

Oxy Cedar Canyon 23-24 Federal 31H MWD 0-17742 ftMD Survey Geodetic Report (Def Survey)



Report Date: August 07, 2017 - 10:18 AM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Cedar Canyon 23-24 Federal 31H / Oxy Cedar Canyon 23-24 Federal 31H
 Well: Oxy Cedar Canyon 23-24 Federal 31H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Oxy Cedar Canyon 23-24 Federal 31H MWD 0-17742 ftMD
 Survey Date: July 13, 2017
 Tort / AHD / DDI / ERD Ratio: 197.888 " / 8116.270 ft / 6.448 / 0.799
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 12' 31.98222", W 103° 57' 51.56258"
 Location Grid N/E Y/X: N 439921.990 NUS, E 655466.570 NUS
 CRS Grid Convergence Angle: 0.1967°
 Grid Scale Factor: 0.99992401
 Version / Patch: 2.10.544.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 88.985° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=28.5'
 TVD Reference Elevation: 2969.700 ft above MSL
 Seabed / Ground Elevation: 2943.200 ft above MSL
 Magnetic Declination: 7.125°
 Total Gravity Field Strength: 998.4685mgm (9.80685 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48104.403 nT
 Magnetic Dip Angle: 60.015°
 Declination Date: July 28, 2017
 Magnetic Declination Model: HDGM 2017
 North Reference: Grid North
 Grid Convergence Used: 0.1967°
 Total Corr Mag North->Grid North: 6.9282°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	439921.99	655466.57	N 32 12 31.98	W 103 57 51.56
RKB	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	439921.98	655466.57	N 32 12 31.88	W 103 57 51.56
	505.00	0.75	128.30	504.99	2.46	-1.97	2.49	0.15	439920.02	655469.06	N 32 12 31.96	W 103 57 51.53
	595.00	0.18	138.27	594.98	3.01	-2.44	3.05	0.65	439919.55	655469.62	N 32 12 31.96	W 103 57 51.53
	686.00	0.13	203.65	685.98	3.06	-2.64	3.11	0.19	439919.35	655469.68	N 32 12 31.96	W 103 57 51.53
	775.00	0.13	254.70	774.98	2.92	-2.76	2.97	0.13	439919.23	655469.54	N 32 12 31.95	W 103 57 51.53
	864.00	0.11	13.69	863.98	2.84	-2.71	2.89	0.23	439919.28	655469.46	N 32 12 31.96	W 103 57 51.53
	1046.00	0.08	74.99	1045.98	3.01	-2.50	3.06	0.06	439919.49	655469.63	N 32 12 31.96	W 103 57 51.53
	1141.00	0.11	287.08	1140.98	2.99	-2.46	3.03	0.19	439919.53	655469.60	N 32 12 31.96	W 103 57 51.53
	1236.00	0.08	152.93	1235.98	2.93	-2.48	2.98	0.18	439919.50	655469.55	N 32 12 31.96	W 103 57 51.53
	1330.00	0.08	157.11	1329.98	2.98	-2.61	3.03	0.01	439919.36	655469.60	N 32 12 31.96	W 103 57 51.53
	1425.00	0.08	167.78	1424.98	3.02	-2.74	3.07	0.02	439919.25	655469.54	N 32 12 31.96	W 103 57 51.53
	1520.00	0.06	171.93	1519.98	3.04	-2.87	3.09	0.01	439919.12	655469.66	N 32 12 31.95	W 103 57 51.53
	1708.00	0.06	330.05	1708.98	3.01	-2.91	3.08	0.07	439919.08	655469.63	N 32 12 31.95	W 103 57 51.53
	1803.00	0.06	19.41	1802.98	3.00	-2.82	3.06	0.05	439919.17	655469.62	N 32 12 31.95	W 103 57 51.53
	1898.00	0.06	233.86	1897.98	2.98	-2.81	3.03	0.12	439919.18	655469.60	N 32 12 31.95	W 103 57 51.53
