



Oxy Mesa Verde BS Unit 3H Gyro+MWD 0-19,320' Survey Geodetic Report

(Def Survey)

Report Date: June 27, 2018 - 12:35 PM
 Client: OXY
 Field: NM Lea County (NAD 83)
 Structure / Slot: Oxy Mesa Verde BS Unit 3H / Oxy Mesa Verde BS Unit 3H
 Well: Oxy Mesa Verde BS Unit 3H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-025-44183
 Survey Name: Oxy Mesa Verde BS Unit 3H Gyro+MWD 0-19,320'
 Survey Date: June 08, 2018
 Tort / AHD / DDH / ERD Ratio: 247.729' / 10837.648 ft / 8.751' / 1.178
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 12' 39.21437" W 103° 41' 38.60955"
 Location Grid N/E Y/X: N 441045.880 NUS, E 739223.840 NUS
 CRS Grid Convergence Angle: 0.3411°
 Grid Scale Factor: 0.9995394
 Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 358.136° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 h
 TVD Reference Datum: RKB+26.5'
 TVD Reference Elevation: 3584.200 ft above MSL
 Seabed / Ground Elevation: 3557.700 ft above MSL
 Magnetic Declination: 6.811°
 Total Gravity Field Strength: 998.4322mg (9.80565 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47896.105 nT
 Magnetic Dip Angle: 59.920°
 Declination Date: June 08, 2018
 Magnetic Declination Model: HDGM 2018
 North Reference: Grid North
 Grid Convergence Used: 0.3411°
 Total Corr Mag North->Grid North: 6.4703°
 Local Coord Referenced To: Well Head

