

30-015-44945

Schlumberger

Oxy Salt Ridge CC 20-17 Federal Com 21H Gyro+MWD(IFR1) 0-16,277'
Survey Geodetic Report
(Def Survey)

Report Date: July 09, 2018 - 12:51 PM
Client: OXY
Field: NM Eddy County (NAO 83)
Structure / Slot: Oxy Salt Ridge CC 20-17 Federal Com 21H / Oxy Salt Ridge CC 20-17 Federal Com 21H
Well: Oxy Salt Ridge CC 20-17 Federal Com 21H
Borehole: Original Borehole
UWI / API: Unknown / 30-015-44945
Survey Name: Oxy Salt Ridge CC 20-17 Federal Com 21H Gyro+MWD(IFR1) 0-16,277'
Survey Date: June 22, 2018
Tort / AHD / DDI / ERD Ratio: 222 256' / 8763 847 ft / 8.569 / 1.026
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 13' 6.43705", W 104° 0' 39.34078"
Location Grid N/E Y/X: N 443357.320 ftUS, E 641041.850 ftUS
CRS Grid Convergence Angle: 0.1719°
Grid Scale Factor: 0.99992048
Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 186.385° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 2960.400 ft above MSL
Seabed / Ground Elevation: 2933.900 ft above MSL
Magnetic Declination: 7.111°
Total Gravity Field Strength: 998.4689mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47999.749 nT
Magnetic Dip Angle: 59.999°
Declination Date: June 22, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.1719°
Total Corr Mag North->Grid North: 6.9388°
Local Coord Referenced To: Well Head

