



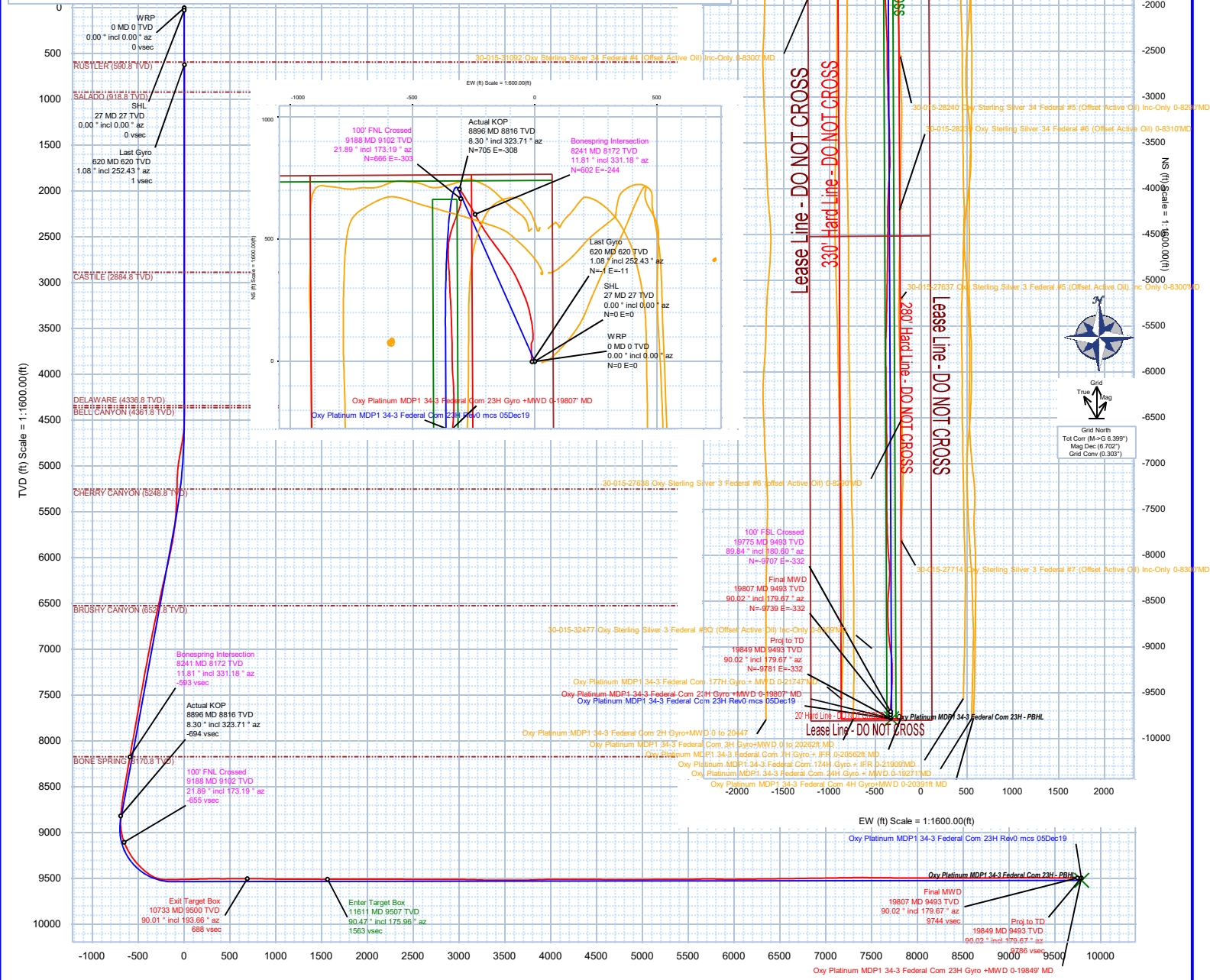
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Platinum MDP1 34-3 Federal Com 23H	NM Eddy County (NAD 83)	Oxy Platinum MDP1 34-3 Federal Com 23H

Gravity & Magnetic Parameters				Surface Location				NAD83 New Mexico State Plane, Eastern Zone, US Feet				Miscellaneous			
Model:	IFR1	Dip:	59.927°	Date:	18-Feb-2020	Lat:	N 32 15 57.90	Northing:	460997.74FUS	Grid Conv:	0.3029°	Slot:	Oxy Platinum MDP1 34-3	TVD Ref:	RKB = 26.5'(3458.8ft above MSL)
MagDec:	6.702°	FS:	47894.8nT	Gravity FS:	998.447mgn (9.80665 Based)	Lon:	W 103 45 57.27	Easting:	716723.9RUS	Scale Fact:	0.99994432	Plan:	Federal Conum 23H Oxy Platinum MDP1 34-3 Federal Con 23H Gyro	+MWD 0-19849' MD	

Critical Points									30-015-27498 Clay Sand Dunes 34 Federal #5 (Offset) Active Oil Inc-Only 0 - 8160	
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS		
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00			
Last Gyro	620.30	1.08	252.43	620.19	1.38	-1.02	-11.09	0.31		
Bonespring Intersection	8240.77	11.81	331.18	8172.00	-593.36	601.69	-244.48	0.59		
Actual KOP	8896.00	8.30	323.71	8815.77	-694.27	704.76	-308.41	0.82		
100' FNL Crossed	9188.00	21.89	173.19	9102.23	-655.41	665.70	-302.92	14.32		
Exit Target Box	10733.00	90.01	193.66	9500.16	688.09	-674.99	-410.55	8.73		
Enter Target Box	11611.00	90.47	175.96	9507.25	1563.11	-1550.51	-409.60	3.50		
100' FSL Crossed	19775.00	89.84	180.60	9492.67	9712.33	-9706.66	-332.22	2.96		
Final MWD	19807.00	90.02	179.67	9492.71	9744.32	-9738.66	-332.29	2.96		
Proj to TD	19849.00	90.02	179.67	9492.70	9786.28	-9780.66	-332.05	0.00		



Vertical Section (ft) Azim = 181.88° Scale = 1:1600.00(ft) Origin = 0N/-S, 0E/-W

Oxy Platinum MDP1 34-3 Federal Com 23H Gyro +MWD 0-19849' MD

Survey Geodetic Report

(Def Survey)

Report Date: March 07, 2020 - 10:03 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Platinum MDP1 34-3 Federal Com 23H / Oxy Platinum MDP1 34-3 Federal Com 23H
Well: Oxy Platinum MDP1 34-3 Federal Com 23H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-46192
Survey Name: Oxy Platinum MDP1 34-3 Federal Com 23H Gyro +MWD 0-19849' MD
Survey Date: January 19, 2020
Tort / AHD / DDI / ERD Ratio: 382.309' / 11326.096 ft / 6.956 / 1.190
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 15' 57.89913", W 103° 45' 57.26948"
Location Grid N/E Y/X: N 460997.740 ftUS, E 716723.900 ftUS
CRS Grid Convergence Angle: 0.3029 °
Grid Scale Factor: 0.99994432
Version / Patch: 2.10.794.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 181.878 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB = 26.5'
TVD Reference Elevation: 3458.800 ft above MSL
Seabed / Ground Elevation: 3432.300 ft above MSL
Magnetic Declination: 6.702 °
Total Gravity Field Strength: 998.4467mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47894.800 nT
Magnetic Dip Angle: 59.927 °
