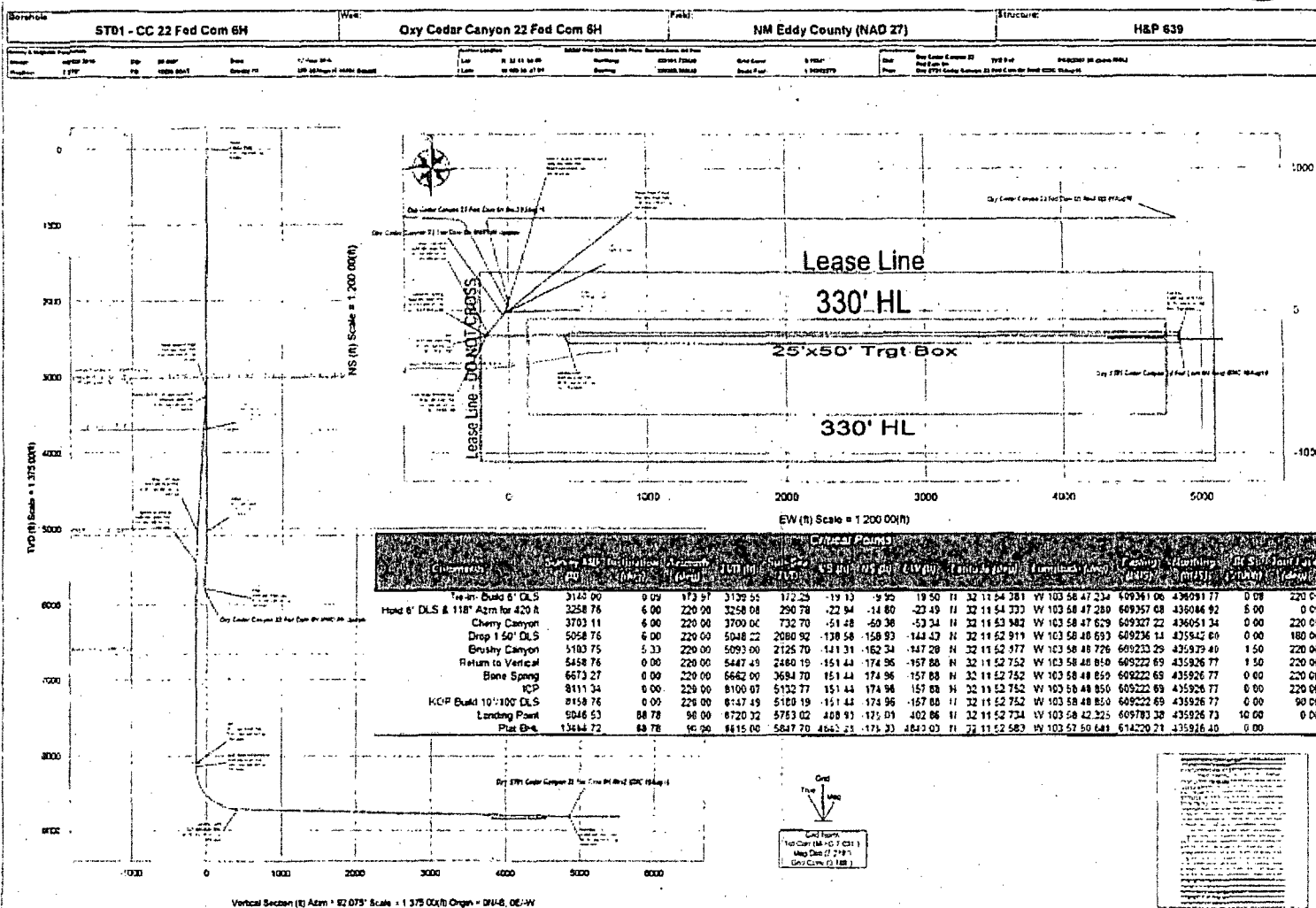




30-015-43759



Oxy ST01 Cedar Canyon 22 Fed Com 6H Rev2 MMC 18Aug16 Proposal

Geodetic Report

(Non-Def Plan)



Report Date: August 18, 2016 - 02:13 PM Client: OXY Field: NM Eddy County (NAD 27) Structure / Slot: Oxy Cedar Canyon 22 Fed Com 6H / Oxy Cedar Canyon 22 Fed Com 6H Well: Oxy Cedar Canyon 22 Fed Com 6H Borehole: ST01 - CC 22 Fed Com 6H UWI / API#: Unknown / Unknown Survey Name: Oxy ST01 Cedar Canyon 22 Fed Com 6H Rev2 MMC 18Aug16 Survey Date: August 17, 2016 Tort / AHD / DDI / ERD Ratio: 109 846' / 5238.945 ft / 5 945' / 0.594 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 11' 54.47863" W 103° 58' 47.00628" Location Grid N/E Y/X: N 436101.720 NUS E 609380.560 NUS CRS Grid Convergence Angle: 0.1884 ° Grid Scale Factor: 0.99992279 Version / Patch: 2.9.370.0	Survey / DLS Computation: Minimum Curvature / Lubinski Vertical Section Azimuth: 92.075 ° (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 2967.300 ft above MSL Seabed / Ground Elevation: 2939.100 ft above MSL Magnetic Declination: 7.219 ° Total Gravity Field Strength: 998.4670mg (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 48209.980 nT Magnetic Dip Angle: 60.049 ° Declination Date: August 17, 2016 Magnetic Declination Model: HDGM 2016 North Reference: Grid North Grid Convergence Used: 0.1884 ° Total Corr Mag North->Grid North: 7.0010 ° Local Coord Referenced To: Structure Reference Point	
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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	436101.72	609380.56	N 32 11 54.48 W 103 58 47.01		
Ground Level	28.20	0.00	0.00	28.20	0.00	0.00	0.00	0.00	436101.72	609380.56	N 32 11 54.48 W 103 58 47.01		
	442.00	0.70	265.57	441.89	-2.51	-0.20	-2.52	0.17	436101.52	609378.04	N 32 11 54.48 W 103 58 47.04		
	520.00	2.72	240.25	518.95	-4.58	-1.15	-4.60	2.70	436100.57	609375.96	N 32 11 54.47 W 103 58 47.06		
	611.00	2.97	240.42	610.84	-8.40	-3.39	-8.53	0.27	436098.33	609372.03	N 32 11 54.45 W 103 58 47.11		
	701.00	3.14	235.63	700.71	-12.37	-5.93	-12.59	0.34	436095.79	609367.07	N 32 11 54.42 W 103 58 47.15		
	792.00	2.66	233.49	791.59	-16.02	-8.59	-16.34	0.54	436093.13	609364.22	N 32 11 54.39 W 103 58 47.20		
	883.00	0.70	223.02	882.55	-18.04	-10.25	-18.42	2.17	436091.47	609362.14	N 32 11 54.38 W 103 58 47.22		