30-025-44183

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S)	Longitude (E/W)
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00		441045.88	739223.84	N 32 12 39.21	W 103 41 38.61
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	441045.88	739223.84	N 32 12 39.21	W 103 41 38.61
	58.50	0.38	189.67	68.50	-0.14	-0.14	-0.02	0.90	441045.74	739223.82	N 32 12 39.21	W 103 41 38.61
	155.50	0.71	202.81	155.50	-0.90	-0.92	-0.28	0.40	441044.98	739223.56	N 32 12 39.21	W 103 41 38.61
	246.50	1.18	204.73	246.48	-2.22	-2.25	-0.89	0.52	441043.59	739222.95	N 32 12 39.19	W 103 41 38.62
	341.50	1.40	198.10	341.46	-4.16	-4.28	-1.66	0.28	441041.60	739222.18	N 32 12 39.17	W 103 41 38.63
	435.50	1.18	202.11	435.44	-6.09	-6.27	-2.38	0.25	441039.61	739221.48	N 32 12 39.15	W 103 41 38.64
	529.50	1.13	199.81	529.42	-7.81	-8.04	-3.06	0.07	441037.84	739220.78	N 32 12 39.14	W 103 41 38.65
	623.50	0.94	202.33	623.40	-9.35	-9.62	-3.67	0.21	441036.28	739220.17	N 32 12 39.12	W 103 41 38.65
	717.50	1.01	202.49	717.39	-10.79	-11.10	-4.28	0.07	441034.78	739219.56	N 32 12 39.10	W 103 41 38.66
	812.50	1.08	200.33	812.37	-12.36	-12.72	-4.91	0.08	441033.17	739218.93	N 32 12 39.09	W 103 41 38.67
	909.50	0.88	198.85	909.36	-13.92	-14.31	-5.34	0.29	441031.57	739218.50	N 32 12 39.07	W 103 41 38.67
	1056.00	0.13	113.22	1055.85	-15.09	-15.49	-5.36	0.59	441030.40	739218.48	N 32 12 39.06	W 103 41 38.67
	1147.00	0.16	55.24	1146.85	-15.07	-15.45	-5.16	0.16	441030.43	739218.68	N 32 12 39.06	W 103 41 38.67
	1326.00	0.11	151.22	1325.85	-15.10	-15.46	-4.87	0.11	441030.42	739218.97	N 32 12 39.06	W 103 41 38.67
	1417.00	0.08	95.57	1416.85	-15.10	-15.44	-4.78	0.10	441030.34	739219.06	N 32 12 39.06	W 103 41 38.67
	1507.00	0.13	297.74	1506.85	-15.14	-15.50	-4.83	0.21	441030.38	739219.01	N 32 12 39.06	W 103 41 38.67
	1598.00	0.13	101.48	1597.85	-15.11	-15.47	-4.82	0.28	441030.41	739219.02	N 32 12 39.06	W 103 41 38.67
	1692.00	0.11	82.87	1691.85	-15.14	-15.48	-4.82	0.05	441030.40	739219.22	N 32 12 39.06	W 103 41 38.66
	1786.00	0.13	157.01	1785.85	-15.23	-15.57	-4.49	0.15	441030.31	739219.35	N 32 12 39.06	W 103 41 38.66
	1880.00	0.08	285.28	1879.85	-15.31	-15.85	-4.51	0.20	441030.23	739219.33	N 32 12 39.06	W 103 41 38.66
	1974.00	0.13	268.35	1973.85	-15.28	-15.64	-4.68	0.06	441030.24	739219.18	N 32 12 39.06	W 103 41 38.67
	2068.00	0.06	113.27	2067.85	-15.30	-15.66	-4.75	0.20	441030.22	739219.09	N 32 12 39.06	W 103 41 38.67
	2256.00	0.11	85.84	2255.85	-15.29	-15.62	-4.49	0.04	441030.26	739219.35	N 32 12 39.06	W 103 41 38.66