	1993.00	0.13	354.18	1992.98	2.93	-2.73	2.98	0.18	439919.25	655469.55	N 32 12 31.96	W 103 57 51.53
	2087.00	0.13	214.89	2086.98	2.85	-2.71	2.91	0.26	439919.28	655469.48	N 32 12 31.96	W 103 57 51.53
	2182.00	0.06	77.74	2181.98	2.85	-2.75	2.90	0.19	439919.20	655469.47	N 32 12 31.95	W 103 57 51.53
	2278.00	0.11	249.10	2275.98	2.81	-2.81	2.88	0.18	439919.18	655469.43	N 32 12 31.95	W 103 57 51.53
	2371.00	0.13	244.66	2370.98	2.63	-2.89	2.68	0.02	439919.10	655469.25	N 32 12 31.95	W 103 57 51.53
	2468.00	0.06	254.60	2465.98	2.48	-2.95	2.53	0.08	439919.04	655469.10	N 32 12 31.95	W 103 57 51.53
	2560.00	1.49	150.63	2559.97	3.01	-4.02	3.08	1.80	439917.97	655469.85	N 32 12 31.94	W 103 57 51.53
	2655.00	0.00	159.86	2654.98	3.60	-5.10	3.69	1.57	439916.89	655470.28	N 32 12 31.93	W 103 57 51.52
	2750.00	0.08	335.51	2749.98	3.57	-5.04	3.66	0.08	439916.95	655470.23	N 32 12 31.93	W 103 57 51.52
	2844.00	0.11	48.21	2843.96	3.61	-4.92	3.70	0.12	439917.07	655470.27	N 32 12 31.93	W 103 57 51.52
	2938.00	0.17	23.33	2938.96	3.74	-4.73	3.83	0.09	439917.28	655470.40	N 32 12 31.94	W 103 57 51.52
	3033.00	0.06	131.99	3032.96	3.83	-4.64	3.92	0.21	439917.35	655470.49	N 32 12 31.94	W 103 57 51.52
	3128.00	0.08	316.27	3127.96	3.83	-4.62	3.91	0.15	439917.37	655470.48	N 32 12 31.94	W 103 57 51.52
	3233.00	0.13	293.45	3232.96	3.67	-4.52	3.75	0.06	439917.47	655470.32	N 32 12 31.94	W 103 57 51.52
	3412.00	0.13	174.39	3411.96	3.50	-4.64	3.58	0.13	439917.35	655470.15	N 32 12 31.94	W 103 57 51.52
	3507.00	0.13	231.82	3506.96	3.42	-4.82	3.51	0.13	439917.17	655470.08	N 32 12 31.93	W 103 57 51.52
	3602.00	0.06	141.78	3601.96	3.37	-4.92	3.45	0.15	439917.07	655470.02	N 32 12 31.93	W 103 57 51.52
	3696.00	0.08	81.59	3695.96	3.46	-4.96	3.55	0.08	439917.04	655470.12	N 32 12 31.93	W 103 57 51.52
	3791.00	0.11	168.24	3790.98	3.54	-5.03	3.63	0.14	439916.96	655470.20	N 32 12 31.93	W 103 57 51.52
	3886.00	0.08	295.25	3885.96	3.63	-5.18	3.62	0.07	439916.91	655470.19	N 32 12 31.93	W 103 57 51.52
	3981.00	0.83	311.47	3980.95	2.67	-4.78	3.08	0.90	439917.21	655469.05	N 32 12 31.93	W 103 57 51.53
	4075.00	1.53	312.82	4074.93	1.59	-3.48	1.85	0.75	439916.51	655468.22	N 32 12 31.95	W 103 57 51.54
	4265.00	2.79	316.30	4264.80	-3.38	1.59	-3.41	0.67	439923.58	655463.16	N 32 12 32.00	W 103 57 51.60
	4359.00	3.43	323.87	4358.66	-6.55	5.51	-6.84	0.81	439927.50	655459.93	N 32 12 32.04	W 103 57 51.64
	4454.00	4.25	324.62	4453.44	-10.17	10.68	-10.36	0.86	439932.67	655456.21	N 32 12 32.08	W 103 57 51.68
	4548.00	5.00	323.06	4547.14	-14.54	16.79	-14.84	0.81	439938.78	655451.73	N 32 12 32.15	W 103 57 51.73
	4643.00	5.88	325.01	4641.72	-18.59	23.95	-20.02	0.74	439945.94	655446.55	N 32 12 32.22	W 103 57 51.79
	4738.00	6.14	326.74	4736.22	-24.93	32.05	-25.50	0.52	439954.04	655441.07	N 32 12 32.30	W 103 57 51.85