	974.00	0.11	270.44	973.55	-18.49	-10.68	-18.69	0.69	436091.06	609361.67	N 32 11 54.37 W 103 58 47.23		
	1065.00	0.09	230.86	1064.55	-18.63	-10.70	-18.03	0.08	436091.02	609361.53	N 32 11 54.37 W 103 58 47.23		
	1159.00	0.13	153.82	1158.55	-18.63	-10.85	-19.04	0.15	436090.87	609361.52	N 32 11 54.37 W 103 58 47.23		
	1253.00	0.04	32.34	1252.55	-18.57	-10.91	-18.99	0.18	436090.81	609361.59	N 32 11 54.37 W 103 58 47.23		
	1443.00	0.15	12.00	1442.55	-18.49	-10.82	-18.99	0.06	436091.11	609361.87	N 32 11 54.37 W 103 58 47.23		
	1537.00	0.09	248.05	1536.55	-18.54	-10.53	-18.83	0.23	436091.20	609361.63	N 32 11 54.38 W 103 58 47.23		
	1631.00	0.11	340.48	1630.55	-18.64	-10.47	-19.03	0.16	436091.25	609361.53	N 32 11 54.38 W 103 58 47.23		
	1820.00	0.11	335.95	1819.55	-18.78	-10.13	-19.16	0.00	436091.59	609361.40	N 32 11 54.38 W 103 58 47.23		
	1915.00	0.13	243.53	1914.55	-18.92	-10.10	-19.30	0.18	436091.62	609361.27	N 32 11 54.38 W 103 58 47.23		
	2009.00	0.04	299.41	2008.55	-19.04	-10.13	-19.42	0.12	436091.59	609361.14	N 32 11 54.38 W 103 58 47.23		
	2103.00	0.20	205.86	2102.55	-19.14	-10.26	-19.52	0.22	436091.48	609361.04	N 32 11 54.38 W 103 58 47.23		
	2198.00	0.13	160.65	2197.55	-19.18	-10.51	-19.56	0.15	436091.21	609361.00	N 32 11 54.38 W 103 58 47.23		
	2292.00	0.13	58.81	2291.55	-19.04	-10.56	-19.43	0.21	436091.16	609361.13	N 32 11 54.37 W 103 58 47.23		
	2480.00	0.11	22.26	2479.55	-18.79	-10.28	-19.18	0.04	436091.44	609361.38	N 32 11 54.38 W 103 58 47.23		
	2574.00	0.11	227.62	2573.55	-18.83	-10.26	-19.21	0.23	436091.46	609361.35	N 32 11 54.38 W 103 58 47.23		
	2669.00	0.07	54.39	2668.55	-18.85	-10.28	-19.23	0.19	436091.44	609361.33	N 32 11 54.38 W 103 58 47.23		
	2763.00	0.11	16.41	2762.55	-18.78	-10.18	-19.16	0.07	436091.56	609361.40	N 32 11 54.38 W 103 58 47.23		
	2857.00	0.18	337.69	2856.55	-18.82	-9.94	-19.19	0.12	436091.78	609361.37	N 32 11 54.38 W 103 58 47.23		
	2952.00	0.11	289.98	2951.55	-18.97	-9.80	-19.34	0.18	436091.92	609361.22	N 32 11 54.38 W 103 58 47.23		
	Tie-In Build 6' DLS	3140.00	0.09	173.97	3139.55	-19.13	-9.95	-19.50	0.08	436091.77	609361.06	N 32 11 54.38 W 103 58 47.23	
	Hold 6' DLS & 118° Azm for 420 ft	3200.00	3.06	219.40	3199.52	-20.10	-11.24	-20.52	5.00	436090.48	609360.05	N 32 11 54.37 W 103 58 47.25	
		3258.76	6.00	220.00	3258.08	-22.94	-14.80	-23.49	5.00	436086.92	609357.08	N 32 11 54.33 W 103 58 47.28	
