

Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840' Survey Geodetic Report (Def Survey)



Report Date: May 28, 2019 - 12:18 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Height CC 6-7 Federal Com 35H / Oxy Height CC 6-7 Federal Com 35H
Well: Oxy Height CC 6-7 Fed Com 35H
Borehole: Original Borehole
UWI / API#: H&P639 / 30-015-45563
Survey Name: Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'
Survey Date: March 26, 2019
Tort / AHD / DDI / ERD Ratio: 256.493' / 10663.310 ft / 6.760' / 1.088
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 15' 14.49705", W 104° 1' 6.97644"
Location Grid N/E Y/X: N 456290.890 ftUS, E 638629.930 ftUS
CRS Grid Convergence Angle: 0.1680°
Grid Scale Factor: 0.99991993
Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 181.593° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 2982.600 ft above MSL
Seabed / Ground Elevation: 2956.100 ft above MSL
Magnetic Declination: 7.021°
Total Gravity Field Strength: 998.4714 mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47923.300 nT
Magnetic Dip Angle: 60.019°
Declination Date: May 09, 2019
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.1680°
Total Corr Mag North->Grid: 6.8530°
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 ° ° '")
WRP	0.00	0.00	260.00	0.00	0.00	0.00	0.00	N/A	456290.89	638629.93	N 32 15 14.50 W 104	1 6.98
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	456290.89	638629.93	N 32 15 14.50 W 104	1 6.98
	99.50	0.57	346.29	99.50	-0.35	0.35	-0.09	0.78	456291.24	638629.84	N 32 15 14.50 W 104	1 6.98
	134.50	0.62	350.32	134.50	-0.70	0.71	-0.16	0.19	456291.60	638629.77	N 32 15 14.50 W 104	1 6.98
	189.50	0.65	1.83	189.49	-1.31	1.31	-0.20	0.24	456292.20	638629.73	N 32 15 14.51 W 104	1 6.98
	246.50	0.75	19.18	246.49	-1.99	1.99	-0.07	0.41	456292.88	638629.86	N 32 15 14.52 W 104	1 6.98
	310.50	1.18	22.52	310.48	-3.00	2.99	0.32	0.68	456293.88	638630.25	N 32 15 14.53 W 104	1 6.97
	373.50	1.34	20.03	373.46	-4.31	4.28	0.82	0.27	456295.17	638630.75	N 32 15 14.54 W 104	1 6.97
Last Gyro	417.50	1.20	26.46	417.45	-5.21	5.18	1.21	0.45	456296.07	638631.14	N 32 15 14.55 W 104	1 6.96
	562.00	1.06	39.27	561.93	-7.64	7.57	2.73	0.20	456298.46	638632.66	N 32 15 14.57 W 104	1 6.94
	623.00	1.09	40.08	622.92	-8.54	8.45	3.46	0.06	456299.34	638633.39	N 32 15 14.58 W 104	1 6.94
	684.00	1.07	40.31	683.90	-9.44	9.33	4.20	0.03	456300.22	638634.13	N 32 15 14.59 W 104	1 6.93
	744.00	0.14	75.60	743.90	-9.90	9.77	4.63	1.60	456300.66	638634.56	N 32 15 14.59 W 104	1 6.92