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 30 2018

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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 ° ' '')
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	443357.32	641041.85	N 32 13 6.44 W 104	0 39 34
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	443357.32	641041.85	N 32 13 6.44 W 104	0 39 34
	112.50	0.22	287.08	112.50	-0.03	0.05	-0.16	0.26	443357.37	641041.69	N 32 13 6.44 W 104	0 39 34
	173.50	0.20	19.57	173.50	-0.16	0.18	-0.23	0.50	443357.50	641041.82	N 32 13 6.44 W 104	0 39 34
	235.50	0.31	19.28	235.50	-0.42	0.44	-0.14	0.18	443357.76	641041.71	N 32 13 6.44 W 104	0 39 34
	289.50	0.17	9.77	289.50	-0.65	0.60	-0.08	0.27	443357.88	641041.77	N 32 13 6.44 W 104	0 39 34
	352.50	0.16	76.71	352.50	-0.77	0.77	0.02	0.29	443358.00	641041.87	N 32 13 6.44 W 104	0 39 34
	415.50	0.18	41.23	415.50	-0.88	0.87	0.17	0.17	443358.19	641042.02	N 32 13 6.45 W 104	0 39 34
	478.50	0.14	339.45	478.50	-1.03	1.01	0.21	0.27	443358.33	641042.06	N 32 13 6.45 W 104	0 39 34
Latd Gyro	529.50	0.22	328.93	529.50	-1.18	1.10	0.14	0.17	443358.48	641041.99	N 32 13 6.45 W 104	0 39 34
	590.00	0.20	317.34	590.00	-1.33	1.33	0.01	0.08	443358.65	641041.88	N 32 13 6.45 W 104	0 39 34
	773.00	0.06	199.92	773.00	-1.44	1.48	-0.24	0.13	443358.80	641041.61	N 32 13 6.45 W 104	0 39 34
	862.00	0.08	122.05	862.00	-1.38	1.41	-0.22	0.08	443358.73	641041.63	N 32 13 6.45 W 104	0 39 34
	953.00	0.06	211.92	953.00	-1.31	1.34	-0.20	0.09	443358.68	641041.65	N 32 13 6.45 W 104	0 39 34
	1043.00	0.04	16.79	1043.00	-1.30	1.33	-0.22	0.11	443358.65	641041.63	N 32 13 6.45 W 104	0 39 34
	1133.00	0.05	272.47	1133.00	-1.33	1.37	-0.25	0.08	443358.69	641041.60	N 32 13 6.45 W 104	0 39 34
	1224.00	0.04	332.73	1224.00	-1.35	1.40	-0.30	0.05	443358.72	641041.55	N 32 13 6.45 W 104	0 39 34
	1318.00	0.04	50.58	1318.00	-1.40	1.44	-0.29	0.05	443358.76	641041.58	N 32 13 6.45 W 104	0 39 34
	1407.00	0.04	321.00	1407.00	-1.45	1.49	-0.29	0.06	443358.81	641041.56	N 32 13 6.45 W 104	0 39 34
	1502.00	0.03	194.14	1502.00	-1.45	1.49	-0.32	0.07	443358.81	641041.53	N 32 13 6.45 W 104	0 39 34
	1587.00	0.03	158.17	1587.00	-1.40	1.44	-0.31	0.02	443358.76	641041.54	N 32 13 6.45 W 104	0 39 34
	1691.00	0.08	37.21	1691.00	-1.43	1.47	-0.26	0.11	443358.79	641041.59	N 32 13 6.45 W 104	0 39 34
	1786.00	0.03	357.77	1786.00	-1.52	1.55	-0.23	0.06	443358.87	641041.82	N 32 13 6.45 W 104	0 39 34
	1881.00	0.10	278.92	1881.00	-1.54	1.59	-0.31	0.10	443358.91	641041.54	N 32 13 6.45 W 104	0 39 34
	1976.00	0.03	356.60	1976.00	-1.57	1.63	-0.39	0.10	443358.95	641041.46	N 32 13 6.45 W 104	0 39 35
	2071.00	0.04	21.51	2071.00	-1.63	1.68	-0.38	0.02	443359.00	641041.47	N 32 13 6.45 W 104	0 39 35
	2166.00	0.04	244.20	2166.00	-1.64	1.70	-0.40	0.08	443359.02	641041.45	N 32 13 6.45 W 104	0 39 35
	2261.00	0.08	26.98	2261.00	-1.69	1.74	-0.40	0.12	443359.06	641041.45	N 32 13 6.45 W 104	0 39 35
	2356.00	0.03	148.44	2356.00	-1.73	1.78	-0.35	0.10	443359.10	641041.50	N 32 13 6.45 W 104	0 39 34
	2451.00	0.05	100.87	2451.00	-1.70	1.74	-0.30	0.03	443359.06	641041.55	N 32 13 6.45 W 104	0 39 34
	2545.00	0.05	157.98	2545.00	-1.68	1.69	-0.24	0.04	443359.01	641041.61	N 32 13 6.45 W 104	0 39 34
	2640.00	0.04	170.73	2640.00	-1.59	1.62	-0.23	0.02	443358.94	641041.62	N 32 13 6.45 W 104	0 39 34
	2735.00	0.04	217.08	2735.00	-1.52	1.56	-0.25	0.03	443358.88	641041.60	N 32 13 6.45 W 104	0 39 34
	2830.00	0.04	36.78	2830.00	-1.53	1.58	-0.25	0.09	443358.88	641041.60	N 32 13 6.45 W 104	0 39 34
	2925.00	0.04	306.70	2925.00	-1.57	1.61	-0.25	0.06	443358.93	641041.60	N 32 13 6.45 W 104	0 39 34
