

Schlumberger

OXY

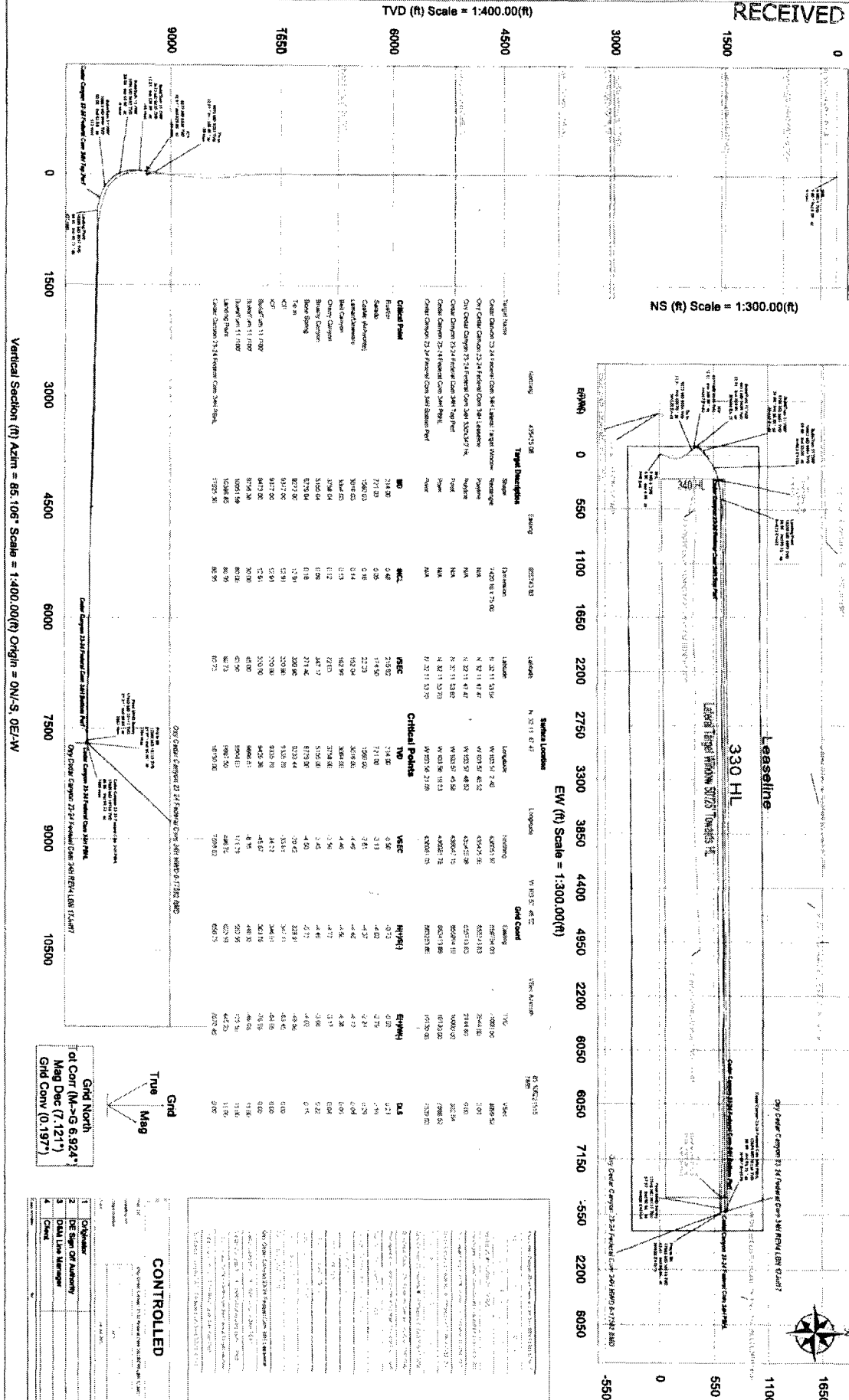


Borehole: Original Borehole
Well: Oxy Cedar Canyon 23-24 Federal Com 34H
Field: NM Eddy County (NAD 83)
Structure: Oxy Cedar Canyon 23-24 Federal Com 34H