	804.00	0.11	176.48	803.90	-9.86	9.74	4.71	0.32	456300.62	638634.64	N 32 15 14.59 W 104	1 6.92
	895.00	0.15	23.01	894.90	-9.89	9.76	4.76	0.28	456300.65	638634.69	N 32 15 14.59 W 104	1 6.92
	987.00	0.34	338.90	986.90	-10.25	10.12	4.71	0.28	456301.01	638634.64	N 32 15 14.60 W 104	1 6.92
	1078.00	0.35	317.27	1077.90	-10.70	10.58	4.42	0.14	456301.47	638634.35	N 32 15 14.60 W 104	1 6.92
	1170.00	0.21	11.89	1169.90	-11.07	10.95	4.27	0.31	456301.84	638634.20	N 32 15 14.61 W 104	1 6.93
	1261.00	0.38	333.02	1260.90	-11.49	11.38	4.16	0.28	456302.27	638634.09	N 32 15 14.61 W 104	1 6.93
	1352.00	0.78	315.42	1351.89	-12.19	12.09	3.59	0.48	456302.98	638633.52	N 32 15 14.62 W 104	1 6.93
	1444.00	0.70	282.71	1443.88	-12.73	12.66	2.60	0.46	456303.55	638633.53	N 32 15 14.62 W 104	1 6.95
	1535.00	0.72	230.23	1534.88	-12.45	12.42	1.62	0.69	456303.31	638631.55	N 32 15 14.62 W 104	1 6.96
	1719.00	2.06	155.76	1718.83	-8.72	8.66	2.09	1.08	456299.55	638632.02	N 32 15 14.58 W 104	1 6.95
	1814.00	0.12	139.93	1813.81	-7.11	7.03	2.86	2.05	456297.92	638632.79	N 32 15 14.57 W 104	1 6.94
	1908.00	0.17	178.10	1907.81	-6.89	6.82	2.92	0.11	456297.71	638632.85	N 32 15 14.56 W 104	1 6.94
	2002.00	0.11	164.06	2001.81	-6.67	6.59	2.95	0.07	456297.48	638632.88	N 32 15 14.56 W 104	1 6.94
	2097.00	0.08	347.20	2096.81	-6.65	6.57	2.96	0.20	456297.46	638632.89	N 32 15 14.56 W 104	1 6.94
	2192.00	0.07	269.08	2191.81	-6.71	6.63	2.89	0.10	456297.52	638632.89	N 32 15 14.56 W 104	1 6.94
	2286.00	0.32	171.27	2285.81	-6.45	6.37	2.87	0.36	456297.26	638632.82	N 32 15 14.56 W 104	1 6.94
	2381.00	1.46	160.91	2380.79	-5.05	4.96	3.31	1.21	456295.85	638632.80	N 32 15 14.56 W 104	1 6.94
	2476.00	2.03	170.78	2475.75	-2.27	2.16	3.98	0.68	456295.85	638633.24	N 32 15 14.55 W 104	1 6.94
	2570.00	1.63	182.38	2569.70	0.70	-0.82	4.19	0.58	456293.05	638633.91	N 32 15 14.52 W 104	1 6.93
	2665.00	0.10	239.92	2664.69	2.10	-2.21	4.06	1.66	456290.07	638634.12	N 32 15 14.49 W 104	1 6.93
	2759.00	0.12	223.51	2758.69	2.21	-2.32	3.92	0.04	456288.68	638633.99	N 32 15 14.48 W 104	1 6.93
	2854.00	0.11	141.51	2853.69	2.36	-2.47	3.91	0.16	456288.57	638633.85	N 32 15 14.47 W 104	1 6.93
	2949.00	0.11	170.61	2948.69	2.52	-2.63	3.98	0.06	456288.42	638633.84	N 32 15 14.47 W 104	1 6.93
	3043.00	0.11	359.26	3042.69	2.52	-2.63	3.99	0.23	456288.26	638633.91	N 32 15 14.47 W 104	1 6.93
	3137.00	0.11	237.78	3136.69	2.48	-2.59	3.92	0.20	456288.26	638633.92	N 32 15 14.47 W 104	1 6.93
	3326.00	0.08	44.82	3325.69	2.48	-2.59	3.86	0.10	456288.30	638633.85	N 32 15 14.47 W 104	1 6.93
