

30-015-44947

Schlumberger

Oxy Salt Ridge CC 20-17 Federal Com 23H Gyro+MWD(IFR1) 0-16,290'
Survey Geodetic Report
(Def Survey)



Report Date: July 13, 2018 - 04:25 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Salt Ridge CC 20-17 Federal Com 23H / Oxy Salt Ridge CC 20-17 Federal Com 23H
Well: Oxy Salt Ridge CC 20-17 Federal Com 23H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-44947
Survey Name: Oxy Salt Ridge CC 20-17 Federal Com 23H Gyro+MWD(IFR1) 0-16,290'
Survey Date: June 14, 2018
Tort / AHD / DDI / ERD Ratio: 260 544' / 8400 622 ft / 8 618 / 0.979
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 12' S 94° 32' W 104° 0' 38.76570"
Location Grid N/E V/X: N 443307.880 NUS, E 641091.400 IUS
CRS Grid Convergence Angle: 0.1720 °
Grid Scale Factor: 0.99992049
Version / Patch: 2 10 740 0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 177.427 ° (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: 7.112 °
Total Gravity Field Strength: 998.468mgm (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48002.286 nT
Magnetic Dip Angle: 59.999 °
Declination Date: June 14, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.1720 °
Total Corr Mag North->Grid North: 6.9404 °
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 (NUS)	Easting (EUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	443307.88	641091.40	N 32 13 59.5 W 104	0 38.77
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	443307.88	641091.40	N 32 13 59.5 W 104	0 38.77
	112.50	0.27	154.04	112.50	0.19	-0.18	0.09	0.31	443307.70	641091.49	N 32 13 59.4 W 104	0 38.76
	173.50	0.27	83.24	173.50	0.31	-0.29	0.29	0.51	443307.59	641091.69	N 32 13 59.4 W 104	0 38.78
	235.50	0.42	92.59	235.50	0.32	-0.29	0.67	0.26	443307.50	641092.07	N 32 13 59.4 W 104	0 38.76
	289.50	0.09	78.52	289.50	0.33	-0.29	0.01	0.62	443307.59	641092.31	N 32 13 59.4 W 104	0 38.76
	352.50	0.19	61.01	352.50	0.27	-0.23	1.05	0.17	443307.65	641092.45	N 32 13 59.4 W 104	0 38.75
	415.50	0.18	54.28	415.50	0.18	-0.13	1.21	0.08	443307.75	641092.61	N 32 13 59.5 W 104	0 38.75
	478.50	0.19	66.61	478.50	0.09	-0.03	1.38	0.08	443307.85	641092.78	N 32 13 59.5 W 104	0 38.75
Lad Gyro	529.50	0.28	73.53	529.50	0.03	0.04	1.57	0.18	443307.92	641092.97	N 32 13 59.5 W 104	0 38.75
	588.00	0.08	62.12	588.00	-0.02	0.10	1.75	0.35	443307.98	641093.15	N 32 13 59.5 W 104	0 38.75
	678.00	0.12	22.37	678.00	-0.13	0.21	1.84	0.09	443308.09	641093.24	N 32 13 59.5 W 104	0 38.74
	769.00	0.06	302.30	769.00	-0.24	0.33	1.83	0.14	443308.21	641093.23	N 32 13 59.5 W 104	0 38.74
	949.00	0.08	90.18	949.00	-0.29	0.38	1.88	0.07	443308.26	641093.28	N 32 13 59.5 W 104	0 38.74
	1040.00	0.08	145.71	1040.00	-0.23	0.32	1.98	0.08	443308.20	641093.38	N 32 13 59.5 W 104	0 38.74