Depth: 1,127' Date: 08-07-17
Depth: 4,018' Date: 08-07-17
Depth: 7,127' Date: 08-07-17

Location: N 31.1° E 4.2' W 30.2' 46.20' UTM Zone 18Q
Scale: 1:300.00
Datum: NAD 83
Elevation: 4,018' UTM
Magnetic Declination: 11.2° E (1977)

RECEIVED



Grid North
Mag Dec (7.121°)
Grid Conv (0.197°)

CONTROLLED

1. Oxy Cedar Canyon 23-24 Federal Com 34H
2. Oxy Cedar Canyon 23-24 Federal Com 34H
3. Oxy Cedar Canyon 23-24 Federal Com 34H

Oxy Cedar Canyon 23-24 Federal Com 34H MWD 0-17582 ftMD Survey

Geodetic Report

(Def Survey)



Report Date: July 24, 2017 - 10:59 AM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Cedar Canyon 23-24 Federal Com 34H / Oxy Cedar Canyon 23-24 Federal Com 34H
 Well: Oxy Cedar Canyon 23-24 Federal Com 34H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Oxy Cedar Canyon 23-24 Federal Com 34H MWD 0-17582 ftMD
 Survey Date: June 28, 2017
 Tort / AHD / DDI / ERD Ratio: 227.082' / 8279.186 ft / 6.514 / 0.818
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 11' 47.47186" W 103° 57' 48.51546"
 Location Grid N/E Y/X: N 435425.080 NUS, E 655743.830 NUS
 CRS Grid Convergence Angle: 0.1971'
 Grid Scale Factor: 0.99962408
 Version / Patch: 2.10.302.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 85.106° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=26.5'
 TVD Reference Elevation: 2944.600 ft above MSL
 Seabed / Ground Elevation: 2918.100 ft above MSL
 Magnetic Declination: 7.120°
 Total Gravity Field Strength: 988.4705mgm (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48109.950 nT
 Magnetic Dip Angle: 60.001°
 Declination Date: June 28, 2017
 Magnetic Declination Model: HDGM 2017
 North Reference: Grid North
 Grid Convergence Used: 0.1971'
 Total Com Mag North -> Grid North: 6.9233°
 Local Coord Referenced To: Well Head

