



PHOENIX
TECHNOLOGY SERVICES

HOBBS OCD
AUG 01 2019
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Matador Resources

Lea County, NM (NAD83)
Bruce Keplinger 13 State Com
123H

30-025 - 45434

OH

Design: Surveys (Patterson 813)

Standard Survey Report

18 April, 2019





Survey Report



Company: Matador Resources
 Project: Lea County, NM (NAD83)
 Site: Bruce Keplinger 13 State Com
 Well: 123H
 Wellbore: OH
 Design: Surveys (Patterson 813)

Local Co-ordinate Reference: Well 123H
 TVD Reference: RKB @ 3693.50usft (Patterson 813)
 MD Reference: RKB @ 3693.50usft (Patterson 813)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: USA Compass

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	Bruce Keplinger 13 State Com				
Site Position:		Northing:	536,757.40 usft	Latitude:	32° 28' 20.2526 N
From:	Lat/Long	Easting:	823,141.99 usft	Longitude:	103° 25' 10.3908 W
Position Uncertainty:	1.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	123H					
Well Position	+N/-S	0.00 usft	Northing:	536,757.40 usft	Latitude:	32° 28' 20.2526 N
	+E/-W	0.00 usft	Easting:	823,141.99 usft	Longitude:	103° 25' 10.3908 W
Position Uncertainty		1.00 usft	Wellhead Elevation:	usft	Ground Level:	3,665.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	1/15/2019	6.72	60.33	48,131.49256008

Design	Surveys (Patterson 813)				
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	359.53	

Survey Program	Date 4/18/2019				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
194.00	14,859.00	Phoenix MWD Surveys (OH)	MWD+HRGM	OWSG MWD + HRGM	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
194.00	0.70	334.20	194.00	1.07	-0.52	1.07	0.36	0.36	0.00
First Phoenix MWD Survey									
286.00	1.20	336.89	285.98	2.46	-1.14	2.47	0.55	0.54	2.92
381.00	0.81	333.47	380.97	3.97	-1.83	3.99	0.42	-0.41	-3.60
472.00	0.77	330.38	471.96	5.08	-2.42	5.10	0.06	-0.04	-3.40
563.00	0.84	313.06	562.95	6.07	-3.21	6.09	0.28	0.08	-19.03
655.00	0.32	302.19	654.94	6.67	-3.92	6.70	0.58	-0.57	-11.82
747.00	0.84	282.60	746.94	6.95	-4.79	6.99	0.60	0.57	-21.29
842.00	1.26	277.67	841.92	7.24	-6.51	7.29	0.45	0.44	-5.19
937.00	1.90	265.42	936.89	7.25	-9.11	7.33	0.76	0.67	-12.89



