

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

RECEIVED

March 22, 2018

AUG 17 2018

OXY USA INC
PO BOX 4294
HOUSTON, TX 77210

DISTRICT II-ARTESIA O.G.D.

Re:

2, 25S, 29E, EDDY NM
N 32.16306 W -103.96333

CLIENT: OXY USA INC
WELL: Corral Fly 02-01 State 21H
FIELD: Pierce Crossing; Bone Spring, East

RIG: H&P 635
COUNTY: Eddy
API NO: 30-015-44507
JOB NO: 17MLD3081

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>
Kristina Hansen FET	Corral Fly 02-01 State 21H Original Hole	495.00 Ft to 18955.00 Ft	January 1, 2018 to January 20, 2018	TelePacer

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

Les Foster
Field Service Manager

Schlumberger Drilling and Measurements

Drilling Group

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Well Reference:

2, 25S, 29E, EDDY NM

N 32.16306 W -103.96333

Schlumberger

I, Kristina Hansen certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of January 01, 2018 through January 20, 2018, conduct or supervise the taking of the TelePacer surveys from a depth of 495.00 feet to a depth of 18955.00 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 02-01 State 21H Well (Original Hole) API No. 30-015-44507 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

Kristina Hansen

FET

Subscribed and Sworn to before me this 23 day of March (month) 2018 (yr)

My Commission expires:

2-16-2022

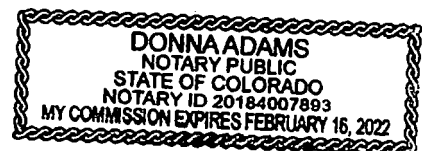
Donna Adams

Notary Public

Adams County Colorado

(County State)

(signature)



Oxy Corral Fly 02-01 State 21H Gyro+MWD 0-18,990' Survey Geodetic Report

(Def Survey)



Report Date: January 19, 2018 - 09:18 AM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Corral Fly 02-01 State 21H / Oxy Corral Fly 02-01 State 21H
 Wall: Oxy Corral Fly 02-01 State 21H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Oxy Corral Fly 02-01 State 21H Gyro+MWD 0-18,990'
 Survey Date: December 21, 2017
 Tort / AHD / DDI / ERD Ratio: 196.943 ° / 11096.999 ft / 6.662 / 1.228
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 9' 47.3501", W 103° 57' 47.91736"
 Location Grid N/E Y/X: N 423287.190 RUS, E 655836.970 tUS
 CRS Grid Convergence Angle: 0.1970 °
 Grid Scale Factor: 0.99992411
 Version / Patch: 2.10.696.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 85.479 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=26.5'
 TVD Reference Elevation: 3023.100 ft above MSL
 Seabed / Ground Elevation: 2996.600 ft above MSL
 Magnetic Declination: 7.049 °
 Total Gravity Field Strength: 998.4589mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48041.590 nT
 Magnetic Dip Angle: 59.939 °
 Declination Date: December 21, 2017
 Magnetic Declination Model: HDGM 2017
 North Reference: Grid North
 Grid Convergence Used: 0.1970 °
 Total Corr Mag North->Grid North: 6.8516 °
 Local Coord Referenced To: Well Head