	3516.00	0.10	196.31	3515.69	2.54	-2.65	3.90	0.09	456288.30	638633.79	N 32 15 14.47 W 104	1 6.93
	3610.00	0.11	158.09	3609.69	2.71	-2.82	3.91	0.07	456288.24	638633.83	N 32 15 14.47 W 104	1 6.93
	3705.00	0.14	228.39	3704.69	2.87	-2.98	3.86	0.15	456288.07	638633.84	N 32 15 14.47 W 104	1 6.93
	3895.00	0.11	234.83	3894.69	3.14	-3.24	3.54	0.02	456287.91	638633.79	N 32 15 14.47 W 104	1 6.93
	3989.00	0.12	260.50	3988.69	3.21	-3.31	3.37	0.06	456287.65	638633.47	N 32 15 14.46 W 104	1 6.94
	4178.00	0.10	196.98	4177.69	3.41	-3.50	3.12	0.06	456287.59	638633.30	N 32 15 14.46 W 104	1 6.94
	4367.00	0.11	42.51	4366.69	3.43	-3.52	3.20	0.11	456287.39	638633.05	N 32 15 14.45 W 104	1 6.94
	4556.00	0.11	146.89	4555.69	3.44	-3.54	3.42	0.09	456287.37	638633.13	N 32 15 14.46 W 104	1 6.94
	4651.00	0.10	215.49	4650.69	3.59	-3.68	3.42	0.12	456287.06	638633.35	N 32 15 14.46 W 104	1 6.94
4745.00	0.11	222.97	4744.69	3.72	-3.81	3.31	0.02	456287.21	638633.35	N 32 15 14.46 W 104	1 6.94	
4840.00	0.11	264.87	4839.69	3.80	-3.89	3.16	0.08	456287.08	638633.24	N 32 15 14.46 W 104	1 6.94	
5029.00	0.11	36.17	5028.69	3.67	-3.76	3.09	0.11	456287.00	638633.09	N 32 15 14.46 W 104	1 6.94	
5218.00	0.11	251.78	5217.69	3.58	-3.67	3.02	0.11	456287.06	638633.02	N 32 15 14.46 W 104	1 6.94	
5312.00	0.11	49.30	5311.69	3.55	-3.64	3.00	0.23	456287.22	638632.95	N 32 15 14.46 W 104	1 6.94	
5407.00	0.11	125.54	5406.69	3.54	-3.63	3.15	0.14	456287.05	638632.93	N 32 15 14.46 W 104	1 6.94	
5596.00	0.11	309.29	5595.69	3.53	-3.62	3.15	0.12	456287.26	638633.08	N 32 15 14.46 W 104	1 6.94	
5691.00	0.11	132.62	5690.68	3.54	-3.63	3.15	0.23	456287.06	638633.08	N 32 15 14.46 W 104	1 6.94	
5880.00	0.11	214.21	5879.68	3.81	-3.90	3.18	0.08	456287.27	638633.08	N 32 15 14.46 W 104	1 6.94	
5974.00	0.11	108.80	5973.68	3.91	-4.00	3.22	0.19	456286.99	638633.11	N 32 15 14.46 W 104	1 6.94	
6069.00	0.11	33.64	6068.68	3.86	-3.96	3.35	0.14	456286.89	638633.28	N 32 15 14.46 W 104	1 6.94	
6164.00	0.11	10.42	6163.68	3.69	-3.79	3.42	0.05	456286.99	638633.28	N 32 15 14.46 W 104	1 6.94	
6258.00	0.12	214.98	6257.68	3.69	-3.78	3.38	0.24	456287.10	638633.35	N 32 15 14.46 W 104	1 6.94	
6353.00	0.11	191.68	6352.68	3.86	-3.95	3.30	0.05	456287.11	638633.23	N 32 15 14.46 W 104	1 6.94	
6442.00	0.12	330.47	6441.68	3.87	-3.96	3.17	0.11	456286.94	638633.10	N 32 15 14.46 W 104	1 6.94	
6537.00	0.11	23.50	6536.68	3.70	-3.79	3.16	0.11	456286.93	638633.09	N 32 15 14.46 W 104	1 6.94	
6632.00	0.12	165.78	6631.68	3.71	-3.80	3.22	0.23	456287.09	638633.15	N 32 15 14.46 W 104	1 6.94	