	3020.00	0.04	126.41	3020.00	-1.57	1.61	-0.25	0.08	443358.93	641041.60	N 32 13 6.45 W 104	0 39 34
	3115.00	0.04	283.54	3115.00	-1.56	1.60	-0.26	0.08	443358.92	641041.59	N 32 13 6.45 W 104	0 39 34
	3210.00	0.04	21.74	3210.00	-1.59	1.64	-0.28	0.06	443358.98	641041.57	N 32 13 6.45 W 104	0 39 34
	3399.00	0.03	342.06	3399.00	-1.70	1.74	-0.27	0.01	443359.06	641041.58	N 32 13 6.45 W 104	0 39 34
	3494.00	0.04	146.43	3494.00	-1.70	1.74	-0.28	0.07	443359.06	641041.59	N 32 13 6.45 W 104	0 39 34
	3589.00	0.05	135.28	3589.00	-1.65	1.68	-0.21	0.01	443359.00	641041.64	N 32 13 6.45 W 104	0 39 34
	3779.00	0.05	41.86	3779.00	-1.60	1.60	-0.10	0.04	443359.01	641041.75	N 32 13 6.45 W 104	0 39 34
	3874.00	0.04	284.03	3874.00	-1.70	1.72	-0.10	0.08	443359.04	641041.75	N 32 13 6.45 W 104	0 39 34
	3969.00	0.05	187.48	3969.00	-1.67	1.69	-0.14	0.07	443359.01	641041.71	N 32 13 6.45 W 104	0 39 34
	4158.00	2.80	257.83	4157.92	-0.11	0.84	-4.66	1.47	443357.96	641037.19	N 32 13 6.44 W 104	0 39 40
	4348.00	5.33	257.46	4347.43	4.23	-2.26	-17.82	1.33	443355.06	641024.04	N 32 13 6.42 W 104	0 39 55
	4538.00	8.26	250.69	4536.07	11.69	-7.32	-39.72	1.54	443350.00	641002.14	N 32 13 6.37 W 104	0 39 80
	4633.00	9.40	254.11	4629.94	16.93	-11.01	-53.82	1.27	443348.31	640988.04	N 32 13 6.33 W 104	0 39 97
	4728.00	10.77	252.72	4723.47	23.43	-15.77	-69.70	1.46	443341.55	640972.10	N 32 13 6.28 W 104	0 40 15
	4823.00	12.09	251.34	4818.59	31.21	-21.59	-87.68	1.42	443335.73	640954.20	N 32 13 6.23 W 104	0 40 36
	4918.00	12.91	248.15	4909.34	40.44	-28.73	-106.94	1.13	443328.60	640934.92	N 32 13 6.16 W 104	0 40 59
	5013.00	13.94	246.53	5001.74	51.16	-37.23	-127.28	1.15	443320.09	640914.58	N 32 13 6.07 W 104	0 41 07
	5108.00	13.99	244.77	5093.93	62.88	-46.69	-148.17	0.45	443310.64	640893.70	N 32 13 5.98 W 104	0 41 17
	5297.00	13.72	241.80	5277.44	87.57	-67.02	-188.59	0.40	443290.31	640853.28	N 32 13 5.78 W 104	0 41 54
	5487.00	14.02	238.25	5461.90	114.54	-89.74	-228.04	0.46	443267.59	640813.83	N 32 13 5.56 W 104	0 42 00
	5676.00	14.01	236.85	5645.27	143.21	-114.28	-266.68	0.19	443243.07	640775.19	N 32 13 5.31 W 104	0 42 45
	5771.00	13.71	235.11	5737.51	157.98	-128.99	-285.54	0.54	443230.34	640758.33	N 32 13 5.19 W 104	0 42 67
	5866.00	13.82	235.85	5829.78	172.76	-139.80	-304.17	0.22	443217.53	640737.71	N 32 13 5.08 W 104	0 42 89
	6056.00	13.02	235.83	6014.24	202.37	-165.38	-341.85	0.05	443191.96	640700.02	N 32 13 4.81 W 104	0 43 33
	6151.00	14.02	236.51	6106.43	217.18	-178.14	-360.91	0.20	443179.19	640680.97	N 32 13 4.68 W 104	0 43 55
	6246.00	13.75	237.59	6198.65	231.83	-190.54	-380.03	0.39	443160.79	640661.85	N 32 13 4.56 W 104	0 43 77
	6341.00	13.86	240.03	6290.91	245.45	-202.28	-399.42	0.62	443155.06	640642.46	N 32 13 4.45 W 104	0 44 00
	6435.00	13.87	241.64	6382.17	258.54	-213.26	-419.09	0.41	443144.08	640622.79	N 32 13 4.34 W 104	0 44 23
	6530.00	13.93	243.18	6474.39	271.29	-223.82	-439.32	0.39	443133.51	640602.57	N 32 13 4.24 W 104	0 44 46
	6625.00	13.98	245.95	6566.59	283.37	-233.66	-460.00	0.71	443123.68	640581.89	N 32 13 4.14 W 104	0 44 70
	6720.00	13.85	248.24	6658.80	294.54	-242.55	-481.04	0.60	443114.79	640560.85	N 32 13 4.05 W 104	0 44 95
	6814.00	13.09	250.75	6750.21	304.48	-250.23	-501.54	1.02	443107.11	640540.35	N 32 13 3.88 W 104	0 45 19
	6909.00	13.26	248.14	6842.71	314.27	-257.84	-521.81	0.65	443099.50	640520.09	N 32 13 3.90 W 104	0 45 42
	7099.00	9.84	239.59	7028.85	334.31	-274.17	-550.05	2.01	443083.17	640485.85	N 32 13 3.74 W 104	0 45 82
	7184.00	9.94	241.11	7122.44	343.91	-282.24	-570.22	0.29	443075.10	640471.67	N 32 13 3.66 W 104	0 45 99