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	423287.19	655836.97	N 32° 9' 47.35" W 103° 57' 47.92"	
	35.90	0.97	85.63	35.90	0.30	0.02	0.30	2.70	423287.21	655837.27	N 32° 9' 47.35" W 103° 57' 47.91"	
	91.60	0.90	88.97	91.59	1.21	0.07	1.21	0.16	423287.26	655838.18	N 32° 9' 47.35" W 103° 57' 47.90"	
	121.20	0.77	87.78	121.19	1.64	0.08	1.64	0.44	423287.27	655838.61	N 32° 9' 47.35" W 103° 57' 47.90"	
	149.50	0.93	90.02	149.48	2.06	0.09	2.06	0.58	423287.28	655839.03	N 32° 9' 47.35" W 103° 57' 47.89"	
	179.00	0.92	93.56	178.98	2.53	0.07	2.54	0.20	423287.26	655839.51	N 32° 9' 47.35" W 103° 57' 47.89"	
	208.70	0.88	83.99	208.68	3.00	0.08	3.00	0.52	423287.27	655839.97	N 32° 9' 47.35" W 103° 57' 47.88"	
	238.00	0.90	74.42	237.97	3.45	0.17	3.45	0.51	423287.36	655840.42	N 32° 9' 47.35" W 103° 57' 47.88"	
	269.30	0.84	61.79	269.27	3.90	0.34	3.89	0.64	423287.53	655840.86	N 32° 9' 47.36" W 103° 57' 47.87"	
	300.90	0.88	63.04	300.87	4.34	0.56	4.31	0.14	423287.75	655841.28	N 32° 9' 47.36" W 103° 57' 47.87"	
	331.10	0.66	61.96	331.06	4.71	0.75	4.67	0.73	423287.94	655841.64	N 32° 9' 47.36" W 103° 57' 47.86"	
	362.80	0.50	54.38	362.76	5.00	0.91	4.94	0.56	423288.10	655841.91	N 32° 9' 47.36" W 103° 57' 47.86"	
Last Gyro	382.10	0.57	51.94	382.06	5.15	1.02	5.08	0.38	423288.21	655842.05	N 32° 9' 47.36" W 103° 57' 47.86"	
	495.00	0.33	20.75	494.96	5.76	1.67	5.64	0.30	423288.86	655842.61	N 32° 9' 47.37" W 103° 57' 47.85"	
	556.00	0.36	335.54	555.98	5.77	2.01	5.62	0.44	423289.20	655842.59	N 32° 9' 47.37" W 103° 57' 47.85"	
	621.00	0.23	318.38	620.96	5.62	2.29	5.45	0.24	423289.48	655842.42	N 32° 9' 47.38" W 103° 57' 47.85"	
	681.00	0.48	298.59	680.95	5.33	2.50	5.15	0.46	423289.69	655842.12	N 32° 9' 47.38" W 103° 57' 47.85"	
	799.00	0.45	202.09	798.95	4.71	2.31	4.54	0.59	423289.50	655841.51	N 32° 9' 47.38" W 103° 57' 47.86"	
	890.00	0.36	130.31	889.95	4.76	1.80	4.63	0.53	423288.98	655841.60	N 32° 9' 47.37" W 103° 57' 47.86"	
	1071.00	0.29	329.83	1070.95	4.96	1.82	4.83	0.35	423289.01	655841.80	N 32° 9' 47.37" W 103° 57' 47.86"	
	1251.00	0.18	227.97	1250.95	4.54	2.03	4.39	0.21	423289.22	655841.36	N 32° 9' 47.37" W 103° 57' 47.87"	
	1342.00	0.29	223.94	1341.95	4.25	1.77	4.13	0.12	423288.96	655841.10	N 32° 9' 47.37" W 103° 57' 47.87"	
	1452.00	0.44	145.31	1451.95	4.26	1.22	4.17	0.43	423288.41	655841.14	N 32° 9' 47.36" W 103° 57' 47.87"	
	1547.00	0.45	121.15	1546.94	4.74	0.73	4.70	0.20	423287.92	655841.67	N 32° 9' 47.36" W 103° 57' 47.86"	
