

Oilfield Services, Central U.S. Land
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

September 25, 2018

**NM OIL CONSERVATION
ARTESIA DISTRICT**

OXY USA INC
PO BOX 50250
MIDLAND, TEXAS, 79710

NOV 26 2018

30-015-44945

RECEIVED

Re:

17, 24S, 29E, EDDY NM
32.21845 104.01092

CLIENT: OXY USA INC
WELL: SALT RIDGE CC 20-17 FED COM 21H
FIELD: Corral Draw Bone Spring

RIG: HP636
COUNTY: EDDY
API NO: 30-015-44945
JOB NO: 18MLD1153

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
T. Wetmore FS	SALT RIDGE CC 20- 17 FED COM 21H Original Hole	590.00 Ft to 16233.00 Ft	June 25, 2018 to July 5, 2018	TelePacer SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

J. Allen
Field Service Manager

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
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7220 W I-H 20
Midland, Texas 79706
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Schlumberger

Well Reference:
17, 24S, 29E, EDDY NM
32.21845 104.01092

I, T. Wetmore certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of June 25, 2018 through July 05, 2018, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 590.00 feet to a depth of 16233.00 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 USA INC for the SALT RIDGE CC 20-17 FED COM 21H Well (Original Hole) API No. 30-015-44945 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
T. Wetmore
FS



Subscribed and Sworn to before me this 25th day of September (month) 2018 (yr)

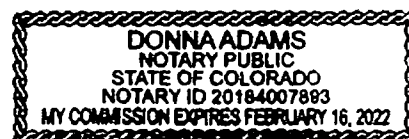
My Commission expires:

2-16-2022

D. Adams
Notary Public

(signature)

Adams County Colorado
(County State)





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

Report Date: July 09, 2018 - 12:51 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Salt Ridge CC 20-17 Federal Com 21H / Oxy Salt Ridge CC 20-17
Well: Federal Com 21H
Borehole: Oxy Salt Ridge CC 20-17 Federal Com 21H
UWI / API#: Original Borehole
Survey Name: Unknown / 30-015-44945
Survey Date: Oxy Salt Ridge CC 20-17 Federal Com 21H Gyro-MWD(IFR1) 0-16,277
Tort / ARD / DDI / ERD Ratio: June 22, 2018
Coordinate Reference System: 222 256 ° / 8763 847 ft / 6 569 / 1 026
Location Lat / Long: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Grid NE Y/X: N 32° 13' 6.4305", W 104° 0' 35.3407"
CRS Grid Convergence Angle: N 443357.320 NUS, E 641041.850 NUS
Grid Scale Factor: 0.1719 °
Version / Patch: 0.99992048
2.10.720.0