		3300.00	6.00	220.00	3299.10	-25.59	-18.10	-26.26	0.00	436083.82	609354.30	N 32 11 54.30 W 103 58 47.31	
		3400.00	6.00	220.00	3398.55	-32.01	-26.11	-32.99	0.00	436075.61	609347.59	N 32 11 54.22 W 103 58 47.39	
		3500.00	6.00	220.00	3498.00	-38.43	-34.12	-39.70	0.00	436067.60	609340.87	N 32 11 54.14 W 103 58 47.47	
		3600.00	6.00	220.00	3597.48	-44.86	-42.13	-46.41	0.00	436059.60	609334.15	N 32 11 54.06 W 103 58 47.55	
		3700.00	6.00	220.00	3696.91	-51.28	-50.13	-53.13	0.00	436051.59	609327.43	N 32 11 53.99 W 103 58 47.63	
		3800.00	6.00	220.00	3796.38	-57.71	-58.14	-59.65	0.00	436043.58	609320.71	N 32 11 53.91 W 103 58 47.71	
		3900.00	6.00	220.00	3895.81	-64.13	-66.15	-66.57	0.00	436035.58	609313.99	N 32 11 53.83 W 103 58 47.78	
	4000.00	6.00	220.00	3995.27	-70.56	-74.16	-73.29	0.00	436027.57	609307.28	N 32 11 53.75 W 103 58 47.86		
	4100.00	6.00	220.00	4094.72	-76.98	-82.16	-80.01	0.00	436019.56	609300.56	N 32 11 53.67 W 103 58 47.94		
	4200.00	6.00	220.00	4194.17	-83.41	-90.17	-86.73	0.00	436011.56	609293.84	N 32 11 53.59 W 103 58 48.02		
	4300.00	6.00	220.00	4293.62	-89.83	-98.18	-93.45	0.00	436003.55	609287.12	N 32 11 53.51 W 103 58 48.10		
	4400.00	6.00	220.00	4393.07	-96.28	-106.19	-100.17	0.00	435995.54	609280.40	N 32 11 53.43 W 103 58 48.18		
	4500.00	6.00	220.00	4492.53	-102.68	-114.19	-106.69	0.00	435987.54	609273.68	N 32 11 53.35 W 103 58 48.25		
	4600.00	6.00	220.00	4591.98	-109.11	-122.20	-112.60	0.00	435979.53	609266.96	N 32 11 53.27 W 103 58 48.33		
	4700.00	6.00	220.00	4691.43	-115.53	-130.21	-120.32	0.00	435971.52	609260.25	N 32 11 53.19 W 103 58 48.41		
	4800.00	6.00	220.00	4790.88	-121.96	-138.22	-127.04	0.00	435963.52	609253.53	N 32 11 53.12 W 103 58 48.49		
	4900.00	6.00	220.00	4890.34	-128.38	-146.22	-133.76	0.00	435955.51	609246.81	N 32 11 53.04 W 103 58 48.57		
	5000.00	6.00	220.00	4989.79	-134.80	-154.23	-140.48	0.00	435947.50	609240.09	N 32 11 52.96 W 103 58 48.65		
Drop 1.50' DLS	5058.76	6.00	220.00	5048.22	-138.58	-158.93	-144.43	0.00	435942.80	609236.14	N 32 11 52.91 W 103 58 48.69		
	5100.00	5.38	220.00	5089.26	-141.09	-162.07	-147.06	1.50	435939.67	609233.52	N 32 11 52.88 W 103 58 48.72		
	5200.00	3.88	220.00	5188.93	-146.00	-168.25	-152.25	1.50	435933.48	609229.33	N 32 11 52.82 W 103 58 48.78		
	5300.00	2.38	220.00	5288.78	-149.41	-172.44	-155.76	1.50	435929.30	609224.81	N 32 11 52.78 W 103 58 48.83		
