

30-015-44730

Schlumberger

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)

**NM OIL CONSERVATION
ARTESIA DISTRICT**

January 18, 2019

MAR 07 2019

OXY USA INC.

RECEIVED

Re:

2, 25S, 29E, Eddy NM
N 32.16534 W 103.95073

CLIENT: OXY USA INC.
WELL: Corral Fly 35-26 Fed Com 35H
FIELD: Purple Sage (Wolfcamp)

RIG: H&P 636
COUNTY: EDDY
API NO: 30-015-44730
JOB NO: 18MLD4297

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>
Ahmed Zarroug FS	Corral Fly 35-26 Fed Com 35H Original Hole	564.00 Ft to 20521.00 Ft	December 7, 2018 to January 10, 2019	SlimPulse Third Party Corrected

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

Cody Nelms
Field Service Manager

Schlumberger-Private

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

Well Reference:
2, 25S, 29E, Eddy NM
N 32.16534 W 103.95073

I, Ahmed Zarroug certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of December 07, 2018 through January 10, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 564.00 feet to a depth of 20521.00 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 Corral Fly 35-26 Fed Com 35H Well (Original Hole) API No. 30-015-44730 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
Ahmed Zarroug
FS



Subscribed and Sworn to before me this 18th day of January (month) 2019 (yr)

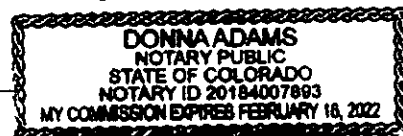
My Commission expires:

2-16-2022

D. Adams
Notary Public

Adams County Colorado
(County State)

(signature)



Oxy Corral Fly 35-26 Federal Com 35H Gyro + MWD 0-20570' MD Survey Geodetic Report (Def Survey)



Report Date: January 11, 2019 - 12:50 PM
Client: OXY
Field: NMI Eddy County (NAD 83)
Structure / Slot: Oxy Corral Fly 35-26 Federal Com 35H / Oxy Corral Fly 35-26 Federal Com 35H
Well: Oxy Corral Fly 35-26 Federal Com 35H
Borehole: Oxy Corral Fly 35-26 Federal Com 35H
UWI / API: Unknown / Unknown
Survey Name: Oxy Corral Fly 35-26 Federal Com 35H Gyro + MWD 0-20570' MD
Survey Date: November 20, 2018
Tort / AMD / DOI / ERD Ratio: 249.808' / 10856.498' R / 6.731' / 1.048
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 9' 55.2398" W 103° 57' 2.63024"
Location Grid N/E Y/X: N 424086.770 NUS, E 659726.830 NUS
CRS Grid Convergence Angle: 0.2037'
Grid Scale Factor: 0.99992514
Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.850' (Grid North)
Vertical Section Origin: 0.000 R, 0.000 N
TVD Reference Datum: RKB
TVD Reference Elevation: 3098.500 ft above MSL
Seabed / Ground Elevation: 3072.000 ft above MSL
Magnetic Declination: 6.893'
Total Gravity Field Strength: 998.453 mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47934.700 nT
Magnetic Dip Angle: 59.892'
Declination Date: December 27, 2018
Magnetic Declination Model: IIFR
North Reference: Grid North
Grid Convergence Used: 0.2037'
Total Corr Mag North->Grid: 6.6893'
North: Well Head
Local Coord Referenced To: Well Head