	1706.00	0.08	130.22	1705.94	5.33	0.33	5.32	0.23	423287.52	655842.29	N 32° 9' 47.36" W 103° 57' 47.86"	
	1801.00	0.18	24.96	1800.94	5.45	0.42	5.43	0.23	423287.61	655842.40	N 32° 9' 47.36" W 103° 57' 47.85"	
	1896.00	0.36	337.85	1895.94	5.43	0.84	5.38	0.29	423288.02	655842.35	N 32° 9' 47.36" W 103° 57' 47.85"	
	1991.00	0.23	210.10	1990.94	5.23	0.95	5.18	0.56	423288.14	655842.15	N 32° 9' 47.36" W 103° 57' 47.86"	
	2086.00	0.13	180.27	2085.94	5.12	0.67	5.08	0.14	423287.86	655842.05	N 32° 9' 47.36" W 103° 57' 47.86"	
	2181.00	0.22	72.54	2180.94	5.29	0.62	5.25	0.30	423287.81	655842.22	N 32° 9' 47.36" W 103° 57' 47.86"	
	2275.00	0.18	51.95	2274.94	5.58	0.77	5.54	0.09	423287.96	655842.51	N 32° 9' 47.36" W 103° 57' 47.85"	
	2370.00	0.28	126.86	2369.94	5.88	0.72	5.84	0.31	423287.91	655842.81	N 32° 9' 47.36" W 103° 57' 47.85"	
	2465.00	0.52	68.23	2464.94	6.47	0.74	6.43	0.47	423287.93	655843.40	N 32° 9' 47.36" W 103° 57' 47.84"	
	2654.00	0.24	50.41	2653.93	7.61	1.31	7.53	0.16	423288.50	655844.50	N 32° 9' 47.37" W 103° 57' 47.83"	
	2749.00	0.13	141.55	2748.93	7.84	1.35	7.75	0.29	423288.54	655844.72	N 32° 9' 47.37" W 103° 57' 47.83"	
	2844.00	0.18	117.33	2843.93	8.02	1.20	7.95	0.09	423288.39	655844.92	N 32° 9' 47.36" W 103° 57' 47.82"	
	2939.00	0.08	19.07	2938.93	8.18	1.19	8.11	0.22	423288.38	655845.08	N 32° 9' 47.36" W 103° 57' 47.82"	
	3034.00	0.17	196.40	3033.93	8.15	1.12	8.09	0.26	423288.31	655845.06	N 32° 9' 47.36" W 103° 57' 47.82"	
	3129.00	0.06	141.05	3128.93	8.13	0.95	8.08	0.15	423288.14	655845.05	N 32° 9' 47.36" W 103° 57' 47.82"	
	3224.00	0.08	159.86	3223.93	8.18	0.85	8.13	0.03	423288.04	655845.10	N 32° 9' 47.36" W 103° 57' 47.82"	
	3319.00	0.08	174.96	3318.93	8.19	0.72	8.16	0.02	423287.91	655845.13	N 32° 9' 47.36" W 103° 57' 47.82"	
	3414.00	0.06	166.58	3413.93	8.20	0.60	8.18	0.02	423287.79	655845.15	N 32° 9' 47.36" W 103° 57' 47.82"	
	3509.00	1.49	21.77	3508.92	8.76	1.70	8.65	1.62	423288.89	655845.62	N 32° 9' 47.37" W 103° 57' 47.82"	
	3604.00	2.98	13.08	3603.84	10.05	5.25	9.67	1.60	423292.44	655846.64	N 32° 9' 47.40" W 103° 57' 47.80"	
	3699.00	4.64	11.54	3698.83	11.86	11.42	10.99	1.75	423298.61	655847.96	N 32° 9' 47.47" W 103° 57' 47.79"	
	3794.00	6.32	8.13	3793.19	14.07	20.37	12.50	1.80	423307.56	655849.47	N 32° 9' 47.55" W 103° 57' 47.77"	
	3889.00	7.71	5.78	3887.48	16.35	31.88	13.88	1.49	423319.07	655850.85	N 32° 9' 47.67" W 103° 57' 47.75"	
	3983.00	8.44	3.31	3980.55	18.42	45.04	14.92	0.86	423332.23	655851.89	N 32° 9' 47.80" W 103° 57' 47.74"	
	4078.00	8.53	0.73	4074.51	20.02	59.05	15.41	0.41	423346.23	655852.38	N 32° 9' 47.94" W 103° 57' 47.74"	