...Original Borehole/Oxy Salt Ridge CC 20-17 Federal Com 21H Gyro+MWD(IFR1) 0-16,277'

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ° ' '')	Longitude (E/W ° ° ' '')
	7289.00	10.02	230.91	7216.01	353.90	-290.72	-604.33	0.77	443068.03	640457.57	N 32 13 3.58 W 104	0 48 15
	7384.00	11.71	238.51	7309.30	365.07	-300.27	-599.47	1.81	443057.08	640442.42	N 32 13 3.48 W 104	0 48 33
	7479.00	12.77	237.88	7402.14	377.53	-310.88	-610.59	1.12	443040.46	640425.31	N 32 13 3.28 W 104	0 49 53
	7573.00	11.80	235.33	7493.99	390.31	-321.88	-633.29	1.18	443035.47	640408.81	N 32 13 3.27 W 104	0 48 72
	7668.00	12.25	237.21	7586.90	403.06	-332.80	-649.75	0.63	443024.49	640392.15	N 32 13 3.18 W 104	0 49 82
	7763.00	11.01	243.92	7670.95	414.29	-342.31	-666.38	1.93	443015.04	640375.53	N 32 13 3.07 W 104	0 47 11
	7858.00	10.17	251.45	7773.34	422.70	-348.90	-682.48	1.70	443008.39	640359.43	N 32 13 3.00 W 104	0 47 30
	7953.00	10.41	260.01	7866.82	428.57	-353.03	-698.90	1.74	443004.32	640343.01	N 32 13 2.96 W 104	0 47 49
	8131.00	16.86	264.93	8039.71	438.08	-357.64	-740.52	3.67	442999.41	640301.39	N 32 13 2.92 W 104	0 47 07
	8177.00	22.56	251.56	8083.02	443.11	-361.33	-755.55	15.73	442990.02	640286.36	N 32 13 2.88 W 104	0 48 15
	8272.00	30.54	224.69	8168.24	469.84	-384.37	-789.99	14.99	442972.98	640251.92	N 32 13 2.66 W 104	0 48 55
	8367.00	37.40	202.65	8247.28	510.71	-428.37	-818.22	14.74	442928.98	640223.70	N 32 13 2.22 W 104	0 48 88
	8462.00	48.65	191.20	8317.88	579.05	-489.10	-836.10	12.61	442868.26	640205.81	N 32 13 1.62 W 104	0 49 09
	8557.00	53.29	187.89	8378.95	651.03	-560.80	-848.08	7.48	442796.57	640193.80	N 32 13 0.91 W 104	0 49 23
	8652.00	54.83	185.89	8434.71	728.54	-637.15	-857.27	2.35	442720.22	640184.65	N 32 13 0.16 W 104	0 49 34
	8747.00	69.88	181.41	8478.69	812.31	-720.89	-862.38	16.38	442636.50	640179.54	N 32 12 59.33 W 104	0 49 40
	8842.00	71.09	177.62	8509.72	901.43	-810.64	-861.60	4.38	442546.75	640180.32	N 32 12 58.44 W 104	0 49 40
	8937.00	85.56	182.05	8528.18	993.77	-903.58	-861.42	14.99	442453.82	640180.50	N 32 12 57.52 W 104	0 49 40
	9031.00	92.73	184.75	8529.68	1087.56	-997.33	-866.93	8.15	442360.07	640174.93	N 32 12 56.59 W 104	0 49 47
	9056.00	92.92	184.76	8528.35	1112.52	-1022.21	-869.06	0.78	442335.19	640172.86	N 32 12 56.35 W 104	0 49 49
	9151.00	91.65	185.07	8524.57	1207.41	-1116.79	-877.20	1.38	442240.62	640164.73	N 32 12 55.41 W 104	0 49 59
	9246.00	89.65	185.40	8523.49	1302.38	-1211.38	-885.86	2.13	442146.04	640158.06	N 32 12 54.48 W 104	0 49 09
	9341.00	88.93	185.49	8524.66	1397.36	-1305.94	-894.88	0.76	442051.48	640147.05	N 32 12 53.54 W 104	0 49 80
	9436.00	88.06	184.69	8526.41	1492.32	-1400.55	-903.30	0.84	441958.88	640138.02	N 32 12 52.61 W 104	0 49 80
	9531.00	89.24	183.19	8527.91	1587.22	-1495.31	-909.83	1.61	441862.13	640132.09	N 32 12 51.67 W 104	0 49 88