Declination Date: February 18, 2020
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.3029 °
Total Corr Mag North->Grid North: 6.3991 °
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 (W/E ° ' ")
WRP SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	460997.74	716723.90	N 32 15 57.90	W 103 45 57.27
	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	460997.74	716723.90	N 32 15 57.90	W 103 45 57.27
	43.00	0.48	257.32	43.00	0.02	-0.02	-0.07	2.91	460997.72	716723.83	N 32 15 57.90	W 103 45 57.27
Last Gyro	72.50	0.79	259.91	72.50	0.09	-0.08	-0.39	1.06	460997.66	716723.51	N 32 15 57.90	W 103 45 57.27
	101.90	0.88	265.64	101.89	0.16	-0.13	-0.81	0.42	460997.61	716723.09	N 32 15 57.90	W 103 45 57.28
	130.90	0.97	263.85	130.89	0.22	-0.17	-1.28	0.33	460997.57	716722.62	N 32 15 57.90	W 103 45 57.28
	160.20	1.06	264.65	160.19	0.28	-0.23	-1.80	0.31	460997.51	716722.10	N 32 15 57.90	W 103 45 57.29
	189.40	1.05	267.35	189.38	0.34	-0.26	-2.33	0.17	460997.48	716721.57	N 32 15 57.90	W 103 45 57.30
	216.30	1.03	269.86	216.28	0.37	-0.28	-2.82	0.18	460997.46	716721.08	N 32 15 57.90	W 103 45 57.30
	245.70	1.04	269.22	245.67	0.39	-0.28	-3.35	0.05	460997.46	716720.55	N 32 15 57.90	W 103 45 57.31
	277.20	1.07	269.03	277.17	0.42	-0.29	-3.93	0.10	460997.45	716719.97	N 32 15 57.90	W 103 45 57.32
	308.70	1.15	268.93	308.66	0.45	-0.30	-4.54	0.25	460997.44	716719.36	N 32 15 57.90	W 103 45 57.32
	340.20	1.19	268.14	340.15	0.49	-0.32	-5.18	0.14	460997.42	716718.72	N 32 15 57.90	W 103 45 57.33
	371.80	1.24	268.27	371.75	0.53	-0.34	-5.85	0.16	460997.40	716718.05	N 32 15 57.90	W 103 45 57.34
	403.30	1.28	269.29	403.24	0.57	-0.35	-6.55	0.15	460997.39	716717.35	N 32 15 57.90	W 103 45 57.35
	434.80	1.23	266.42	434.73	0.61	-0.38	-7.24	0.25	460997.36	716716.67	N 32 15 57.90	W 103 45 57.35
	466.30	1.24	263.10	466.22	0.70	-0.44	-7.91	0.23	460997.30	716715.99	N 32 15 57.90	W 103 45 57.36
	497.80	1.26	264.19	497.72	0.80	-0.51	-8.59	0.10	460997.23	716715.31	N 32 15 57.89	W 103 45 57.37
	529.30	1.24	261.20	529.21	0.91	-0.60	-9.28	0.22	460997.14	716714.63	N 32 15 57.89	W 103 45 57.38
	560.80	1.20	258.40	560.70	1.05	-0.72	-9.94	0.23	460997.02	716713.97	N 32 15 57.89	W 103 45 57.39
	592.30	1.15	254.99	592.20	1.21	-0.87	-10.56	0.27	460996.87	716713.34	N 32 15 57.89	W 103 45 57.39
	620.30	1.08	252.43	620.19	1.38	-1.02	-11.09	0.31	460996.72	716712.81	N 32 15 57.89	W 103 45 57.40
	744.00	0.51	252.19	743.88	1.96	-1.54	-12.72	0.46	460996.20	716711.18	N 32 15 57.88	W 103 45 57.42
	780.00	0.12	152.18	779.88	2.04	-1.62	-12.86	1.51	460996.12	716711.04	N 32 15 57.88	W 103 45 57.42
	870.00	0.12	162.16	869.88	2.21	-1.80	-12.78	0.02	460995.94	716711.12	N 32 15 57.88	W 103 45 57.42
	961.00	0.07	134.10	960.88	2.34	-1.93	-12.71	0.07	460995.81	716711.19	N 32 15 57.88	W 103 45 57.42
	1053.00	0.07	63.42	1052.88	2.35	-1.94	-12.62	0.09	460995.80	716711.28	N 32 15 57.88	W 103 45 57.42