	5400.00	0.88	220.00	5388.74	-151.10	-174.62	-157.59	1.50	435927.12	609222.98	N 32 11 52.76 W 103 58 48.85		
Return to Vertical	5458.76	0.00	220.00	5447.49	-151.44	-174.96	-157.88	1.50	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	5500.00	0.00	220.00	5488.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	5600.00	0.00	220.00	5588.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	5700.00	0.00	220.00	5688.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	5800.00	0.00	220.00	5788.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	5900.00	0.00	220.00	5888.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	6000.00	0.00	220.00	5988.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	6100.00	0.00	220.00	6088.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	6200.00	0.00	220.00	6188.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	6300.00	0.00	220.00	6288.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	6400.00	0.00	220.00	6388.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	6500.00	0.00	220.00	6488.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	6600.00	0.00	220.00	6588.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	6700.00	0.00	220.00	6688.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	6800.00	0.00	220.00	6788.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	6900.00	0.00	220.00	6888.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	7000.00	0.00	220.00	6988.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	7100.00	0.00	220.00	7088.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	7200.00	0.00	220.00	7188.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	7300.00	0.00	220.00	7288.73	-151.44	-174.96	-157.88	0.00	435926.77	609222.69	N 32 11 52.75 W 103 58 48.85		
	7400.00	0.00	220.00	7388.73	-151.44	-174.96	-157.88	0.00	435926.77	609222			

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 ° ° ' '')
	7500.00	0.00	220.00	7488.73	-151.44	-174.98	-157.88	0.00	435928.77	609222.89	N 32 11 52.75 W	103 58 48.85
	7600.00	0.00	220.00	7588.73	-151.44	-174.98	-157.88	0.00	435928.77	609222.89	N 32 11 52.75 W	103 58 48.85
	7700.00	0.00	220.00	7688.73	-151.44	-174.98	-157.88	0.00	435928.77	609222.89	N 32 11 52.75 W	103 58 48.85
	7800.00	0.00	220.00	7788.73	-151.44	-174.98	-157.88	0.00	435928.77	609222.89	N 32 11 52.75 W	103 58 48.85