Comments	MD (ft)	Inc1 (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
WRP SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	424096.77	659726.83	N 32° 9' 55.23" W 103° 57' 2.63"	
	28.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	424096.77	659726.83	N 32° 9' 55.23" W 103° 57' 2.63"	
	94.50	0.82	175.26	94.50	-0.37	-0.37	0.02	0.91	424096.40	659726.85	N 32° 9' 55.23" W 103° 57' 2.63"	
Last Gyre	190.50	0.69	167.64	180.49	-1.34	-1.34	0.17	0.14	424095.43	659727.00	N 32° 9' 55.22" W 103° 57' 2.63"	
	267.50	1.05	151.46	267.48	-2.55	-2.55	0.66	0.50	424094.22	659727.49	N 32° 9' 55.20" W 103° 57' 2.62"	
	361.50	0.98	156.94	361.47	-4.05	-4.05	1.38	0.13	424092.72	659728.21	N 32° 9' 55.19" W 103° 57' 2.61"	
	446.50	0.88	177.27	446.46	-5.37	-5.37	1.70	0.40	424091.40	659728.53	N 32° 9' 55.18" W 103° 57' 2.61"	
	564.00	0.59	208.03	563.95	-6.81	-6.80	1.48	0.41	424089.97	659728.29	N 32° 9' 55.16" W 103° 57' 2.61"	
	658.00	0.08	41.84	657.95	-7.18	-7.18	1.28	0.71	424089.59	659728.11	N 32° 9' 55.16" W 103° 57' 2.62"	
	752.00	0.00	6.70	751.95	-7.13	-7.13	1.32	0.09	424089.64	659728.15	N 32° 9' 55.16" W 103° 57' 2.62"	
	846.00	0.05	11.83	845.95	-7.09	-7.09	1.33	0.05	424089.68	659728.16	N 32° 9' 55.16" W 103° 57' 2.62"	
	934.00	0.05	193.88	933.95	-7.09	-7.09	1.33	0.11	424089.68	659728.16	N 32° 9' 55.16" W 103° 57' 2.62"	
	1028.00	0.03	209.34	1027.95	-7.16	-7.15	1.30	0.02	424089.62	659728.13	N 32° 9' 55.16" W 103° 57' 2.62"	
	1122.00	0.03	359.11	1121.85	-7.15	-7.15	1.29	0.06	424089.62	659728.12	N 32° 9' 55.16" W 103° 57' 2.62"	
	1216.00	0.08	228.13	1215.95	-7.17	-7.17	1.24	0.11	424089.60	659728.07	N 32° 9' 55.16" W 103° 57' 2.62"	
	1310.00	0.08	48.77	1309.95	-7.17	-7.17	1.24	0.17	424089.60	659728.07	N 32° 9' 55.16" W 103° 57' 2.62"	
	1404.00	0.08	168.24	1403.95	-7.19	-7.19	1.29	0.16	424089.58	659728.12	N 32° 9' 55.16" W 103° 57' 2.62"	
	1499.00	0.05	215.93	1498.95	-7.29	-7.29	1.25	0.05	424089.48	659728.08	N 32° 9' 55.16" W 103° 57' 2.62"	
	1593.00	0.05	173.02	1592.95	-7.37	-7.36	1.23	0.04	424089.41	659728.06	N 32° 9' 55.16" W 103° 57' 2.62"	
	1687.00	0.07	131.14	1686.95	-7.45	-7.44	1.28	0.05	424089.33	659728.11	N 32° 9' 55.16" W 103° 57' 2.62"	
	1877.00	0.00	6.70	1876.95	-7.52	-7.52	1.37	0.04	424089.25	659728.20	N 32° 9' 55.16" W 103° 57' 2.61"	
	1972.00	0.05	243.67	1971.95	-7.54	-7.54	1.33	0.05	424089.23	659728.18	N 32° 9' 55.16" W 103° 57' 2.62"	
	2066.00	0.08	348.85	2065.95	-7.49	-7.49	1.28	0.11	424089.28	659728.11	N 32° 9' 55.16" W 103° 57' 2.62"	
	2161.00	0.21	181.55	2160.95	-7.60	-7.60	1.26	0.30	424089.17	659728.09	N 32° 9' 55.15" W 103° 57' 2.62"	
	2255.00	0.10	169.54	2254.95	-7.88	-7.85	1.27	0.12	424088.92	659728.10	N 32° 9' 55.15" W 103° 57' 2.62"	
