

Drilling Services Division
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

30-015-44176

Well Reference:

21, 24S, 29E, Eddy NM
N 32.20533 W -103.99755

I, Roseleigh Taylor certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of September 21, 2017 through October 09, 2017, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 550.00 feet to a depth of 19901.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Oxy U.S.A Inc for the Cedar Canyon 21-22 Federal Com 32H Well (Original Hole) API No. 30-015-44176 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By
Roseleigh Taylor
FE

Roseleigh Taylor

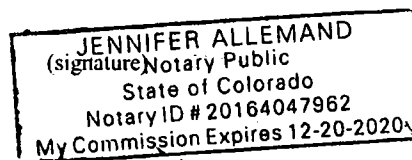
Subscribed and Sworn to before me this 20th day of October (month) 2017 (yr)

My Commission expires:

12-20-2020

J. Allemand
Notary Public

Adams County Colorado
(County State)



Oxy Cedar Canyon 21-22 Federal Com 32H Gyro+MWD 0-19,940' Survey

Geodetic Report

(Def Survey)



Report Date: October 09, 2017 - 09:04 AM Client: OXY Field: NM Eddy County (NAD 83) Structure / Slot: Oxy Cedar Canyon 21-22 Federal Com 32H / Oxy Cedar Canyon 21-22 Federal Com 32H Well: Oxy Cedar Canyon 21-22 Federal Com 32H Borehole: Original Borehole UW / API#: Unknown / Unknown Survey Name: Oxy Cedar Canyon 21-22 Federal Com 32H Gyro+MWD 0-19,940' Survey Date: September 19, 2017 Tort / AHD / DDI / ERD Ratio: 206.960' / 10538.478 ft / 6.639' / 1.056 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 12' 19.17479" W 103° 59' 51.17715" Location Grid N/E Y/X: N 438594.100 NUS, E 645194.200 NUS CRS Grid Convergence Angle: 0.1790 ° Grid Scale Factor: 0.99992144 Version / Patch: 2.10.544.0	Survey / DLS Computation: Minimum Curvature / Lubinski Vertical Section Azimuth: 89.338 ° (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB=26.5' TVD Reference Elevation: 2957.900 ft above MSL Seabed / Ground Elevation: 2931.400 ft above MSL Magnetic Declination: 7.156 ° Total Gravity Field Strength: 998.4677 mgn (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 48084.640 nT Magnetic Dip Angle: 60.009 ° Declination Date: September 19, 2017 Magnetic Declination Model: HDGM 2017 North Reference: Grid North Grid Convergence Used: 0.1790 ° Total Corr Mag North->Grid North: 6.9770 ° Local Coord Referenced To: Well Head	
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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (NUS)	Easting (NUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	438594.10	645194.20	N 32 12 19.17	W 103 59 51.18