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 ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	435425.08	655743.83	N 32 11 47.47	W 103 57 48.52
	442.00	1.00	215.92	441.98	-2.52	-3.12	-2.26	0.23	435421.96	655741.57	N 32 11 47.44	W 103 57 48.54
	512.00	0.18	218.42	511.97	-3.00	-3.70	-2.69	1.17	435421.38	655741.14	N 32 11 47.44	W 103 57 48.55
	697.00	0.06	136.07	696.97	-3.13	-4.00	-2.80	0.10	435421.08	655741.03	N 32 11 47.43	W 103 57 48.55
	789.00	0.13	228.74	788.97	-3.19	-4.11	-2.85	0.16	435420.97	655740.98	N 32 11 47.43	W 103 57 48.55
	859.00	0.11	230.89	858.97	-3.38	-4.24	-3.01	0.02	435420.84	655740.82	N 32 11 47.43	W 103 57 48.55
	977.00	0.11	101.05	976.97	-3.35	-4.31	-2.99	0.23	435420.77	655740.84	N 32 11 47.43	W 103 57 48.55
	1066.00	0.13	82.04	1065.97	-3.16	-4.31	-2.81	0.05	435420.77	655741.02	N 32 11 47.43	W 103 57 48.55
	1156.00	0.13	141.48	1155.97	-3.01	-4.38	-2.84	0.14	435420.70	655741.19	N 32 11 47.43	W 103 57 48.55
	1341.00	0.13	155.70	1340.97	-2.82	-4.73	-2.42	0.02	435420.35	655741.41	N 32 11 47.43	W 103 57 48.54
	1442.00	0.11	16.26	1441.97	-2.75	-4.75	-2.35	0.22	435420.34	655741.48	N 32 11 47.42	W 103 57 48.54
	1534.00	0.25	15.29	1533.97	-2.85	-4.47	-2.27	0.15	435420.61	655741.56	N 32 11 47.43	W 103 57 48.54
	1628.00	0.08	113.81	1627.97	-2.52	-4.30	-2.16	0.29	435420.79	655741.87	N 32 11 47.43	W 103 57 48.54
	1723.00	0.16	309.18	1722.97	-2.55	-4.24	-2.20	0.25	435420.84	655741.83	N 32 11 47.43	W 103 57 48.54
	1817.00	0.18	318.81	1816.97	-2.74	-4.05	-2.40	0.03	435421.03	655741.43	N 32 11 47.43	W 103 57 48.54
	2007.00	0.18	263.44	2006.97	-3.22	-3.86	-2.90	0.09	435421.22	655740.93	N 32 11 47.43	W 103 57 48.55
	2101.00	0.11	311.61	2100.97	-3.43	-3.82	-3.12	0.14	435421.22	655740.71	N 32 11 47.43	W 103 57 48.55
	2290.00	0.11	49.98	2289.97	-3.41	-3.58	-3.11	0.09	435421.50	655740.72	N 32 11 47.44	W 103 57 48.55
	2384.00	0.13	293.72	2383.97	-3.43	-3.48	-3.14	0.22	435421.80	655740.69	N 32 11 47.44	W 103 57 48.55
	2479.00	0.16	227.55	2478.97	-3.63	-3.53	-3.34	0.17	435421.55	655740.49	N 32 11 47.44	W 103 57 48.55
	2667.00	0.20	261.23	2666.97	-4.16	-3.78	-3.88	0.06	435421.32	655739.97	N 32 11 47.43	W 103 57 48.56
	2762.00	0.20	227.92	2761.97	-4.46	-3.89	-4.14	0.12	435421.19	655738.69	N 32 11 47.43	W 103 57 48.56
	2953.00	0.16	140.10	2952.97	-4.57	-4.32	-4.22	0.13	435420.76	655738.61	N 32 11 47.43	W 103 57 48.56
	3141.00	0.13	182.37	3140.97	-4.45	-4.74	-4.08	0.06	435420.35	655738.77	N 32 11 47.43	W 103 57 48.56
	3235.00	0.18	83.69	3234.97	-4.32	-4.83	-3.92	0.25	435420.25	655739.91	N 32 11 47.42	W 103 57 48.56
	3344.00	0.13	285.38	3343.97	-4.26	-4.77	-3.87	0.28	435420.31	655739.96	N 32 11 47.42	W 103 57 48.56