	1222.00	0.06	265.80	1222.00	-0.12	0.21	1.96	0.07	443308.09	641093.36	N 32 13 59.5 W 104	0 38.74
	1318.00	0.06	342.34	1318.00	-0.17	0.28	1.89	0.08	443308.14	641093.29	N 32 13 59.5 W 104	0 38.74
	1412.00	0.06	268.47	1412.00	-0.22	0.30	1.83	0.08	443308.18	641093.23	N 32 13 59.5 W 104	0 38.74
	1507.00	0.08	285.47	1507.00	-0.24	0.32	1.71	0.03	443308.20	641093.11	N 32 13 59.5 W 104	0 38.75
	1602.00	0.06	187.74	1602.00	-0.21	0.29	1.64	0.11	443308.17	641093.04	N 32 13 59.5 W 104	0 38.75
	1697.00	0.08	354.06	1697.00	-0.23	0.30	1.63	0.15	443308.18	641093.03	N 32 13 59.5 W 104	0 38.75
	1792.00	0.11	35.57	1792.00	-0.37	0.44	1.68	0.08	443308.32	641093.08	N 32 13 59.5 W 104	0 38.75
	1982.00	0.13	356.96	1982.00	-0.73	0.81	1.77	0.04	443308.69	641093.17	N 32 13 59.5 W 104	0 38.75
	2077.00	0.06	335.42	2077.00	-0.88	0.98	1.74	0.08	443308.84	641093.14	N 32 13 59.6 W 104	0 38.75
	2171.00	0.06	342.28	2171.00	-0.97	1.05	1.71	0.01	443308.93	641093.11	N 32 13 59.6 W 104	0 38.75
	2281.00	0.06	112.28	2281.00	-1.03	1.11	1.77	0.06	443308.99	641093.17	N 32 13 59.6 W 104	0 38.75
	2450.00	0.08	56.55	2450.00	-1.04	1.13	1.87	0.07	443309.01	641093.27	N 32 13 59.6 W 104	0 38.74
	2551.00	0.00	228.39	2550.00	-1.07	1.16	1.93	0.08	443309.04	641093.33	N 32 13 59.6 W 104	0 38.74
	2640.00	0.05	14.36	2639.99	-1.11	1.20	1.94	0.06	443309.08	641093.34	N 32 13 59.6 W 104	0 38.74
	2735.00	0.05	231.76	2734.99	-1.13	1.21	1.91	0.10	443309.09	641093.31	N 32 13 59.6 W 104	0 38.74
	2830.00	0.05	300.62	2829.99	-1.13	1.21	1.85	0.06	443309.09	641093.25	N 32 13 59.6 W 104	0 38.74
	2925.00	0.03	206.44	2924.99	-1.13	1.21	1.80	0.06	443309.09	641093.20	N 32 13 59.6 W 104	0 38.74
	3020.00	0.05	45.87	3019.99	-1.13	1.22	1.82	0.08	443309.10	641093.22	N 32 13 59.6 W 104	0 38.74
	3114.00	0.05	163.54	3113.99	-1.12	1.20	1.88	0.09	443309.08	641093.26	N 32 13 59.6 W 104	0 38.74
	3209.00	0.05	260.01	3208.99	-1.07	1.16	1.83	0.08	443309.04	641093.23	N 32 13 59.6 W 104	0 38.74
	3304.00	0.05	22.84	3303.99	-1.11	1.19	1.81	0.09	443309.07	641093.21	N 32 13 59.6 W 104	0 38.74
	3399.00	0.05	284.63	3398.99	-1.16	1.24	1.78	0.08	443309.12	641093.18	N 32 13 59.6 W 104	0 38.74
	3494.00	0.05	135.81	3493.99	-1.14	1.22	1.77	0.10	443309.10	641093.17	N 32 13 59.6 W 104	0 38.75
	3684.00	0.03	228.63	3683.99	-1.04	1.13	1.79	0.03	443309.01	641093.19	N 32 13 59.6 W 104	0 38.74
	3874.00	0.10	228.85	3873.99	-0.91	0.98	1.63	0.04	443308.86	641093.03	N 32 13 59.6 W 104	0 38.75
	3969.00	0.05	238.41	3968.99	-0.84	0.91	1.63	0.05	443308.79	641092.93	N 32 13 59.6 W 104	0 38.75
	4158.00	1.08	174.46	4157.99	0.98	-0.91	1.63	0.56	443306.97	641093.03	N 32 13 59.4 W 104	0 38.75
	4348.00	3.63	167.35	4347.81	8.63	-8.56	3.12	1.35	443299.32	641094.52	N 32 13 59.8 W 104	0 38.73