	2350.00	0.19	67.81	2349.95	-7.88	-7.88	1.43	0.24	424088.89	659728.26	N 32° 9' 55.15" W 103° 57' 2.61"	
	2439.00	0.20	144.23	2438.94	-7.95	-7.95	1.66	0.27	424088.82	659728.49	N 32° 9' 55.15" W 103° 57' 2.61"	
	2539.00	0.75	124.83	2538.94	-8.47	-8.46	2.30	0.57	424088.31	659729.13	N 32° 9' 55.15" W 103° 57' 2.60"	
	2633.00	2.27	109.01	2632.91	-9.43	-9.42	4.56	1.66	424087.35	659731.39	N 32° 9' 55.14" W 103° 57' 2.58"	
	2729.00	1.98	113.11	2728.84	-10.71	-10.69	7.89	0.34	424086.08	659734.72	N 32° 9' 55.12" W 103° 57' 2.54"	
	2829.00	0.34	95.73	2828.82	-11.42	-11.40	9.77	1.86	424085.37	659736.60	N 32° 9' 55.12" W 103° 57' 2.52"	
	2923.00	0.12	78.61	2922.82	-11.43	-11.41	10.14	0.24	424085.36	659736.87	N 32° 9' 55.12" W 103° 57' 2.51"	
	3018.00	0.04	300.06	3017.82	-11.40	-11.37	10.21	0.16	424085.40	659737.04	N 32° 9' 55.12" W 103° 57' 2.51"	
	3112.00	0.05	266.68	3111.82	-11.38	-11.36	10.14	0.03	424085.41	659736.97	N 32° 9' 55.12" W 103° 57' 2.51"	
	3207.00	0.10	291.81	3206.82	-11.35	-11.33	10.03	0.08	424085.44	659736.85	N 32° 9' 55.12" W 103° 57' 2.51"	
	3301.00	0.10	211.14	3300.82	-11.39	-11.37	9.91	0.14	424085.40	659736.74	N 32° 9' 55.12" W 103° 57' 2.52"	
	3395.00	0.14	172.66	3394.82	-11.58	-11.55	9.88	0.09	424085.22	659736.71	N 32° 9' 55.12" W 103° 57' 2.52"	
	3490.00	0.15	147.53	3489.81	-11.80	-11.77	9.96	0.07	424085.00	659736.78	N 32° 9' 55.11" W 103° 57' 2.51"	
	3584.00	0.10	324.56	3583.81	-11.84	-11.81	9.98	0.27	424084.96	659736.81	N 32° 9' 55.11" W 103° 57' 2.51"	
	3680.00	0.12	215.93	3679.81	-11.85	-11.82	9.87	0.19	424084.95	659736.70	N 32° 9' 55.11" W 103° 57' 2.52"	
	3774.00	0.10	297.95	3773.81	-11.89	-11.86	9.74	0.15	424084.91	659736.57	N 32° 9' 55.11" W 103° 57' 2.52"	
	3868.00	0.10	148.13	3867.81	-11.92	-11.90	9.71	0.21	424084.88	659736.54	N 32° 9' 55.11" W 103° 57' 2.52"	
	3963.00	0.10	352.77	3962.81	-11.91	-11.88	9.75	0.21	424084.89	659736.58	N 32° 9' 55.11" W 103° 57' 2.52"	
4151.00	0.10	207.08	4150.81	-11.89	-11.87	9.65	0.10	424084.90	659736.48	N 32° 9' 55.11" W 103° 57' 2.52"		
4252.00	0.10	0.28	4251.81	-11.88	-11.86	9.61	0.19	424084.91	659736.44	N 32° 9' 55.11" W 103° 57' 2.52"		
4346.00	0.12	220.85	4345.81	-11.87	-11.85	9.55	0.22	424084.92	659736.38	N 32° 9' 55.11" W 103° 57' 2.52"		
4441.00	0.12	336.01	4440.81	-11.86	-11.83	9.44	0.21	424084.94	659736.27	N 32° 9' 55.11" W 103° 57' 2.52"		
4535.00	0.10	100.88	4534.81	-11.78	-11.76	9.48	0.21	424085.01	659736.31	N 32° 9' 55.11" W 103° 57' 2.52"		
4631.00	0.12	258.21	4630.81	-11.82	-11.80	9.47	0.22	424084.88	659736.30	N 32° 9' 55.11" W 103° 57' 2.52"		
4725.00	0.12	120.51	4724.81	-11.89	-11.87	9.45	0.24	424084.91	659736.28	N 32° 9' 55.11" W 103° 57' 2.52"		