	4173.00	8.39	356.62	4168.48	20.80	73.01	15.09	0.65	423360.20	655852.06	N 32° 9' 48.07" W 103° 57' 47.74"	
	4268.00	8.86	356.68	4262.40	21.09	87.24	14.26	0.49	423374.42	655851.23	N 32° 9' 48.22" W 103° 57' 47.75"	
	4362.00	9.64	357.88	4355.18	21.57	102.33	13.55	0.85	423389.51	655850.52	N 32° 9' 48.37" W 103° 57' 47.76"	
	4457.00	10.29	358.24	4448.74	22.31	118.76	12.99	0.69	423405.94	655849.96	N 32° 9' 48.53" W 103° 57' 47.76"	
	4552.00	10.39	357.62	4542.20	23.04	135.80	12.38	0.16	423422.98	655849.35	N 32° 9' 48.70" W 103° 57' 47.77"	
	4648.00	10.25	355.08	4634.68	23.30	152.60	11.31	0.51	423439.78	655848.28	N 32° 9' 48.86" W 103° 57' 47.78"	
	4741.00	10.44	353.89	4728.14	23.00	169.58	9.67	0.30	423456.76	655846.64	N 32° 9' 49.03" W 103° 57' 47.80"	
	4836.00	10.46	350.95	4821.56	22.08	186.65	7.39	0.56	423473.83	655844.36	N 32° 9' 49.20" W 103° 57' 47.82"	
	4931.00	10.66	350.07	4914.95	20.57	203.83	4.52	0.27	423491.00	655841.49	N 32° 9' 49.37" W 103° 57' 47.86"	
	5120.00	10.58	345.35	5100.72	15.87	237.83	-2.88	0.46	423525.00	655834.09	N 32° 9' 49.71" W 103° 57' 47.94"	
	5215.00	10.10	346.55	5194.18	13.05	254.37	-7.02	0.55	423541.54	655829.95	N 32° 9' 49.87" W 103° 57' 47.99"	
	5310.00	10.21	344.67	5287.69	10.17	270.59	-11.19	0.37	423557.76	655825.78	N 32° 9' 50.03" W 103° 57' 48.04"	
	5405.00	9.93	348.99	5381.23	7.67	286.75	-14.98	0.85	423573.92	655821.99	N 32° 9' 50.19" W 103° 57' 48.08"	
	5499.00	10.00	354.11	5473.81	6.56	302.83	-17.36	0.95	423589.99	655819.61	N 32° 9' 50.35" W 103° 57' 48.11"	
	5594.00	9.87	358.57	5567.39	6.80	319.17	-18.41	0.82	423606.34	655818.56	N 32° 9' 50.51" W 103° 57' 48.12"	
	5689.00	9.96	1.94	5680.97	8.16	335.52	-18.34	0.62	423622.69	655818.63	N 32° 9' 50.67" W 103° 57' 48.12"	
	5784.00	10.21	4.33	5754.50	10.38	352.13	-17.42	0.51	423639.29	655819.55	N 32° 9' 50.84" W 103° 57' 48.11"	
	5879.00	10.14	4.05	5848.01	12.93	368.87	-16.20	0.09	423656.03	655820.77	N 32° 9' 51.00" W 103° 57' 48.09"	
	5973.00	10.40	3.00	5940.50	15.27	385.59	-15.17	0.34	423672.75	655821.80	N 32° 9' 51.17" W 103° 57' 48.08"	
	6068.00	10.39	1.31	6033.94	17.26	402.72	-14.52	0.32	423689.88	655822.45	N 32° 9' 51.34" W 103° 57' 48.07"	
	6258.00	10.11	353.97	6220.92	18.56	436.43	-15.88	0.70	423723.58	655821.09	N 32° 9' 51.67" W 103° 57' 48.08"	
	6352.00	9.45	351.98	6313.55	17.87	452.28	-17.83	0.79	423739.44	655819.14	N 32° 9' 51.83" W 103° 57' 48.11"	
	6447.00	9.08	349.38	6407.31	16.60	467.37	-20.30	0.59	423754.52	655816.67	N	