Survey / DLS Computations:
Vertical Section Azimuth: Minimum Curvature / Lubinski
Vertical Section Origin: 186.365 ° (Grid North)
TVD Reference Datum: 0.000 ft, 0.000 ft
TVD Reference Elevation: 2960.400 ft above MSL
Seabed / Ground Elevation: 2933.900 ft above MSL
Magnetic Declination: 7.111 °
Total Gravity Field Strength: 998.468mgal (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47399.749 nT
Magnetic Dip Angle: 59.999 °
Declination Date: June 22, 2018
Magnetic Declination Model: HDGM 2018
Grid Convergence Used: 0.1719 °
Total Corr Mag North-Grid North: 6.9388 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azin Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (7100m)	Northing (NUS)	Eastng (NUS)	Latitude (NUS ° ° '")	Longitude (EW ° ° '")
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	443557.32	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	443557.37	641041.85	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	443557.50	641041.62	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	443557.76	641041.71	N 32 13 6.44 W 104 0.39.34	
	289.50	0.17	9.77	289.50	-0.65	0.66	-0.08	0.27	443557.98	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	443558.09	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	443558.19	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	443558.33	641042.06	N 32 13 6.45 W 104 0.39.34	
	529.50	0.22	328.99	529.50	-1.16	1.16	0.14	0.17	443558.48	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	443558.65	641041.86	N 32 13 6.45 W 104 0.39.34	
	773.00	0.06	199.92	773.00	-1.44	1.41	-0.24	0.13	443558.80	641041.63	N 32 13 6.45 W 104 0.39.34	
	882.00	0.06	122.05	882.00	-1.38	1.48	-0.22	0.08	443558.73	641041.63	N 32 13 6.45 W 104 0.39.34	
	953.00	0.06	953.00	953.00	-1.31	1.34	-0.20	0.09	443558.66	641041.85	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	443558.69	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	443558.65	641041.60	N 32 13 6.45 W 104 0.39.34	
	1234.00	0.04	332.73	1234.00	-1.35	1.40	-0.30	0.05	443558.72	641041.56	N 32 13 6.45 W 104 0.39.34	
	1316.00	0.04	50.58	1316.00	-1.40	1.44	-0.29	0.05	443558.76	641041.56	N 32 13 6.45 W 104 0.39.34	
	1407.00	0.04	321.09	1407.00	-1.45	1.49	-0.29	0.06	443558.81	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	443558.81	641041.53	N 32 13 6.45 W 104 0.39.34	
	1597.00	0.03	158.17	1597.00	-1.40	1.44	-0.31	0.02	443558.79	641041.53	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	443558.87	641041.59	N 32 13 6.45 W 104 0.39.34	
	1786.00	0.00	357.77	1786.00	-1.52	1.55	-0.23	0.08	443558.87	641041.62	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	443558.91	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	443558.95	641041.46	N 32 13 6.45 W 104 0.39.35	
	2071.00	0.04	21.51	2071.00	-1.63	1.70	-0.38	0.02	443559.00	641041.47	N 32 13 6.45 W 104 0.39.35	
	2166.00	0.04	244.26	2166.00	-1.64	1.68	-0.40	0.08	443559.02	641041.45	N 32 13 6.45 W 104 0.39.35	
	2261.00	0.08	28.98	2261.00	-1.69	1.74	-0.40	0.12	443559.06	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	443559.10	641041.45	N 32 13 6.45 W 104 0.39.34	
	2451.00	0.05	108.87	2451.00	-1.70	1.74	-0.27	0.03	443559.06	641041.58	N 32 13 6.45 W 104 0.39.34	
	2545.00	0.05	157.96	2545.00	-1.66	1.69	-0.24	0.04	443559.01	641041.55	N 32 13 6.45 W 104 0.39.34	
	2640.00	0.04	176.73	2640.00	-1.59	1.82	-0.24	0.04	443559.01	641041.64	N 32 13 6.45 W 104 0.39.34	
	2735.00	0.04	217.08	2735.00	-1.52	1.86	-0.23	0.02	443558.94	641041.62	N 32 13 6.45 W 104 0.39.34	
	2830.00	0.04	36.76	2830.00	-1.53	1.56	-0.25	0.03	443558.88	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	0.08	443558.93	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	0.06	443558.93	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	443558.92	641041.57	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	443558.96	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	443559.06	641041.58	N 32 13 6.45 W 104 0.39.34	