Last Gyro	140.50	2.00	339.98	140.47	-0.81	2.30	-0.84	1.42	438596.40	645193.36	N 32 12 19.20	W 103 59 51.19
	201.50	1.70	356.98	201.44	-1.20	4.21	-1.25	1.02	438598.31	645192.95	N 32 12 19.22	W 103 59 51.19
	294.50	1.70	338.98	294.40	-1.74	8.87	-1.82	0.57	438600.97	645192.38	N 32 12 19.24	W 103 59 51.20
	325.50	0.40	323.98	325.39	-1.96	7.39	-2.05	4.25	438601.49	645192.15	N 32 12 19.25	W 103 59 51.20
	449.50	1.20	351.98	449.38	-2.38	9.03	-2.48	0.70	438603.12	645191.72	N 32 12 19.26	W 103 59 51.21
	550.00	0.94	320.33	549.86	-3.03	10.70	-3.16	0.63	438604.80	645191.04	N 32 12 19.28	W 103 59 51.21
	580.00	0.11	51.18	579.86	-3.16	10.91	-3.29	3.16	438605.01	645190.91	N 32 12 19.28	W 103 59 51.22
	671.00	0.17	244.26	670.88	-3.22	10.91	-3.34	0.31	438605.00	645190.86	N 32 12 19.28	W 103 59 51.22
	761.00	0.23	317.11	760.86	-3.46	10.98	-3.59	0.27	438605.08	645190.61	N 32 12 19.28	W 103 59 51.22
	850.00	0.20	64.93	849.86	-3.44	11.18	-3.57	0.39	438605.28	645190.63	N 32 12 19.29	W 103 59 51.22
	938.00	0.20	197.52	937.86	-3.35	11.10	-3.48	0.42	438605.19	645190.72	N 32 12 19.28	W 103 59 51.22
	1028.00	0.33	137.60	1027.86	-3.22	10.75	-3.35	0.32	438604.85	645190.85	N 32 12 19.28	W 103 59 51.22
	1119.00	0.17	237.66	1118.86	-3.16	10.49	-3.29	0.44	438604.59	645190.91	N 32 12 19.28	W 103 59 51.22
	1210.00	0.20	160.55	1209.86	-3.23	10.27	-3.35	0.25	438604.37	645190.85	N 32 12 19.28	W 103 59 51.22
	1301.00	0.13	51.78	1300.86	-3.09	10.18	-3.21	0.30	438604.28	645190.99	N 32 12 19.28	W 103 59 51.21
	1392.00	0.24	89.27	1391.86	-2.82	10.25	-2.94	0.17	438604.35	645191.26	N 32 12 19.28	W 103 59 51.21
	1518.00	0.28	354.36	1517.86	-2.59	10.56	-2.71	0.30	438604.66	645191.49	N 32 12 19.28	W 103 59 51.21
	1613.00	0.25	104.59	1612.86	-2.41	10.74	-2.53	0.46	438604.83	645191.67	N 32 12 19.28	W 103 59 51.21
	1708.00	0.20	137.09	1707.86	-2.09	10.56	-2.22	0.14	438604.66	645191.98	N 32 12 19.28	W 103 59 51.20
	1803.00	0.20	283.02	1802.86	-2.14	10.48	-2.26	0.40	438604.58	645191.94	N 32 12 19.28	W 103 59 51.20
	1898.00	0.20	181.10	1897.86	-2.31	10.35	-2.43	0.33	438604.45	645191.77	N 32 12 19.28	W 103 59 51.21
	1993.00	0.20	348.13	1992.86	-2.35	10.35	-2.47	0.42	438604.44	645191.73	N 32 12 19.28	W 103 59 51.21
	2088.00	0.20	289.94	2087.86	-2.53	10.56	-2.66	0.20	438604.66	645191.54	N 32 12 19.28	W 103 59 51.21
	2183.00	0.36	168.35	2182.86	-2.63	10.33	-2.75	0.52	438604.43	645191.45	N 32 12 19.28	W 103 59 51.21
	2373.00	0.25	32.61	2372.85	-2.29	10.09	-2.41	0.30	438604.19	645191.79	N 32 12 19.27	W 103 59 51.20
	2467.00	0.16	187.93	2466.85	-2.20	10.14	-2.32	0.43	438604.24	645191.88	N 32 12 19.28	W 103 59 51.20