	3436.00	0.17	132.94	3435.97	-4.27	-4.84	-3.87	0.32	435420.24	655739.96	N 32 11 47.42	W 103 57 48.56
	3526.00	0.13	73.55	3525.97	-4.08	-4.90	-3.87	0.17	435420.18	655740.16	N 32 11 47.42	W 103 57 48.56
	3631.00	0.13	75.55	3630.98	-3.84	-4.84	-3.44	0.00	435420.24	655740.39	N 32 11 47.42	W 103 57 48.56
	3709.00	0.13	78.35	3708.98	-3.67	-4.80	-3.27	0.01	435420.28	655740.56	N 32 11 47.42	W 103 57 48.55
	3803.00	0.11	65.18	3802.96	-3.48	-4.74	-3.09	0.04	435420.34	655740.75	N 32 11 47.43	W 103 57 48.55
	3897.00	0.13	202.45	3896.98	-3.44	-4.80	-3.04	0.24	435420.28	655740.79	N 32 11 47.42	W 103 57 48.55
	4091.00	0.13	50.31	4090.98	-3.36	-4.86	-2.96	0.13	435420.22	655740.87	N 32 11 47.42	W 103 57 48.55
	4276.00	0.06	266.07	4275.98	-3.23	-4.73	-2.89	0.10	435420.35	655740.94	N 32 11 47.43	W 103 57 48.55
	4374.00	0.13	168.94	4373.98	-3.32	-4.85	-2.82	0.15	435420.27	655740.88	N 32 11 47.42	W 103 57 48.55
	4465.00	0.18	338.83	4464.96	-3.35	-4.81	-2.95	0.34	435420.22	655740.88	N 32 11 47.42	W 103 57 48.55
	4559.00	0.13	71.89	4558.95	-3.28	-4.64	-2.90	0.24	435420.44	655740.93	N 32 11 47.43	W 103 57 48.55
	4748.00	0.14	238.13	4747.95	-3.27	-4.70	-2.88	0.14	435420.38	655740.95	N 32 11 47.43	W 103 57 48.55
	4845.00	0.06	258.47	4844.96	-3.43	-4.78	-3.03	0.09	435420.30	655740.80	N 32 11 47.42	W 103 57 48.55
	4937.00	0.11	277.81	4936.96	-3.56	-4.78	-3.17	0.06	435420.30	655740.86	N 32 11 47.42	W 103 57 48.55
	5032.00	0.13	44.52	5031.98	-3.57	-4.89	-3.16	0.23	435420.39	655740.85	N 32 11 47.43	W 103 57 48.55
	5126.00	0.13	13.14	5125.96	-3.45	-4.81	-3.08	0.07	435420.57	655740.75	N 32 11 47.43	W 103 57 48.55
	5221.00	0.13	262.99	5220.98	-3.53	-4.42	-3.16	0.22	435420.66	655740.67	N 32 11 47.43	W 103 57 48.55
	5315.00	0.13	158.33	5314.96	-3.61	-4.53	-3.23	0.22	435420.55	655740.80	N 32 11 47.43	W 103 57 48.55
	5410.00	0.16	259.52	5409.96	-3.71	-4.86	-3.32	0.24	435420.42	655740.51	N 32 11 47.43	W 103 57 48.55
	5505.00	0.11	195.93	5504.98	-3.87	-4.77	-3.48	0.16	435420.31	655740.35	N 32 11 47.42	W 103 57 48.56
	5599.00	0.13	312.45	5598.98	-3.98	-4.78	-3.58	0.22	435420.35	655740.25	N 32 11 47.42	W 103 57 48.56
	5688.00	0.06	197.95	5687.98	-4.16	-4.73	-3.77	0.09	435420.29	655739.85	N 32 11 47.42	W 103 57 48.56
	5883.00	0.11	263.58	5882.96	-4.27	-4.79	-3.88	0.11	435420.22	655739.88	N 32 11 47.42	W 103 57 48.56
	5977.00	0.08	182.54	5976.98	-4.35	-4.86	-3.95	0.16	435420.16	655739.84	N 32 11 47.42	W 103 57 48.56
	6072.00	0.08	272.03	6071.98	-4.40	-4.92	-3.99	0.14	435420.16	655739.84	N 32 11 47.42	W 103 57 48.56
	6261.00	0.16	228.26	6260.98	-4.74	-5.09	-4.32	0.06	435419.99	655739.51	N 32 11 47.42	W 103 57 48.57