Comments	MD (ft)	Incl (°)	Azim Grd (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)
	6541.00	9.03	347.96	6500.14	14.85	481.88	-23.20	0.24	423769.03	655813.77	N 32° 9' 52.12" W	103° 57' 48.17"
	6636.00	9.44	347.14	6593.91	12.74	496.76	-26.49	0.45	423783.91	655810.48	N 32° 9' 52.27" W	103° 57' 48.21"
	6730.00	8.68	344.00	6686.74	10.21	511.10	-30.16	0.96	423798.25	655806.81	N 32° 9' 52.41" W	103° 57' 48.25"
	6825.00	8.61	341.84	6780.66	7.11	524.74	-34.36	0.35	423811.89	655802.62	N 32° 9' 52.55" W	103° 57' 48.30"
	6919.00	8.50	341.34	6873.61	3.75	538.01	-38.77	0.14	423825.16	655798.20	N 32° 9' 52.68" W	103° 57' 48.35"
	7013.00	8.33	344.39	6966.60	0.75	551.15	-42.83	0.51	423838.30	655794.15	N 32° 9' 52.81" W	103° 57' 48.39"
	7108.00	8.04	346.10	7060.63	-1.66	564.23	-46.27	0.40	423851.37	655790.70	N 32° 9' 52.94" W	103° 57' 48.43"
	7202.00	8.03	346.02	7153.71	-3.81	576.98	-49.44	0.02	423864.13	655787.53	N 32° 9' 53.06" W	103° 57' 48.47"
	7297.00	7.47	348.19	7247.84	-5.68	589.46	-52.31	0.67	423876.61	655784.67	N 32° 9' 53.19" W	103° 57' 48.50"
	7392.00	6.88	356.04	7342.10	-6.41	601.19	-53.96	1.20	423888.33	655783.01	N 32° 9' 53.30" W	103° 57' 48.52"
	7486.00	6.26	8.06	7435.49	-5.24	611.88	-53.63	1.60	423899.02	655783.34	N 32° 9' 53.41" W	103° 57' 48.52"
	7581.00	6.04	15.17	7529.94	-2.43	621.83	-51.60	0.83	423908.97	655785.37	N 32° 9' 53.51" W	103° 57' 48.49"
	7676.00	7.30	1.99	7624.30	-0.06	632.69	-50.08	2.08	423919.83	655786.89	N 32° 9' 53.62" W	103° 57' 48.47"
	7771.00	8.36	348.32	7718.42	-0.24	645.48	-51.27	2.25	423932.62	655785.70	N 32° 9' 53.74" W	103° 57' 48.49"
	7865.00	9.69	351.26	7811.26	-1.67	659.99	-53.86	1.50	423947.13	655783.12	N 32° 9' 53.89" W	103° 57' 48.52"
	7960.00	10.50	358.50	7904.79	-1.80	676.55	-55.30	1.58	423963.68	655781.68	N 32° 9' 54.05" W	103° 57' 48.53"
	8055.00	11.12	5.18	7998.11	0.20	694.33	-54.70	1.47	423981.46	655782.28	N 32° 9' 54.23" W	103° 57' 48.53"
	8149.00	11.37	9.15	8090.30	3.91	712.50	-52.41	0.87	423999.64	655784.57	N 32° 9' 54.41" W	103° 57' 48.50"
	8199.00	10.93	13.31	8139.36	6.53	721.98	-50.53	1.83	424009.12	655786.44	N 32° 9' 54.50" W	103° 57' 48.48"
	8331.00	9.82	25.87	8269.22	16.06	744.29	-42.74	1.90	424031.43	655794.24	N 32° 9' 54.72" W	103° 57' 48.38"
	8426.00	11.21	67.63	8362.75	28.97	755.11	-30.64	7.97	424042.24	655806.33	N 32° 9' 54.83" W	103° 57' 48.24"
	8470.00	15.25	74.76	8405.58	38.73	758.26	-21.10	9.89	424045.39	655815.87	N 32° 9' 54.86" W	103° 57' 48.13"
	8520.00	21.32	77.50	8453.03	54.20	761.96	-5.87	12.26	424049.09	655831.10	N 32° 9' 54.89" W	103° 57' 47.96"
	8615.00	26.50	78.74	8539.85	92.38	769.84	31.80	5.48	424056.97	655868.77	N 32° 9' 54.97" W	103° 57' 47.52"
	8710.00	33.39	80.69	8622.12	139.54	778.22	78.44	7.32	424065.35	655915.41	N 32° 9' 55.05" W	103° 57' 46.97"