	2350.00	0.08	274.85	2349.85	-15.25	-15.58	-4.47	0.20	441030.30	739219.37	N 32 12 39.06	W 103 41 38.66
	2537.00	0.08	165.91	2536.85	-15.35	-15.70	-4.57	0.07	441030.18	739219.27	N 32 12 39.06	W 103 41 38.66
	2729.00	0.08	223.75	2728.85	-15.57	-15.92	-4.63	0.04	441029.96	739219.21	N 32 12 39.06	W 103 41 38.66
	2915.00	0.13	47.17	2914.85	-15.53	-15.87	-4.56	0.11	441030.01	739219.28	N 32 12 39.06	W 103 41 38.66
	3104.00	0.06	318.78	3103.85	-15.32	-15.65	-4.48	0.08	441030.23	739219.37	N 32 12 39.06	W 103 41 38.66
	3198.00	0.06	142.89	3197.85	-15.32	-15.68	-4.48	0.13	441030.22	739219.38	N 32 12 39.06	W 103 41 38.66
	3293.00	0.06	286.54	3292.85	-15.34	-15.68	-4.48	0.12	441030.20	739219.34	N 32 12 39.06	W 103 41 38.66
	3388.00	0.13	82.13	3387.85	-15.32	-15.65	-4.44	0.20	441030.23	739219.40	N 32 12 39.06	W 103 41 38.66
	3577.00	0.20	125.57	3576.85	-15.51	-15.82	-3.96	0.07	441030.07	739219.88	N 32 12 39.06	W 103 41 38.66
	3766.00	0.11	245.47	3765.85	-15.79	-16.08	-3.85	0.14	441029.80	739219.99	N 32 12 39.06	W 103 41 38.66
	3860.00	0.32	182.93	3859.85	-16.08	-16.38	-3.95	0.30	441029.50	739219.89	N 32 12 39.05	W 103 41 38.66
	4050.00	0.06	107.17	4049.85	-16.64	-16.94	-3.88	0.16	441028.94	739219.58	N 32 12 39.05	W 103 41 38.66
	4144.00	0.20	262.64	4143.85	-16.67	-16.98	-4.00	0.27	441028.90	739219.84	N 32 12 39.05	W 103 41 38.66
	4334.00	0.13	167.89	4333.85	-16.90	-17.23	-4.28	0.13	441028.65	739219.56	N 32 12 39.04	W 103 41 38.66
	4523.00	0.34	283.59	4522.84	-16.86	-17.22	-4.75	0.23	441028.67	739219.09	N 32 12 39.04	W 103 41 38.67
	4618.00	0.23	222.02	4617.84	-16.86	-17.24	-5.14	0.36	441028.64	739218.70	N 32 12 39.04	W 103 41 38.67
	4807.00	0.06	18.41	4806.84	-17.03	-17.43	-5.36	0.15	441028.45	739218.48	N 32 12 39.04	W 103 41 38.67
	4902.00	0.13	348.16	4901.84	-16.88	-17.28	-5.37	0.09	441028.60	739218.47	N 32 12 39.04	W 103 41 38.67
	4996.00	0.13	296.37	4995.84	-16.72	-17.13	-5.48	0.12	441028.75	739218.36	N 32 12 39.05	W 103 41 38.67
	5186.00	0.13	3.57	5185.84	-16.40	-16.82	-5.66	0.08	441029.06	739218.16	N 32 12 39.05	W 103 41 38.68
	5280.00	0.13	255.13	5279.84	-16.31	-16.74	-5.76	0.22	441029.14	739218.08	N 32 12 39.05	W 103 41 38.68
	5470.00	0.13	167.48	5469.84	-16.57	-17.00	-5.92	0.09	441028.88	739217.92	N 32 12 39.05	W 103 41 38.68
	5564.00	0.08	317.75	5563.84	-16.62	-17.08	-6.33	0.47	441028.82	739217.90	N 32 12 39.04	W 103 41 38.68
	5659.00	0.46	244.30	5658.84	-16.71	-17.18	-6.33	0.47	441028.71	739217.51	N 32 12 39.04	W 103 41 38.70
	5754.00	0.95	244.06	5753.83	-17.15	-17.69	-7.38	0.52	441028.20	739216.46	N 32 12 39.04	W 103 41 38.72