	1236.00	0.07	314.02	1235.88	2.22	-1.81	-12.60	0.06	460995.93	716711.30	N 32 15 57.88	W 103 45 57.42
	1327.00	0.07	323.35	1326.88	2.14	-1.73	-12.68	0.01	460996.01	716711.22	N 32 15 57.88	W 103 45 57.42
	1420.00	0.07	234.66	1419.88	2.13	-1.72	-12.76	0.11	460996.02	716711.14	N 32 15 57.88	W 103 45 57.42
	1511.00	0.07	48.59	1510.88	2.13	-1.71	-12.76	0.15	460996.03	716711.14	N 32 15 57.88	W 103 45 57.42
	1602.00	0.06	190.32	1601.88	2.14	-1.72	-12.73	0.14	460996.02	716711.17	N 32 15 57.88	W 103 45 57.42
	1697.00	0.06	156.39	1696.88	2.23	-1.82	-12.72	0.04	460995.92	716711.18	N 32 15 57.88	W 103 45 57.42
	1781.00	0.07	207.72	1780.88	2.32	-1.90	-12.72	0.07	460995.84	716711.18	N 32 15 57.88	W 103 45 57.42
	1886.00	0.07	153.30	1885.88	2.43	-2.02	-12.72	0.06	460995.72	716711.18	N 32 15 57.88	W 103 45 57.42
	1981.00	0.07	284.98	1980.88	2.47	-2.05	-12.75	0.13	460995.69	716711.15	N 32 15 57.88	W 103 45 57.42
	2075.00	0.07	321.35	2074.88	2.41	-1.99	-12.85	0.05	460995.75	716711.05	N 32 15 57.88	W 103 45 57.42
	2170.00	0.06	118.84	2169.88	2.39	-1.97	-12.84	0.13	460995.77	716711.06	N 32 15 57.88	W 103 45 57.42
	2264.00	0.07	26.27	2263.88	2.36	-1.94	-12.77	0.10	460995.80	716711.13	N 32 15 57.88	W 103 45 57.42
	2359.00	0.07	62.36	2358.88	2.28	-1.87	-12.69	0.05	460995.87	716711.21	N 32 15 57.88	W 103 45 57.42
	2454.00	0.07	0.22	2453.88	2.19	-1.78	-12.64	0.08	460995.96	716711.26	N 32 15 57.88	W 103 45 57.42
	2549.00	0.07	248.74	2548.88	2.16	-1.74	-12.70	0.12	460996.00	716711.21	N 32 15 57.88	W 103 45 57.42
	2643.00	0.07	23.07	2642.88	2.13	-1.71	-12.73	0.14	460996.03	716711.17	N 32 15 57.88	W 103 45 57.42
	2738.00	0.07	264.33	2737.88	2.08	-1.66	-12.76	0.13	460996.08	716711.14	N 32 15 57.88	W 103 45 57.42
	2833.00	0.06	187.19	2832.88	2.14	-1.72	-12.83	0.09	460996.02	716711.08	N 32 15 57.88	W 103 45 57.42
	2928.00	0.07	129.66	2927.88	2.22	-1.81	-12.79	0.07	460995.93	716711.11	N 32 15 57.88	W 103 45 57.42
	3022.00	0.07	338.36	3021.88	2.21	-1.79	-12.76	0.14	460995.95	716711.14	N 32 15 57.88	W 103 45 57.42
	3117.00	0.07	27.44	3116.88	2.10	-1.68	-12.76	0.06	460996.06	716711.14	N 32 15 57.88	W 103 45 57.42
	3211.00	0.07	38.81	3210.88	2.00	-1.59	-12.70	0.01	460996.15	716711.20	N 32 15 57.88	W 103 45 57.42
	3306.00	0.06	260.41	3305.88	1.97	-1.55	-12.71	0.13	460996.19	716711.19	N 32 15 57.88	W 103 45 57.42
	3401.00	0.02	8.46	3400.88	1.96	-1.54	-12.76	0.07	460996.20	716711.15	N 32 15 57.88	W 103 45 57.42
3496.00	0.07	231.11	3495.88	1.98	-1.56	-12.80	0.09	460996.18	716711.10	N 32 15 57.88	W 103 45 57.42	
3591.00	0.07	271.02	3590.88	2.02	-1.60	-12.90	0.05	460996.14	716711.00	N 32 15 57.88	W 103 45 57.42	
3685.00	0.07	106.67	3684.88	2.04	-1.61	-12.90	0.15	460996.13	716711.00	N 32 15 57.88	W 103 45 57.42	
3780.00	0.07	105.53	3779.88	2.06	-1.65	-12.79	0.00	460996.09	716711.11	N 32 15 57.88	W 103 45 57.42	