	4538.00	5.85	162.70	4537.15	23.98	-23.68	7.32	1.18	443284.21	641098.72	N 32 13 57.1 W 104	0 38.68
	4633.00	6.79	154.65	4631.57	33.84	-33.37	11.10	1.36	443274.51	641102.56	N 32 13 56.2 W 104	0 38.64
	4823.00	0.95	144.89	4820.21	53.89	-52.03	22.59	0.62	443254.96	641113.98	N 32 13 54.2 W 104	0 38.50
	4918.00	6.76	141.47	4914.53	63.26	-62.00	29.37	0.47	443245.88	641120.77	N 32 13 53.3 W 104	0 38.43
	5108.00	6.74	135.08	5103.22	80.55	-78.65	44.21	0.40	443229.24	641135.61	N 32 13 51.7 W 104	0 38.25
	5297.00	6.37	126.42	5290.99	95.35	-92.73	60.48	0.50	443215.16	641151.88	N 32 13 50.3 W 104	0 38.08
	5486.00	6.90	113.84	5478.73	107.00	-103.54	78.30	0.82	443204.35	641170.70	N 32 13 49.2 W 104	0 37.85
	5676.00	6.82	105.49	5667.38	115.57	-111.17	100.62	0.53	443196.72	641192.01	N 32 13 48.4 W 104	0 37.60
	5866.00	6.87	107.07	5858.02	122.89	-117.52	122.35	0.10	443190.37	641213.74	N 32 13 47.8 W 104	0 37.35
	5961.00	6.64	113.10	5950.36	127.18	-121.34	132.83	0.78	443186.55	641224.22	N 32 13 47.4 W 104	0 37.22
	6151.00	6.75	125.94	6139.08	138.89	-132.20	151.98	0.79	443175.69	641243.37	N 32 13 46.3 W 104	0 37.00
	6246.00	6.43	133.35	6233.45	148.19	-139.13	160.37	0.96	443168.76	641251.76	N 32 13 45.6 W 104	0 36.90
	6340.00	6.63	140.20	6326.84	154.29	-146.91	167.67	0.88	443160.98	641259.08	N 32 13 44.0 W 104	0 36.82
	6435.00	6.44	149.63	6421.23	163.37	-155.72	173.87	1.15	443152.17	641265.26	N 32 13 44.0 W 104	0 36.75
	6530.00	6.51	158.48	6515.63	173.18	-165.33	178.54	1.05	443142.56	641269.93	N 32 13 43.1 W 104	0 36.69
	6710.00	6.84	163.50	6703.33	194.40	-188.25	185.72	0.39	443121.65	641277.10	N 32 13 41.0 W 104	0 36.61
	6814.00	6.37	156.18	6797.69	204.88	-198.57	189.47	1.07	443111.33	641280.86	N 32 13 40.0 W 104	0 36.57
	7004.00	4.22	156.60	6988.87	221.24	-212.63	196.51	1.13	443095.27	641287.89	N 32 13 38.4 W 104	0 36.49
	7099.00	5.64	156.09	7081.51	228.85	-220.11	199.79	1.50	443087.70	641291.17	N 32 13 37.6 W 104	0 36.45
	7193.00	5.70	157.46	7175.05	237.54	-228.64	203.45	0.16	443079.20	641294.83	N 32 13 36.8 W 104	0 36.41
	7289.00	3.21	164.54	7270.75	244.64	-235.64	205.89	2.65	443072.26	641297.38	N 32 13 36.1 W 104	0 36.38
	7383.00	3.72	184.65	7364.58	250.18	-241.11	207.50	0.54	443066.79	641298.89	N 32 13 35.5 W 104	0 36.36
	7478.00	4.44	153.44	7459.34	256.55	-247.37	209.96	1.13	443060.53	641301.35	N 32 13 34.9 W 104	0 36.33
	7573.00	5.55	138.75	7553.98	263.50	-254.12	214.64	1.77	443053.78	641306.02	N 32 13 34.3 W 104	0 36.28
	7668.00	5.47	125.55	7648.55	269.88	-260.20	221.35	1.33	443047.70	641312.73	N 32 13 33.6 W 104	0 36.20
	7858.00	6.22	69.52	7837.70	272.31	-261.87	238.37	2.91	443046.03	641329.76	N 32 13 33.5 W 104	0 36.00
	7910.00	6.05	58.95	7889.41	270.05	-259.39	243.31	2.60	443048.51	641334.69	N 32 13 33.7 W 104	0 35.94