	5848.00	1.68	250.78	5847.81	-17.60	-18.47	-9.37	0.77	441027.41	739214.47	N 32 12 39.03	W 103 41 38.76
	5943.00	2.30	247.53	5942.74	-18.63	-19.72	-12.58	0.89	441026.16	739211.26	N 32 12 39.02	W 103 41 38.80
	6038.00	3.20	248.92	6037.83	-20.27	-21.47	-16.97	0.74	441024.42	739208.87	N 32 12 39.00	W 103 41 38.81
	6133.00	3.62	247.41	6132.46	-22.02	-23.57	-22.21	0.45	441022.31	739201.63	N 32 12 38.98	W 103 41 38.87
	6227.00	3.95	249.57	6226.25	-23.90	-25.84	-27.99	0.38	441020.04	739195.85	N 32 12 38.96	W 103 41 38.94
	6322.00	4.26	248.23	6321.01	-25.91	-28.29	-34.33	0.34	441017.59	739189.51	N 32 12 38.94	W 103 41 37.01
	6418.00	4.83	247.70	6414.73	-28.19	-31.03	-41.08	0.40	441014.85	739182.78	N 32 12 38.91	W 103 41 37.09
	6511.00	5.32	248.59	6509.37	-30.73	-34.09	-48.73	0.73	441011.79	739175.11	N 32 12 38.88	W 103 41 37.18
	6606.00	6.01	250.40	6603.90	-33.40	-37.36	-57.52	0.75	441008.52	739166.33	N 32 12 38.85	W 103 41 37.28
	6700.00	6.40	248.35	6697.35	-38.34	-40.95	-67.02	0.48	441004.93	739156.82	N 32 12 38.81	W 103 41 37.39
	6795.00	7.31	247.81	6791.67	-39.88	-45.29	-77.53	0.96	441000.68	739146.31	N 32 12 38.77	W 103 41 37.52
	6890.00	8.04	246.85	6885.82	-43.99	-50.12	-89.23	0.78	440995.76	739134.82	N 32 12 38.72	W 103 41 37.65
	6985.00	9.01	245.40	6979.77	-48.82	-55.83	-102.10	1.05	440990.06	739121.74	N 32 12 38.67	W 103 41 37.80
	7079.00	8.98	243.20	7072.81	-54.28	-62.20	-115.34	0.37	440983.58	739108.50	N 32 12 38.61	W 103 41 37.96
	7174.00	9.88	242.86	7168.33	-60.38	-69.24	-129.22	0.95	440976.64	739094.83	N 32 12 38.54	W 103 41 38.12
	7269.00	10.95	248.30	7259.77	-66.35	-76.28	-144.87	1.51	440969.60	739078.98	N 32 12 38.47	W 103 41 38.30
	7363.00	11.89	242.30	7351.91	-73.00	-84.08	-161.74	1.61	440961.80	739062.11	N 32 12 38.39	W 103 41 38.50
	7458.00	11.98	241.68	7444.85	-81.00	-93.28	-179.10	0.13	440952.80	739044.75	N 32 12 38.30	W 103 41 38.70
	7553.00	12.18	249.73	7537.76	-87.88	-101.40	-197.19	1.74	440944.48	739026.66	N 32 12 38.22	W 103 41 38.91
	7647.00	11.50	248.70	7629.78	-93.49	-108.24	-215.23	0.76	440937.84	739008.82	N 32 12 38.16	W 103 41 39.12
	7742.00	11.60	244.78	7722.83	-99.81	-115.75	-232.69	0.83	440930.13	738991.16	N 32 12 38.08	W 103 41 39.33
	7837.00	11.92	242.47	7815.84	-107.22	-124.38	-250.03	0.80	440921.53	738973.82	N 32 12 38.00	W 103 41 39.53
	7931.00	11.68	242.37	7907.85	-114.95	-133.26	-267.07	0.28	440912.83	738956.78	N 32 12 37.91	W 103 41 39.73
	8026.00	11.88	243.27	8000.85	-122.63	-142.11	-284.32	0.29	440903.77	738939.53	N 32 12 37.82	W 103 41 39.93
	8121.00	11.45	242.92	8093.89	-130.15	-150.80	-301.45	0				