3874.00	0.06	218.97	3873.88	2.12	-1.70	-12.77	0.12	460996.04	716711.13	N 32 15 57.88	W 103 45 57.42	
3969.00	0.06	82.37	3968.88	2.15	-1.73	-12.75	0.12	460996.01	716711.15	N 32 15 57.88	W 103 45 57.42	
4064.00	0.07	331.80	4063.88	2.09	-1.67	-12.73	0.11	460996.07	716711.17	N 32 15 57.88	W 103 45 57.42	
4158.00	0.04	78.03	4157.88	2.03	-1.62	-12.72	0.10	460996.12	716711.18	N 32 15 57.88	W 103 45 57.42	
4253.00	0.02	357.96	4252.88	2.01	-1.59	-12.69	0.04	460996.15	716711.21	N 32 15 57.88	W 103 45 57.42	
4333.00	0.06	345.00	4332.88	1.95	-1.54	-12.70	0.05	460996.20	716711.20	N 32 15 57.88	W 103 45 57.42	
4495.00	0.68	1.64	4494.87	0.91	-0.50	-12.70	0.38	460997.24	716711.20	N 32 15 57.89	W 103 45 57.42	
4589.00	4.31	355.32	4588.77	-3.16	3.58	-12.97	3.87	461001.32	716710.93	N 32 15 57.94	W 103 45 57.42	
4684.00	8.43	357.67	4683.16	-13.65	14.10	-13.54	4.34	461011.84	716710.36	N 32 15 58.04	W 103 45 57.43	
4779.00	10.89	358.07	4776.81	-29.55	30.03	-14.13	2.59	461027.77	716709.77	N 32 15 58.20	W 103 45 57.43	
4874.00	10.08	358.41	4870.22	-46.81	47.31	-14.66	0.86	461045.05	716709.24	N 32 15 58.37	W 103 45 57.44	
4968.00	7.77	1.00	4963.08	-61.37	61.89	-14.78	2.49	461059.63	716709.12	N 32 15 58.51	W 103 45 57.44	
5103.00	3.48	9.02	5097.40	-74.57	75.07	-13.98	3.22	461072.80	716709.92	N 32 15 58.64	W 103 45 57.43	
5157.00	1.91	33.98	5151.34	-76.96	77.43	-13.22	3.56	461075.17	716710.68	N 32 15 58.67	W 103 45 57.42	
5347.00	1.93	29.20	5341.23	-82.48	82.85	-9.89	0.08	461080.59	716714.01	N 32 15 58.72	W 103 45 57.38	
5441.00	2.76	14.37	5435.15	-86.10	86.43	-8.55	1.09	461084.16	716715.35	N 32 15 58.75	W 103 45 57.36	
5536.00	4.17	6.13	5529.98	-91.78	92.08	-7.62	1.57	461089.81	716716.28	N 32 15 58.81	W 103 45 57.35	
5631.00	6.03	1.84	5624.60	-100.21	100.50	-7.09	2.00	461098.23	716716.81	N 32 15 58.89	W 103 45 57.35	
5725.00	8.19	356.02	5717.87	-111.81	112.11	-7.39	2.42	461109.85	716716.51	N 32 15 59.01	W 103 45 57.35	
5820.90	9.79	352.90	5817.70	-121.80	121.90	-7.67	2.61	461121.90	716716.19	N 32 15 59.10	W 103 45 57.35	
6009.00	12.87	350.61	5996.99	-163.11	163.65	-13.86	1.66	461161.38	716710.04	N 32 15 59.52	W 103 45 57.42	
6104.00	13.85	348.38	6089.42	-184.54	185.23	-17.88	1.17					

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6578.00	13.27	336.57	6550.34	-288.35	290.20	-51.79	0.28	461287.92	716672.12	N 32 16 0.77	W 103 45 57.85
	6767.00	13.22	335.07	6734.31	-327.25	329.70	-69.52	0.18	461327.42	716654.38	N 32 16 1.17	W 103 45 58.06
	6957.00	12.92	330.20	6919.40	-364.71	367.84	-89.24	0.60	461365.55	716634.67	N 32 16 1.54	W 103 45 58.29
	7147.00	13.14	326.22	7104.51	-400.34	404.22	-111.80	0.49	461401.94	716612.11	N 32 16 1.90	W 103 45 58.55
	7337.00	13.10	324.32	7289.55	-434.95	439.66	-136.37	0.23	461437.38	716587.54	N 32 16 2.26	W 103 45 58.83
	7431.00	12.97	323.29	7381.13	-451.65	456.77	-148.89	0.28	461454.48	716575.02	N 32 16 2.43	W 103 45 58.98