	7900.00	0.00	220.00	7888.73	-151.44	-174.98	-157.88	0.00	435928.77	609222.89	N 32 11 52.75 W	103 58 48.85
	8000.00	0.00	220.00	7988.73	-151.44	-174.98	-157.88	0.00	435928.77	609222.89	N 32 11 52.75 W	103 58 48.85
	8100.00	0.00	220.00	8088.73	-151.44	-174.98	-157.88	0.00	435928.77	609222.89	N 32 11 52.75 W	103 58 48.85
KOP Build 10ft/100 DLS	8158.76	0.00	220.00	8147.49	-151.44	-174.98	-157.88	0.00	435928.77	609222.89	N 32 11 52.75 W	103 58 48.85
	8200.00	4.12	90.00	8188.70	-149.98	-174.98	-158.39	10.00	435928.77	609224.19	N 32 11 52.75 W	103 58 48.83
	8300.00	14.12	90.00	8287.31	-134.13	-174.97	-140.56	10.00	435928.77	609240.01	N 32 11 52.75 W	103 58 48.85
	8400.00	24.12	90.00	8381.67	-101.43	-174.97	-107.84	10.00	435928.77	609272.73	N 32 11 52.75 W	103 58 48.27
	8500.00	34.12	90.00	8468.92	-52.85	-174.97	-59.23	10.00	435928.78	609321.74	N 32 11 52.75 W	103 58 47.70
	8600.00	44.12	90.00	8548.40	10.12	-174.98	3.79	10.00	435928.76	609384.35	N 32 11 52.75 W	103 58 46.97
	8700.00	54.12	90.00	8611.75	85.59	-174.98	79.31	10.00	435928.75	609459.86	N 32 11 52.74 W	103 58 46.09
	8800.00	64.12	90.00	8683.01	171.26	-174.99	165.03	10.00	435928.75	609545.58	N 32 11 52.74 W	103 58 45.09
	8900.00	74.12	90.00	8698.60	264.51	-174.99	258.35	10.00	435928.74	609638.89	N 32 11 52.74 W	103 58 44.01
	9000.00	84.12	90.00	8717.44	362.53	-175.00	358.43	10.00	435928.73	609738.96	N 32 11 52.74 W	103 58 42.87
Landing Point	9048.53	88.79	90.00	8720.32	408.93	-175.01	402.86	10.00	435928.73	609783.38	N 32 11 52.73 W	103 58 42.32
	9100.00	88.79	90.00	8721.46	482.35	-175.01	456.31	0.00	435928.72	609838.83	N 32 11 52.73 W	103 58 41.70
	9200.00	88.79	90.00	8723.59	562.26	-175.02	556.29	0.00	435928.72	609938.80	N 32 11 52.73 W	103 58 40.54
	9300.00	88.79	90.00	8725.73	642.17	-175.02	656.27	0.00	435928.71	610038.77	N 32 11 52.73 W	103 58 39.38
	9400.00	88.79	90.00	8727.86	722.08	-175.03	756.24	0.00	435928.70	610138.74	N 32 11 52.72 W	103 58 38.21
	9500.00	88.79	90.00	8729.99	802.00	-175.04	856.22	0.00	435928.69	610238.71	N 32 11 52.72 W	103 58 37.05
	9600.00	88.79	90.00	8732.13	961.91	-175.05	956.20	0.00	435928.68	610338.68	N 32 11 52.72 W	103 58 35.89
	9700.00	88.79	90.00	8734.28	1061.82	-175.05	1056.17	0.00	435928.68	610438.65	N 32 11 52.71 W	103 58 34.72
	9800.00	88.79	90.00	8736.39	1161.73	-175.06	1156.15	0.00	435928.67	610538.62	N 32 11 52.71 W	103 58 33.58