	4827.00	6.46	331.40	4824.08	-35.25	49.84	-36.14	0.32	439971.83	655430.44	N 32 12 32.48	W 103 57 51.98
	5022.00	5.52	325.29	5018.56	-40.26	58.29	-41.30	0.19	439980.27	655425.28	N 32 12 32.56	W 103 57 52.04
	5117.00	4.20	321.60	5113.22	-44.91	64.77	-46.06	0.13	439986.76	655420.51	N 32 12 32.62	W 103 57 52.10
	5211.00	3.01	319.49	5207.03	-48.57	69.34	-49.80	0.17	439991.33	655418.77	N 32 12 32.67	W 103 57 52.14
	5306.00	1.24	302.26	5301.98	-51.01	71.39	-52.29	0.19	439994.77	655414.28	N 32 12 32.69	W 103 57 52.17
	5401.00	0.13	321.80	5399.95	-51.94	72.42	-53.23	0.18	439994.41	655413.35	N 32 12 32.70	W 103 57 52.18
	5496.00	0.18	267.21	5491.95	-52.15	72.50	-53.44	0.16	439994.48	655413.13	N 32 12 32.70	W 103 57 52.18
	5590.00	0.06	3.55	5585.95	-52.29	72.54	-53.59	0.21	439994.53	655412.99	N 32 12 32.70	W 103 57 52.18
	5685.00	0.08	219.32	5680.95	-52.33	72.54	-53.63	0.14	439994.53	655412.95	N 32 12 32.70	W 103 57 52.18
	5780.00	0.11	101.52	5775.95	-52.29	72.47	-53.68	0.17	439994.46	655413.00	N 32 12 32.70	W 103 57 52.18
	5869.00	0.06	129.99	5864.95	-52.04	72.37	-53.33	0.03	439994.36	655413.25	N 32 12 32.70	W 103 57 52.18
	6064.00	0.08	316.20	6059.95	-52.04	72.39	-53.33	0.15	439994.37	655413.24	N 32 12 32.70	W 103 57 52.18
	6158.00	0.06	47.82	6153.95	-52.05	72.47	-53.34	0.11	439994.45	655413.23	N 32 12 32.70	W 103 57 52.18
	6348.00	0.11	325.61	6343.95	-52.08	72.69	-53.37	0.06	439994.67	655413.20	N 32 12 32.70	W 103 57 52.18
	6443.00	0.08	182.23	6438.95	-52.13	72.69	-53.43	0.19	439994.88	655413.15	N 32 12 32.70	W 103 57 52.18
	6537.00	0.08	221.24	6532.95	-52.18	72.58	-53.47	0.06	439994.56	655413.10	N 32 12 32.70	W 103 57 52.18
	6632.00	0.18	214.13	6627.95	-52.31	72.41	-53.60	0.11	439994.39	655412.98	N 32 12 32.70	W 103 57 52.18
	6727.00	0.17	277.57	6722.95	-52.53	72.30	-53.82	0.19	439994.28	655412.75	N 32 12 32.70	W 103 57 52.18
	6821.00	0.29	283.36	6816.95	-52.90	72.37	-54.19	0.13	439994.36	655412.38	N 32 12 32.70	W 103 57 52.19
	6916.00	0.33	303.13	6911.95	-53.36	72.58	-54.65	0.12	439994.56	655411.92	N 32 12 32.70	W 103 57 52.20
	7011.00	0.08	291.48	7006.95	-53.85	72.75	-54.95	0.27	439994.74	655411.63	N 32 12 32.70	W 103 57 52.20
	7106.00	0.11	303.09	7101.95	-53.79	72.83	-55.08	0.04	439994.81	655411.49	N 32 12 32.70	W 103 57 52.20
	7201.00	0.18	220.49	7196.95	-53.96	72.76	-55.26	0.21	439994.75	655411.32	N 32 12 32.70	W 103 57 52.20
	7295.00	1.47	222.78	7290.93	-54.89	71.77	-56.17	1.37	439993.75	655410.40	N 32 12 32.69	W 103 57 52.21
	7390.00	0.06	94.85	7385.92	-55.69	70.87	-56.95	1.59	439992.85	655409.62	N 32 12 32.69	W 103 57 52.22
	7485.00	0.13	301.01	7480.92	-55.73	70.92	-56.99	0.20	439992.90	655409.58	N 32 12 32.69	W 103 57 52.22
	7580.00	0.06	322.74	7575.92	-55.85	71.01	-57.12	0.08	439993.00	655409.48	N 32 12 32.69	W 103 57 52.22
	7675.00	0.30	135.15	7670.92	-55.71	70.88	-56.97	0.38	43999			

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ° ' ° '')	Longitude (E/W ° ° ' ° '')