4820.00	0.10	193.97	4819.81	-12.02	-12.00	9.52	0.14	424084.77	659736.25	N 32° 9' 55.11" W 103° 57' 2.52"		
4914.00	0.10	235.24	4913.81	-12.15	-12.12	9.43	0.07	424084.65	659736.26	N 32° 9' 55.11" W 103° 57' 2.52"		
5009.00	0.10	129.97	5008.81	-12.25	-12.22	9.43	0.17	424084.55	659736.26	N 32° 9' 55.11" W 103° 57' 2.52"		
5104.00	0.10	210.65	5103.81	-12.37	-12.35	9.45	0.14	424084.42	659736.28	N 32° 9' 55.11" W 103° 57' 2.52"		
5198.00	0.07	292.10	5197.81	-12.42	-12.40	9.35	0.12	424084.37	659736.18	N 32° 9' 55.11" W 103° 57' 2.52"		
5292.00	0.10	142.22	5291.81	-12.46	-12.44	9.35	0.17	424084.33	659736.18	N 32° 9' 55.11" W 103° 57' 2.52"		
5387.00	0.10	268.02	5386.81	-12.53	-12.51	9.32	0.19	424084.20	659736.15	N 32° 9' 55.11" W 103° 57' 2.52"		
5481.00	0.14	155.21	5480.81	-12.84	-12.82	9.29	0.21	424084.16	659736.11	N 32° 9' 55.10" W 103° 57' 2.52"		
5576.00	0.10	2.65	5575.81	-12.86	-12.84	9.34	0.25	424084.13	659736.17	N 32° 9' 55.10" W 103° 57' 2.52"		
5670.00	0.08	324.19	5669.81	-12.54	-12.52	9.31	0.07	424084.25	659736.14	N 32° 9' 55.11" W 103° 57' 2.52"		
5859.00	0.10	19.43	5858.81	-12.31	-12.28	9.31	0.04	424084.49	659736.14	N 32° 9' 55.11" W 103° 57' 2.52"		
5953.00	0.07	334.07	5952.81	-12.18	-12.15	9.31	0.08	424084.62	659736.14	N 32° 9' 55.11" W 103° 57' 2.52"		
6047.00	0.10	242.64	6046.81	-12.16	-12.14	9.21	0.13	424084.83	659736.04	N 32° 9' 55.11" W 103° 57' 2.52"		
6142.00	0.10	352.12	6141.81	-12.12	-12.09	9.13	0.17	424084.68	659735.96	N 32° 9' 55.11" W 103° 57' 2.52"		
6236.00	0.07	86.30	6235.81	-12.03	-12.01	9.18	0.14	424084.76	659735.80	N 32° 9' 55.11" W 103° 57' 2.52"		
6331.00	0.06	139.27	6330.81	-12.07	-12.05	9.27	0.06	424084.72	659736.10	N 32° 9' 55.11" W 103° 57' 2.52"		
6425.00	0.10	207.53	6424.81	-12.16	-12.16	9.26	0.10	424084.61	659736.09	N 32° 9' 55.11" W 103° 57' 2.52"		
6521.00	0.07	239.28	6520.81	-12.29	-12.28	9.17	0.06	424084.51	659736.00	N 32° 9' 55.11" W 103° 57' 2.52"		
6616.00	0.10	22.76	6615.81	-12.24	-12.21	9.15	0.17	424084.56	659735.96	N 32° 9' 55.11" W 103° 57' 2.52"		
6710.00	0.10	284.72	6709.81	-12.14	-12.12	9.11	0.16	424084.65	659735.93	N 32° 9' 55.11" W 103° 57' 2.52"		
6805.00	0.26	193.06	6804.81	-12.33	-12.31	8.98	0.30	424084.46	659735.81	N 32° 9' 55.11" W 103° 57' 2.53"		
6899.00	1.16	165.34	6898.80	-13.46	-13.44	9.17	1.00	424083.34	659736.00	N 32° 9' 55.10" W 103° 57' 2.52"		
6993.00	0.94	146.12	6992.79	-15.02	-15.00	9.84	0.44	424081.78	659736.87	N 32° 9' 55.08" W 103° 57' 2.52"		
7098.00	0.63	164.31	7097.78	-16.17	-16.15	10.42	0.41	424080.63	659737.24	N 32° 9' 55.07" W 103° 57' 2.51"		
7182.00	0.84	188.05	7181.77	-17.35	-17.33	10.46</						