...Original Borehole/Oxy Salt Ridge CC 20-17 Federal Com 23H Gyro+MWD(IFR1) 0-16,290'

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	OLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	8084.00	13.62	95.22	8060.88	268.17	-258.24	271.46	5.53	443051.66	641362.84	N 32 13 3.40 W 104	0 35.61
	8179.00	28.93	122.08	8149.33	282.67	-269.57	302.32	16.72	443038.33	641393.70	N 32 13 3.27 W 104	0 35.26
	8274.00	37.32	147.65	8229.20	321.19	-308.35	337.43	16.99	443001.56	641428.80	N 32 13 2.90 W 104	0 34.85
	8369.00	44.70	173.81	8301.34	380.08	-384.44	356.62	19.50	442943.47	641447.99	N 32 13 2.33 W 104	0 34.63
	8464.00	48.27	183.94	8356.80	446.79	-433.17	357.79	8.57	442874.75	641449.10	N 32 13 1.65 W 104	0 34.62
	8559.00	40.92	160.04	8430.67	518.09	-503.25	355.33	3.35	442804.67	641448.70	N 32 13 0.96 W 104	0 34.65
	8654.00	57.76	182.93	8488.82	593.58	-578.31	353.24	11.68	442729.62	641444.61	N 32 13 0.21 W 104	0 34.67
	8749.00	70.07	185.29	8530.50	678.15	-663.24	347.05	13.13	442644.69	641438.42	N 32 12 59.37 W 104	0 34.75
	8844.00	76.40	181.30	8557.90	768.58	-753.99	341.88	7.78	442553.95	641433.25	N 32 12 58.48 W 104	0 34.81
	8938.00	85.78	175.09	8572.46	861.28	-848.66	344.67	11.93	442481.29	641436.24	N 32 12 57.56 W 104	0 34.78
	9011.00	92.35	173.14	8573.65	934.11	-919.22	352.36	9.38	442388.74	641433.73	N 32 12 56.84 W 104	0 34.70
	9050.00	93.48	172.02	8571.67	972.92	-957.84	357.38	4.08	442350.12	641448.70	N 32 12 56.46 W 104	0 34.64
	9145.00	91.48	173.06	8567.56	1067.48	-1051.04	369.71	2.37	442256.02	641481.08	N 32 12 55.53 W 104	0 34.50
	9240.00	88.21	174.55	8567.81	1162.27	-1140.37	378.98	3.78	442181.60	641471.33	N 32 12 54.59 W 104	0 34.38
	9335.00	88.52	178.68	8570.53	1257.20	-1241.15	385.56	4.36	442066.84	641476.93	N 32 12 53.65 W 104	0 34.32
	9430.00	88.73	177.69	8572.81	1352.17	-1326.07	388.57	1.06	441971.92	641479.94	N 32 12 52.71 W 104	0 34.29
	9525.00	88.76	178.20	8574.89	1447.14	-1430.98	391.98	0.54	441877.01	641483.34	N 32 12 51.77 W 104	0 34.25
	9620.00	88.80	179.64	8578.91	1542.08	-1525.94	393.77	1.52	441782.06	641485.13	N 32 12 50.84 W 104	0 34.24
	9715.00	88.94	178.43	8578.78	1637.00	-1620.92	394.54	0.27	441687.09	641485.90	N 32 12 49.90 W 104	0 34.23
	9810.00	89.04	180.20	8580.46	1731.90	-1715.91	394.84	0.82	441592.11	641488.21	N 32 12 48.98 W 104	0 34.23
	9904.00	89.59	179.00	8581.58	1825.82	-1809.90	395.50	1.40	441498.13	641486.87	N 32 12 48.03 W 104	0 34.23
	9999.00	89.62	178.92	8582.24	1920.79	-1904.88	397.22	0.09	441403.16	641488.59	N 32 12 47.09 W 104	0 34.21
	10093.00	89.93	181.20	8582.00	2014.68	-1989.87	397.13	2.45	441309.17	641488.49	N 32 12 46.18 W 104	0 34.21
	10188.00	89.80	180.00	8582.83	2109.53	-2093.88	396.13	1.27	441214.19	641487.50	N 32 12 45.22 W 104	0 34.23