	6356.00	0.13	207.50	6355.98	-4.91	-5.28	-4.47	0.06	435419.80	655739.36	N 32 11 47.42	W 103 57 48.57
	6450.00	0.18	106.89	6449.96	-4.83	-5.42	-4.38	0.26	435419.66	655739.45	N 32 11 47.42	W 103 57 48.57
	6541.00	0.13	136.34	6540.95	-4.41	-5.86	-3.94	0.05	435419.42	655739.89	N 32 11 47.42	W 103 57 48.56
	6724.00	0.18	273.66	6723.96	-4.48	-5.72	-4.01	0.35	435419.36	655739.82	N 32 11 47.42	W 103 57 48.56
	6819.00	0.25	238.90	6818.96	-4.81	-5.82	-4.33	0.15	435419.26	655739.50	N 32 11 47.41	W 103 57 48.57
	7008.00	0.08	218.24	7007.98	-5.28	-6.13	-4.77	0.09	435418.95	655739.08	N 32 11 47.41	W 103 57 48.57
	7105.00	0.16	235.74	7104.96	-5.44	-6.26	-4.92	0.09	435418.85	655738.91	N 32 11 47.41	W 103 57 48.57
	7187.00	1.63	329.40	7186.95	-6.12	-6.21	-5.70	1.78	435419.87	655738.14	N 32 11 47.42	W 103 57 48.58
	7292.00	3.44	341.59	7291.85	-7.37	-1.34	-7.28	1.98	435420.74	655736.55	N 32 11 47.46	W 103 57 48.60
	7388.00	4.04	344.72	7385.85	-8.63	4.53	9.05	0.67	435420.81	655734.78	N 32 11 47.52	W 103 57 48.62
	7481.00	4.18	354.89	7480.41	-9.24	11.19	-10.24	0.77	435436.27	655733.60	N 32 11 47.58	W 103 57 48.63
	7670.00	4.06	359.34	7668.92	-8.78	24.71	-10.92	0.18	435449.79	655732.91	N 32 11 47.72	W 103 57 48.64
	7764.00	7.23	25.84	7762.47	-5.51	33.36	-8.38	4.28	435458.44	655735.45	N 32 11 47.80	W 103 57 48.81
	7859.00	10.39	30.26	7856.34	2.48	46.15	-1.46	3.40	435471.22	655742.37	N 32 11 47.93	W 103 57 48.53
	7953.00	13.29	25.76	7948.33	12.88	63.20	7.51	3.24	435488.28	655751.34	N 32 11 48.10	W 103 57 48.43
	8046.00	13.34	20.18	8040.78	23.08	83.32	16.03	1.36	435508.40	655759.86	N 32 11 48.30	W 103 57 48.33
	8143.00	13.67	18.99	8133.15	32.27	104.23	23.46	0.45	435529.30	655767.29	N 32 11 48.50	W 103 57 48.24
	8237.00	12.66	14.42	8224.68	40.17	124.71	29.64	1.54	435549.78	655773.47	N 32 11 48.70	W 103 57 48.17
	8332.00	12.25	12.54	8317.45	48.64	144.63	34.42	0.81	435569.70	655778.25	N 32 11 48.90	W 103 57 48.11
	8425.00	10.46	1.16	8408.84	50.48	162.70	36.74	3.07	435587.77	655780.57	N 32 11 49.08	W 103 57 48.08
	8521.00	10.55	392.84	8503.03	51.06	180.14	35.82	1.58	435605.20	655779.85	N 32 11 49.25	W 103 57 48.09
	8615.00	11.12	347.80	8595.36	49.53	197.53	32.80	1.21	435622.59	655776.63	N 32 11 49.43	W 103 57 48.13
	8710.00	12.63	338.30	8688.33	45.51	216.19	27.16	2.40	435641.26	655770.99	N 32 11 49.81	W 103 57 48.10
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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	OLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	9087.00	13.67	322.78	9053.39	2.27	295.28	-23.00	1.86	425720.32	665720.83	N 32 11 50.39	W 103 57 48.77