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (min)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ° ' '')	Longitude (E/W ° ° ' '')
	7655.00	0.58	53.38	7654.76	-19.48	-18.43	10.87	0.86	424077.35	659737.80	N 32° 55.04' W 103° 57'	2.50
	7750.00	1.01	33.34	7749.75	-18.47	-18.44	11.82	0.53	424078.33	659738.64	N 32° 55.05' W 103° 57'	2.49
	7844.00	1.12	37.64	7843.73	-17.05	-17.02	12.83	0.14	424079.75	659739.66	N 32° 55.06' W 103° 57'	2.48
	7939.00	2.30	5.18	7938.69	-14.42	-14.39	13.57	1.56	424082.38	659740.40	N 32° 55.09' W 103° 57'	2.47
	8032.00	4.35	355.02	8031.52	-8.89	-8.85	13.42	2.50	424087.92	659740.25	N 32° 55.14' W 103° 57'	2.47
	8126.00	6.41	359.93	8125.09	0.08	0.11	13.09	2.04	424096.88	659739.92	N 32° 55.23' W 103° 57'	2.48
	8221.00	7.43	351.24	8219.40	11.45	11.48	12.15	1.54	424108.25	659738.98	N 32° 55.34' W 103° 57'	2.49
	8315.00	8.34	345.53	8312.51	24.07	24.09	9.52	1.28	424120.88	659736.35	N 32° 55.47' W 103° 57'	2.52
	8410.00	8.28	338.89	8405.51	37.13	37.15	5.33	1.01	424133.91	659732.16	N 32° 55.80' W 103° 57'	2.57
	8504.00	9.50	351.03	8499.39	51.12	51.12	1.68	2.37	424147.89	659728.31	N 32° 55.74' W 103° 57'	2.61
	8599.00	11.74	355.32	8592.76	68.50	68.50	-0.33	2.50	424165.27	659726.50	N 32° 55.91' W 103° 57'	2.63
	8693.00	13.95	0.83	8684.40	89.37	89.37	-0.98	2.66	424186.13	659725.85	N 32° 56.11' W 103° 57'	2.64
	8787.00	12.96	6.96	8775.83	111.16	111.16	-0.42	1.89	424207.92	659727.25	N 32° 56.54' W 103° 57'	2.59
	8882.00	12.59	8.72	8868.48	131.98	131.97	3.28	0.57	424228.73	659730.11	N 32° 56.74' W 103° 57'	2.54
	8976.00	12.85	11.02	8960.21	152.19	152.20	6.80	0.54	424248.98	659733.63	N 32° 56.94' W 103° 57'	2.50
	9071.00	12.81	8.96	9052.81	172.61	172.64	10.52	0.33	424269.39	659737.35	N 32° 56.94' W 103° 57'	2.46
	9165.00	11.80	9.56	9144.78	192.21	192.25	13.73	0.87	424289.00	659740.56	N 32° 57.13' W 103° 57'	2.43
	9260.00	10.69	10.33	9237.96	210.47	210.51	16.82	1.20	424307.28	659743.85	N 32° 57.31' W 103° 57'	2.39
	9354.00	9.24	8.92	9330.54	226.49	226.54	19.55	1.58	424323.30	659746.38	N 32° 57.47' W 103° 57'	2.38
	9449.00	9.08	1.16	9424.33	241.52	241.57	20.89	1.31	424338.33	659747.72	N 32° 57.62' W 103° 57'	2.38
	9543.00	9.41	348.92	9517.12	256.48	256.53	19.56	2.12	424353.28	659746.39	N 32° 57.77' W 103° 57'	2.39
	9637.00	9.51	348.26	9609.84	271.63	271.68	16.50	0.16	424368.43	659743.33	N 32° 57.92' W 103° 57'	2.43
	9727.00	9.84	349.48	9698.56	286.48	286.52	13.59	0.43	424383.26	659740.42	N 32° 58.06' W 103° 57'	2.46
	9814.00	13.04	343.86	9783.82	303.23	303.26	9.50	3.89	424400.01	659736.33	N 32° 58.23' W 103° 57'	2.51
	9860.00	17.11	339.21	9828.23	314.56	314.58	5.65	9.22	424411.32	659732.48	N 32° 58.34' W 103° 57'	2.55
	9954.00	25.73	341.42	9915.66	348.92	348.90	-5.78	9.21	424443.85	659721.05	N 32° 58.86' W 103° 57'	2.68
	10049.00	32.82	353.30	9996.54	392.16	392.12	-15.37	9.82	424488.86	659711.46	N 32° 59.11' W 103° 57'	2.79
	10144.00	41.70	1.05	10074.12	449.47	449.43	-17.80	10.58	424546.16	659709.03	N 32° 59.68' W 103° 57'	2.82
	10238.00	47.16	359.61	10141.22	515.24	515.20	-17.46	5.91	424611.93	659709.37	N 32° 10.33' W 103° 57'	2.81
	10333.00	53.37	358.26	10201.92	588.25	588.20	-18.86	6.63	424684.93	659707.97	N 32° 10.55' W 103° 57'	2.83
Wolfcamp Intersection	10350.18	54.76	359.03	10212.00	602.16	602.11	-19.19	8.87	424698.83	659707.64	N 32° 10.55' W 103° 57'	2.83
	10428.00	61.11	2.23	10253.30	688.05	688.01	-18.40	8.87	424764.72	659708.43	N 32° 10.84' W 103° 57'	2.82
	10522.00	72.11	2.00	10290.56	754.13	754.09	-15.23	11.70	424850.80	659711.61	N 32° 10.89' W 103° 57'	2.78
340' FSL Crossing	10542.70	74.31	2.27	10296.54	773.93	773.89	-14.49	10.70	424870.60	659712.34	N 32° 10.89' W 103° 57'	2.77
	10617.00	82.21	3.19	10311.65	848.52	848.50	-11.02	10.70	424943.20	659715.81	N 32° 10.81' W 103° 57'	2.72
	10712.00	87.15	1.37	10320.45	941.00	940.98	-7.28	5.54	425037.68	659719.57	N 32° 10.45' W 103° 57'	2.68
	10734.00	87.24	1.33	10321.53	962.96	962.95	-6.74	0.45	425059.64	659720.89	N 32° 10.47' W 103° 57'	2.67
	10828.00	87.34	359.76	10325.97	1058.85	1058.84	-5.85	1.67	425153.52	659720.98	N 32° 10.56' W 103° 57'	2.65
	10921.00	87.39	359.18	10330.26	1149.75	1149.73	-6.71	0.62	425246.41	659720.12	N 32° 10.61' W 103° 57'	2.68