	8804.00	42.50	86.46	8696.19	197.20	784.38	135.80	10.39	424071.51	655972.76	N 32° 9' 55.11" W	103° 57' 46.31"
	8899.00	55.68	87.54	8758.27	268.81	788.06	207.34	13.90	424075.19	656044.29	N 32° 9' 55.14" W	103° 57' 45.47"
	8994.00	64.99	88.47	8805.24	351.18	790.90	289.75	9.84	424078.03	656126.70	N 32° 9' 55.17" W	103° 57' 44.52"
	9089.00	72.12	91.75	8839.96	439.24	790.67	378.10	8.16	424077.80	656215.04	N 32° 9' 55.16" W	103° 57' 43.49"
	9184.00	83.97	96.56	8859.61	530.91	783.87	470.59	13.42	424071.00	656307.53	N 32° 9' 55.09" W	103° 57' 42.41"
	9278.00	91.18	97.50	8863.59	622.86	772.38	563.74	7.73	424059.51	656400.67	N 32° 9' 54.98" W	103° 57' 41.33"
	9434.00	90.73	92.43	8860.98	776.66	758.88	719.08	3.26	424046.01	656556.00	N 32° 9' 54.84" W	103° 57' 39.52"
	9528.00	90.50	91.99	8859.98	870.00	755.26	813.01	0.53	424042.39	656649.91	N 32° 9' 54.80" W	103° 57' 38.43"
	9717.00	89.55	90.02	8859.89	1058.11	751.94	1001.97	1.16	424039.08	656838.86	N 32° 9' 54.76" W	103° 57' 36.23"
	9812.00	89.61	89.93	8860.59	1152.82	751.99	1096.96	0.11	424039.12	656933.85	N 32° 9' 54.76" W	103° 57' 35.13"
	9906.00	89.21	89.78	8861.56	1246.54	752.22	1190.96	0.45	424039.36	657027.84	N 32° 9' 54.76" W	103° 57' 34.03"
	10001.00	88.60	89.92	8863.37	1341.25	752.47	1285.94	0.66	424039.60	657122.81	N 32° 9' 54.75" W	103° 57' 32.93"
	10096.00	88.54	90.02	8865.74	1435.93	752.52	1380.91	0.12	424039.65	657217.27	N 32° 9' 54.75" W	103° 57' 31.82"
	10190.00	88.77	90.46	8867.95	1529.58	752.13	1474.88	0.53	424039.26	657311.74	N 32° 9' 54.74" W	103° 57' 30.73"
	10284.00	88.77	90.33	8869.97	1623.21	751.48	1568.86	0.14	424038.61	657405.71	N 32° 9' 54.74" W	103° 57' 29.64"
	10379.00	88.60	90.03	8872.15	1717.66	751.18	1663.83	0.36	424038.31	657500.67	N 32° 9' 54.73" W	103° 57' 28.53"
	10474.00	88.49	89.99	8874.56	1812.54	751.17	1758.80	0.12	424038.30	657595.64	N 32° 9' 54.73" W	103° 57' 27.43"
	10568.00	88.54	89.79	8877.00	1906.23	751.35	1852.77	0.22	424038.48	657689.60	N 32° 9' 54.72" W	103° 57' 26.33"
	10663.00	88.37	89.97	8879.56	2000.91	751.54	1947.74	0.26	424038.68	657784.56	N 32° 9' 54.72" W	103° 57' 25.23"
	10851.00	88.82	89.88	8884.17	2188.29	751.79	2135.68	0.24	424038.92	657972.48	N 32° 9' 54.72" W	103° 57' 23.04"
	10945.00	89.05	87.85	8885.92	2282.10	753.65	2229.64	2.17	424040.78	658066.44	N 32° 9' 54.73" W	103° 57' 21.95"
	11040.00	89.05	87.94	8887.49	2377.01	757.14	2324.56	0.09	424044.27	658161.35	N 32° 9' 54.77" W	103° 57' 20.85"
	11135.00	89.44	88.12	8888.74	2471.90	760.41	2419.50	0.45	424047.54	658256.28	N 32° 9' 54.79" W	103° 57' 19.74"
	11229.00	89.61	88.99	8889.52	2565.76	762.78	2513.46	0.94	424049.91	658350.24	N 32° 9' 54.81" W	103° 57' 18.65"
	11324.00	89.05	87.95	8890.63	2660.63	765.31	2608.42	1.24	424052.44	658445.19	N 32° 9' 54.84" W	103° 57' 17.54"