	10283.00	89.62	179.24	8583.31	2204.46	-2188.86	398.76	0.82	441119.20	641488.13	N 32 12 44.29 W 104	0 34.22
	10378.00	90.46	179.58	8583.25	2299.41	-2283.85	397.74	0.94	441024.21	641489.11	N 32 12 43.34 W 104	0 34.22
	10472.00	90.28	179.21	8582.65	2393.35	-2377.85	398.73	0.43	440930.23	641490.10	N 32 12 42.41 W 104	0 34.21
	10568.00	90.83	179.30	8580.81	2483.24	-2467.82	401.20	0.20	440740.27	641492.57	N 32 12 40.53 W 104	0 34.19
	10662.00	90.14	180.27	8580.01	2578.16	-2562.81	401.56	1.25	440645.28	641492.93	N 32 12 39.59 W 104	0 34.19
	10757.00	90.73	180.30	8579.29	2673.03	-2657.81	401.09	0.62	440550.30	641492.45	N 32 12 38.65 W 104	0 34.19
	10852.00	89.62	181.72	8578.94	2768.81	-2753.79	399.11	1.01	440438.33	641490.48	N 32 12 37.54 W 104	0 34.22
	11143.00	90.34	182.37	8579.01	3063.23	-3048.67	392.72	0.54	440259.48	641484.09	N 32 12 35.77 W 104	0 34.30
	11238.00	89.93	183.16	8578.78	3157.81	-3143.58	388.14	0.94	440184.58	641479.51	N 32 12 34.83 W 104	0 34.36
	11333.00	90.03	183.27	8578.82	3252.33	-3238.41	382.81	0.18	440069.73	641474.18	N 32 12 33.89 W 104	0 34.42
	11428.00	89.78	184.41	8578.99	3346.73	-3333.19	378.45	1.23	439974.96	641467.82	N 32 12 32.95 W 104	0 34.50
	11523.00	89.97	185.50	8579.21	3440.91	-3427.84	368.25	1.17	439880.32	641459.62	N 32 12 32.02 W 104	0 34.60
	11618.00	89.97	179.93	8579.26	3535.47	-3522.69	363.75	5.86	439785.47	641455.12	N 32 12 31.08 W 104	0 34.66
	11713.00	90.21	180.78	8579.11	3630.35	-3617.69	363.10	0.93	439690.48	641454.53	N 32 12 30.14 W 104	0 34.67
	11808.00	90.27	180.53	8578.72	3725.19	-3712.68	362.07	0.27	439595.50	641453.44	N 32 12 29.20 W 104	0 34.68
	11903.00	90.17	177.99	8578.35	3820.14	-3807.67	363.30	2.68	439500.52	641454.67	N 32 12 28.28 W 104	0 34.67
	11998.00	90.34	175.74	8577.93	3915.13	-3902.52	368.49	2.38	439405.68	641459.86	N 32 12 27.32 W 104	0 34.61
	12093.00	90.09	175.47	8577.08	4010.07	-3997.23	375.77	0.47	439310.97	641467.14	N 32 12 26.38 W 104	0 34.53
	12188.00	90.69	174.84	8575.93	4104.99	-4091.89	383.80	0.66	439216.33	641475.17	N 32 12 25.45 W 104	0 34.44
	12283.00	90.31	177.03	8575.10	4199.95	-4186.84	390.48	2.40	439121.58	641481.85	N 32 12 24.51 W 104	0 34.37
	12378.00	90.48	176.67	8574.45	4294.84	-4281.50	395.65	0.48	439028.73	641487.02	N 32 12 23.57 W 104	0 34.31
	12472.00	90.14	177.56	8573.94	4389.94	-4375.38	400.38	1.01	438932.86	641491.75	N 32 12 22.64 W 104	0 34.26
	12567.00	89.97	180.27	8573.85	4483.90	-4470.35	402.18	2.86	438837.89	641493.55	N 32 12 21.70 W 104	0 34.24
	12662.00	90.03	180.88	8573.85	4578.76	-4565.35	401.23	0.65	438742.91	641492.60	N 32 12 20.76 W 104	0 34.28
	12757.00	89.52	182.28	8574.22	4673.50	-4660.31	398.81	1.57	438647.95	641489.08	N 32 12 19.82 W 104	0 34.29
	12852.00	89.90	182.25	8574.70	4768.16	-4755.23	394.85	0.40	438553.04	641486.22	N 32 12 18.88 W 104	0 34.34