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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,032.00	2.29	264.58	1,031.82	6.95	-12.57	7.05	0.41	0.41	-0.88
1,126.00	2.34	262.48	1,125.75	6.52	-16.34	6.66	0.10	0.05	-2.23
1,220.00	2.41	264.07	1,219.67	6.07	-20.21	6.23	0.10	0.07	1.69
1,410.00	2.74	250.48	1,409.48	4.14	-28.47	4.37	0.36	0.17	-7.15
1,505.00	3.02	241.54	1,504.36	2.18	-32.81	2.45	0.56	0.29	-9.41
1,600.00	3.39	242.99	1,599.21	-0.28	-37.51	0.02	0.40	0.39	1.53
1,614.00	3.43	241.52	1,613.18	-0.67	-38.25	-0.36	0.69	0.29	-10.50
1,707.00	3.36	240.54	1,706.02	-3.34	-43.06	-2.98	0.10	-0.08	-1.05
1,802.00	2.89	238.45	1,800.88	-5.96	-47.53	-5.57	0.51	-0.49	-2.20
1,897.00	2.60	240.20	1,895.77	-8.28	-51.44	-7.86	0.32	-0.31	1.84
1,992.00	2.54	242.69	1,990.67	-10.32	-55.18	-9.87	0.13	-0.06	2.62
2,087.00	2.50	243.96	2,085.58	-12.20	-58.91	-11.71	0.07	-0.04	1.34
2,181.00	2.98	257.56	2,179.48	-13.62	-63.14	-13.10	0.86	0.51	14.47
2,276.00	3.50	264.66	2,274.32	-14.42	-68.44	-13.86	0.69	0.55	7.47
2,370.00	4.01	261.65	2,368.12	-15.17	-74.55	-14.56	0.58	0.54	-3.20
2,464.00	4.79	261.38	2,461.84	-16.23	-81.68	-15.56	0.83	0.83	-0.29
2,559.00	5.58	260.02	2,556.45	-17.63	-90.15	-16.89	0.84	0.83	-1.43
2,654.00	6.34	257.57	2,650.94	-19.56	-99.82	-18.74	0.84	0.80	-2.58
2,749.00	6.03	258.99	2,745.39	-21.64	-109.84	-20.74	0.36	-0.33	1.49
2,843.00	5.57	260.62	2,838.91	-23.33	-119.19	-22.35	0.52	-0.49	1.73
2,937.00	6.06	257.68	2,932.42	-25.13	-128.54	-24.07	0.61	0.52	-3.13
3,032.00	7.14	254.65	3,026.79	-27.76	-139.13	-26.62	1.19	1.14	-3.19
3,128.00	6.66	254.18	3,122.10	-30.86	-150.24	-29.63	0.50	-0.50	-0.49
3,222.00	6.10	255.93	3,215.51	-33.56	-160.33	-32.24	0.63	-0.60	1.86
3,317.00	6.22	258.87	3,309.96	-35.78	-170.28	-34.38	0.36	0.13	3.09
3,411.00	7.19	266.64	3,403.32	-37.11	-181.15	-35.62	1.41	1.03	8.27
3,506.00	6.68	265.66	3,497.63	-37.87	-192.59	-36.29	0.55	-0.54	-1.03
3,600.00	6.23	267.15	3,591.03	-38.54	-203.14	-36.87	0.51	-0.48	1.59
3,695.00	6.23	267.34	3,685.47	-39.04	-213.43	-37.29	0.02	0.00	0.20
3,790.00	6.70	267.26	3,779.87	-39.54	-224.12	-37.70	0.49	0.49	-0.08
3,884.00	6.83	269.18	3,873.21	-39.88	-235.18	-37.95	0.28	0.14	2.04
3,978.00	6.87	261.12	3,966.54	-40.83	-246.33	-38.81	1.02	0.04	-8.57
4,073.00	8.01	248.22	4,060.75	-44.17	-258.09	-42.05	2.12	1.20	-13.58
4,168.00	7.38	250.91	4,154.89	-48.62	-270.00	-46.40	0.76	-0.66	2.83
4,262.00	6.98	248.41	4,248.16	-52.69	-281.02	-50.39	0.54	-0.43	-2.66
4,357.00	6.44	251.46	4,342.50	-56.51	-291.44	-54.12	0.68	-0.57	3.21
4,452.00	6.36	255.57	4,436.91	-59.52	-301.58	-57.04	0.49	-0.08	4.33
4,547.00	5.91	255.06	4,531.37	-62.09	-311.40	-59.53	0.48	-0.47	-0.54
4,642.00	5.99	255.92	4,625.86	-64.56	-320.94	-61.92	0.13	0.08	0.91
4,736.00	6.53	256.89	4,719.30	-66.96	-330.90	-64.24	0.59	0.57	1.03
4,831.00	5.94	257.19	4,813.73	-69.28	-340.96	-66.48	0.62	-0.62	0.32
4,925.00	5.45	259.39	4,907.27	-71.18	-350.09	-68.30	0.57	-0.52	2.34
5,020.00	4.94	260.59	5,001.88	-72.68	-358.56	-69.73	0.55	-0.54	1.26