6726.00	0.12	47.21	6725.68	3.74	-3.83	3.31	0.22	456287.06	638633.24	N 32 15 14.46 W 104	1 6.94	
7015.00	0.11	218.36	7014.68	3.74	-3.84	3.35	0.12	456287.05	638633.32	N 32 15 14.46 W 104	1 6.94	
7110.00	0.18	90.84	7109.68	3.81	-3.91	3.44	0.28	456287.06	638633.28	N 32 15 14.46 W 104	1 6.94	
7204.00	0.04	66.71	7203.68	3.80	-3.90	3.62	0.15	456286.98	638633.37	N 32 15 14.46 W 104	1 6.94	
7298.00	0.19	193.34	7297.68	3.94	-4.04	3.61	0.23	456286.99	638633.54	N 32 15 14.46 W 104	1 6.93	
7393.00	1.31	277.40	7392.67	3.98	-4.05	2.50	1.37	456286.85	638633.55	N 32 15 14.46 W 104	1 6.93	
7488.00	2.42	269.43	7487.62	3.95	-3.93	-0.58	1.20	456286.96	638632.43	N 32 15 14.46 W 104	1 6.95	
7582.00	3.93	275.67	7581.48	3.79	-3.63	-5.77	1.65	456286.96	638629.35	N 32 15 14.46 W 104	1 6.98	
7676.00	5.47	289.61	7675.16	2.18	-1.81	-13.20	2.03	456287.26	638624.16	N 32 15 14.46 W 104	1 7.04	
7771.00	6.90	293.64	7769.61	-1.36	2.00	-22.69	1.57	456289.08	638616.73	N 32 15 14.48 W 104	1 7.13	
7865.00	7.07	293.50	7862.91	-5.64	6.57	-33.17	0.18	456292.89	638607.24	N 32 15 14.52 W 104	1 7.24	
7960.00	7.48	292.33	7957.14	-10.01	11.25	-44.25	0.46	456292.46	638596.76	N 32 15 14.56 W 104	1 7.36	
8054.0												

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 ° ' ")
	8149.00	7.47	294.57	8144.93	-18.45	20.35	-68.21	1.12	456311.24	638561.72	N 32 15 14.70 W 104	1 7.77
	8243.00	7.87	291.25	8237.55	-23.00	25.23	-79.77	0.63	456316.11	638550.17	N 32 15 14.75 W 104	1 7.90
	8338.00	8.73	288.38	8331.56	-27.27	29.86	-92.67	1.00	456320.74	638537.27	N 32 15 14.80 W 104	1 8.05
	8432.00	9.39	286.71	8424.38	-31.33	34.31	-106.79	0.76	456325.20	638523.15	N 32 15 14.84 W 104	1 8.22
	8526.00	10.47	285.86	8516.98	-35.43	38.85	-122.35	1.16	456329.74	638507.59	N 32 15 14.89 W 104	1 8.40
	8621.00	10.05	280.28	8610.46	-38.81	42.69	-138.81	1.14	456333.58	638491.14	N 32 15 14.92 W 104	1 8.59
	8810.00	9.95	277.75	8796.59	-43.06	47.83	-171.21	0.24	456338.72	638458.73	N 32 15 14.98 W 104	1 8.97
	8905.00	9.96	280.05	8890.16	-45.14	50.37	-203.56	0.42	456341.26	638442.51	N 32 15 15.00 W 104	1 9.16
	8999.00	9.98	274.31	8982.74	-46.73	52.40	-209.56	1.06	456343.29	638426.39	N 32 15 15.02 W 104	1 9.35
	9031.00	9.87	271.83	9014.26	-46.87	52.70	-209.07	1.38	456343.59	638420.88	N 32 15 15.02 W 104	1 9.41
	9096.00	11.39	262.14	9078.15	-45.84	52.00	-220.99	3.60	456342.89	638408.95	N 32 15 15.02 W 104	1 9.55
	9190.00	21.34	230.98	9168.39	-33.13	39.91	-243.57	13.77	456330.80	638386.38	N 32 15 14.90 W 104	1 9.81
	9285.00	24.28	215.53	9256.03	-5.64	13.10	-263.38	7.00	456303.99	638361.57	N 32 15 14.83 W 104	1 10.10