	2605.00	0.13	283.15	2604.85	-2.38	9.98	-2.50	0.16	438604.08	645191.70	N 32 12 19.27	W 103 59 51.21
	2657.00	0.38	176.08	2656.85	-2.43	9.82	-2.54	0.84	438603.92	645191.66	N 32 12 19.27	W 103 59 51.21
	2847.00	0.20	273.24	2846.85	-2.72	9.21	-2.83	0.24	438603.31	645191.37	N 32 12 19.27	W 103 59 51.21
	2942.00	0.20	273.24	2941.85	-3.05	9.23	-3.16	0.00	438603.33	645191.04	N 32 12 19.27	W 103 59 51.21
	3037.00	0.20	108.25	3036.85	-3.06	9.19	-3.17	0.42	438603.29	645191.03	N 32 12 19.27	W 103 59 51.21
	3132.00	0.20	180.49	3131.85	-2.91	8.97	-3.01	0.25	438603.07	645191.19	N 32 12 19.26	W 103 59 51.21
	3226.00	0.16	75.01	3225.85	-2.78	8.84	-2.89	0.31	438602.94	645191.31	N 32 12 19.26	W 103 59 51.21
	3321.00	0.20	174.14	3320.85	-2.64	8.71	-2.74	0.29	438602.81	645191.46	N 32 12 19.26	W 103 59 51.21
	3416.00	0.25	107.96	3415.85	-2.43	8.48	-2.53	0.26	438602.58	645191.67	N 32 12 19.26	W 103 59 51.21
	3511.00	0.20	49.15	3510.85	-2.11	8.53	-2.20	0.24	438602.63	645192.00	N 32 12 19.26	W 103 59 51.20
	3606.00	0.16	287.15	3605.85	-2.11	8.67	-2.21	0.33	438602.77	645191.99	N 32 12 19.26	W 103 59 51.20
	3701.00	0.24	290.53	3700.85	-2.42	8.78	-2.52	0.09	438602.88	645191.68	N 32 12 19.26	W 103 59 51.21
	3795.00	0.20	312.17	3794.85	-2.72	8.96	-2.83	0.10	438603.06	645191.37	N 32 12 19.26	W 103 59 51.21
	3890.00	0.24	331.25	3889.85	-2.94	9.25	-3.04	0.09	438603.35	645191.16	N 32 12 19.27	W 103 59 51.21
3985.00	0.20	65.47	3984.85	-2.88	9.49	-2.99	0.34	438603.59	645191.21	N 32 12 19.27	W 103 59 51.21	
4080.00	0.24	51.78	4079.85	-2.57	9.68	-2.68	0.07	438603.78	645191.52	N 32 12 19.27	W 103 59 51.21	
4175.00	0.24	10.25	4174.84	-2.37	10.00	-2.49	0.18	438604.10	645191.71	N 32 12 19.27	W 103 59 51.21	
4365.00	0.24	241.17	4364.84	-2.65	10.20	-2.77	0.23	438604.30	645191.43	N 32 12 19.28	W 103 59 51.21	
4459.00	0.25	191.35	4458.84	-2.87	9.90	-2.98	0.22	438604.00	645191.22	N 32 12 19.27	W 103 59 51.21	
4554.00	0.20	332.92	4553.84	-2.98	9.85	-3.10	0.45	438603.95	645191.10	N 32 12 19.27	W 103 59 51.21	
4649.00	0.24	186.16	4648.84	-3.08	9.80	-3.19	0.44	438603.90	645191.01	N 32 12 19.27	W 103 59 51.21	
4839.00	0.20	165.46	4838.84	-3.05	9.08	-3.15	0.05	438603.18	645191.05	N 32 12 19.26	W 103 59 51.21	
4933.00	0.24	96.14	4932.84	-2.81	8.90	-2.92	0.27	438603.00	645191.28	N 32 12 19.26	W 103 59 51.21	
5028.00	0.20	142.94	5027.84	-2.52	8.75	-2.62	0.19	438602.85	645191.58	N 32 12 19.26	W 103 59 51.21	
5123.00	0.24	218.17	5122.84	-2.54	8.46	-2.64	0.28	438602.56	645191.56	N 32 12 19.26	W 103 59 51.21	