	9900.00	88.79	90.00	8738.53	1261.64	-175.07	1256.13	0.00	435928.67	610638.59	N 32 11 52.71 W	103 58 32.40
	10000.00	88.79	90.00	8740.66	1361.56	-175.09	1356.11	0.00	435928.66	610738.56	N 32 11 52.70 W	103 58 31.23
	10100.00	88.79	90.00	8742.79	1461.47	-175.08	1456.08	0.00	435928.65	610838.53	N 32 11 52.70 W	103 58 30.07
	10200.00	88.79	90.00	8744.93	1561.38	-175.09	1556.06	0.00	435928.64	610938.50	N 32 11 52.70 W	103 58 28.91
	10300.00	88.79	90.00	8747.06	1661.29	-175.10	1656.04	0.00	435928.64	611038.47	N 32 11 52.69 W	103 58 27.74
	10400.00	88.79	90.00	8749.19	1761.20	-175.11	1756.02	0.00	435928.63	611138.44	N 32 11 52.69 W	103 58 26.58
	10500.00	88.79	90.00	8751.33	1861.12	-175.11	1855.99	0.00	435928.62	611238.41	N 32 11 52.68 W	103 58 25.41
	10600.00	88.79	90.00	8753.46	1961.03	-175.12	1955.97	0.00	435928.61	611338.37	N 32 11 52.68 W	103 58 24.25
	10700.00	88.79	90.00	8755.59	2060.94	-175.13	2055.95	0.00	435928.61	611438.34	N 32 11 52.68 W	103 58 23.09
	10800.00	88.79	90.00	8757.73	2160.85	-175.14	2155.92	0.00	435928.60	611538.31	N 32 11 52.67 W	103 58 21.92
	10900.00	88.79	90.00	8759.86	2260.76	-175.14	2255.90	0.00	435928.59	611638.28	N 32 11 52.67 W	103 58 20.76
	11000.00	88.79	90.00	8761.99	2360.68	-175.15	2355.88	0.00	435928.58	611738.25	N 32 11 52.67 W	103 58 19.60
	11100.00	88.79	90.00	8764.13	2460.59	-175.16	2455.86	0.00	435928.58	611838.22	N 32 11 52.66 W	103 58 18.43
	11200.00	88.79	90.00	8766.26	2560.50	-175.16	2555.83	0.00	435928.57	611938.19	N 32 11 52.66 W	103 58 17.27
	11300.00	88.79	90.00	8768.39	2660.41	-175.17	2655.81	0.00	435928.56	612038.16	N 32 11 52.66 W	103 58 16.11
	11400.00	88.79	90.00	8770.53	2760.32	-175.18	2755.79	0.00	435928.55	612138.13	N 32 11 52.65 W	103 58 14.94
	11500.00	88.79	90.00	8772.66	2860.24	-175.19	2855.76	0.00	435928.55	612238.10	N 32 11 52.65 W	103 58 13.78
	11600.00	88.79	90.00	8774.79	2960.15	-175.19	2955.74	0.00	435928.54	612338.07	N 32 11 52.65 W	103 58 12.62
	11700.00	88.79	90.00	8776.93	3060.06	-175.20	3055.72	0.00	435928.53	612438.04	N 32 11 52.64 W	103 58 11.45
	11800.00	88.79	90.00	8779.06	3159.97	-175.21	3155.70	0.00	435928.52	612538.01	N 32 11 52.64 W	103 58 10.29
	11900.00	88.79	90.00	8781.19	3259.88	-175.22	3255.67	0.00	435928.52	612638.98	N 32 11 52.64 W	103 58 9.13
	12000.00	88.79	90.00	8783.33	3359.79	-175.22	3355.65	0.00	435928.51	612738.95	N 32 11 52.63 W	103 58 7.98