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ° '")	Longitude (E/W ° ° '")
	8733.00	19.55	298.55	8692.93	148.26	-176.87	-418.62	13.85	440859.02	738605.24	N 32 12 37.49 W 103 41 41.49	
	8828.00	28.12	311.89	8779.81	-123.64	-154.27	-449.32	10.81	440891.62	738774.54	N 32 12 37.71 W 103 41 41.85	
	8923.00	35.49	321.55	8860.54	-84.82	-117.85	-483.21	9.41	440926.24	738740.66	N 32 12 38.08 W 103 41 42.24	
	9017.00	40.29	334.58	8934.82	-33.98	-88.72	-513.29	9.90	440977.16	738710.58	N 32 12 38.56 W 103 41 42.59	
	9112.00	46.03	342.91	9004.15	-27.97	-8.20	-536.56	8.50	441037.68	738687.31	N 32 12 39.16 W 103 41 42.85	
	9207.00	52.13	344.63	9066.35	98.07	60.70	-556.56	8.56	441106.57	738667.31	N 32 12 39.85 W 103 41 43.08	
	9302.00	60.47	345.23	9119.01	175.53	138.95	-577.07	8.79	441182.82	738646.80	N 32 12 40.60 W 103 41 43.32	
	9396.00	70.01	345.10	9158.24	259.23	219.37	-595.91	10.15	441265.24	738624.96	N 32 12 41.42 W 103 41 43.56	
	9490.00	80.74	347.39	9182.04	348.70	337.59	-620.46	11.65	441353.45	738603.41	N 32 12 42.29 W 103 41 43.81	
	9583.00	88.42	354.16	9191.01	442.74	400.82	-639.56	10.75	441446.68	738588.31	N 32 12 43.22 W 103 41 43.98	
	9672.00	88.52	354.17	9192.00	479.71	437.82	-639.52	0.27	441463.48	738584.55	N 32 12 43.58 W 103 41 44.02	
	9733.00	88.56	354.34	9194.63	590.81	548.02	-650.43	0.16	441593.88	738573.44	N 32 12 44.58 W 103 41 44.14	
	9827.00	88.69	355.05	9187.09	684.55	641.59	-659.12	0.77	441687.44	738564.75	N 32 12 45.80 W 103 41 44.24	
	9922.00	89.02	357.44	9188.49	779.54	736.37	-665.34	2.70	441782.22	738558.53	N 32 12 46.54 W 103 41 44.34	
	10016.00	89.38	358.13	9189.31	873.49	830.20	-668.97	0.78	441876.14	738554.90	N 32 12 47.47 W 103 41 44.34	
	10111.00	90.07	359.68	9189.76	968.44	925.24	-672.19	0.74	441971.08	738551.69	N 32 12 48.41 W 103 41 44.37	
	10204.00	90.38	359.88	9189.40	1061.32	1018.22	-673.91	2.08	442064.05	738549.96	N 32 12 49.33 W 103 41 44.38	
	10298.00	89.93	0.64	9189.14	1155.08	1112.22	-674.49	0.94	442158.04	738550.38	N 32 12 50.26 W 103 41 44.37	
	10391.00	89.86	358.61	9189.31	1247.90	1205.21	-674.10	2.18	442251.03	738549.78	N 32 12 51.18 W 103 41 44.37	
	10484.00	91.86	2.58	9187.92	1340.58	1298.17	-673.13	4.78	442343.98	738550.74	N 32 12 52.10 W 103 41 44.35	
	10578.00	90.07	3.08	9186.24	1433.93	1392.04	-668.19	1.98	442437.85	738555.38	N 32 12 53.03 W 103 41 44.29	
	10671.00	90.21	3.46	9186.11	1528.21	1484.89	-663.49	0.44	442530.70	738560.68	N 32 12 53.95 W 103 41 44.23	
	10765.00	90.07	3.50	9186.88	1619.42	1578.71	-667.18	0.15	442624.52	738566.39	N 32 12 54.87 W 103 41 44.15	
	10858.00	90.83	3.70	9185.15	1711.84	1671.53	-665.64	0.85	442717.23	738578.35	N 32 12 55.79 W 103 41 44.08	
	10952.00	91.10	3.77	9183.58	1804.80	1765.31	-664.52	0.30	442811.11	738584.74	N 32 12 56.72 W 103 41 44.00	