5218.00	0.24	343.70	5217.84	-2.72	8.49	-2.82	0.45	438602.59	645191.38	N 32 12 19.26	W 103 59 51.21	
5313.00	0.23	300.87	5312.84	-2.94	8.78	-3.04	0.18	438602.88	645191.16	N 32 12 19.26	W 103 59 51.21	
5413.00	0.16	52.35	5412.84	-3.00	8.97	-3.10	0.32	438603.07	645191.10	N 32 12 19.26	W 103 59 51.21	
5508.00	0.16	215.31	5507.84	-2.97	8.94	-3.07	0.33	438603.04	645191.13	N 32 12 19.26	W 103 59 51.21	
5603.00	0.16	357.66	5602.84	-3.05	8.97	-3.16	0.32	438603.07	645191.05	N 32 12 19.26	W 103 59 51.21	
5698.00	0.20	314.71	5697.84	-3.17	9.22	-3.28	0.14	438603.32	645190.92	N 32 12 19.27	W 103 59 51.21	
5793.00	0.20	227.75	5792.84	-3.41	9.22	-3.52	0.29	438603.32	645190.68	N 32 12 19.27	W 103 59 51.22	
5888.00	0.13	125.33	5887.84	-3.45	9.05	-3.55	0.27	438603.15	645190.65	N 32 12 19.26	W 103 59 51.22	
5982.00	0.24	122.32	5981.84	-3.20	8.88	-3.30	0.12	438602.98	645190.90	N 32 12 19.26	W 103 59 51.22	
6077.00	0.25	69.08	6076.84	-2.84	8.85	-2.94	0.23	438602.95	645191.26	N 32 12 19.26	W 103 59 51.21	
6172.00	0.17	185.81	6171.84	-2.66	8.78	-2.76	0.38	438602.88	645191.44	N 32 12 19.26	W 103 59 51.21	
6267.00	0.29	78.88	6266.83	-2.44	8.69	-2.54	0.40	438602.79	645191.66	N 32 12 19.26	W 103 59 51.21	
6457.00	0.28	148.86	6456.83	-1.73	8.39	-1.83	0.17	438602.48	645192.37	N 32 12 19.26	W 103 59 51.20	
6552.00	0.25	200.20	6551.83	-1.68	7.99	-1.78	0.24	438602.09	645192.42	N 32 12 19.25	W 103 59 51.20	
6646.00	0.60	145.23	6645.83	-1.48	7.40	-1.57	0.53	438601.50	645192.63	N 32 12 19.25	W 103 59 51.20	
6836.00	0.48	110.02	6835.82	-0.18	6.31	-0.25	0.18	438600.41	645193.95	N 32 12 19.24	W 103 59 51.18	
6931.00	0.45	118.55	6930.82	0.52	5.99	0.45	0.08	438600.09	645194.65	N 32 12 19.23	W 103 59 51.17	
7026.00	0.45	245.26	7025.82	0.50	5.66	0.44	0.85	438599.76	645194.64	N 32 12 19.23	W 103 59 51.17	
7121.00	0.96	267.77	7120.81	-0.63	5.47	-0.70	0.60	438599.57	645193.50	N 32 12 19.23	W 103 59 51.19	
7216.00	1.14	248.85	7215.79	-2.31	5.10	-2.37	0.41	438599.20	645191.83	N 32 12 19.23	W 103 59 51.20	
7310.00	1.03	250.96	7309.78	-3.99	4.48	-4.04	0.12	438598.58	645190.16	N 32 12 19.22	W 103 59 51.22	
7403.00	1.02	235.79	7402.76	-5.47	3.75	-5.52	0.29	438597.85	645188.66	N 32 12 19.21	W 103 59 51.24	
7498.00	0.83	243.98	7497.75	-6.80	2.97	-6.84	0.24	438597.07	645187.36	N 32 12 19.20	W 103 59 51.26	
7593.00	1.59	301.95	7592.73	-8.53	3.37	-8.57	1.42	438597.47	645185.63	N 32 12 19.21	W 103 59 51.28	
7688.00	3.17	321.25	7687.65	-11.26	6.11	-11.34	1.84	438600.21	645182.87	N 32 12 19.24	W 103 59 51.31	
7783.00	4.43	328.88	7782.44	-14.74								