	7621.00	12.88	323.37	7566.31	-484.88	490.86	-174.27	0.05	461488.57	716549.64	N 32 16 2.77	W 103 45 59.27
	7715.00	12.66	324.63	7657.99	-501.28	507.66	-186.48	0.38	461505.38	716537.43	N 32 16 2.93	W 103 45 59.41
	7810.00	12.22	326.43	7750.76	-517.76	524.53	-198.07	0.62	461522.24	716525.85	N 32 16 3.10	W 103 45 59.54
	7905.00	12.32	327.69	7843.59	-534.33	541.47	-209.04	0.30	461539.18	716514.87	N 32 16 3.27	W 103 45 59.67
	8094.00	11.85	329.07	8028.40	-567.32	575.16	-229.80	0.29	461572.87	716494.12	N 32 16 3.60	W 103 45 59.91
	8189.00	12.02	332.24	8121.35	-584.12	592.28	-239.42	0.71	461589.99	716484.50	N 32 16 3.77	W 103 46 0.02
Bonespring Intersection	8240.77	11.81	331.18	8172.00	-593.36	601.69	-244.48	0.59	461599.40	716479.43	N 32 16 3.87	W 103 46 0.08
	8378.00	11.27	328.20	8306.46	-616.59	625.39	-258.31	0.59	461623.10	716465.60	N 32 16 4.10	W 103 46 0.24
	8568.00	11.67	329.65	8492.67	-648.30	657.76	-277.81	0.26	461655.46	716446.11	N 32 16 4.42	W 103 46 0.46
	8757.00	9.68	326.44	8678.39	-677.42	687.50	-296.25	1.10	461685.20	716427.66	N 32 16 4.72	W 103 46 0.68
	8829.00	8.39	324.83	8749.49	-686.54	696.84	-302.62	1.83	461694.53	716421.29	N 32 16 4.81	W 103 46 0.75
	8873.00	8.48	323.31	8793.02	-691.64	702.06	-306.41	0.55	461699.76	716417.51	N 32 16 4.86	W 103 46 0.79
Actual KOP	8896.00	8.30	323.71	8815.77	-694.27	704.76	-308.41	0.82	461702.46	716415.51	N 32 16 4.89	W 103 46 0.82
	8991.00	5.11	180.97	8910.47	-695.44	706.06	-312.56	13.42	461703.76	716411.36	N 32 16 4.90	W 103 46 0.87
	9086.00	10.58	158.51	9004.57	-683.19	693.70	-309.43	6.50	461691.40	716414.49	N 32 16 4.78	W 103 46 0.83
	9180.00	21.49	170.29	9094.80	-658.32	688.62	-303.34	12.05	461686.32	716420.57	N 32 16 4.53	W 103 46 0.76
100' FNL Crossed	9188.00	21.89	173.19	9102.23	-655.47	692.40	-302.92	14.32	461683.40	716421.00	N 32 16 4.44	W 103 46 0.76
	9275.00	28.82	197.74	9181.02	-619.06	629.48	-307.40	14.32	461627.18	716416.51	N 32 16 4.14	W 103 46 0.81
	9370.00	35.45	202.36	9261.43	-571.17	582.13	-324.88	7.44	461579.83	716399.03	N 32 16 3.68	W 103 46 1.02
	9464.00	43.27	196.14	9334.08	-514.30	525.86	-344.25	9.31	461523.57	716379.67	N 32 16 3.12	W 103 46 1.25
	9559.00	47.43	181.66	9401.01	-447.55	459.41	-354.34	11.67	461457.13	716369.58	N 32 16 2.46	W 103 46 1.37
	9654.00	57.19	175.14	9459.06	-372.69	384.44	-351.97	11.61	461382.15	716371.95	N 32 16 1.72	W 103 46 1.34
	9703.00	65.30	178.04	9482.82	-329.96	341.60	-349.46	17.34	461339.32	716374.46	N 32 16 1.30	W 103 46 1.32
	9748.00	72.69	177.71	9498.74	-288.08	299.64	-347.90	16.44	461297.37	716376.02	N 32 16 0.88	W 103 46 1.30
	9793.00	82.21	175.63	9508.50	-244.39	255.85	-345.33	21.63	461253.57	716378.59	N 32 16 0.45	W 103 46 1.28
	9843.00	89.25	178.27	9512.22	-194.75	206.09	-342.69	15.03	461203.82	716381.23	N 32 15 59.96	W 103 46 1.25