	8336.00	0.65	157.26	8333.91	-56.51	68.61	-57.73	0.60	439990.60	655408.84	N 32 12 32.66	W 103 57 52.23
	8432.00	0.68	225.51	8427.90	-56.72	67.73	-57.93	0.79	439989.71	655408.85	N 32 12 32.65	W 103 57 52.23
	8527.00	0.55	210.14	8522.90	-57.37	66.93	-58.56	0.21	439988.92	655408.01	N 32 12 32.65	W 103 57 52.24
	8717.00	0.34	220.80	8712.89	-56.22	65.70	-59.40	0.12	439987.69	655407.18	N 32 12 32.63	W 103 57 52.25
	8811.00	0.11	199.51	8806.89	-58.44	65.41	-59.61	0.26	439987.39	655406.97	N 32 12 32.63	W 103 57 52.25
	8906.00	0.45	132.90	8901.89	-58.20	65.07	-59.37	0.44	439987.05	655407.21	N 32 12 32.63	W 103 57 52.25
	9001.00	0.13	336.58	8996.89	-57.98	64.91	-59.14	0.60	439986.90	655407.44	N 32 12 32.63	W 103 57 52.25
	9190.00	0.40	196.32	9185.89	-56.26	64.48	-59.41	0.27	439986.48	655407.17	N 32 12 32.62	W 103 57 52.25
	9250.00	0.08	62.03	9245.89	-58.28	64.29	-59.43	0.77	439986.28	655407.15	N 32 12 32.62	W 103 57 52.25
	9399.00	0.96	220.51	9394.88	-59.02	63.39	-60.15	0.69	439985.38	655406.43	N 32 12 32.61	W 103 57 52.26
	9494.00	3.83	73.77	9489.82	-56.48	63.68	-57.62	4.91	439985.56	655408.58	N 32 12 32.61	W 103 57 52.23
	9568.00	17.92	81.35	9561.90	-39.03	66.74	-40.22	15.03	439988.73	655426.36	N 32 12 32.64	W 103 57 52.03
	9663.00	25.79	78.49	9670.01	-4.17	73.08	-5.46	8.38	439995.06	655461.11	N 32 12 32.71	W 103 57 51.82
	9778.00	35.76	85.20	9751.55	43.99	79.34	42.59	11.08	440001.52	655508.15	N 32 12 32.77	W 103 57 51.06
	9872.00	46.24	83.83	9822.40	105.37	85.50	103.88	11.19	440007.49	655570.44	N 32 12 32.82	W 103 57 50.35
	9967.00	55.90	85.11	9962.02	178.96	82.56	177.35	10.22	440014.54	655643.91	N 32 12 32.89	W 103 57 49.49
	10061.00	66.81	86.73	9927.02	261.21	88.36	259.51	11.70	440020.34	655726.06	N 32 12 32.95	W 103 57 48.54
	10156.00	79.18	86.59	9954.75	351.81	103.65	350.03	13.02	440025.83	655816.57	N 32 12 33.00	W 103 57 47.48
	10251.00	86.18	85.11	9966.85	445.83	110.47	443.94	7.53	440032.45	655910.48	N 32 12 33.06	W 103 57 46.39
	10345.00	86.35	84.53	9972.97	539.38	118.94	537.38	0.64	440040.92	656003.89	N 32 12 33.14	W 103 57 45.30
	10450.00	87.01	85.01	9979.57	652.88	123.21	650.70	0.72	440051.26	656117.21	N 32 12 33.24	W 103 57 43.96
	10555.00	86.49	86.78	9984.90	746.59	136.03	744.30	1.96	440058.01	656210.81	N 32 12 33.30	W 103 57 42.89
	10647.00	86.70	88.53	9990.48	840.40	139.87	838.05	1.87	440061.85	656304.56	N 32 12 33.34	W 103 57 41.80
	10742.00	87.52	90.21	9995.27	935.27	140.91	932.92	1.97	440062.89	656399.42	N 32 12 33.34	W 103 57 40.70
	10837.00	88.49	92.10	9998.58	1030.14	139.00	1027.84	2.24	440060.98	656494.33	N 32 12 33.32	W 103 57 39.59
	10931.00	88.31	91.25	10001.21	1124.00	136.25	1121.76	0.92	440058.23	656588.24	N 32 12 33.28	W 103 57 38.50
	11026.00	88.76	90.81	10003.84	1218.90	134.55	1216.71	0.66	440055.52	656683.19	N 32 12 33.27	W 103 57 37.40