	9379.00	24.68	190.18	9341.81	29.90	-22.04	-283.12	11.11	456268.65	638346.83	N 32 15 14.29 W 104	1 10.27
100' FNL Crossing	9403.00	26.74	189.33	9363.44	40.20	-32.30	-284.88	8.72	456258.59	638345.07	N 32 15 14.19 W 104	1 10.29
	9474.00	32.86	187.41	9425.02	75.23	-67.19	-289.96	8.72	456223.70	638339.99	N 32 15 13.84 W 104	1 10.36
	9568.00	40.30	182.86	9500.46	131.08	-122.93	-294.78	8.42	456167.97	638335.18	N 32 15 13.29 W 104	1 10.41
	9663.00	41.34	182.24	9572.36	193.17	-184.97	-297.54	1.17	456105.93	638332.42	N 32 15 12.68 W 104	1 10.45
	9758.00	55.33	183.17	9635.35	263.95	-255.68	-300.94	14.74	456035.23	638329.02	N 32 15 11.98 W 104	1 10.49
	9853.00	64.79	186.70	9682.73	346.01	-337.57	-308.13	10.46	455953.34	638321.82	N 32 15 11.17 W 104	1 10.58
	9947.00	71.35	190.07	9717.82	432.53	-423.77	-320.90	7.73	455867.16	638309.06	N 32 15 10.31 W 104	1 10.73
Wolfcamp Intersection	9953.89	71.76	189.54	9720.00	438.99	-430.21	-322.01	9.37	455860.72	638307.95	N 32 15 10.25 W 104	1 10.74
	10041.00	77.01	183.05	9743.47	522.53	-513.52	-331.14	9.37	455777.41	638298.82	N 32 15 9.43 W 104	1 10.85
	10136.00	85.95	176.53	9757.54	616.29	-607.33	-330.73	11.60	455683.61	638299.22	N 32 15 8.50 W 104	1 10.85
	10230.00	94.35	176.18	9757.30	709.81	-701.05	-324.76	8.94	455589.90	638305.19	N 32 15 7.57 W 104	1 10.78
	10284.00	94.24	176.19	9753.25	763.42	-754.78	-321.18	0.20	455536.17	638308.78	N 32 15 7.04 W 104	1 10.74
	10377.00	92.96	180.36	9747.41	856.06	-847.53	-318.39	4.68	455443.43	638311.57	N 32 15 6.12 W 104	1 10.71
	10471.00	92.17	182.02	9743.20	949.96	-941.41	-320.34	1.95	455349.55	638309.62	N 32 15 5.19 W 104	1 10.74
	10564.00	91.65	184.58	9740.10	1042.86	-1034.20	-325.69	2.81	455256.77	638304.27	N 32 15 4.27 W 104	1 10.80
	10657.00	90.55	187.44	9738.32	1135.55	-1126.66	-335.42	3.29	455164.32	638294.53	N 32 15 3.36 W 104	1 10.92
	10752.00	90.69	189.59	9737.29	1229.85	-1220.60	-349.49	2.27	455070.39	638280.47	N 32 15 2.43 W 104	1 11.09
	10846.00	86.49	186.13	9739.60	1323.22	-1313.66	-362.34	5.79	454977.34	638267.62	N 32 15 1.51 W 104	1 11.24
	10941.00	87.63	183.04	9744.48	1417.95	-1408.21	-369.92	3.46	454882.79	638260.04	N 32 15 0.57 W 104	1 11.33
	11035.00	91.03	185.69	9745.57	1511.82	-1501.91	-377.07	4.59	454789.10	638252.89	N 32 14 59.65 W 104	1 11.42
Exit Target Box	11084.00	89.20	183.52	9745.47	1560.74	-1550.75	-381.01	5.78	454740.27	638248.95	N 32 14 59.16 W 104	1 11.47
	11130.00	87.49	181.49	9746.80	1606.71	-1596.68	-383.02	5.78	454694.34	638246.94	N 32 14 58.71 W 104	1 11.49