	3494.00	0.04	146.43	3494.00	-1.70	1.74	-0.26	0.07	443559.06	641041.58	N 32 13 6.45 W 104 0.39.34	
	3589.00	0.05	135.28	3589.00	-1.65	1.69	-0.21	0.01	443559.00	641041.64	N 32 13 6.45 W 104 0.39.34	
	3779.00	0.05	-41.86	3779.00	-1.66	1.89	-0.21	0.01	443559.00	641041.64	N 32 13 6.45 W 104 0.39.34	
	3874.00	0.04	284.03	3874.00	-1.70	1.72	-0.10	0.04	443559.01	641041.75	N 32 13 6.45 W 104 0.39.34	
	3969.00	0.05	187.46	3969.00	-1.67	1.69	-0.14	0.08	443559.04	641041.75	N 32 13 6.45 W 104 0.39.34	
	4158.00	2.80	257.83	4157.92	-1.61	0.64	-0.14	0.07	443559.01	641041.71	N 32 13 6.45 W 104 0.39.34	
	4348.00	5.33	257.46	4347.43	-1.69	0.84	-0.14	0.47	443557.96	641041.59	N 32 13 6.45 W 104 0.39.34	
	4538.00	8.26	256.69	4536.07	-1.89	-2.26	-0.25	1.33	443555.00	641024.04	N 32 13 6.42 W 104 0.39.55	
	4633.00	9.40	254.11	4629.94	-1.63	-1.01	-0.72	1.54	443550.00	641024.19	N 32 13 6.42 W 104 0.39.80	
	4728.00	10.77	4723.47	4723.47	-1.57	-15.77	-69.76	1.27	443546.31	640775.19	N 32 13 5.56 W 104 0.42.05	
	4823.00	12.09	252.72	4816.59	-1.43	-23.43	-87.66	1.46	443541.55	640972.10	N 32 13 6.28 W 104 0.39.97	
	4918.00	12.91	248.15	4909.34	-1.44	-31.21	-87.66	1.42	443541.55	640972.10	N 32 13 6.28 W 104 0.40.15	
	5013.00	13.94	246.53	5001.74	-1.45	-40.44	-106.94	1.13	443335.73	640954.20	N 32 13 6.28 W 104 0.40.36	
	5108.00	13.99	244.77	5093.93	-1.48	-51.16	-127.28	1.15	443335.73	640954.20	N 32 13 6.28 W 104 0.40.36	
	5297.00	13.72	241.80	5277.44	-1.48	-62.88	-148.17	0.45	443320.09	640914.58	N 32 13 6.07 W 104 0.40.59	
	5487.00	13.86	237.59	5468.65	-1.48	-69.69	-188.17	0.45	443310.64	640893.70	N 32 13 6.07 W 104 0.40.82	
	5676.00	14.01	241.64	5656.27	-1.45	-87.57	-228.04	0.46	443290.31	640853.28	N 32 13 5.98 W 104 0.41.07	
	5771.00	13.93	243.18	5737.51	-1.43	-89.74	-268.94	0.19	443267.59	640813.83	N 32 13 5.78 W 104 0.41.54	
	5868.00	13.82	235.11	5829.78	-1.43	-114.26	-326.88	0.19	443267.59	640775.19	N 32 13 5.56 W 104 0.42.05	
	5966.00	13.82	235.85	5929.78	-1.57	-129.89	-385.54	0.54	443230.00	640756.33	N 32 13 5.31 W 104 0.42.45	
	6056.00	13.92	235.85	6029.78	-1.72	-139.80	-460.00	0.22	443217.53	640737.71	N 32 13 5.19 W 104 0.42.69	
	6151.00	14.02	235.85	6106.43	-1.78	-165.98	-541.85	0.05	443191.96	640700.02	N 32 13 5.06 W 104 0.42.89	
	6246.00	13.75	237.59	6198.65	-1.78	-178.14	-580.91	0.20	443179.19	640700.02	N 32 13 4.81 W 104 0.43.33	
	6341.00	13.86	237.59	6290.91	-1.90	-231.63	-680.03	0.39	443166.79	640680.97	N 32 13 4.68 W 104 0.43.55	
	6435.00	13.87	241.03	6382.17	-2.02	-245.45	-799.42	0.62	443155.06	640642.46	N 32 13 4.45 W 104 0.44.00	
	6530.00	13.93	243.18	6474.39	-2.13	-258.54	-919.09	0.41	443145.08	640622.79	N 32 13 4.24 W 104 0.44.23	
	6625.00	13.85	245.95	6566.59	-2.23	-271.29	-1039.32	0.39	443133.51	640602.57	N 32 13 4.14 W 104 0.44.46	
	6720.00	13.85	248.24	6658.80	-2.32	-283.67	-1160.00	0.71	443123.68	640581.89	N 32 13 4.14 W 104 0.44.70	
	6814.00	13.09	250.75	6750.21	-2.40	-292.55	-1292.55	0.60	443114.79	640560.65	N 32 13 4.05 W 104 0.44.95	
	6909.00	13.26	248.14	6842.71	-2.51	-304.46	-1481.04	1.02	443107.11	640540.35	N 32 13 3.98 W 104 0.45.19	
	7099.00	9.84	239.59	7028.65	-2.61	-321.84	-1521.81	0.65	443099.50	640520.09	N 32 13 3.90 W 104 0.45.42	
	7194.00	9.94	241.11	7122.44	-2.84	-343.91	-1566.05	2.01	443083.17	640485.85	N 32 13 3.74 W 104 0.45.82	
								0.29	443075.10	640471.67	N 32 13 3.66 W 104 0.45.99	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100m)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7289.00	10.02	236.91	7216.01	353.90	-290.72	-584.33	0.77	443066.63	640457.57	N 32 13 3.58 W 104	0 46.15