	9272.00	12.91	320.90	9233.44	-21.04	328.71	-49.26	0.47	435753.76	655894.58	N 32 11 50.73	W 103 57 49.08
	9443.00	11.53	327.08	9400.57	-39.81	357.88	-70.59	1.11	435782.93	655873.24	N 32 11 51.02	W 103 57 49.32
	9538.00	18.21	14.25	9492.84	-38.40	380.34	-72.11	13.99	435805.38	655871.73	N 32 11 51.24	W 103 57 49.34
	9633.00	27.72	44.94	9580.32	-17.52	410.54	-52.74	15.80	435835.59	655861.10	N 32 11 51.54	W 103 57 49.11
	9728.00	32.12	41.22	9662.64	17.59	445.19	-20.47	5.02	435870.24	655723.36	N 32 11 51.88	W 103 57 48.74
	9823.00	39.74	46.84	9739.53	59.70	485.03	18.39	8.73	435910.08	655762.22	N 32 11 52.27	W 103 57 48.28
	9918.00	50.23	58.59	9806.75	116.47	525.01	71.95	14.05	435950.05	655815.77	N 32 11 52.66	W 103 57 47.66
	10013.00	59.20	67.23	9861.63	188.21	559.95	140.95	12.00	435984.88	655884.77	N 32 11 53.01	W 103 57 46.85
	10108.00	69.52	73.77	9902.72	270.97	588.28	221.59	12.50	436013.31	655985.40	N 32 11 53.29	W 103 57 45.91
	10203.00	77.29	79.79	9928.88	360.95	608.98	310.12	10.18	436034.01	656053.93	N 32 11 53.48	W 103 57 44.88
	10298.00	78.01	82.61	9950.18	453.52	623.17	401.82	3.00	436048.20	656145.62	N 32 11 53.62	W 103 57 43.81
	10393.00	79.04	86.84	9989.08	546.60	631.72	494.51	4.50	436056.75	656238.30	N 32 11 53.71	W 103 57 42.74
	10488.00	84.04	91.32	9983.07	640.28	633.20	588.41	7.03	436058.23	656332.19	N 32 11 53.72	W 103 57 41.64
	10583.00	86.53	92.73	9990.88	734.26	629.86	683.02	3.01	436054.89	656426.79	N 32 11 53.68	W 103 57 40.54
	10685.00	89.42	90.70	9994.83	845.43	626.51	794.88	3.15	436051.54	656538.05	N 32 11 53.64	W 103 57 39.24
	10790.00	90.55	89.96	9994.86	940.03	625.95	888.68	1.42	436050.99	656633.64	N 32 11 53.64	W 103 57 38.13
	10885.00	89.86	89.70	9994.52	1034.71	626.24	984.87	0.78	436051.27	656728.63	N 32 11 53.63	W 103 57 37.03
	10980.00	89.52	89.44	9995.03	1129.42	626.96	1079.87	0.45	436051.99	656823.61	N 32 11 53.64	W 103 57 35.92
	11075.00	88.73	89.56	9996.48	1224.13	627.79	1174.85	0.84	436052.82	656918.59	N 32 11 53.64	W 103 57 34.82
	11285.00	88.59	90.65	10000.93	1413.35	627.44	1364.80	0.58	436052.47	657108.52	N 32 11 53.63	W 103 57 32.61
	11380.00	88.07	90.38	10002.87	1507.91	626.58	1459.77	0.58	436051.61	657203.49	N 32 11 53.62	W 103 57 31.50
	11455.00	89.04	89.70	10004.43	1602.54	626.52	1554.76	0.72	436051.55	657298.47	N 32 11 53.62	W 103 57 30.40
	11550.00	89.07	89.55	10008.00	1697.23	627.14	1649.75	0.16	436052.17	657393.45	N 32 11 53.62	W 103 57 29.29
	11645.00	89.04	89.47	10007.57	1791.94	627.95	1744.73	0.09	436052.88	657488.42	N 32 11 53.63	W 103 57 28.19
	11740.00	89.00	89.66	10009.19	1886.64	628.67	1838.71	0.20	436053.70	657583.40	N 32 11 53.63	W 103 57 27.08
