92	619,296.66	799,334.50	
11,391.00	89.90	358.20	10,656.26	899.77	902.58	306.01	953.05	18.73	619,389.58	799,331.01	
11,485.00	90.20	358.10	10,656.18	993.74	996.53	302.97	1,041.57	16.91	619,483.53	799,327.97	
11,578.00	90.30	358.40	10,655.77	1,086.72	1,089.49	300.13	1,130.07	15.40	619,576.49	799,325.13	
11,672.00	91.30	359.10	10,654.46	1,180.70	1,183.46	298.08	1,220.42	14.14	619,670.46	799,323.08	
11,765.00	91.70	359.50	10,652.03	1,273.67	1,276.42	296.95	1,310.50	13.10	619,763.42	799,321.95	
11,859.00	91.90	359.60	10,649.07	1,367.62	1,370.37	296.21	1,402.02	12.20	619,857.37	799,321.21	



ProDirectional
Survey Report



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Project: Lea County, NM(NAD83)
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Well: No. 133H
Wellbore: OH
Design: MWD-190'-15223', Proj. 15366'

Local Co-ordinate Reference:
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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)
11,952.00	92.00	359.90	10,645.91	1,460.57	1,463.31	295.80	1,492.91	11.43	619,950.31	799,320.80
12,045.00	91.90	359.60	10,642.75	1,553.51	1,556.26	295.40	1,584.04	10.75	620,043.26	799,320.40
12,138.00	91.50	359.70	10,639.99	1,646.47	1,649.21	294.83	1,675.36	10.14	620,136.21	799,319.83
12,232.00	92.50	0.20	10,636.71	1,740.41	1,743.16	294.75	1,767.90	9.60	620,230.16	799,319.75
12,325.00	91.60	0.90	10,633.38	1,833.33	1,836.09	295.64	1,859.74	9.15	620,323.09	799,320.64
12,418.00	91.90	1.10	10,630.54	1,926.26	1,929.03	297.26	1,951.80	8.76	620,416.03	799,322.26
12,511.00	90.70	0.80	10,628.43	2,019.20	2,021.99	298.81	2,043.95	8.41	620,508.99	799,323.81
12,605.00	91.50	0.80	10,626.63	2,113.16	2,115.97	300.12	2,137.14	8.07	620,602.97	799,325.12
12,698.00	92.90	1.00	10,623.06	2,206.06	2,208.88	301.58	2,229.38	7.77	620,695.88	799,326.58
12,792.00	90.40	0.50	10,620.35	2,299.99	2,302.83	302.81	2,322.65	7.49	620,789.83	799,327.81
12,885.00	90.70	0.50	10,619.46	2,392.97	2,395.82	303.62	2,414.98	7.22	620,882.82	799,328.62
12,979.00	92.00	0.50	10,617.24	2,486.92	2,489.79	304.44	2,508.33	6.97	620,976.79	799,329.44
13,072.00	93.40	0.30	10,612.86	2,579.81	2,582.68	305.09	2,600.64	6.74	621,069.68	799,330.09
13,166.00	94.70	0.50	10,606.22	2,673.56	2,676.44	305.74	2,693.85	6.52	621,163.44	799,330.74
13,259.00	93.10	1.40	10,599.90	2,766.31	2,769.21	307.28	2,786.21	6.33	621,256.21	799,332.28
13,353.00	93.70	1.70	10,594.32	2,860.08	2,863.01	309.82	2,879.73	6.18	621,350.01	799,334.82
13,446.00	95.10	2.00	10,587.19	2,952.73	2,955.69	312.81	2,972.19	6.04	621,442.69	799,337.81
13,540.00	94.00	1.40	10,579.73	3,046.36	3,049.35	315.59	3,065.63	5.91	621,536.35	799,340.59
13,633.00	92.40	0.70	10,574.54	3,139.17	3,142.18	317.29	3,158.16	5.77	621,629.18	799,342.29
13,727.00	93.60	0.80	10,569.62	3,233.02	3,236.04	318.52	3,251.68	5.62	621,723.04	799,343.52
13,821.00	91.80	359.70	10,565.19	3,326.90	3,329.93	318.93	3,345.17	5.47	621,816.93	799,343.93
13,914.00	91.80	359.80	10,562.27	3,419.85	3,422.89	318.52	3,437.68	5.32	621,909.89	799,343.52
14,008.00	93.90	0.60	10,557.60	3,513.73	3,516.76	318.85	3,531.19	5.18	622,003.76	799,343.85
14,102.00	93.20	359.20	10,551.78	3,607.54	3,610.58	318.69	3,624.62	5.04	622,097.58	799,343.69
14,195.00	92.80	357.50	10,546.91	3,700.39	3,703.41	316.01	3,716.87	4.88	622,190.41	799,341.01
14,289.00	94.00	357.60	10,541.33	3,794.17	3,797.16	312.00	3,809.95	4.70	622,284.16	799,337.00
14,382.00	95.40	358.30	10,533.71	3,886.82	3,889.78	308.69	3,902.01	4.54	622,376.78	799,333.69



ProDirectional Survey Report



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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)
14,476.00	95.70	357.40	10,524.62	3,980.34	3,983.28	305.18	3,994.95	4.38	622,470.28	799,330.18
14,569.00	93.00	357.00	10,517.57	4,072.99	4,075.89	300.65	4,086.96	4.22	622,562.89	799,325.65
14,662.00	89.50	356.00	10,515.54	4,165.83	4,168.68	294.97	4,179.10	4.05	622,655.68	799,319.97
14,756.00	90.90	356.50	10,515.21	4,259.68	4,262.47	288.82	4,272.25	3.88	622,749.47	799,313.82
14,849.00	92.00	356.20	10,512.86	4,352.51	4,355.25	282.90	4,364.43	3.72	622,842.25	799,307.90
14,943.00	93.60	356.30	10,508.27	4,446.24	4,448.94	276.76	4,457.54	3.56	622,935.94	799,301.76
15,037.00	92.50	355.60	10,503.27	4,539.93	4,542.57	270.13	4,550.59	3.40	623,029.57	799,295.13
15,130.00	93.20	355.30	10,498.64	4,632.58	4,635.16	262.77	4,642.60	3.24	623,122.16	799,287.77
15,223.00	93.80	355.40	10,492.96	4,725.17	4,727.68	255.24	4,734.56	3.09	623,214.68	799,280.24
Last Survey: 15223' MD										
15,366.00	93.80	355.40	10,483.49	4,867.49	4,869.90	243.80	4,876.00	2.87	623,356.90	799,268.80
PTB: 15366' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
190.00	189.99	0.00	1.82	Pro MWD First Survey: 190' MD
15,223.00	10,492.96	4,727.68	255.24	Last Survey: 15223' MD
15,366.00	10,483.49	4,869.90	243.80	PTB: 15366' MD