	11225.00	87.83	178.81	9750.68	1701.60	-1691.59	-383.27	2.84	454599.43	638246.69	N 32 14 57.77 W 104	1 11.50
Enter Target Box	11313.00	87.67	176.56	9754.14	1789.32	-1779.45	-379.72	2.56	454511.59	638250.24	N 32 14 56.90 W 104	1 11.46
	11319.00	87.66	176.41	9754.38	1795.29	-1785.43	-379.35	2.56	454505.60	638250.61	N 32 14 56.84 W 104	1 11.45
	11414.00	90.21	177.19	9756.15	1889.93	-1880.26	-374.05	2.81	454410.78	638255.91	N 32 14 55.90 W 104	1 11.40
	11508.00	87.56	177.09	9757.98	1983.62	-1974.12	-369.36	2.82	454316.94	638260.60	N 32 14 54.97 W 104	1 11.34
	11603.00	88.97	177.81	9760.85	2078.33	-2068.98	-365.14	1.67	454222.08	638264.82	N 32 14 54.03 W 104	1 11.30
	11697.00	88.07	175.34	9763.28	2171.93	-2162.77	-359.52	2.80	454128.30	638270.44	N 32 14 53.11 W 104	1 11.24
	11792.00	88.80	176.89	9765.87	2266.45	-2257.51	-353.09	1.80	454033.56	638276.87	N 32 14 52.17 W 104	1 11.16
	11886.00	88.90	177.69	9767.76	2360.17	-2351.39	-348.65	0.86	453939.70	638281.31	N 32 14 51.24 W 104	1 11.12
	11981.00	88.52	177.16	9769.90	2454.89	-2446.27	-344.38	0.69	453844.82	638285.58	N 32 14 50.30 W 104	1 11.07
	12075.00	91.41	178.97	9769.96	2548.70	-2540.20	-341.21	3.63	453750.90	638288.75	N 32 14 49.37 W 104	1 11.04
	12266.00	88.57	178.75	9769.99	2739.47	-2731.14	-337.41	1.49	453559.97	638292.55	N 32 14 47.48 W 104	1 11.00
	12455.00	89.36	180.88	9773.40	2928.33	-2920.10	-336.80	1.20	453371.03	638293.16	N 32 14 45.61 W 104	1 11.00
	12550.00	88.36	179.89	9775.29	3023.29	-3015.07	-337.44	1.48	453276.06	638292.52	N 32 14 44.67 W 104	1 11.01
	12644.00	88.57	180.67	9777.81	3117.23	-3109.04	-337.89	0.86	453182.11	638292.06	N 32 14 43.74 W 104	1 11.02
	12834.00	88.05	180.60	9783.42	3307.12	-3298.94	-340.00	0.28	452992.22	638289.96	N 32 14 41.86 W 104	1 11.05
	12928.00	89.29	179.98	9785.60	3401.07	-3392.91	-340.47	1.47	452898.25	638289.48	N 32 14 40.93 W 104	1 11.06
	13023.00	89.63	180.29	9786.49	3496.03	-3487.91	-340.70	0.48	452803.27	638289.26	N 32 14 39.99 W 104	1 11.06
	13112.00	90.15	179.60	9786.86	3684.95	-3676.91	-340.52	0.46	452614.28	638289.44	N 32 14 38.12 W 104	1 11.07
	13306.00	90.49	179.35	9786.33	3778.89	-3770.90	-339.66	0.45	452520.30	638290.30	N 32 14 37.19 W 104	1 11.06
	13495.00	90.08	180.06	9785.39	3967.78	-3959.90	-338.68	0.43	452331.32	638291.27	N 32 14 35.32 W 104	1 11.05
	13684.00	90.94	181.05	9783.71	4156.74	-4148.87	-340.51	1.29	452142.36	638289.44	N 32 14 33.45 W 104	1 11.08
	13873.00	91.45	179.05	9779.77	4345.67	-4337.68	-347.80	0.66	451953.57	638282.16	N 32 14 31.59 W 104	1 11.17