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5,115.00	6.17	258.91	5,096.43	-74.33	-367.60	-71.31	1.31	1.29	-1.77
5,210.00	6.13	258.17	5,190.88	-76.35	-377.58	-73.25	0.09	-0.04	-0.78
5,305.00	5.93	261.78	5,285.36	-78.09	-387.40	-74.91	0.45	-0.21	3.80
5,400.00	5.40	260.25	5,379.89	-79.55	-396.66	-76.29	0.58	-0.56	-1.61
5,495.00	4.91	260.49	5,474.51	-80.98	-405.08	-77.65	0.52	-0.52	0.25
5,590.00	4.24	257.41	5,569.21	-82.41	-412.51	-79.03	0.75	-0.71	-3.24
5,629.00	3.89	250.51	5,608.11	-83.17	-415.17	-79.76	1.54	-0.90	-17.69
5,774.00	3.62	250.11	5,752.80	-86.37	-424.11	-82.89	0.19	-0.19	-0.28
5,868.00	5.84	273.85	5,846.48	-87.06	-431.67	-83.51	3.10	2.36	25.26
5,963.00	7.28	275.84	5,940.86	-86.12	-442.48	-82.49	1.53	1.52	2.09
6,057.00	8.74	268.26	6,033.94	-85.73	-455.55	-81.99	1.91	1.55	-8.06
6,152.00	9.45	268.91	6,127.74	-86.10	-470.56	-82.24	0.76	0.75	0.68
6,247.00	10.25	260.20	6,221.35	-87.69	-486.69	-83.69	1.78	0.84	-9.17
6,341.00	10.51	259.42	6,313.81	-90.68	-503.36	-86.55	0.31	0.28	-0.83
6,435.00	10.38	259.44	6,406.25	-93.81	-520.11	-89.54	0.14	-0.14	0.02
6,530.00	10.14	260.87	6,499.73	-96.70	-536.78	-92.30	0.37	-0.25	1.51
6,624.00	9.71	261.65	6,592.33	-99.17	-552.79	-94.63	0.48	-0.46	0.83
6,718.00	9.26	262.51	6,685.04	-101.31	-568.13	-96.64	0.50	-0.48	0.91
6,811.00	9.40	262.22	6,776.81	-103.31	-583.08	-98.52	0.16	0.15	-0.31
6,905.00	9.44	260.01	6,869.54	-105.69	-598.27	-100.77	0.39	0.04	-2.35
6,999.00	9.70	254.99	6,962.24	-109.07	-613.51	-104.04	0.93	0.28	-5.34
7,093.00	9.59	253.95	7,054.91	-113.29	-628.69	-108.13	0.22	-0.12	-1.11
7,188.00	9.55	256.34	7,148.59	-117.34	-643.95	-112.05	0.42	-0.04	2.52
7,283.00	9.98	258.61	7,242.21	-120.83	-659.68	-115.41	0.61	0.45	2.39
7,377.00	9.40	258.94	7,334.87	-123.91	-675.20	-118.36	0.62	-0.62	0.35
7,472.00	9.07	255.21	7,428.64	-127.31	-690.05	-121.64	0.72	-0.35	-3.93
7,567.00	9.23	251.73	7,522.43	-131.61	-704.53	-125.82	0.61	0.17	-3.66
7,661.00	9.12	259.36	7,615.23	-135.35	-719.01	-129.44	1.30	-0.12	8.12
7,756.00	9.32	262.76	7,709.00	-137.70	-734.04	-131.68	0.61	0.21	3.58
7,851.00	8.20	258.93	7,802.90	-139.98	-748.32	-133.83	1.33	-1.18	-4.03
7,945.00	7.84	257.61	7,895.98	-142.64	-761.16	-136.39	0.43	-0.38	-1.40
8,040.00	7.60	257.69	7,990.11	-145.37	-773.62	-139.02	0.25	-0.25	0.08
8,134.00	7.32	259.72	8,083.32	-147.76	-785.59	-141.31	0.41	-0.30	2.16
8,228.00	7.11	259.11	8,176.57	-149.93	-797.19	-143.38	0.24	-0.22	-0.65
8,322.00	6.57	260.03	8,269.91	-151.96	-808.20	-145.32	0.59	-0.57	0.98
8,416.00	4.95	250.90	8,363.43	-154.22	-817.33	-147.51	1.97	-1.72	-9.71
8,509.00	2.63	241.44	8,456.22	-156.55	-823.00	-149.79	2.58	-2.49	-10.17
8,603.00	1.73	225.82	8,550.15	-158.57	-825.91	-151.79	1.14	-0.96	-16.62
8,697.00	2.03	216.72	8,644.10	-160.89	-827.92	-154.10	0.45	0.32	-9.68
8,790.00	1.54	205.60	8,737.06	-163.34	-829.45	-156.53	0.64	-0.53	-11.96
8,884.00	1.49	212.13	8,831.02	-165.52	-830.64	-158.70	0.19	-0.05	6.95
8,978.00	1.33	208.82	8,925.00	-167.51	-831.82	-160.68	0.19	-0.17	-3.52
9,072.00	1.44	206.10	9,018.97	-169.52	-832.87	-162.69	0.14	0.12	-2.89