	9628.00	89.69	183.29	8529.79	1682.07	-1580.18	-915.20	0.49	441767.29	640126.73	N 32 12 50.73 W 104	0 50 05
	9721.00	89.24	181.20	8529.68	1778.82	-1685.07	-918.82	2.25	441672.38	640123.01	N 32 12 49.79 W 104	0 50 10
	9816.00	89.07	179.30	8531.08	1871.26	-1780.06	-919.33	2.01	441577.41	640122.59	N 32 12 48.85 W 104	0 50 10
	9911.00	89.27	178.36	8532.40	1965.18	-1874.97	-915.74	3.10	441482.50	640126.19	N 32 12 47.91 W 104	0 50 06
	10005.00	88.48	178.82	8534.30	2057.79	-1968.79	-910.15	0.97	441388.70	640131.78	N 32 12 46.98 W 104	0 50 00
	10100.00	88.85	178.10	8536.68	2151.61	-2063.60	-905.94	1.36	441293.83	640135.98	N 32 12 46.04 W 104	0 49 56
	10194.00	88.41	179.82	8539.09	2244.70	-2157.81	-904.23	1.85	441199.89	640137.69	N 32 12 45.11 W 104	0 49 94
	10289.00	88.79	180.52	8541.42	2339.20	-2252.58	-904.52	0.84	441104.92	640137.41	N 32 12 44.17 W 104	0 49 95
	10384.00	89.79	181.23	8542.59	2433.75	-2347.58	-905.97	1.29	441009.95	640135.98	N 32 12 43.23 W 104	0 49 07
	10479.00	90.10	180.61	8542.68	2528.32	-2442.55	-907.49	0.73	440914.97	640134.43	N 32 12 42.29 W 104	0 49 09
	10574.00	89.89	181.97	8542.69	2622.94	-2537.52	-909.03	1.45	440820.01	640132.29	N 32 12 41.35 W 104	0 50 02
	10668.00	90.55	179.01	8542.33	2718.43	-2631.51	-910.43	3.23	440729.03	640131.49	N 32 12 40.42 W 104	0 50 03
	10763.00	90.34	178.72	8541.59	2810.38	-2726.43	-906.90	2.42	440631.11	640131.49	N 32 12 39.49 W 104	0 49 99
	10858.00	89.65	175.96	8541.60	2903.92	-2821.24	-900.83	1.08	440536.31	640141.09	N 32 12 38.55 W 104	0 49 02
	10953.00	89.93	175.72	8541.95	2997.31	-2915.98	-893.94	0.39	440441.57	640147.89	N 32 12 37.61 W 104	0 48 85
	11047.00	89.82	179.24	8542.15	3090.16	-3009.88	-889.81	3.75	440347.69	640152.12	N 32 12 36.68 W 104	0 49 80
	11142.00	90.00	177.00	8542.30	3184.17	-3104.82	-886.69	2.37	440252.75	640155.23	N 32 12 35.74 W 104	0 49 77
	11237.00	89.89	178.31	8542.40	3278.07	-3199.74	-882.80	1.38	440157.04	640159.12	N 32 12 34.80 W 104	0 49 73
	11332.00	89.89	181.06	8542.58	3372.41	-3294.73	-882.28	2.89	440062.86	640159.12	N 32 12 33.88 W 104	0 49 72
	11427.00	89.88	180.45	8542.78	3466.95	-3389.72	-883.53	0.64	439967.89	640158.39	N 32 12 32.92 W 104	0 49 74
	11522.00	89.86	181.72	8542.02	3561.64	-3484.70	-885.33	1.34	439872.90	640150.59	N 32 12 31.98 W 104	0 49 77
	11617.00	90.00	180.74	8543.13	3656.10	-3579.68	-887.37	1.04	439777.93	640154.55	N 32 12 31.04 W 104	0 49 79
	11712.00	90.00	180.54	8543.13	3750.67	-3674.67	-889.49	0.11	439682.96	640152.43	N 32 12 29.18 W 104	0 49 82
	11807.00	90.17	181.20	8542.99	3845.20	-3769.67	-890.94	0.72	439587.96	640150.99	N 32 12 28.22 W 104	0 49 84
	11902.00	90.07	180.76	8542.79	3939.76	-3864.65	-892.56	0.47	439492.98	640149.38	N 32 12 27.28 W 104	0 49 87
	11997.00	89.65	180.49	8543.03	4034.34	-3959.64	-893.60	0.53	439398.00	640148.33	N 32 12 26.34 W 104	0 49 88