	13967.00	90.70	178.45	9778.00	4439.62	-4431.62	-349.29	5.29	451859.63	638280.67	N 32 14 30.66 W 104	1 11.19
	14062.00	90.56	178.98	9776.96	4534.49	-4526.59	-347.16	0.58	451764.67	638282.80	N 32 14 29.72 W 104	1 11.17
	14251.00	89.91	179.05	9776.18	4723.30	-4715.56	-343.91	0.35	451575.72	638286.05	N 32 14 27.85 W 104	1 11.14
	14345.00	89.84	178.12	9775.39	4817.21	-4809.55	-342.41	0.11	451481.74	638287.55	N 32 14 26.92 W 104	1 11.13
	14534.00	89.05	178.54	9778.22	5005.98	-4998.50	-338.55	0.52	451292.80	638291.41	N 32 14 25.05 W 104	1 11.09
	14723.00	89.91	177.86	9778.93	5194.64	-5187.39	-332.62	0.58	451103.92	638297.34	N 32 14 23.18 W 104	1 11.03
	14817.00	90.18	179.46	9778.86	5288.51	-5281.37	-330.42	0.73	451009.96	638299.54	N 32 14 22.25 W 104	1 11.00
	15007.00	89.50	179.34	9780.39	5478.37	-5471.35	-328.43	1.36	450819.99	638301.53	N 32 14 20.37 W 104	1 10.99
	15101.00	89.43	179.32	9781.27	5572.29	-5565.34	-327.33	0.08	450726.00	638302.63	N 32 14 19.44 W 104	1 10.98
	15196.00	89.80	179.41	9781.91	5667.22	-5660.33	-326.28	0.40	450631.02	638303.68	N 32 14 18.50 W 104	1 10.97
	15385.00	88.74	178.30	9784.31	5855.98	-5849.28	-322.50	0.81	450442.09	638307.46	N 32 14 16.63 W 104	1 10.93
	15574.00	90.42	181.05	9785.70	6044.84	-6038.24	-321.43	1.70	450253.14	638308.53	N 32 14 14.76 W 104	1 10.92
	15763.00	90.56	180.11	9784.08	6233.81	-6227.22	-323.34	0.50	450064.18	638306.62	N 32 14 12.89 W 104	1 10.95
	15858.00	90.70	180.89	9783.04	6328.78	-6322.21	-324.17	0.83	449969.19	638305.79	N 32 14 11.95 W 104	1 10.97
	16047.00	89.60	181.12	9782.54	6517.77	-6511.18	-327.48	0.59	449780.24	638302.47	N 32 14 10.08 W 104	1 11.01
	16141.00	90.53	180.18	9782.44	6611.75	-6605.17	-328.55	1.41	449666.26	638301.41	N 32 14 9.15 W 104	1 11.03
	16235.00	90.53	181.34	9781.57	6705.74	-6699.16	-329.80	1.23	449592.28	638300.16	N 32 14 8.22 W 104	1 11.04
	16330.00	89.60	179.87	9781.66	6800.72	-6794.15	-330.80					

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 ° ' ")
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Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	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 Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'
	1	26.500	417.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'
	1	417.500	7015.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'
	1	7015.000	19840.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'

...Oxy Height CC 6-7 Fed Com 35H\Original Borehole\Oxy Height CC 6-7 Federal Com 35H Gyro+ MWD 0-19840'