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9,165.00	1.55	190.06	9,111.94	-171.81	-833.60	-164.97	0.46	0.12	-17.25
9,259.00	0.93	170.33	9,205.91	-173.81	-833.69	-166.97	0.79	-0.66	-20.99
9,287.00	0.20	66.50	9,233.91	-174.02	-833.61	-167.18	3.56	-2.61	-370.82
9,366.00	1.07	27.85	9,312.91	-173.31	-833.14	-166.47	1.17	1.10	-48.92
9,413.00	6.00	6.78	9,359.81	-170.48	-832.64	-163.65	10.67	10.49	-44.83
9,461.00	10.96	5.16	9,407.27	-163.44	-831.94	-156.61	10.34	10.33	-3.38
9,508.00	16.26	3.99	9,452.93	-152.42	-831.08	-145.60	11.29	11.28	-2.49
9,555.00	21.24	3.26	9,497.42	-137.35	-830.13	-130.53	10.61	10.60	-1.55
9,602.00	26.26	4.58	9,540.43	-118.47	-828.82	-111.67	10.74	10.68	2.81
9,650.00	30.53	4.05	9,582.64	-95.72	-827.11	-88.93	8.91	8.90	-1.10
9,697.00	34.98	359.45	9,622.17	-70.32	-826.40	-63.54	10.84	9.47	-9.79
9,745.00	39.85	357.51	9,660.28	-41.18	-827.20	-34.39	10.44	10.15	-4.04
9,792.00	44.49	357.92	9,695.10	-9.66	-828.45	-2.86	9.89	9.87	0.87
9,839.00	49.73	358.63	9,727.08	24.75	-829.48	31.55	11.20	11.15	1.51
9,886.00	55.78	359.97	9,755.52	62.14	-829.92	68.95	13.07	12.87	2.85
9,933.00	59.90	358.35	9,780.53	101.92	-830.51	108.72	9.24	8.77	-3.45
9,980.00	63.30	357.99	9,802.88	143.23	-831.83	150.05	7.27	7.23	-0.77
10,028.00	67.66	358.11	9,822.80	186.87	-833.32	193.70	9.09	9.08	0.25
10,075.00	71.44	358.97	9,839.21	230.88	-834.44	237.72	8.22	8.04	1.83
10,123.00	75.76	1.67	9,852.77	276.91	-834.17	283.75	10.49	9.00	5.63
10,170.00	78.79	1.60	9,863.12	322.73	-832.86	329.56	6.45	6.45	-0.15
10,218.00	85.07	1.46	9,869.85	370.22	-831.59	377.03	13.09	13.08	-0.29