	9894.00	90.86	178.19	9512.18	-143.85	155.12	-341.11	3.16	461152.85	716382.81	N 32 15 59.45	W 103 46 1.23
	9929.00	91.62	178.16	9511.42	-108.94	120.14	-340.00	2.17	461117.88	716383.92	N 32 15 59.11	W 103 46 1.22
	10022.00	91.04	179.68	9509.26	-16.09	27.19	-338.25	1.75	461024.93	716385.67	N 32 15 58.19	W 103 46 1.21
	10116.00	91.72	176.25	9507.00	77.65	-66.71	-334.91	3.72	460931.03	716389.01	N 32 15 57.26	W 103 46 1.17
	10209.00	91.55	179.25	9504.34	170.36	-159.59	-331.26	3.23	460838.16	716392.66	N 32 15 56.34	W 103 46 1.14
	10302.00	92.00	185.04	9501.46	263.28	-252.44	-334.74	6.24	460745.31	716389.18	N 32 15 55.42	W 103 46 1.18
	10396.00	88.35	184.80	9501.17	357.13	-346.08	-342.80	3.89	460651.68	716381.12	N 32 15 54.49	W 103 46 1.28
	10488.00	90.59	186.31	9502.02	448.92	-437.63	-351.70	2.94	460560.13	716372.22	N 32 15 53.59	W 103 46 1.39
	10582.00	90.31	193.99	9501.28	541.87	-530.09	-368.26	8.18	460467.68	716355.67	N 32 15 52.67	W 103 46 1.59
Exit Target Box	10675.00	90.66	198.68	9500.49	631.90	-619.31	-394.40	5.06	460378.47	716329.52	N 32 15 51.79	W 103 46 1.90
	10733.00	90.01	193.66	9500.16	688.09	-674.99	-410.55	8.73	460322.78	716313.37	N 32 15 51.24	W 103 46 2.09
	10762.00	89.68	191.15	9500.24	716.60	-703.31	-416.78	8.73	460294.47	716307.14	N 32 15 50.96	W 103 46 2.17
	10856.00	89.26	182.37	9501.11	810.16	-796.57	-427.83	9.35	460201.22	716296.09	N 32 15 50.04	W 103 46 2.30
	10949.00	88.51	178.33	9502.92	903.09	-889.53	-428.40	4.42	460108.26	716295.52	N 32 15 49.12	W 103 46 2.31
	11043.00	89.13	179.24	9504.85	996.93	-983.48	-426.41	1.17	460014.31	716297.52	N 32 15 48.19	W 103 46 2.30
	11138.00	90.05	179.55	9505.53	1091.84	-1078.47	-425.41	1.02	459919.33	716298.52	N 32 15 47.25	W 103 46 2.29
	11233.00	90.09	183.65	9505.42	1186.82	-1173.42	-428.06	4.32	459824.39	716295.87	N 32 15 46.31	W 103 46 2.33
	11327.00	89.33	178.03	9505.89	1280.76	-1267.37	-429.44	6.03	459730.45	716294.49	N 32 15 45.38	W 103 46 2.35
	11422.00	89.78	178.20	9506.63	1375.55	-1362.31	-426.31	0.51	459635.51	716297.61	N 32 15 44.54	W 103 46 2.32
	11516.00	89.50	172.78	9507.22	1468.93	-1455.99	-418.92	5.77	459541.84	716305.00	N 32 15 43.41	W 103 46 2.24
Enter Target Box	11611.00	90.47	175.96	9507.25	1563.11	-1550.51	-409.60	3.50	459447.32	716314.32	N 32 15 42.58	W 103 46 2.13
	11705.00	90.26	176.48	9506.65	1656.65	-1644.31	-403.41	0.60	459353.53	716320.52	N 32 15 41.65	W 103 46 2.07
	11800.00	90.16	176.91	9506.30	1751.26	-1739.15	-397.93	0.46	459258.69	716325.99	N 32 15 40.71	W 103 46 2.01
	11894.00	90.40	177.49	9505.84	1844.94	-1833.03	-393.34	0.67	459164.81	716330.58	N 32 15 39.78	W 103 46 1.96
	11989.00	90.16	177.75	9505.38	1939.68	-1927.95	-389.39	0.37	459069.90	716334.53	N 32 15 38.84	W 103 46 1.92
	12178.00	89.88	177.32	9505.31	2128.13	-2116.78	-381.26	0.27	458881.09	716342.66	N 32 15 36.97	W 103 46 1.84