	12947.00	90.07	180.11	8574.73	4862.95	-4850.21	392.90	2.26	438458.07	641484.27	N 32 12 17.94 W 104	0 34.36
	13042.00	90.93	179.05	8573.90	4957.88	-4945.20	393.59	1.44	438363.09	641484.98	N 32 12 17.00 W 104	0 34.36
	13136.00	90.21	178.44	8572.98	5051.85	-5039.17	395.65	1.00	438269.12	641487.02	N 32 12 16.07 W 104	0 34.34
	13231.00	90.14	179.64	8572.67	5146.81	-5134.15	397.25	1.27	438174.15	641488.61	N 32 12 15.13 W 104	0 34.32
	13326.00	90.27	178.85	8572.33	5241.76	-5226.14	398.50	0.84	438079.16	641489.88	N 32 12 14.19 W 104	0 34.31
	13421.00	90.48	180.37	8571.71	5336.69	-5324.14	399.14	1.62	437984.18	641490.51	N 32 12 13.25 W 104	0 34.31
	13516.00	90.07	179.67	8571.25	5431.59	-5418.13	399.11	0.85	437889.19	641490.48	N 32 12 12.31 W 104	0 34.31
	13611.00	89.66	181.97	8571.48	5526.41	-5514.12	397.75	2.48	437794.21	641489.12	N 32 12 11.37 W 104	0 34.33
	13706.00	90.07	184.07	8571.70	5620.08	-5608.98	392.75	2.25	437699.30	641484.11	N 32 12 10.43 W 104	0 34.39
	13801.00	89.97	183.62	8571.67	5715.36	-5703.77	398.38	0.49	437604.58	641477.74	N 32 12 9.50 W 104	0 34.47
	13896.00	90.07	182.80	8571.64	5809.89	-5798.62	381.08	0.87	437509.74	641472.43	N 32 12 8.56 W 104	0 34.53
	13991.00	90.21	180.41	8571.40	5904.62	-5893.57	378.40	2.52	437414.79	641469.78	N 32 12 7.62 W 104	0 34.57
	14086.00	90.34	179.01	8570.95	5999.54	-5988.57	378.88	1.48	437310.80	641470.25	N 32 12 6.68 W 104	0 34.57
	14181.00	90.34	177.84	8570.38	6094.52	-6083.53	381.49	1.23	437224.85	641472.80	N 32 12 5.74 W 104	0 34.54
	14276.00	91.20	180.41	8569.11	6189.46	-6178.50	382.94	2.85	437129.88	641474.31	N 32 12 4.80 W 104	0 34.52
	14371.00	90.79	180.11	8567.46	6284.33	-6273.48	382.51	0.53	437034.91	641473.88	N 32 12 3.86 W 104	0 34.53
	14466.00	90.55	180.31	8566.35	6379.21	-6368.48	382.16	0.33	436939.92	641473.53	N 32 12 2.92 W 104	0 34.54
	14561.00	91.10	180.71	8564.98	6474.08	-6463.40	381.31	0.72	436844.94	641472.88	N 32 12 1.98 W 104	0 34.55
	14656.00	91.10	179.49	8563.15	6568.94	-6558.44	381.15	1.28	436749.97	641472.52	N 32 12 1.04 W 104	0 34.56
	14751.00	90.76	180.53	8561.81	6663.83	-6653.43	381.13	1.15	436654.99	641472.50	N 32 12 0.10 W 104	0 34.56
	14846.00	91.24	181.08	8559.95	6758.65	-6748.40	379.80	0.77	436560.03	641471.17	N 32 11 59.16 W 104	0 34.58
	14941.00	91.10	180.98	8558.01	6853.44	-6843.37	378.09	0.19	436465.07	641469.48	N 32 11 58.22 W 104	0 34.60
	15036.00	90.55	180.60	8556.65	6948.27	-6938.25	376.78	0.70	436370.10	641468.15	N 32 11 57.28 W 104	0 34.62
	15131.00	91.00	181.95	8555.38	7043.04	-7033.32	374.67	1.50	436275.14	641466.04	N 32 11 56.34 W 104	0 34.65
	15226.00	91.24	181.87	8553.51	7137.74	-7128.24	371.50	0.27	436180.22	641462.87	N 32 11 55.40 W 104	0 34.69
	15321.00	90.38	182.53	8552.18	7232.40	-7223.18	367.85	1.14	436085.31	641459.22	N 32 11 54.46 W 104	0 34.74
	15416.00	90.83	1									