	11121.00	88.56	90.95	10005.86	1313.83	133.09	1311.68	0.28	440055.07	656778.14	N 32 12 33.25	W 103 57 36.29
	11215.00	88.35	91.65	10008.39	1407.72	130.95	1405.62	0.78	440061.83	656872.08	N 32 12 33.23	W 103 57 35.20
	11310.00	88.05	90.91	10011.13	1500.80	128.80	1500.80	0.74	440060.78	656967.01	N 32 12 33.15	W 103 57 34.08
	11405.00	88.45	88.80	10013.78	1597.54	128.01	1595.51	2.26	440050.99	657061.96	N 32 12 33.20	W 103 57 32.99
	11499.00	88.28	88.52	10016.46	1691.50	131.20	1689.45	0.35	440053.18	657155.88	N 32 12 33.22	W 103 57 31.89
	11594.00	88.14	88.13	10019.43	1786.46	133.15	1784.38	0.66	440055.13	657250.81	N 32 12 33.24	W 103 57 30.79
	11688.00	87.97	88.37	10022.62	1880.40	135.20	1878.70	0.83	440057.18	657344.73	N 32 12 33.26	W 103 57 29.70
	11783.00	88.18	87.89	10025.81	1975.34	138.30	1973.20	0.55	440060.28	657439.61	N 32 12 33.28	W 103 57 28.59
	11878.00	88.35	90.05	10028.89	2070.29	140.01	2068.13	2.28	440061.99	657534.54	N 32 12 33.30	W 103 57 27.49
	11972.00	88.45	89.74	10031.31	2164.24	140.18	2162.10	0.35	440062.15	657628.50	N 32 12 33.30	W 103 57 26.39
	12067.00	89.11	89.88	10033.34	2259.21	140.41	2257.07	0.74	440062.39	657723.47	N 32 12 33.29	W 103 57 25.29
	12161.00	88.93	90.40	10034.94	2353.17	140.10	2351.06	0.49	440062.08	657817.45	N 32 12 33.29	W 103 57 24.19
	12256.00	88.04	89.51	10037.45	2448.12	140.17	2446.02	1.32	440062.15	657912.40	N 32 12 33.29	W 103 57 23.09
	12350.00	88.18	88.89	10040.56	2542.07	141.65	2539.96	0.88	440063.63	658006.33	N 32 12 33.30	W 103 57 22.00
	12445.00	88.21	88.05	10043.55	2637.02	144.35	2634.87	0.87	440066.33	658101.24	N 32 12 33.32	W 103 57 20.89
	12540.00	88.28	87.61	10046.46	2731.95	147.95	2729.76	0.47	440069.92	658196.12	N 32 12 33.35	W 103 57 19.79
	12634.00	88.97	90.10	10048.71	2826.92	149.82	2823.71	2.75	440071.80	658290.05	N 32 12 33.37	W 103 57 18.69
	12728.00	89.35	91.05	10050.11	2920.87	148.87	2918.69	1.08	440070.85	658385.03	N 32 12 33.35	W 103 57 17.59
	12823.00	88.66	89.71	10051.74	3014.82	148.25	3012.67	1.60	440070.22	658479.01	N 32 12 33.35	W 103 57 16.49
	12918.00	88.76	89.06	10053.88	3109.80	149.27	3107.64	0.69	440071.24	658573.97	N 32 12 33.35	W 103 57 15.39
	13012.00	89.28	87.95	10055.48	3203.78	151.72	3201.59	1.30	440073.70	658668.91	N 32 12 33.37	W 103 57 14.29
	13107.00	89.24	88.13	10056.71	3298.76	154.97	3296.53	0.19	440076.94	658762.84	N 32 12 33.40	W 103 57 13.19
	13201.00	89.79	89.23	10057.51	3392.75	157.13	3390.50	1.31	440079.11	658856.81	N 32 12 33.42	W 103 57 12.10
	13296.00	89.45	89.38	10058.14	3487.75	158.28	3485.49	0.39	440080.25	658951.79	N 32 12 33.43	W 103 57 10.99
	13391.00	89.48	90.92	10059.02	3582.72	158.04	3580.48	1.62	440080.01	659046.78	N 32 12 33.42	W 103 57 9.88
	13485.00	89.79	91.78	10059.82	3676.64	155.82	3674.46	0.97	440077.80	659140.74	N 32 12 33.40	W 103 57 8.79
	13580.00	89.73	92.36	10060.02	3771.50	152.39	3769.39	0.81	440074.37	659235.67	N 32 12 33.36	W 103 57 7.69