	11015.00	88.03	359.22	10334.02	1243.66	1243.65	-8.02	0.88	425340.32	659718.81	N 32° 10.75' W 103° 57'	2.67
	11110.00	88.75	359.04	10338.69	1338.62	1338.60	-9.46	0.78	425435.26	659717.37	N 32° 10.84' W 103° 57'	2.68
	11204.00	90.44	0.30	10337.36	1432.61	1432.59	-10.01	2.24	425528.25	659716.83	N 32° 10.91' W 103° 57'	2.69
	11299.00	89.44	1.05	10337.45	1527.60	1527.58	-8.89	1.32	425624.23	659717.94	N 32° 10.93' W 103° 57'	2.67
	11394.00	89.82	0.61	10338.07	1622.58	1622.57	-7.34	0.47	425719.21	659719.49	N 32° 10.99' W 103° 57'	2.65
	11488.00	89.89	0.54	10339.04	1716.58	1716.55	-6.24	0.93	425813.19	659720.59	N 32° 10.92' W 103° 57'	2.63
	11583.00	89.88	0.84	10340.15	1811.55	1811.54	-5.09	0.79	425908.17	659721.74	N 32° 10.93' W 103° 57'	2.61
	11677.00	89.87	0.83	10340.02	1905.53	1905.53	-3.72	0.84	426002.15	659723.11	N 32° 10.99' W 103° 57'	2.59
	11772.00	89.85	1.88	10339.76	2000.50	2000.50	-1.48	1.28	426097.12	659725.35	N 32° 10.93' W 103° 57'	2.56
	11866.00	90.71	1.91	10339.30	2094.43	2094.45	1.63	0.92	426191.05	659728.46	N 32° 10.95' W 103° 57'	2.52
	11961.00	90.78	2.17	10338.06	2188.38	2188.38	5.01	0.28	426285.94	659731.84	N 32° 10.89' W 103° 57'	2.48
	12055.00	91.12	1.65	10335.51	2283.28	2283.31	8.15	0.66	426379.91	659734.97	N 32° 10.78' W 103° 57'	2.44
	12150.00	90.81	1.68	10335.07	2378.22	2378.26	11.05	0.58	426474.84	659737.88	N 32° 10.76' W 103° 57'	2.40
	12245.00	91.19	1.99	10333.58	2473.14	2473.19	14.25	0.83	426569.77	659741.07	N 32° 10.70' W 103° 57'	2.36
	12340.00	91.12	1.96	10331.66	2568.06	2568.11	17.52	0.08	426664.69	659744.35	N 32° 10.64' W 103° 57'	2.32
	12435.00	90.06	0.41	10330.69	2663.02	2663.09	19.48	1.98	426759.65	659746.31	N 32° 10.58' W 103° 57'	2.29
	12529.00	90.54	1.01	10330.19	2757.01	2757.08	20.65	0.82	426853.63	659747.48	N 32° 10.51' W 103° 57'	2.28
	12624.00	91.67	1.48	10328.36	2851.96	2852.03	22.71	1.29	426948.58	659749.54	N 32° 10.45' W 103° 57'	2.25
	12719.00	90.44	0.85	10326.61	2946.92	2947.00	24.64	1.45	427043.54	659751.47	N 32° 10.39' W 103° 57'	2.22
	12815.00	91.37	1.52	10325.10	3042.88	3042.96	26.83	1.19	427139.50	659753.46	N 32° 10.33' W 103° 57'	2.19
	12908.00	89.61	1.64	10324.30	3135.83	3135.92	29.19	1.90	427232.45	659756.02	N 32° 10.26' W 103° 57'	2.16
	13003.00	89.61	1.77	10324.95	3230.78	3230.88	32.02	0.14	427327.40	659758.85	N 32° 10.20' W 103° 57'	2.12
	13097.00	90.27	1.40	10325.05	3324.74	3324.84	34.62	0.80	427421.35	659761.45	N 32° 10.13' W 103° 57'	2.09
	13192.00	90.75	359.85	10324.20	3419.72	3419.83	35.65	1.71	427516.33	659762.48	N 32° 10.07' W 103° 57'	2.07
	13287.00	90.78	0.64	10322.93	3514.71	3514.82	38.06	0.83	427611.32	659762.89	N 32° 10.01' W 103° 57'	2.07
	13382.00	89.92	0.05	10322.35	3609.70	3609.81	38.63	1.10	427706.30	659763.68	N 32° 10.05' W 103° 57'	2.05
	13478.00	89.71	359.27	10322.68	3703.70	3703.81	38.67	1.60	427800.29	659762.90	N 32° 10.08' W 103° 57'	2.06
	13571.00	89.85	357.76	10323.02	3798.67	3798.77	38.67	1.60	427895.25	659764.44	N 32° 10.02' W 103° 57'	2.08
	13665.00	89.82	357.04	10324.11	3892.58	3892.67	39.35	1.34	427988.14	659765.18	N 32° 10.03' W 103° 57'	2.13
	13760.00	89.27	356.50	10326.52	3987.41	3987.49	24.00	0.81	428083.95	659768.03	N 32° 10.09' W 103° 57'	2.19
	13855.00	89.86	355.60	10331.39	4082.97	4082.13	17.46	2.71	428178.58	659774.28	N 32° 10.35' W 103° 57'	2.26
	13950.00	87.78	357.15	10336.67	4178.74	4178.78	11.47	2.58	428273.23	659778.30	N 32° 10.36' W 103° 57'	2.32
	14044.00	88.17	357.72	10340.01	4270.60	4270.63	7.26	0.75	428367.07	659783.09	N 32° 10.37' W 103° 57'	2.37
	14139.00	88.72	357.42	10342.59	4365.49	4365.51	3.24	0.66	428461.94	659790.07	N 32° 10.38' W 103° 57'	2.41
	14234.00	89.54	357.64	10344.03	4460.40	4460.41	-0.86	0.89	428556.84	659792.97	N 32° 10.37' W 103° 57'	2.46
	14328.00	90.27	358.39	10344.19	4554.35	4554.35	-4.11	1.11	428650.77	659792.72	N 32° 10.40' W 103° 57'	2.49
	14423.00	89.34	358.52	10344.51	4649.32	4649.31	-6.67	0.99	428745.73	659792.16	N 32° 10.41' W 103° 57'	2.52
	14518.00	90.47	358.54	10344.67	4744.29	4744.28	-9.11	1.19	428840.69	659791.72	N 32° 10.42' W 103° 57'	2.54
	14612.00	88.16	357.89	10344.97	4838.25	4838.23</						