Comments	Proj to TD	Survey Type:	Last Survey
7678.00	5.38	22.01	7687.00
7973.00	6.35	32.04	7973.00
8068.00	7.27	32.04	8068.00
8163.00	8.09	31.18	8163.00
8258.00	8.64	31.18	8258.00
8353.00	9.71	30.25	8353.00
8448.00	7.43	31.78	8448.00
8542.00	5.50	33.52	8542.00
8637.00	5.54	33.52	8637.00
8732.00	4.87	4.32	8732.00
8827.00	4.49	8.23	8827.00
8922.00	3.69	30.85	8922.00
9017.00	2.69	62.28	9017.00
9112.00	1.91	115.90	9112.00
9207.00	1.56	140.03	9207.00
9303.00	1.70	208.88	9303.00
9399.00	1.34	114.06	9399.00
9494.00	22.82	120.03	9494.00
9589.00	35.28	119.49	9589.00
9684.00	43.19	104.41	9684.00
9779.00	55.24	90.20	9779.00
9874.00	66.46	78.18	9874.00
9969.00	68.06	97.90	9969.00
10063.00	82.10	98.14	10063.00
10158.00	84.25	93.94	10158.00
10253.00	96.15	90.20	10253.00
10348.00	98.59	87.02	10348.00
10443.00	106.15	83.83	10443.00
10538.00	113.30	80.52	10538.00
10633.00	120.39	76.48	10633.00
10728.00	127.16	72.43	10728.00
10823.00	134.00	68.37	10823.00
10918.00	140.80	64.29	10918.00
11013.00	147.61	60.21	11013.00
11108.00	154.42	56.14	11108.00
11203.00	161.23	52.06	11203.00
11298.00	168.04	48.00	11298.00
11393.00	174.85	43.93	11393.00
11488.00	181.66	39.86	11488.00
11583.00	188.47	35.79	11583.00
11678.00	195.28	31.72	11678.00
11773.00	202.09	27.65	11773.00
11868.00	208.90	23.58	11868.00
11963.00	215.71	19.51	11963.00
12058.00	222.52	15.44	12058.00
12153.00	229.33	11.37	12153.00
12248.00	236.14	7.30	12248.00
12343.00	242.95	3.23	12343.00
12438.00	249.76	-0.84	12438.00
12533.00	256.57	-6.91	12533.00
12628.00	263.38	-12.98	12628.00
12723.00	270.19	-19.05	12723.00
12818.00	277.00	-25.12	12818.00
12913.00	283.81	-31.19	12913.00
13008.00	290.62	-37.26	13008.00
13103.00	297.43	-43.33	13103.00
13198.00	304.24	-49.40	13198.00
13293.00	311.05	-55.47	13293.00
13388.00	317.86	-61.54	13388.00
13483.00	324.67	-67.61	13483.00
13578.00	331.48	-73.68	13578.00
13673.00	338.29	-79.75	13673.00
13768.00	345.10	-85.82	13768.00
13863.00	351.91	-91.89	13863.00
13958.00	358.72	-97.96	13958.00
14053.00	365.53	-104.03	14053.00
14148.00	372.34	-110.10	14148.00
14243.00	379.15	-116.17	14243.00
14338.00	385.96	-122.24	14338.00
14433.00	392.77	-128.31	14433.00
14528.00	399.58	-134.38	14528.00
14623.00	406.39	-140.45	14623.00
14718.00	413.20	-146.52	14718.00
14813.00	420.01	-152.59	14813.00
14908.00	426.82	-158.66	14908.00
15003.00	433.63	-164.73	15003.00
15098.00	440.44	-170.80	15098.00
15193.00	447.25	-176.87	15193.00
15288.00	454.06	-182.94	15288.00
15383.00	460.87	-189.01	15383.00
15478.00	467.68	-195.08	15478.00
15573.00	474.49	-201.15	15573.00
15668.00	481.30	-207.22	15668.00
15763.00	488.11	-213.29	15763.00
15858.00	494.92	-219.36	15858.00
15953.00	501.73	-225.43	15953.00
16048.00	508.54	-231.50	16048.00
16143.00	515.35	-237.57	16143.00
16238.00	522.16	-243.64	16238.00
16333.00	528.97	-249.71	16333.00