	12092.00	89.86	180.32	8543.43	4128.86	-4054.63	-894.27	0.28	439303.02	640147.05	N 32 12 25.40 W 104	0 49 89
	12187.00	90.07	180.17	8543.49	4223.34	-4149.63	-894.67	0.27	439208.03	640147.25	N 32 12 24.46 W 104	0 49 90
	12282.00	90.20	179.98	8543.27	4317.80	-4244.63	-894.78	0.28	439113.04	640147.14	N 32 12 23.52 W 104	0 49 91
	12377.00	89.89	180.17	8543.19	4412.22	-4339.63	-894.78	0.33	439018.05	640147.28	N 32 12 22.58 W 104	0 49 91
	12472.00	90.02	181.04	8542.77	4506.62	-4434.63	-894.66	1.43	438923.05	640146.49	N 32 12 21.64 W 104	0 49 92
	12567.00	90.00	179.58	8542.25	4601.11	-4529.62	-895.43	1.67	438828.07	640146.25	N 32 12 20.70 W 104	0 49 93
	12662.00	89.98	180.09	8542.29	4695.57	-4624.62	-895.94	0.54	438733.08	640145.98	N 32 12 19.77 W 104	0 49 93
	12757.00	89.96	180.82	8542.35	4788.95	-4719.62	-896.43	0.77	438638.09	640146.25	N 32 12 18.83 W 104	0 49 94
	12852.00	89.13	181.24	8542.20	4883.45	-4814.61	-896.93	0.48	438544.12	640145.50	N 32 12 17.89 W 104	0 49 96
	12947.00	89.96	180.51	8542.28	4978.03	-4909.60	-897.50	0.79	438449.12	640142.34	N 32 12 16.95 W 104	0 49 98
	13041.00	89.72	180.26	8542.47	5072.59	-5004.58	-898.13	0.36	438354.14	640142.79	N 32 12 16.01 W 104	0 50 00
	13136.00	90.07	180.14	8542.64	5167.07	-5099.58	-898.56	0.39	438259.15	640141.70	N 32 12 15.07 W 104	0 50 00
	13231.00	90.03	181.74	8542.56	5261.52	-5194.58	-899.11	1.68	438164.16	640139.01	N 32 12 14.13 W 104	0 50 02
	13326.00	90.07	181.19	8542.48	5356.08	-5289.57	-900.54	0.58	438069.19	640137.38	N 32 12 13.19 W 104	0 50 06
	13421.00	89.93	180.60	8542.48	5450.73	-5384.53	-901.00	0.64	437974.23	640135.80	N 32 12 12.25 W 104	0 50 08
	13516.00	90.07	179.00	8542.48	5545.30	-5479.52	-901.69	1.69	437879.24	640134.23	N 32 12 11.31 W 104	0 50 08
	13611.00	90.27	179.21	8542.20	5639.67	-5574.52	-902.27	0.31	437784.26	640132.65	N 32 12 10.37 W 104	0 50 06
	13706.00	89.89	178.45	8542.08	5733.90	-5669.51	-902.77	0.89	437689.28	640131.71	N 32 12 9.43 W 104	0 50 04
	13801.00	89.76	178.17	8542.35	5828.08	-5764.49	-903.44	0.32	437594.30	640130.65	N 32 12 8.49 W 104	0 50 01
	13896.00	90.00	178.97	8542.55	5922.13	-5859.44	-904.10	0.88	437499.35	640129.05	N 32 12 7.55 W 104	0 49 99
	13991.00	90.03	177.76	8542.53	5993.41	-5954.41	-904.39	1.27	437404.39	640127.45	N 32 12 6.61 W 104	0 49 96
	14086.00	89.72	178.68	8542.73	6064.37	-6049.37	-904.96	1.02	437309.44	640125.85	N 32 12 5.67 W 104	0 49 93
	14181.00	89.13	180.74	8542.86	6134.35	-6144.32	-905.96	2.21	437214.50	640124.25	N 32 12 4.73 W 104	0 49 93
	14276.00	89.79	179.35	8542.93	6204.35	-6214.32	-906.96	1.51	437119.51	640122.65	N 32 12 3.79 W 104	0 49 93
	14371.00	89.03	177.81	8543.16	6274.35	-6284.32	-907.96	1.52	437024.52	640121.05	N 32 12 2.85 W 104	0 49 91
	14466.00	89.82	177.58	8543.38								