	11049.00	91.69	3.78	9181.20	1900.91	1862.07	-663.14	0.61	442907.86	738590.48	N 32 12 57.65 W 103 41 43.92	
	11143.00	91.20	3.23	9183.83	1994.18	1955.87	-663.39	0.78	443001.65	738596.77	N 32 12 58.60 W 103 41 43.85	
	11230.00	91.65	3.08	9184.18	2179.65	2142.53	-663.10	0.25	443188.30	738602.77	N 32 12 59.57 W 103 41 43.71	
	11323.00	91.34	359.26	9181.78	2272.24	2235.48	-661.20	2.12	443281.23	738602.67	N 32 13 0.37 W 103 41 43.69	
	11417.00	91.38	1.22	9179.52	2365.97	2329.43	-660.81	2.08	443375.19	738603.06	N 32 13 0.37 W 103 41 43.68	
	11510.00	91.31	359.32	9177.34	2458.70	2422.39	-660.37	2.04	443468.16	738603.50	N 32 13 0.37 W 103 41 43.68	
	11604.00	91.27	359.55	9175.22	2552.52	2516.37	-660.30	0.25	443562.13	738602.57	N 32 13 0.37 W 103 41 43.67	
	11698.00	91.10	359.29	9171.38	2738.17	2702.32	-662.18	0.17	443748.07	738600.69	N 32 13 0.37 W 103 41 43.68	
	11793.00	91.05	359.46	9169.10	2832.99	2797.28	-662.44	0.81	443843.03	738599.65	N 32 13 0.37 W 103 41 43.68	
	12078.00	91.03	359.36	9166.90	2928.81	2891.25	-662.19	0.87	443936.97	738598.68	N 32 13 0.37 W 103 41 43.69	
	12174.00	90.21	359.14	9165.87	3021.67	2986.24	-662.43	0.89	444031.99	738597.44	N 32 13 0.37 W 103 41 43.69	
	12269.00	89.55	359.74	9166.07	3116.51	3081.23	-662.26	0.94	444126.95	738596.51	N 32 13 0.37 W 103 41 43.70	
	12363.00	89.35	359.43	9166.97	3210.33	3175.22	-662.04	0.39	444220.95	738595.83	N 32 13 0.37 W 103 41 43.70	
	12448.00	89.66	359.12	9167.56	3295.20	3260.22	-662.11	0.70	444325.94	738594.76	N 32 13 0.37 W 103 41 43.71	
	12553.00	89.59	359.14	9168.06	3400.06	3365.20	-660.71	0.26	444410.92	738593.16	N 32 13 0.37 W 103 41 43.72	
	12647.00	89.76	358.85	9168.60	3493.94	3459.19	-662.36	0.36	444504.90	738591.51	N 32 13 0.37 W 103 41 43.73	
	12742.00	89.38	359.45	9169.31	3588.80	3554.17	-663.77	0.75	444599.88	738590.10	N 32 13 0.37 W 103 41 43.74	
	12831.00	90.10	359.21	9170.17	3777.51	3743.16	-663.98	0.40	444788.86	738587.89	N 32 13 0.37 W 103 41 43.75	
	13026.00	90.38	359.14	9169.77	3872.37	3838.15	-663.34	0.30	444883.84	738586.53	N 32 13 0.37 W 103 41 43.76	
	13121.00	91.07	359.03	9168.57	3967.24	3933.13	-663.86	0.74	444978.82	738585.01	N 32 13 0.37 W 103 41 43.77	
	13309.00	90.65	357.54	9165.75	4155.08	4121.01	-664.49	0.82	445166.70	738579.38	N 32 13 0.37 W 103 41 43.83	
	13404.00	89.72	355.85	9165.44	4250.07	4215.85	-664.96	2.03	445261.53	738573.91	N 32 13 0.37 W 103 41 43.88	
	13499.00	91.00	356.70	9164.84	4345.06	4310.85	-665.13	1.62	445356.32	738567.74	N 32 13 0.37 W 103 41 43.95	
	13687.00	90.58	356.63	9162.25	4533.04	4498.30	-667.23	0.24	445451.98	738556.64	N 32 13 0.37 W 103 41 44.06	
	13782.00	90.82	358.12	9161.25	4628.01	4593.19	-671.67	1.67	445548.85	738552.21	N 32 13 0.37 W 103 41 44.11	
	13876.00	90.83	358.36	9160.07	4721.94	4687.14	-674.55	0.34	445732.79	738549.32	N 32 13 0.37 W 103 41 44.14	