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 ° ° °)
	17450.00	88.88	359.25	10343.32	7675.94	7675.86	-42.73	0.38	431772.04	659684.11	N 32 11 11.19	W 103 57 2.81
	17545.00	90.07	358.98	10343.38	7770.93	7770.84	-44.19	0.36	431867.02	659682.84	N 32 11 12.13	W 103 57 2.82
	17639.00	90.13	359.37	10343.22	7864.93	7864.83	-45.55	0.42	431961.00	659681.29	N 32 11 13.06	W 103 57 2.83
	17734.00	90.24	1.38	10342.91	7959.92	7959.83	-44.92	2.13	432055.98	659681.92	N 32 11 14.00	W 103 57 2.82
	17828.00	90.75	3.59	10342.10	8053.81	8053.73	-40.83	2.40	432149.88	659686.00	N 32 11 14.92	W 103 57 2.77
	17922.00	90.86	358.34	10340.78	8147.75	8147.67	-39.25	5.59	432243.82	659687.58	N 32 11 15.85	W 103 57 2.75
	18016.00	89.45	359.98	10340.52	8241.73	8241.66	-40.83	2.30	432337.79	659686.20	N 32 11 16.78	W 103 57 2.76
	18111.00	89.82	357.58	10341.13	8336.71	8336.63	-42.65	2.56	432432.75	659684.16	N 32 11 17.72	W 103 57 2.78
	18205.00	89.83	359.29	10341.41	8430.68	8430.59	-45.22	1.82	432528.71	659681.81	N 32 11 18.65	W 103 57 2.81
	18300.00	90.82	358.90	10340.88	8525.69	8525.57	-46.72	1.12	432621.69	659680.11	N 32 11 19.59	W 103 57 2.82
	18394.00	89.03	358.47	10341.00	8619.64	8619.54	-48.88	1.95	432715.65	659677.96	N 32 11 20.52	W 103 57 2.84
	18489.00	89.03	358.92	10342.61	8714.61	8714.50	-51.04	0.47	432810.60	659675.79	N 32 11 21.46	W 103 57 2.86
	18583.00	89.09	1.17	10343.98	8808.60	8808.49	-50.97	2.49	432904.58	659676.87	N 32 11 22.39	W 103 57 2.85
	18678.00	90.88	358.04	10343.35	8903.58	8903.48	-51.62	3.46	432998.56	659675.21	N 32 11 23.33	W 103 57 2.85
	18773.00	89.10	358.73	10343.53	8998.55	8998.43	-54.30	1.81	433094.51	659672.54	N 32 11 24.27	W 103 57 2.89
	18868.00	89.85	359.30	10344.57	9093.53	9093.41	-55.93	0.83	433189.49	659670.90	N 32 11 25.21	W 103 57 2.90
	18962.00	89.24	357.58	10345.48	9187.49	9187.37	-58.49	1.88	433283.44	659668.34	N 32 11 26.14	W 103 57 2.93
	19057.00	89.27	0.99	10346.71	9282.47	9282.34	-59.68	3.59	433378.40	659667.16	N 32 11 27.08	W 103 57 2.94
	19152.00	88.52	1.78	10348.55	9377.41	9377.30	-57.40	1.13	433473.34	659669.44	N 32 11 28.02	W 103 57 2.91
	19246.00	89.41	358.65	10350.25	9471.38	9471.27	-57.05	3.43	433567.31	659669.78	N 32 11 28.95	W 103 57 2.90
	19339.00	89.52	357.78	10351.11	9564.34	9564.22	-59.94	0.95	433660.25	659666.89	N 32 11 29.87	W 103 57 2.93
	19435.00	89.55	3.28	10351.89	9660.29	9660.17	-59.05	5.73	433756.20	659667.78	N 32 11 30.82	W 103 57 2.92
	19529.00	90.13	2.76	10352.16	9754.15	9754.04	-54.10	0.83	433850.06	659672.73	N 32 11 31.75	W 103 57 2.88
	19624.00	89.48	2.34	10352.48	9849.04	9848.95	-49.87	0.81	433944.96	659676.96	N 32 11 32.69	W 103 57 2.80
	19719.00	90.17	3.14	10352.77	9943.92	9943.84	-45.33	1.11	434039.84	659681.50	N 32 11 33.63	W 103 57 2.75
	19813.00	89.85	2.70	10352.92	10037.78	10037.71	-40.54	0.72	434133.71	659685.29	N 32 11 34.56	W 103 57 2.89
	19908.00	89.62	0.70	10353.52	10132.73	10132.66	-37.73	2.11	434228.66	659689.11	N 32 11 35.50	W 103 57 2.85
	20003.00	89.55	2.62	10354.21	10227.67	10227.62	-34.97	2.02	434323.60	659691.86	N 32 11 36.44	W 103 57 2.81
	20098.00	89.52	0.67	10354.98	10322.62	10322.57	-32.25	2.05	434418.55	659694.58	N 32 11 37.37	W 103 57 2.88
	20193.00	89.58	2.02	10355.73	10417.58	10417.54	-30.02	1.42	434513.51	659696.81	N 32 11 38.31	W 103 57 2.55
	20287.00	89.52	0.84	10356.47	10511.54	10511.51	-27.87	1.26	434607.47	659699.16	N 32 11 39.24	W 103 57 2.52
	20382.00	89.62	1.36	10357.18	10606.52	10606.49	-25.85	0.56	434702.44	659700.98	N 32 11 40.18	W 103 57 2.49
340' FNL Crossing	20476.00	89.69	0.97	10357.75	10700.49	10700.46	-23.93	0.42	434796.41	659702.90	N 32 11 41.11	W 103 57 2.47
	20477.00	89.89	0.97	10357.75	10701.49	10701.46	-23.92	0.42	434797.41	659702.91	N 32 11 41.12	W 103 57 2.47
Final MWD	20521.00	89.85	0.74	10358.00	10745.48	10745.46	-23.26	0.53	434841.40	659703.57	N 32 11 41.56	W 103 57 2.46
Proj to TD	20570.00	89.85	0.74	10358.30	10794.48	10794.45	-22.63	0.00	434890.39	659704.20	N 32 11 42.04	W 103 57 2.45