	11419.00	89.05	87.86	8892.21	2755.53	768.79	2703.35	0.09	424055.92	658540.10	N 32° 9' 54.87" W	103° 57' 16.44"
	11513.00	89.05	87.96	8893.77	2849.43	772.21	2797.27	0.11	424059.34	658634.02	N 32° 9' 54.90" W	103° 57' 15.35"
	11608.00	89.27	88.15	8895.16	2944.32	775.44	2892.21	0.31	424062.57	658728.95	N 32° 9' 54.93" W	103° 57' 14.24"
	11702.00	89.05	87.84	8896.54	3038.22	778.73	2986.14	0.40	424065.86	658822.87	N 32° 9' 54.96" W	103° 57' 13.15"
	11797.00	89.05	87.84	8898.11	3133.13	782.31	3081.06	0.00	424069.44	658917.79	N 32° 9' 54.99" W	103° 57' 12.04"
	11891.00	89.16	88.01	8899.58	3227.03	785.71	3174.98	0.22	424072.84	659011.71	N 32° 9' 55.02" W	103° 57' 10.95"
	11986.00	88.88	87.80	8901.20	3321.93	789.18	3269.91	0.37	424076.31	659106.62	N 32° 9' 55.05" W	103° 57' 9.85"
	12080.00	89.05	88.09	8902.90	3415.83	792.55	3363.83	0.36	424079.68	659200.54	N 32° 9' 55.08" W	103° 57' 8.75"
	12175.00	88.99	87.83	8904.53	3510.73	795.93	3458.76	0.28	424083.06	659295.46	N 32° 9' 55.11" W	103° 57' 7.65"
	12268.00	89.10	87.86	8906.08	3603.64	799.43	3551.68	0.12	424086.56	659388.37	N 32° 9' 55.14" W	103° 57' 6.57"
	12458.00	89.05	87.73	8909.14	3793.46	806.74	3741.51	0.07	424093.87	659578.19	N 32° 9' 55.21" W	103° 57' 4.36"
	12553.00	88.82	87.76	8910.91	3888.37	810.48	3836.42	0.24	424097.60	659673.09	N 32° 9' 55.24" W	103° 57' 3.26"
	12647.00	88.49	89.76	8913.12	3982.18	812.51	3930.37	2.16	424099.64	659767.03	N 32° 9' 55.26" W	103° 57' 2.16"
	12742.00	88.43	89.87	8915.67	4076.87	812.82	4025.33	0.13	424099.94	659861.99	N 32° 9' 55.26" W	103° 57' 1.06"
	12837.00	88.49	90.01	8918.22	4171.55	812.92	4120.30	0.16	424100.04	659956.95	N 32° 9' 55.25" W	103° 56' 59.95"
	12931.00	88.43	89.98	8920.75	4265.23	812.92	4214.27	0.07	424100.05	660050.91	N 32° 9' 55.25" W	103° 56' 58.86"
	13025.00	88.49	89.87	8923.28	4358.91	813.05	4308.23	0.13	424100.17	660144.87	N 32° 9' 55.25" W	103° 56' 57.77"
	13120.00	88.65	89.94	8925.65	4453.60	813.20	4403.20	0.18	424100.33	660239.83	N 32° 9' 55.25" W	103° 56' 56.66"
	13214.00	88.49	89.99	8927.99	4547.28	813.26	4497.17	0.18	424100.39	660333.79	N 32° 9' 55.24" W	103° 56' 55.57"
	13308.00	88.65	89.95	8930.34	4640.96	813.31	4591.14	0.18	424100.44	660427.76	N 32° 9' 55.24" W	103° 56' 54.48"
	13403.00	89.05	89.73	8932.24	4735.67	813.58	4686.12	0.48	424100.70	660522.73	N 32° 9' 55.24" W	103° 56' 53.37"
	13497.00	88.93	89.92	8933.90	4829.38	813.86	4780.11	0.24	424100.99	660616.71	N 32° 9' 55.24" W	103° 56' 52.28"
	13592.00	89.22	89.79	8935.44	4924.09	814.10	4875.10	0.33	424101.23	660711.69	N 32° 9' 55.24" W	103° 56' 51.17"
	13686.00	88.71	89.74	8937.13	5017.82	814.49	4969.08	0.55	424101.62	660805.66	N 32° 9' 55.24" W	103° 56' 50.08"
	13781.00	89.05	89.71	8938.99	5112.54	814.95	5064.06	0.36	424102.07	660900.64	N 32° 9' 55.24" W	103° 56' 48.97"
	1387											