	11835.00	89.11	89.46	10010.76	1981.34	629.40	1934.70	0.24	436054.43	657678.38	N 32 11 53.63	W 103 57 25.98
	11930.00	89.04	89.83	10012.29	2076.03	629.98	2029.68	0.40	436055.02	657773.35	N 32 11 53.64	W 103 57 24.87
	12025.00	89.14	89.21	10013.80	2170.73	630.79	2124.87	0.86	436055.82	657868.33	N 32 11 53.64	W 103 57 23.76
	12120.00	89.00	90.04	10015.34	2265.42	631.41	2219.85	0.89	436056.44	657963.31	N 32 11 53.64	W 103 57 22.66
	12215.00	89.68	89.68	10017.08	2360.08	632.08	2314.84	0.38	436056.99	658058.28	N 32 11 53.64	W 103 57 21.55
	12310.00	89.38	90.86	10018.34	2454.89	631.19	2409.82	1.30	436056.22	658153.27	N 32 11 53.63	W 103 57 20.45
	12405.00	89.28	89.41	10019.45	2549.31	630.97	2504.61	1.53	436056.00	658248.25	N 32 11 53.63	W 103 57 19.34
	12500.00	89.04	89.87	10020.85	2644.00	631.57	2599.60	0.55	436056.80	658343.23	N 32 11 53.63	W 103 57 18.24
	12595.00	88.76	87.75	10022.67	2738.78	633.54	2694.56	2.25	436056.57	658438.18	N 32 11 53.62	W 103 57 17.13
	12690.00	89.31	88.30	10024.27	2833.65	636.81	2789.49	0.82	436056.84	658533.10	N 32 11 53.68	W 103 57 16.03
	12785.00	88.59	89.59	10026.01	2928.41	636.56	2884.45	1.55	436061.59	658628.06	N 32 11 53.69	W 103 57 14.92
	12880.00	89.21	89.19	10027.84	3023.13	639.57	2979.43	0.78	436064.80	658723.03	N 32 11 53.70	W 103 57 13.82
	12975.00	89.00	92.22	10029.32	3117.65	638.40	3074.40	3.20	436063.43	658817.99	N 32 11 53.68	W 103 57 12.71
	13070.00	88.97	90.64	10031.00	3212.06	636.03	3169.35	1.66	436061.06	658912.94	N 32 11 53.66	W 103 57 11.61
	13165.00	89.28	89.27	10032.45	3308.70	636.11	3264.34	1.48	436061.14	659007.91	N 32 11 53.65	W 103 57 10.50
	13260.00	88.69	89.15	10034.14	3401.45	637.42	3359.31	0.83	436062.45	659102.88	N 32 11 53.66	W 103 57 9.40
	13355.00	87.49	89.30	10037.30	3496.15	638.70	3454.25	1.27	436063.73	659197.81	N 32 11 53.67	W 103 57 8.29
	13450.00	88.45	89.25	10040.67	3590.83	639.90	3549.18	1.01	436064.93	659292.74	N 32 11 53.68	W 103 57 7.19
	13545.00	88.31	89.96	10043.35	3685.50	640.58	3644.14	0.76	436065.59	659387.69	N 32 11 53.68	W 103 57 6.08
	13640.00	88.45	89.57	10048.04	3780.15	640.95	3739.10	0.44	436065.98	659482.64	N 32 11 53.68	W 103 57 4.98
	13735.00	89.00	89.91	10048.15	3874.82	641.78	3834.08	0.68	436066.41	659577.61	N 32 11 53.69	W 103 57 3.87
	13830.00	89.28	89.66	10049.58	3969.49	641.33	3929.07	0.40	436066.76	659672.59	N 32 11 53.69	W 103 57 2.77
	13925.00	88.45	90.41	10051.48	4064.12	641.88	4024.05	1.18	436066.71	659767.58	N 32 11 53.68	W 103 57 1.66
	14020.00	89.42	90.68	10053.23	4158.67	640.77	4119.02	1.06	436065.80	659862.53	N 32 11 53.67	W 103 57 0.58
	14115.00	87.18	88.32	10056.05	4253.34	641.80	4213.97	3.42	436066.63	659957.47	N 32 11 53.67	W 103 56 59.45