10,313.00	87.98	2.65	9,875.61	464.97	-828.19	471.75	3.31	3.06	1.25
10,407.00	88.32	2.80	9,878.64	558.81	-823.72	565.55	0.40	0.36	0.16
10,502.00	90.19	0.23	9,879.88	653.76	-821.21	660.48	3.35	1.97	-2.71
10,596.00	91.29	359.62	9,878.67	747.75	-821.34	754.46	1.34	1.17	-0.65
10,691.00	89.16	358.46	9,878.29	842.73	-822.93	849.45	2.55	-2.24	-1.22
10,785.00	88.93	358.48	9,879.86	936.68	-825.44	943.42	0.25	-0.24	0.02
10,880.00	89.64	358.14	9,881.04	1,031.63	-828.24	1,038.39	0.83	0.75	-0.36
10,975.00	90.00	358.09	9,881.34	1,126.58	-831.36	1,133.36	0.38	0.38	-0.05
11,070.00	90.70	357.75	9,880.76	1,221.52	-834.81	1,228.32	0.82	0.74	-0.36
11,162.00	89.05	357.97	9,880.96	1,313.45	-838.25	1,320.28	1.81	-1.79	0.24
11,256.00	90.06	357.89	9,881.69	1,407.38	-841.64	1,414.24	1.08	1.07	-0.09
11,350.00	91.48	358.69	9,880.43	1,501.33	-844.45	1,508.21	1.73	1.51	0.85
11,445.00	91.60	359.38	9,877.88	1,596.28	-846.05	1,603.17	0.74	0.13	0.73
11,539.00	90.59	0.08	9,876.08	1,690.26	-846.49	1,697.15	1.31	-1.07	0.74
11,632.00	91.12	0.43	9,874.69	1,783.25	-846.07	1,790.13	0.68	0.57	0.38
11,726.00	91.82	0.69	9,872.28	1,877.21	-845.16	1,884.08	0.79	0.74	0.28
11,819.00	91.41	359.62	9,869.66	1,970.18	-844.90	1,977.04	1.23	-0.44	-1.15
11,913.00	92.01	358.93	9,866.86	2,064.13	-846.09	2,071.00	0.97	0.64	-0.73
12,006.00	91.54	358.71	9,863.97	2,157.06	-848.01	2,163.94	0.56	-0.51	-0.24
12,100.00	90.89	358.52	9,861.98	2,251.01	-850.28	2,257.91	0.72	-0.69	-0.20
12,194.00	91.71	358.83	9,859.85	2,344.96	-852.45	2,351.88	0.93	0.87	0.33
12,287.00	91.32	358.62	9,857.39	2,437.91	-854.52	2,444.83	0.48	-0.42	-0.23



Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Bruce Keplinger 13 State Com
Well: 123H
Wellbore: OH
Design: Surveys (Patterson 813)

Local Co-ordinate Reference: Well 123H
TVD Reference: RKB @ 3693.50usft (Patterson 813)
MD Reference: RKB @ 3693.50usft (Patterson 813)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,381.00	91.06	358.59	9,855.44	2,531.86	-856.81	2,538.80	0.28	-0.28	-0.03
12,475.00	88.35	358.40	9,855.92	2,625.81	-859.28	2,632.78	2.89	-2.88	-0.20
12,568.00	87.54	358.16	9,859.26	2,718.71	-862.07	2,725.69	0.91	-0.87	-0.26
12,662.00	88.77	358.23	9,862.28	2,812.62	-865.03	2,819.62	1.31	1.31	0.07
12,756.00	90.00	358.29	9,863.29	2,906.56	-867.88	2,913.59	1.31	1.31	0.06
12,849.00	89.80	358.21	9,863.45	2,999.52	-870.72	3,006.56	0.23	-0.22	-0.09
12,943.00	89.75	358.66	9,863.82	3,093.49	-873.29	3,100.54	0.48	-0.05	0.48
13,037.00	88.38	359.76	9,865.36	3,187.46	-874.58	3,194.53	1.87	-1.46	1.17
13,130.00	87.76	0.02	9,868.49	3,280.41	-874.76	3,287.47	0.72	-0.67	0.28
13,224.00	86.30	0.62	9,873.36	3,374.28	-874.24	3,381.33	1.68	-1.55	0.64
13,317.00	86.10	1.02	9,879.52	3,467.06	-872.91	3,474.11	0.48	-0.22	0.43
13,411.00	86.48	1.24	9,885.61	3,560.85	-871.06	3,567.87	0.47	0.40	0.23
13,504.00	87.48	0.93	9,890.51	3,653.70	-869.30	3,660.71	1.13	1.08	-0.33
13,598.00	87.37	2.24	9,894.73	3,747.57	-866.70	3,754.55	1.40	-0.12	1.39
13,691.00	86.36	2.80	9,899.81	3,840.34	-862.62	3,847.28	1.24	-1.09	0.60
13,785.00	86.98	2.90	9,905.28	3,934.06	-857.96	3,940.97	0.67	0.66	0.11
13,879.00	88.77	3.25	9,908.76	4,027.86	-852.92	4,034.72	1.94	1.90	0.37
13,972.00	89.10	3.38	9,910.49	4,120.68	-847.54	4,127.50	0.38	0.35	0.14
14,066.00	87.53	2.81	9,913.25	4,214.50	-842.47	4,221.27	1.78	-1.67	-0.61
14,160.00	86.56	1.63	9,918.10	4,308.31	-838.83	4,315.04	1.62	-1.03	-1.26
14,253.00	87.03	0.11	9,923.30	4,401.15	-837.42	4,407.87	1.71	0.51	-1.63
14,347.00	87.90	359.44	9,927.46	4,495.05	-837.79	4,501.77	1.17	0.93	-0.71
14,441.00	88.35	359.15	9,930.53	4,588.99	-838.95	4,595.72	0.57	0.48	-0.31
14,534.00	88.97	359.11	9,932.71	4,681.96	-840.36	4,688.69	0.67	0.67	-0.04
14,628.00	89.19	359.03	9,934.22	4,775.93	-841.88	4,782.68	0.25	0.23	-0.09
14,722.00	89.61	359.02	9,935.20	4,869.91	-843.48	4,876.67	0.45	0.45	-0.01
14,772.00	90.03	359.00	9,935.36	4,919.91	-844.35	4,926.67	0.84	0.84	-0.04
Final Phoenix MWD Survey									
14,859.00	90.03	359.00	9,935.31	5,006.89	-845.86	5,013.66	0.00	0.00	0.00
Projection to TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
194.00	194.00	1.07	-0.52	First Phoenix MWD Survey
14,772.00	9,935.36	4,919.91	-844.35	Final Phoenix MWD Survey
14,859.00	9,935.31	5,006.89	-845.86	Projection to TD

SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

Job #: 64134
Client: Matador Resources
County & State: Lea, New Mexico
Well: Bruce Keplinger 13 State Com 123H
API No: ~~98-025-15454~~
Proposed Direction: 349.53°

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
0.00 ft	0.00 ft	0.00°	0.00°	. N	. E	Surface
Data Source Company:						Phoenix

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
21-Jan-19	194 ft	0.70°	334.20°

Last Survey Date	Last Survey Depth	INC	AZM
7-Feb-19	14,772 ft	90.03°	359.00°

Survey Instrument Type
Phoenix P-360

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
7-Feb-19	14,859 ft	90.03°	359.00°

CORRECTION INFORMATION

Magnetic Declination Used	6.72	degrees
Grid Convergence Used	0.49	degrees
Total Correction	6.23	degrees

Corrected to True/Grid North
Grid North

Bruce Manser

TO THE BEST OF MY KNOWLEDGE, I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

Signature

7-Feb

Date