	13675.00	89.38	92.04	10060.76	3866.35	148.74	3864.32	0.50	440070.72	659330.58	N 32 12 33.32	W 103 57 6.58
	13769.00	89.31	92.16	10061.83	3960.20	145.30	3958.25	0.15	440067.08	659424.51	N 32 12 33.28	W 103 57 5.48
	13864.00	89.07	91.33	10064.01	4055.06	142.41	4053.18	1.57	440064.39	659518.43	N 32 12 33.25	W 103 57 4.38
	13958.00	88.97	90.93	10066.43	4148.97	140.55	4147.13	1.05	440062.53	659613.37	N 32 12 33.23	W 103 57 3.29
	14053.00	89.68	91.90	10067.57	4243.87	138.21	4242.09	1.25	440060.19	659708.33	N 32 12 33.20	W 103 57 2.18
	14147.00	90.14	92.91	10067.73	4337.70	134.26	4336.01	1.19	440056.24	659802.24	N 32 12 33.16	W 103 57 1.09
	14242.00	89.45	91.93	10070.07	4427.34	126.24	4425.81	1.03	440048.22	659892.03	N 32 12 33.07	W 103 56 58.88
	14337.00	88.45	88.89	10072.61	4521.27	125.73	4519.76	3.45	440047.71	660085.97	N 32 12 33.07	W 103 56 57.79
	14431.00	88.07	87.05	10075.50	4615.20	129.26	4614.65	1.77	440051.24	660180.85	N 32 12 33.10	W 103 56 56.69
	14526.00	89.31	88.25	10077.87	4711.15	133.16	4709.54	1.82	440055.14	660275.74	N 32 12 33.13	W 103 56 55.58
	14621.00	88.69	88.39	10079.31	4805.13	135.91	4803.49	0.68	440057.89	660369.68	N 32 12 33.16	W 103 56 54.49
	14715.00	87.70	87.82	10082.30	5000.07	139.05	4998.39	1.20	440081.03	660464.57	N 32 12 33.18	W 103 56 53.38
	14810.00	89.31	88.35	10084.78	5095.02	142.22	5093.30	1.78	440084.20	660559.47	N 32 12 33.21	W 103 56 52.28
	14905.00	89.31	89.15	10085.91	5189.01	144.27	5187.27	0.85	440086.25	660653.43	N 32 12 33.23	W 103 56 51.18
	15000.00	89.35	89.80	10087.02	5284.00	145.14	5282.26	0.69	440087.12	660748.42	N 32 12 33.23	W 103 56 50.08
	15188.00	89.38	90.31	10089.07	5377.98	145.05	5376.25	0.54	440087.03	660842.40	N 32 12 33.23	W 103 56 48.98
	15283.00	89.79	90.50	10089.78	5472.94	144.38	5471.25	0.48	440086.38	660937.39	N 32 12 33.22	W 103 56 47.88
	15378.00	89.97	89.52	10088.95	5567.93	144.37	5566.24	1.05	440086.35	661032.38	N 32 12 33.22	W 103 56 46.77
	15472.00	89.69	89.89	10089.23	5661.92	144.85	5660.24	0.49	440086.83	661126.37	N 32 12 33.22	W 103 56 45.68
	15567.00	89.66	89.83	10089.77	5756.91	145.08	5755.24	0.07	440087.06	661221.36	N 32 12 33.22	W 103 56 44.57
	15661.00	89.82	90.12	10090.36	5850.89	145.12	5849.24	0.31	440087.10	661315.35	N 32 12 33.21	W 103 56 43.48
	15756.00	89.82	90.57	10090.99	5945.86	144.55	5944.23	0.47	440086.53	661410.3		

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 ° ' ")
		1	0.000	26.500	Act Slins	30.000	30.000	NAL_MWD_PLUS_0.5_DEG- Depth Only		Original Borehole / Oxy Cedar Canyon 23-24 Federal 31H MWD 0-17742 RMD		
		1	26.500	505.000	1/98 425	30.000	30.000	NAL_MWD_PLUS_0.5_DEG		Original Borehole / Oxy Cedar Canyon 23-24 Federal 31H MWD		
		1	505.000	17742.000	Act Slins	30.000	30.000	NAL_MWD_PLUS_0.5_DEG		Original Borehole / Oxy Cedar Canyon 23-24 Federal 31H MWD		