16428.00	535.78	-255.78	16428.00
16523.00	542.59	-261.85	16523.00
16618.00	549.40	-267.92	16618.00
16713.00	556.21	-273.99	16713.00
16808.00	563.02	-280.06	16808.00
16903.00	569.83	-286.13	16903.00
17000.00	576.64	-292.20	17000.00
17095.00	583.45	-298.27	17095.00
17190.00	590.26	-304.34	17190.00
17285.00	597.07	-310.41	17285.00
17380.00	603.88	-316.48	17380.00
17475.00	610.69	-322.55	17475.00
17570.00	617.50	-328.62	17570.00
17665.00	624.31	-334.69	17665.00
17760.00	631.12	-340.76	17760.00
17855.00	637.93	-346.83	17855.00
17950.00	644.74	-352.90	17950.00
18045.00	651.55	-358.97	18045.00
18140.00	658.36	-365.04	18140.00
18235.00	665.17	-371.11	18235.00
18330.00	671.98	-377.18	18330.00
18425.00	678.79	-383.25	18425.00
18520.00	685.60	-389.32	18520.00
18615.00	692.41	-395.39	18615.00
18710.00	699.22	-401.46	18710.00
18805.00	706.03	-407.53	18805.00
18900.00	712.84	-413.60	18900.00
19000.00	719.65	-419.67	19000.00
19100.00	726.46	-425.74	19100.00
19200.00	733.27	-431.81	19200.00
19300.00	740.08	-437.88	19300.00
19400.00	746.89	-443.95	19400.00
19500.00	753.70	-450.02	19500.00
19600.00	760.51	-456.09	19600.00
19700.00	767.32	-462.16	19700.00
19800.00	774.13	-468.23	19800.00
19900.00	780.94	-474.30	19900.00
20000.00	787.75	-480.37	20000.00
20100.00	794.56	-486.44	20100.00
20200.00	801.37	-492.51	20200.00
20300.00	808.18	-498.58	20300.00
20400.00	814.99	-504.65	20400.00
20500.00	821.80	-510.72	20500.00
20600.00	828.61	-516.79	20600.00
20700.00	835.42	-522.86	20700.00
20800.00	842.23	-528.93	20800.00
20900.00	849.04	-535.00	20900.00
21000.00	855.85	-541.07	21000.00
21100.00	862.66	-547.14	21100.00
21200.00	869.47	-553.21	21200.00
21300.00	876.28	-559.28	21300.00
21400.00	883.09	-565.35	21400.00
21500.00	889.90	-571.42	21500.00
21600.00	896.71	-577.49	21600.00
21700.00	903.52	-583.56	21700.00
21800.00	910.33	-589.63	21800.00
21900.00	917.14	-595.70	21900.00
22000.00	923.95	-601.77	22000.00
22100.00	930.76	-607.84	22100.00
22200.00	937.57	-613.91	22200.00
22300.00	944.38	-620.00	22300.00
22400.00	951.19	-626.07	22400.00
22500.00	958.00	-632.14	22500.00
22600.00	964.81	-638.21	22600.00
22700.00	971.62	-644.28	22700.00
22800.00	978.43	-650.35	22800.00
22900.00	985.24	-656.42	22900.00
23000.00	992.05	-662.49	23000.00
23100.00	998.86	-668.56	23100.00
23200.00	1005.67	-674.63	23200.00
23300.00	1012.48	-680.70	23300.00
23400.00	1019.29	-686.77	23400.00
23500.00	1026.10	-692.84	23500.00
23600.00	1032.91	-698.91	23600.00
23700.00	1039.72	-704.98	23700.00
23800.00	1046.53	-711.05	23800.00
23900.00	1053.34	-717.12	23900.00
24000.00	1060.15	-723.19	24000.00
24100.00	1066.96	-729.26	24100.00
24200.00	1073.77	-735.33	24200.00
24300.00	1080.58	-741.40	24300.00
24400.00	1087.39	-747.47	24400.00
24500.00	1094.20	-753.54	24500.00
24600.00	1101.01	-759.61	24600.00
24700.00	1107.82	-765.68	24700.00
24800.00	1114.63	-771.75	24800.00