	13970.00	90.69	357.74	9158.82	4815.88	4781.07	-677.75	0.68	445826.72	738546.12	N 32 13 0.37 W 103 41 44.17	
	14064.00	91.27	357.99	9157.21	4909.82	4874.99	-681.25	0.67	445920.64	738542.62	N 32 13 0.37 W 103 41 44.20	
	14253.00	90.69	358.88	9153.98	5098.64	5063.89	-686.45	0.55	446109.53	738537.43	N 32 13 0.37 W 103 41 44.25	
	14348.00	89.35	359.22	9153.95	5193.52	5158.88	-688.04	1.46	446204.51	738535.83	N 32 13 0.37 W 103 41 44.28	
	14442.00	90.28	359.80	9154.25	5287.35	5252.87	-688.84	1.17	446298.50	738535.03	N 32 13 0.37 W 103 41 44.28	
	14537.00	89.59	0.36	9154.36	5382.12	5347.87	-688.71	0.94	446393.49	738535.16	N 32 13 0.37 W 103 41 44.26	
	14728.00	90.24	358.51	9154.64	5570.80	5536.85	-690.57	1.04	446582.46	738533.30	N 32 13 0.37 W 103 41 44.26	
	14820.00	90.79	359.14	9154.81	5664.70	5630.83	-692.50	0.82	446676.44	738531.37	N 32 13 0.37 W 103 41 44.28	
	14914.00	93.30	0.35	9152.08	5758.46	5724.78	-692.92	3.95	446770.38	738530.95	N 32 13 0.37 W 103 41 44.28	
	15009.00	91.34	0.19	9148.23	5853.13	5819.69	-692.47	2.07	446865.30	738531.40	N 32 13 0.37 W 103 41 44.27	
	15201.00	90.34	1.25	9145.42	6044.49	6011.65	-690.06	0.76	447057.24	738531.81	N 32 13 0.37 W 103 41 44.23	
	15390.00	90.45	1.79	9144.11	6232.85	6200.58	-689.05	0.29	447246.16	738538.83	N 32 13 0.37 W 103 41 44.19	
	15579.00	90.48	0.54	9142.58	6420.91	6389.53	-681.20	0.66	447435.11	738542.67	N 32 13 0.37 W 103 41 44.10	
	15768.00	90.21	359.61	9141.44	6609.46	6578.53	-680.96	0.51	447624.09	738542.82	N 32 13 0.37 W 103 41 44.08	
	15862.00	90.69	359.68	9140.70	6703.28	6672.52	-681.54	0.52	447718.08	738542.33	N 32 13 0.37 W 103 41 44.08	
	16051.00	90.31	358.74	9139.08	6892.00	6861.49	-684.15	0.54	447907.04	738539.73	N 32 13 0.37 W 103 41 44.10	
	16239.00	90.38	1.38	9137.92	7079.54	7049.47	-683.98	1.39	448095.02	738539.89	N 32 13 0.37 W 103 41 44.08	
	16334.00	90.52	359.90	9137.18	7174.25	7144.46	-682.94	1.94	448190.00	738540.94	N 32 13 0.37 W 103 41 44.06	
	16523.00	90.31	359.44	9135.81	7362.88	7333.45	-684.03	0.27	448378.98	738539.85	N 32 13 0.37 W 103 41 44.06	
	16618.00	90.10	359.40	9135.47	7457.72	7428.45	-684.99	0.23	448473.97	738538.89	N 32 13 0.37 W 103 41 44.07	
	16813.00	90.41	359.60	9135.05	7552.56	7523.44	-685.82	0.39	448568.96	738538.06	N 32 13 0.37 W 103 41 44.07	
	16907.00	90.31	359.61	9134.45	7646.39	7617.44	-686.46	0.11	448662.95	738537.41	N 32 13 0.37 W 103 41 44.07	
	16902.00	92.48	0.07	9132.14	7741.15	7712.41	-688.73	2.33	448757.92	738537.14	N 32 13 0.37 W 103 41 44.07	
	17091.00	84.56	358.58	9137.02	7929.64	7901.17	-689.96	4.27	448946.67	738534.89	N 32 13 0.37 W 103 41 44.08	
	17185.00	84.24	358.62	9146.19	8023.11	7994.70	-691.28	0.35	449040.19	738532.59	N 32 13 0.37 W 103 41 44.10	
	17280.00	88.14										