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Eastings (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
		1	0.000	28.500	1/98.425	30.000	30.000	NAL_NSQ+MSHOT-Depth Only			Original Borehole / Oxy Salt Ridge CC 20-17 Federal Com 23H Gyro+MWD(IFR1) 0-16,290'	
		1	28.500	28.500	Act Sins	30.000	30.000	NAL_NSQ+MSHOT-Depth Only			Original Borehole / Oxy Salt Ridge CC 20-17 Federal Com 23H Gyro+MWD(IFR1) 0-16,290'	
		1	28.500	528.500	Act Sins	30.000	30.000	NAL_NSQ+MSHOT			Original Borehole / Oxy Salt Ridge CC 20-17 Federal Com 23H Gyro+MWD(IFR1) 0-16,290'	
		1	529.500	16290.000	Act Sins	30.000	30.000	NAL_MWD_IFR1+MS			Original Borehole / Oxy Salt Ridge CC 20-17 Federal Com 23H	

...Original Borehole\Oxy Salt Ridge CC 20-17 Federal Com 23H Gyro+MWD(IFR1) 0-16,290'

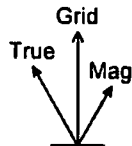
Schlumberger

OXY



Borehole: Original Borehole Well: Oxy Salt Ridge CC 20-17 Federal Com 23H Field: NM Eddy County (NAD 83) Structure: Oxy Salt Ridge CC 20-17 Federal Com 23H

Gravity & Magnetic Parameters
 Model: HGSB 2018 Op: 10 PVP Date: 14-Jun-2018 Surface Location: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 WgsOver: 1.11" PS: 40002 25mT Gravity PS: 950 mSigs (1.0241 Brdnd) Lat: N 32 13 1.93 Northing: 41387 820523 Easting: 841091 40520 Scale Fact: 0.99997049
 Miscellaneous
 Stat: Oxy Salt Ridge CC 20-17 Federal Com 23H Revd APS 3118y18
 Plan: Oxy Salt Ridge CC 20-17 Federal Com 23H Revd APS 3118y18



Grid North
 Tot Corr (M->G 6.940°)
 Mag Dec (7.112°)
 Grid Conv (0.172°)