	12273.00	89.57	178.24	9505.77	2222.89	-2211.70	-377.58	1.02	458786.17	716346.34	N 32 15 36.03	W 103 46 1.80
	12367.00	89.54	176.73	9506.50	2316.61	-2305.61	-373.46	1.61	458692.27	716350.46	N 32 15 35.10	W 103 46 1.76
	12462.00	89.50	178.08	9507.29	2411.31	-2400.50	-369.16	1.42	458597.38	716354.76	N 32 15 34.17	W 103 46 1.72
	12556.00	90.23	180.54	9507.51	2505.21	-2494.49	-368.03	2.73	458503.40	716355.89	N 32 15 33.24	W 103 46 1.71
	12656.00	89.85	180.32	9507.44	2605.18	-2594.49	-368.78	0.44	458403.42	716355.14	N 32 15 32.25	W 103 46 1.72
	12751.00	89.16	178.40	9508.27	2700.08	-2689.47	-367.72	2.15	458308.42	716356.20	N 32 15 31.31	W 103 46 1.72
	12940.00	90.06	177.27	9509.55	2888.60	-2878.33	-360.58	0.76	458119.58	716363.34	N 32 15 29.44	W 103 46 1.65
	13034.00	90.02	180.89	9509.49	2982.47	-2972.30	-359.07	3.85	458025.61	716364.85	N 32 15 28.51	W 103 46 1.63
	13129.00	89.20	177.46	9510.13	3077.35	-3067.27	-357.70	3.71	457930.65	716366.22	N 32 15 27.57	W 103 46 1.62
	13224.00	88.03	179.00	9512.43	3172.12	-3162.19	-354.77	2.04	457835.73	716369.15	N 32 15 26.63	W 103 46 1.60
	13319.00	88.54	176.00	9515.27	3266.79	-3257.05	-350.63	3.20	457740.88	716373.29	N 32 15 25.69	W 103 46 1.55
	13413.00	89.51	177.43	9516.87	3360.39	-3350.88	-345.24	1.84	457647.06	716378.68	N 32 15 24.76	W 103 46 1.50
	13508.00	90.54	179.75	9516.83	3455.23	-3445.84	-342.90	2.67	457552.10	716381.02	N 32 15 23.82	W 103 46 1.47
	13603.00	90.57	179.16	9515.91	3550.14	-3540.83	-342.00	0.62	457457.11	716381.92	N 32 15 22.88	W 103 46 1.47
	13698.00	91.16	178.97	9516.13	3645.02	-3635.82	-340.45	1.50	457362.13	716383.47	N 32 15 21.94	W 103 46 1.46
	13792.00	89.15	179.92	9515.85	3738.93	-3729.81	-339.54	2.38	457268.15	716384.38	N 32 15 21.01	W 103 46 1.45
	13887.00	92.16	184.42	9513.08	3833.86	-3824.67	-343.13	4.84	457173.29	716380.79	N 32 15 20.07	W 103 46 1.50
	13982.00	91.60	183.65	9509.97	3928.74	-3919.39	-349.81	1.00	457078.58	716374.11	N 32 15 19.14	W 103 46 1.58
	14077.00											

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 ° ' ")
	17860.00	89.78	177.96	9491.67	7804.08	-7796.27	-365.92	1.09	453201.92	716358.00	N 32 14 40.77	W 103 46 2.01
	17955.00	89.44	176.41	9492.32	7898.75	-7891.15	-361.26	1.67	453107.04	716362.66	N 32 14 39.84	W 103 46 1.96
	18050.00	89.44	175.13	9493.25	7993.21	-7985.89	-354.25	1.35	453012.31	716369.67	N 32 14 38.90	W 103 46 1.89
	18145.00	90.09	175.71	9493.64	8087.60	-8080.58	-346.67	0.92	452917.62	716377.25	N 32 14 37.96	W 103 46 1.80
	18239.00	90.68	179.38	9493.01	8181.32	-8174.48	-342.64	3.95	452823.73	716381.28	N 32 14 37.03	W 103 46 1.76
	18333.00	90.19	182.15	9492.29	8275.29	-8268.46	-343.90	2.99	452729.76	716380.02	N 32 14 36.10	W 103 46 1.78
	18428.00	89.92	185.53	9492.20	8370.22	-8363.23	-350.26	3.57	452634.99	716373.66	N 32 14 35.16	W 103 46 1.86
	18523.00	90.57	184.34	9491.80	8465.08	-8457.88	-358.43	1.43	452540.35	716365.49	N 32 14 34.23	W 103 46 1.96