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EDU 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	Oxy Corral Fly 35-26 Federal Com 35H / Oxy Corral Fly 35-26 Federal Com 35H Gyro + MWD 0-
	1	26.500	26.500	Act Sens	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Oxy Corral Fly 35-26 Federal Com 35H / Oxy Corral Fly 35-26 Federal Com 35H Gyro + MWD 0-
	1	26.500	446.500	Act Sens	30.000	30.000	NAL_NSG+MSHOT	Oxy Corral Fly 35-26 Federal Com 35H / Oxy Corral Fly 35-26 Federal Com 35H Gyro + MWD 0-
	1	446.500	2350.000	Act Sens	30.000	30.000	NAL_MWD_PLUS_0_5_DEG	Oxy Corral Fly 35-26 Federal Com 35H / Oxy Corral Fly 35-26 Federal Com 35H Gyro + MWD 0-
	1	2350.000	20570.000	Act Sens	30.000	30.000	NAL_MWD_IFR1+MS	Oxy Corral Fly 35-26 Federal Com 35H / Oxy Corral Fly 35-26 Federal Com 35H Gyro + MWD 0-

...Oxy Corral Fly 35-26 Federal Com 35H/Oxy Corral Fly 35-26 Federal Com 35H Gyro + MWD 0-20570' MD

Schlumberger

OXY



Borehole:	Well:	Field:	Structure:
Oxy Corral Fly 35-26 Federal Com 35H	Oxy Corral Fly 35-26 Federal Com 35H	NM Eddy County (NAD 83)	Oxy Corral Fly 35-26 Federal Com 35H

Gravity & Magnetic Parameters				Surface Location				NAOBS Near Mexico State Plane, Eastern Zone, US Feet				Miscellaneous			
Model:	SPR	Op:	50.892	Date:	27-Oct-2018	Lat:	N 31 9 51.23	Northing:	434895.771US	Grid Zone:	Q 3032	Slot:	Qty Control Pts 25: 25 Federal Control Pts	Typ Ref:	RUC3068 SR above BSL
MagDec:	6.832	FB:	47534.7eT	Gravity FB:	998.453mgs (9.80665 Base-B)	Long:	W 100 57 2.63	Easting:	63726.839US	Scale Fact:	0.30992514	Plan:	Qty Control Pts 350 Federal Control 350d Bys + RWD 0-30279 MID		