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (1/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey				
	1	0 000	26 500	1/98 425	30 000	30 000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Mesa Verde BS Unit 3H Gyro+MWD 0-19,320'				
	1	26 500	26 500	Act Strs	30 000	30 000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Mesa Verde BS Unit 3H Gyro+MWD 0-19,320'				
	1	26 500	909 500	Act Strs	30 000	30 000	NAL_NSG+MSHOT	Original Borehole / Oxy Mesa Verde BS Unit 3H Gyro+MWD 0-				
	1	909 500	19320 000	Act Strs	30 000	30 000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Mesa Verde BS Unit 3H Gyro+MWD 0-				

...Oxy Mesa Verde BS Unit 3H\Original Borehole\Oxy Mesa Verde BS Unit 3H Gyro+MWD 0-19,320'

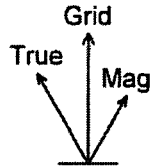
Schlumberger

OXY

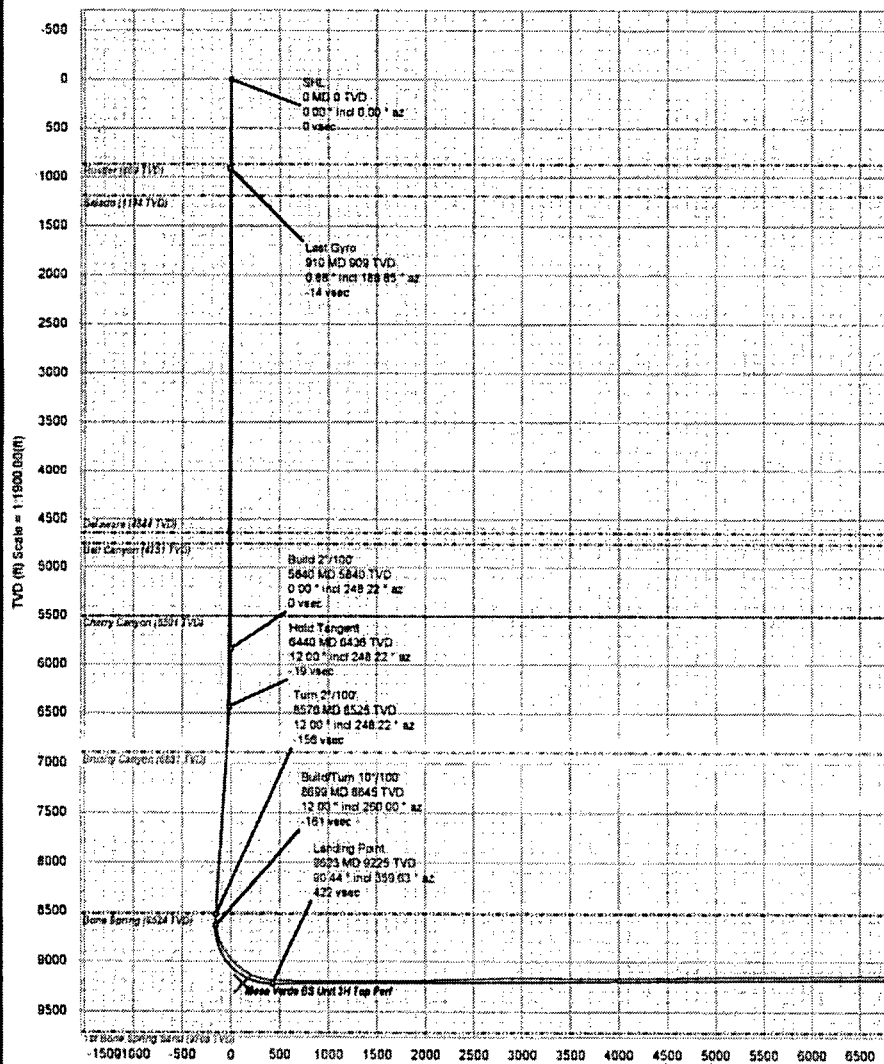
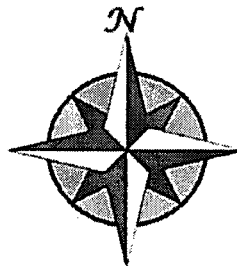


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Mesa Verde BS Unit 3H	NM Lea County (NAD 83)	Oxy Mesa Verde BS Unit 3H

Gravity & Magnetic Parameters	Surface Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Miscellaneous
Model: HDGM 2018 Dip: 58.82° Date: 08-Jun-2018	Lat: N 31 12 39.21	Northing: 441048.88M25 Grid Conv: 0.3411"	Unit: Oxy Mesa Verde BS Unit 3H
MagDec: 6.811° PS: 47994.106m7 Gravity FB: 998.432mg (8.82485 Based)	Lon: W 105 41 28.81	Easting: 729223.647U5 Scale Fact: 0.99993294	Plan: Oxy Mesa Verde BS Unit 3H Rev0 APS 30Mar18



Grid North
Tot Corr (M->G 6.470°)
Mag Dec (6.811°)
Grid Conv (0.341°)



Vertical Section (ft) Azim = 356.14° Scale = 1:1900.00(ft) Origin = GN-S, DE-W