	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 46.33
	7479.00	12.77	237.88	7402.14	377.53	-310.88	-616.59	1.12	443046.46	640425.31	N 32 13 3.38 W 104	0 46.53
	7573.00	11.80	235.33	7493.99	390.31	-321.88	-633.29	1.18	443035.47	640408.61	N 32 13 3.27 W 104	0 46.72
	7668.00	12.25	237.21	7586.90	403.06	-332.86	-649.75	0.63	443024.49	640392.15	N 32 13 3.16 W 104	0 46.92
	7763.00	11.01	243.92	7679.95	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	-348.96	-682.48	1.70	443008.39	640358.43	N 32 13 3.00 W 104	0 47.30
	7953.00	10.41	260.61	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	-357.94	-740.52	3.67	442999.41	640301.39	N 32 13 2.92 W 104	0 47.97
	8177.00	22.56	251.56	8083.02	443.11	-361.33	-755.55	15.73	442996.02	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	516.71	-428.37	-818.22	14.74	442928.98	640223.70	N 32 13 2.22 W 104	0 48.88
	8462.00	46.65	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	651.63	-560.80	-848.06	7.48	442796.57	640193.86	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	-720.88	-862.38	16.38	442636.50	640179.54	N 32 12 59.33 W 104	0 49.40
	8842.00	71.99	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	8529.58	1087.56	-997.33	-866.99	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	0.76	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	640156.06	N 32 12 54.48 W 104	0 49.69
	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	88.96	184.69	8526.41	1492.32	-1400.55	-903.30	0.84	441956.88	640138.62	N 32 12 52.61 W 104	0 49.90
	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 49.98
	9626.00	89.69	183.29	8528.79	1682.07	-1590.16	-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	1776.82	-1685.07	-918.92	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	176.36	8532.46	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	176.82	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	88.65	178.10	8536.68	2151.61	-2063.66	-905.94	1.36	441293.83	640135.98	N 32 12 46.04 W 104	0 49.96
	10194.00	88.41	179.82	8539.09	2244.79	-2157.61	-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	-2347.56	-905.97	1.29	441009.95	640135.96	N 32 12 43.23 W 104	0 49.97
	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 49.99
	10574.00	89.89	181.97	8542.69	2622.94	-2537.52	-909.63	1.45	440820.01	640132.29	N 32 12 41.35 W 104	0 50.02
	10668.00	90.55	179.01	8542.33	2716.43	-2631.51	-910.43	3.23	440726.03	640131.49	N 32 12 40.42 W 104	0 50.03
	10763.00	90.34	176.72	8541.59	2810.38	-2726.43	-906.90	2.42	440631.11	640135.03	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 49.92
	10953.00	89.93	175.72	8541.95	2997.31	-2915.98	-893.94	0.39	440441.57	640147.98	N 32 12 37.61 W 104	0 49.85
	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	440157.84	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	640158.64	N 32 12 33.86 W 104	0 49.72
	11427.00	89.86	180.45	8542.78	3466.95	-3389.72	-883.53	0.64	439967.88	640158.39	N 32 12 32.92 W 104	0 49.74
	11522.00	89.86	181.72	8543.02	3561.54	-3484.70	-885.33	1.34	439872.90	640156.59	N 32 12 31.98 W 104	0 49.77
	11617.00	90.00	180.74	8543.13	3656.16	-3579.68	-887.37	1.04	439777.93	640154.55	N 32 12 31.04 W 104	0 49.79
	11807.00	90.00	180.54	8543.13	3845.20	-3769.67	-889.49	0.11	439587.96	640152.43	N 32 12 29.16 W 104	0 49.82
	11902.00	90.17	181.20	8542.99	3939.76	-3864.65	-890.94	0.72	439492.98	640150.99	N 32 12 28.22 W 104	0 49.84
	11997.00	90.07	180.76	8542.79	4034.34	-3959.64	-892.56	0.47	439398.00	640149.36	N 32 12 27.28 W 104	0 49.87
	12092.00	89.65	180.49	8543.03	4128.86	-4054.63	-893.60	0.53	439303.02	640148.33	N 32 12 26.34 W 104	0 49.88
	12187.00	89.86	180.32	8543.43	4223.34	-4149.63	-894.27	0.28	439208.03	640147.65	N 32 12 25.40 W 104	0 49.89