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey				
	1	0.000	20.500	1/98.425	30.000	30.000	NAL_NSQ+MSHOT-Depth Only	Original Borehole / Ony Salt Ridge CC 20-17 Federal Com 21H Gyro+MWD(IFR1) 0-10,277'				
	1	20.500	20.500	Act Sins	30.000	30.000	NAL_NSQ+MSHOT-Depth Only	Original Borehole / Ony Salt Ridge CC 20-17 Federal Com 21H Gyro+MWD(IFR1) 0-10,277'				
	1	20.500	529.500	Act Sins	30.000	30.000	NAL_NSQ+MSHOT	Original Borehole / Ony Salt Ridge CC 20-17 Federal Com 21H				
	1	529.500	953.000	Act Sins	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Ony Salt Ridge CC 20-17 Federal Com 21H				
	1	953.000	16277.000	Act Sins	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Ony Salt Ridge CC 20-17 Federal Com 21H				

...Original Borehole\Oxy Salt Ridge CC 20-17 Federal Com 21H Gyro+MWD(IFR1) 0-10,277'

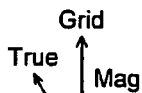
Schlumberger

OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Salt Ridge CC 20-17 Federal Com 21H	NM Eddy County (NAD 83)	Oxy Salt Ridge CC 20-17 Federal Com 21H

Gravity & Magnetic Parameters	Surface Location	Macellaneous
Model: HGG20 2010 MagDec: 7.111° Date: 23-Jun-2018 Gravity PS: 328.64m/s² (328.645 m/s²)	NAD83 New Mexico State Plane, Eastern Zone, US Feet Lat: N 33 13 8.44 Longitude: 107 35 17.12 Grid Corner: 8 1710' Scale Factor: 0.99997648	Oxy Salt Ridge CC 20-17 Federal Com 21H Rev3 Oxy Salt Ridge CC 20-17 Federal Com 21H Rev3 APS 30May18



Grid North
Tot Corr (M→G 6.939°)
Mag Dec (7.111°)
Grid Conv (0.172°)