	18617.00	89.64	181.46	9491.62	8559.05	-8551.74	-363.18	3.22	452446.49	716360.74	N 32 14 33.30	W 103 46 2.02
	18712.00	90.16	178.02	9491.79	8653.97	-8646.73	-362.75	3.66	452351.51	716361.17	N 32 14 32.36	W 103 46 2.03
	18807.00	89.13	177.08	9492.38	8748.70	-8741.64	-358.69	1.47	452256.61	716365.23	N 32 14 31.42	W 103 46 1.98
	18901.00	90.47	176.57	9492.71	8842.33	-8835.49	-353.49	1.53	452162.76	716370.43	N 32 14 30.49	W 103 46 1.93
	18996.00	91.05	173.99	9491.45	8936.68	-8930.15	-345.67	2.78	452068.10	716378.25	N 32 14 29.55	W 103 46 1.84
	19091.00	90.47	170.37	9490.18	9030.30	-9024.24	-332.75	3.86	451974.02	716391.17	N 32 14 28.62	W 103 46 1.70
	19185.00	89.85	173.98	9489.92	9122.94	-9117.35	-319.95	3.90	451880.91	716403.97	N 32 14 27.70	W 103 46 1.56
	19280.00	89.75	180.15	9490.25	9217.56	-9212.18	-315.09	6.50	451786.09	716408.83	N 32 14 26.76	W 103 46 1.50
	19470.00	89.75	180.41	9491.08	9407.48	-9402.18	-316.02	0.14	451596.11	716407.90	N 32 14 24.88	W 103 46 1.53
	19565.00	89.37	185.06	9491.81	9502.44	-9497.04	-320.55	4.91	451501.25	716403.37	N 32 14 23.94	W 103 46 1.59
	19659.00	89.99	183.75	9492.34	9596.35	-9590.76	-327.77	1.54	451407.54	716396.15	N 32 14 23.02	W 103 46 1.68
	19752.00	89.71	181.27	9492.58	9689.33	-9683.66	-331.84	2.68	451314.64	716392.08	N 32 14 22.10	W 103 46 1.73
100' FSL Crossed	19775.00	89.84	180.60	9492.67	9772.33	-9706.66	-332.22	2.96	451291.64	716391.70	N 32 14 21.87	W 103 46 1.73
Final MWD	19807.00	90.02	179.67	9492.71	9744.32	-9738.66	-332.29	2.96	451259.64	716391.63	N 32 14 21.55	W 103 46 1.74
Proj to TD	19849.00	90.02	179.67	9492.70	9786.28	-9780.66	-332.05	0.00	451217.65	716391.67	N 32 14 21.14	W 103 46 1.74

Survey Type: Def Survey

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

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	26.400	26.400	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 23H Gyro +MWD 0-19849' MD
	1	26.500	26.500	Act Stns	26.400	26.400	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 23H Gyro +MWD 0-19849' MD
	1	26.500	620.300	Act Stns	26.400	26.400	GYD_GC+DROP+OH	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 23H
	1	620.300	4333.000	Act Stns	26.400	26.400	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 23H Gyro +MWD 0-19849' MD
	1	4333.000	5103.000	Act Stns	26.400	26.400	B001Mb_MWD+HRGM	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 23H
	1	5103.000	9894.000	Act Stns	26.400	26.400	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 23H Gyro +MWD 0-19849' MD
	1	9894.000	10675.000	Act Stns	26.400	26.400	B001Mb_MWD+HRGM	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 23H
	1	10675.000	19849.000	Act Stns	26.400	26.400	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 23H Gyro +MWD 0-19849' MD

...Original Borehole\Oxy Platinum MDP1 34-3 Federal Com 23H Gyro +MWD 0-19849' MD