24900.00	1121.44	-777.82	24900.00
25000.00	1128.25	-783.89	25000.00
25100.00	1135.06	-789.96	25100.00
25200.00	1141.87	-796.03	25200.00
25300.00	1148.68	-802.10	25300.00
25400.00	1155.49	-808.17	25400.00
25500.00	1162.30	-814.24	25500.00
25600.00	1169.11	-820.31	25600.00
25700.00	1175.92	-826.38	25700.00
25800.00	1182.73	-832.45	25800.00
25900.00	1189.54	-838.52	25900.00
26000.00	1196.35	-844.59	26000.00
26100.00	1203.16	-850.66	26100.00
26200.00	1209.97	-856.73	26200.00
26300.00	1216.78	-862.80	26300.00
26400.00	1223.59	-868.87	26400.00
26500.00	1230.40	-874.94	26500.00
26600.00	1237.21	-881.01	26600.00
26700.00	1244.02	-887.08	26700.00
26800.00	1250.83	-893.15	26800.00
26900.00	1257.64	-899.22	26900.00
27000.00	1264.45	-905.29	27000.00
27100.00	1271.26	-911.36	27100.00
27200.00	1278.07	-917.43	27200.00
27300.00	1284.88	-923.50	27300.00
27400.00	1291.69	-929.57	27400.00
27500.00	1298.50	-935.64	27500.00
27600.00	1305.31	-941.71	27600.00
27700.00	1312.12	-947.78	27700.00
27800.00	1318.93	-953.85	27800.00
27900.00	1325.74	-959.92	27900.00
28000.00	1332.55	-965.99	28000.00
28100.00	1339.36	-972.06	28100.00
28200.00	1346.17	-978.13	28200.00
28300.00	1352.98	-984.20	28300.00
28400.00	1359.79	-990.27	28400.00
28500.00	1366.60	-996.34	28500.00
28600.00	1373.41	-1002.41	28600.00
28700.00	1380.22	-1008.48	28700.00
28800.00	1387.03	-1014.55	28800.00
28900.00	1393.84	-1020.62	28900.00
29000.00	1400.65	-1026.69	29000.00
29100.00	1407.46	-1032.76	29100.00
29200.00	1414.27	-1038.83	29200.00
29300.00	1421.08	-1044.90	29300.00
29400.00	1427.89	-1050.97	29400.00
29500.00	1434.70	-1057.04	29500.00
29600.00	1441.51	-1063.11	29600.00
29700.00	1448.32	-1069.18	29700.00
29800.00	1455.13	-1075.25	29800.00
29900.00	1461.94	-1081.32	29900.00
30000.00	1468.75	-1087.39	30000.00
30100.00	1475.56	-1093.46	30100.00
30200.00	1482.37	-1099.53	30200.00
30300.00	1489.18	-1105.60	30300.00
30400.00	1495.99	-1111.67	30400.00
30500.00	1502.80	-1117.74	30500.00
30600.00	1509.61	-1123.81	30600.00
30700.00	1516.42	-1129.88	30700.00
30800.00	1523.23	-1135.95	30800.00
30900.00	1530.04	-1142.02	30900.00
31000.00	1536.85	-1148.09	31000.00
31100.00	1543.66</		

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 ° ' ")
Survey Error Model: Survey Program:	ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma											
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	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Cedar Canyon 21-22 Federal Com 32H Gyro+MWD 0-19,940'				
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Cedar Canyon 21-22 Federal Com 32H Gyro+MWD 0-19,940'				
	1	26.500	449.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Cedar Canyon 21-22 Federal Com 32H				
	1	449.500	19940.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Cedar Canyon 21-22 Federal Com 32H				