	12282.00	90.07	180.17	8543.49	4317.80	-4244.63	-894.67	0.27	439113.04	640147.25	N 32 12 24.46 W 104	0 49.90
	12377.00	90.20	179.96	8543.27	4412.22	-4339.63	-894.78	0.26	439018.05	640147.14	N 32 12 23.52 W 104	0 49.91
	12472.00	89.89	179.89	8543.19	4506.62	-4434.63	-894.66	0.33	438923.05	640147.26	N 32 12 22.58 W 104	0 49.91
	12567.00	90.62	181.04	8542.77	4601.11	-4529.62	-895.43	1.43	438828.07	640146.49	N 32 12 21.64 W 104	0 49.92
	12662.00	90.00	179.58	8542.25	4695.57	-4624.62	-895.94	1.67	438733.08	640145.98	N 32 12 20.70 W 104	0 49.93
	12756.00	89.96	180.09	8542.29	4788.95	-4718.62	-895.67	0.54	438639.09	640146.25	N 32 12 19.77 W 104	0 49.93
	12851.00	89.96	180.82	8542.35	4883.45	-4813.61	-896.43	0.77	438544.10	640145.50	N 32 12 18.83 W 104	0 49.94
	12946.00	90.13	181.24	8542.28	4978.03	-4908.60	-898.13	0.48	438449.12	640143.79	N 32 12 17.89 W 104	0 49.96
	13041.00	89.96	180.51	8542.20	5072.59	-5003.58	-899.59	0.79	438354.14	640142.34	N 32 12 16.95 W 104	0 49.98
	13136.00	89.72	180.26	8542.47	5167.07	-5098.58	-900.22	0.36	438259.15	640141.70	N 32 12 16.01 W 104	0 50.00
	13231.00	90.07	180.14	8542.64	5261.52	-5193.58	-900.56	0.39	438164.16	640141.37	N 32 12 15.07 W 104	0 50.00
	13326.00	90.03	181.74	8542.56	5356.08	-5288.57	-902.11	1.68	438069.19	640139.81	N 32 12 14.13 W 104	0 50.02
	13421.00	90.07	181.19	8542.48	5450.73	-5383.53	-904.54	0.58	437974.23	640137.38	N 32 12 13.19 W 104	0 50.06
	13516.00	89.93	180.60	8542.48	5545.30	-5478.52	-908.03	0.64	437879.24	640135.90	N 32 12 12.25 W 104	0 50.08
	13611.00	90.07	179.00	8542.48	5639.87	-5573.52	-905.69	1.69	437784.26	640136.23	N 32 12 11.31 W 104	0 50.08
	13706.00	90.27	179.21	8542.20	5733.90	-5668.51	-904.21	0.31	437689.28	640137.71	N 32 12 10.37 W 104	0 50.06
	13801.00	89.89	178.45	8542.06	5828.08	-5763.49	-902.27	0.89	437594.30	640139.65	N 32 12 9.43 W 104	0 50.04
	13896.00	89.76	178.17	8542.35	5922.13	-5858.44	-899.47	0.32	437499.35	640142.45	N 32 12 8.49 W 104	0 50.01
	13991.00	90.00	178.97	8542.55	6016.25	-5953.41	-897.10	0.88	437404.39	640144.82	N 32 12 7.55 W 104	0 49.99
	14086.00	90.03	177.76	8542.53	6110.32	-6048.37	-894.39	1.27	437309.44	640147.53	N 32 12 6.61 W 104	0 49.96
	14181.00	89.72	178.68	8542.73	6204.35	-6143.32	-891.44	1.02	437214.50	640150.49	N 32 12 5.67 W 104	0 49.93
	14276.00	90.13	180.74	8542.86	6298.71	-6238.32	-890.96	2.21	437119.51	640150.97	N 32 12 4.73 W 104	0 49.93
	14371.00	89.79	179.35	8542.93	6393.12	-6333.32	-891.03	1.51	437024.52	640150.89	N 32 12 3.79 W 104	0 49.93
	14466.00	89.93	177.91	8543.16	6487.25	-6428.29	-888.76	1.52	436929.56	640153.16	N 32 12 2.85 W 104	0 49.91
	14561.00	89.82	177.58	8543.36								

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 ° ' ")
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 Salt Ridge CC 20-17 Federal Com 21H Gyro+MWD(IFR1) 0-16.277'				
	1	26.500	26.500	Act Sins	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Salt Ridge CC 20-17 Federal Com 21H Gyro+MWD(IFR1) 0-16.277'				
	1	26.500	529.500	Act Sins	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy 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 / Oxy 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 / Oxy Salt Ridge CC 20-17 Federal Com 21H				

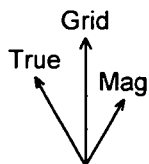
Schlumberger

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	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Miscellaneous
Model: HDGM 2018	Lat: N 12 13.644	Northing: 443357.326128	Oxy Salt Ridge CC 20-17 Federal Com 21H
Dip: 58.999°	Long: W 104 0 39.34	Easting: 841941.851028	21H
Date: 22-Jun-2018		Scale Fact: 0.99997048	Plan: Oxy Salt Ridge CC 20-17 Federal Com 21H APS 30May18
MagDec: 7.111°			
PS: 47899.749mT			
Gravity PS: 988.489mgn (8.88663 Base)			



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