	12100.00	88.79	90.00	8785.46	3459.71	-175.23	3455.63	0.00	435928.50	612838.91	N 32 11 52.63 W	103 58 6.80
	12200.00	88.79	90.00	8787.59	3559.62	-175.24	3555.61	0.00	435928.50	612938.88	N 32 11 52.63 W	103 58 5.64
	12300.00	88.79	90.00	8789.73	3659.53	-175.25	3655.58	0.00	435928.49	613038.85	N 32 11 52.62 W	103 58 4.47
	12400.00	88.79	90.00	8791.86	3759.44	-175.25	3755.56	0.00	435928.48	613138.82	N 32 11 52.62 W	103 58 3.31
	12500.00	88.79	90.00	8793.99	3859.35	-175.26	3855.54	0.00	435928.47	613238.79	N 32 11 52.62 W	103 58 2.15
	12600.00	88.79	90.00	8796.13	3959.27	-175.27	3955.51	0.00	435928.47	613338.76	N 32 11 52.61 W	103 58 0.98
	12700.00	88.79	90.00	8798.26	4059.18	-175.28	4055.49	0.00	435928.46	613438.73	N 32 11 52.61 W	103 57 59.82
	12800.00	88.79	90.00	8800.39	4159.09	-175.28	4155.47	0.00	435928.45	613538.70	N 32 11 52.61 W	103 57 58.66
	12900.00	88.79	90.00	8802.53	4259.00	-175.29	4255.45	0.00	435928.44	613638.67	N 32 11 52.60 W	103 57 57.49
	13000.00	88.79	90.00	8804.66	4358.91	-175.30	4355.42	0.00	435928.44	613738.64	N 32 11 52.60 W	103 57 56.33
	13100.00	88.79	90.00	8806.79	4458.83	-175.31	4455.40	0.00	435928.43	613838.61	N 32 11 52.60 W	103 57 55.17
	13200.00	88.79	90.00	8808.93	4558.74	-175.31	4555.38	0.00	435928.42	613938.58	N 32 11 52.59 W	103 57 54.00
	13300.00	88.79	90.00	8811.06	4658.65	-175.32	4655.36	0.00	435928.41	614038.55	N 32 11 52.59 W	103 57 52.84
	13400.00	88.79	90.00	8813.19	4758.56	-175.33	4755.33	0.00	435928.41	614138.52	N 32 11 52.59 W	103 57 51.68
Plat BHL	13484.72	88.79	90.00	8815.00	4843.21	-175.33	4840.03	0.00	435928.40	614220.21	N 32 11 52.58 W	103 57 50.69

Survey Type: Non-Def Plan

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

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EDU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	28.200	Act Sine	30.000	30.000		NAL_MWD_PLUS_0.5_DEG- Depth Only	Oxy CC 22 Fed Com 6H Original Borehole / Oxy Cedar Canyon 22 Fed Com 6H MWD Dtl
	1	28.200	442.000	1/88.425	30.000	30.000		NAL_MWD_PLUS_0.5_DEG	Oxy CC 22 Fed Com 6H Original Borehole / Oxy Cedar Oxy CC 22 Fed Com 6H
	1	442.000	3140.000	Act Sine	30.000	30.000		NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Cedar ST01 - CC 22 Fed Com 6H / Oxy ST01 Cedar Canyon 22 Fed Com
	1	3140.000	13484.720	1/100.000	30.000	30.000		NAL_MWD_PLUS_0.5_DEG	