	14210.00	88.14	89.54	10059.92	4348.05	643.37	4308.87	1.63	436068.40	660052.36	N 32 11 53.69	W 103 56 58.35
	14305.00	88.25	88.78	10062.92	4442.76	644.76	4403.81	0.81	436068.79	660147.30	N 32 11 53.70	W 103 56 57.24
	14400.00	87.73	89.70	10066.25	4537.45	646.02	4498.74	1.11	436071.05	660242.22	N 32 11 53.71	W 103 56 56.14
	14495.00	87.70	88.71	10070.04	4632.13	647.34	4593.66	1.04	436072.37	660337.13	N 32 11 53.72	W 103 56 55.03
	14590.00	87.28	88.38	10074.24	4727.87	649.78	4689.53	0.56	436074.80	660433.00	N 32 11 53.74	W 103 56 53.92
	14685.00	87.90	89.87	10082.23	4817.23	652.67	4789.34	0.85	436077.70	660528.79	N 32 11 53.76	W 103 56 51.71
	14780.00	88.73	90.03	10089.02	5011.85	652.76	4874.29	0.89	436077.79	660617.74	N 32 11 53.76	W 103 56 50.60
	14875.00	88.80	89.42	10087.07	5106.52	653.21	4969.27	0.65	436078.24	660712.71	N 32 11 53.76	W 103 56 49.50
	14970.00	89.24	89.92	10088.70	5201.20	653.76	5064.25	0.70	436078.79	660807.68	N 32 11 53.76	W 103 56 48.39
	15065.00	89.62	90.18	10089.84	5295.84	653.98	5159.25	0.48	436078.71	660902.65	N 32 11 53.76	W 103 56 47.29
	15160.00	90.07	91.37	10089.90	5390.37	652.39	5254.24	1.34	436077.42	661097.65	N 32 11 53.74	W 103 56 46.18
	15255.00	89.83	91.58	10089.98	5484.79	649.95	5349.21	0.34	436074.98	661192.61	N 32 11 53.71	W 103 56 45.08
	15350.00	89.24	89.80	10090.75	5579.33	648.80	5444.19	1.97	436073.83	661287.59	N 32 11 53.70	W 103 56 43.97
	15445.00	89.42	91.27	10091.86	5673.89	647.92	5539.18	1.56	436072.54	661382.57	N 32 11 53.69	W 103 56 42.86
	15540.00	89.09	93.54	10092.60	5768.12	645.93	5634.09	2.41	436068.96	661477.47	N 32 11 53.64	W 103 56 41.76
	15635.00	89.04	91.58	10093.65	5862.30	639.89	5729.08	2.17	436064.72	661572.36	N 32 11 53.60	W 103 56 40.66
	15730.00	89.31	90.62	10095.02	5956.77	637.86	5823.95	1.05	436062.89	661667.32	N 32 11 53.58	W 103 56 39.55
	15825.00	89.35	90.56	10096.13	6051.33	636.88	5918.94	0.08	436061.92	661762.30	N 32 11 53.56	W 103 56 38.45
	15920.00	89.83	91.93	10096.81	6145.78	634.82	6013.91	1.53	436059.85	661857.27	N 32 11 53.54	W 103 56 37.34
	16015.00	89.52	90.73	10097.35	6240.22	632.82	6108.88	1.30	436057.65	661952.23	N 32 11 53.51	W 103 56 36.24
	16110.00	89.21	90.08	10098.40	6334.62	632.42	6203.88	1.32	436055.45	662047.22	N 32 11 53.51	W 103 56 35.13
	16205.00	88.66	89.76	10100.17	6429.53	633.02	6298.86	0.84	436053.85	662142.19	N 32 11 53.51	W 103 56 34.02
	16300.00	89.00	89.54	10102.11	6524.21	633.60	6393.84	0.43	436056.63	662237.16	N 32 11 53.51	W 103 56 32.92
	16495.00	89.31	91.10	10103.51	6618.81	633.07	6488.82	1.67	436058.10	662332.14	N 32 11 53.51	W 103 56 31.81
	16590.00	88.83	90.22	10105.05	6713.							