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	16428.00	89.55	89.91	8970.59	7751.75	823.90	7710.80	0.11	424111.03	663547.17	N 32 9 55.23 W 103 56 18.18	
	16523.00	89.44	89.96	8971.43	7846.48	824.01	7805.79	0.13	424111.13	663642.16	N 32 9 55.23 W 103 56 17.08	
	16617.00	89.55	89.90	8972.25	7940.17	824.12	7899.79	0.13	424111.25	663736.15	N 32 9 55.23 W 103 56 15.99	
	16712.00	87.98	88.15	8974.30	8034.96	825.74	7994.75	2.47	424112.86	663831.10	N 32 9 55.24 W 103 56 14.88	
	16807.00	89.94	89.92	8976.03	8129.75	827.34	8089.71	2.78	424114.46	663928.05	N 32 9 55.25 W 103 56 13.78	
	16901.00	89.61	89.91	8976.39	8223.47	827.48	8183.71	0.35	424114.60	664020.04	N 32 9 55.25 W 103 56 12.88	
	16996.00	89.66	89.92	8977.00	8318.18	827.62	8278.71	0.05	424114.74	664115.03	N 32 9 55.25 W 103 56 11.58	
	17091.00	88.54	89.89	8978.49	8412.89	827.77	8373.69	1.18	424114.90	664210.01	N 32 9 55.25 W 103 56 10.47	
	17280.00	88.49	91.95	8983.39	8600.96	824.74	8562.60	1.09	424111.87	664398.90	N 32 9 55.21 W 103 56 8.27	
	17374.00	88.54	90.00	8985.83	8694.49	823.14	8656.55	2.07	424110.27	664492.84	N 32 9 55.19 W 103 56 7.18	
	17564.00	88.99	90.17	8989.92	8883.84	822.86	8848.50	0.25	424109.99	664682.78	N 32 9 55.18 W 103 56 4.97	
	17658.00	88.20	89.53	8992.23	8977.53	823.11	8940.47	1.08	424110.23	664776.75	N 32 9 55.18 W 103 56 3.88	
	17753.00	87.25	88.96	8996.00	9072.25	824.36	9035.39	1.17	424111.48	664871.65	N 32 9 55.19 W 103 56 2.77	
	17847.00	87.93	89.07	8999.95	9165.99	825.97	9129.29	0.73	424113.10	664965.55	N 32 9 55.20 W 103 56 1.68	
	18037.00	88.37	89.67	9006.08	9355.45	828.06	9319.18	0.39	424115.19	665155.42	N 32 9 55.22 W 103 55 59.47	
	18132.00	88.88	89.97	9008.36	9450.15	828.36	9414.15	0.62	424115.48	665250.39	N 32 9 55.22 W 103 55 58.37	
	18226.00	89.05	90.42	9010.06	9543.82	828.04	9508.13	0.51	424115.16	665344.36	N 32 9 55.21 W 103 55 57.28	
	18321.00	88.43	89.93	9012.15	9638.48	827.75	9603.11	0.83	424114.87	665439.33	N 32 9 55.20 W 103 55 56.17	
	18510.00	88.60	90.27	9017.05	9826.80	827.42	9792.05	0.20	424114.54	665628.25	N 32 9 55.19 W 103 55 53.97	
	18699.00	87.08	89.18	9024.17	10015.14	828.32	9980.90	0.99	424115.45	665817.09	N 32 9 55.20 W 103 55 51.78	
	18794.00	87.47	89.36	9028.69	10109.82	829.53	10075.79	0.45	424116.66	665911.97	N 32 9 55.20 W 103 55 50.67	
	18888.00	87.59	89.37	9032.74	10203.52	830.57	10169.69	0.13	424117.70	666005.87	N 32 9 55.21 W 103 55 49.58	
Final MWD	18955.00	87.25	88.72	9035.76	10270.32	831.69	10236.61	1.09	424118.81	666072.79	N 32 9 55.22 W 103 55 48.80	
Survey	18990.00	87.25	88.72	9037.44	10305.22	832.47	10271.57	0.00	424119.60	666107.74	N 32 9 55.23 W 103 55 48.39	
Proj. to Bit												

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)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.501	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Fly 02-01 State 21H Gyro+MWD 0-18,990'
	1	26.501	26.501	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Fly 02-01 State 21H Gyro+MWD 0-18,990'
	1	26.501	382.100	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Fly 02-01 State 21H Gyro+MWD 0-
	1	382.100	18990.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Corral Fly 02-01 State 21H Gyro+MWD 0-

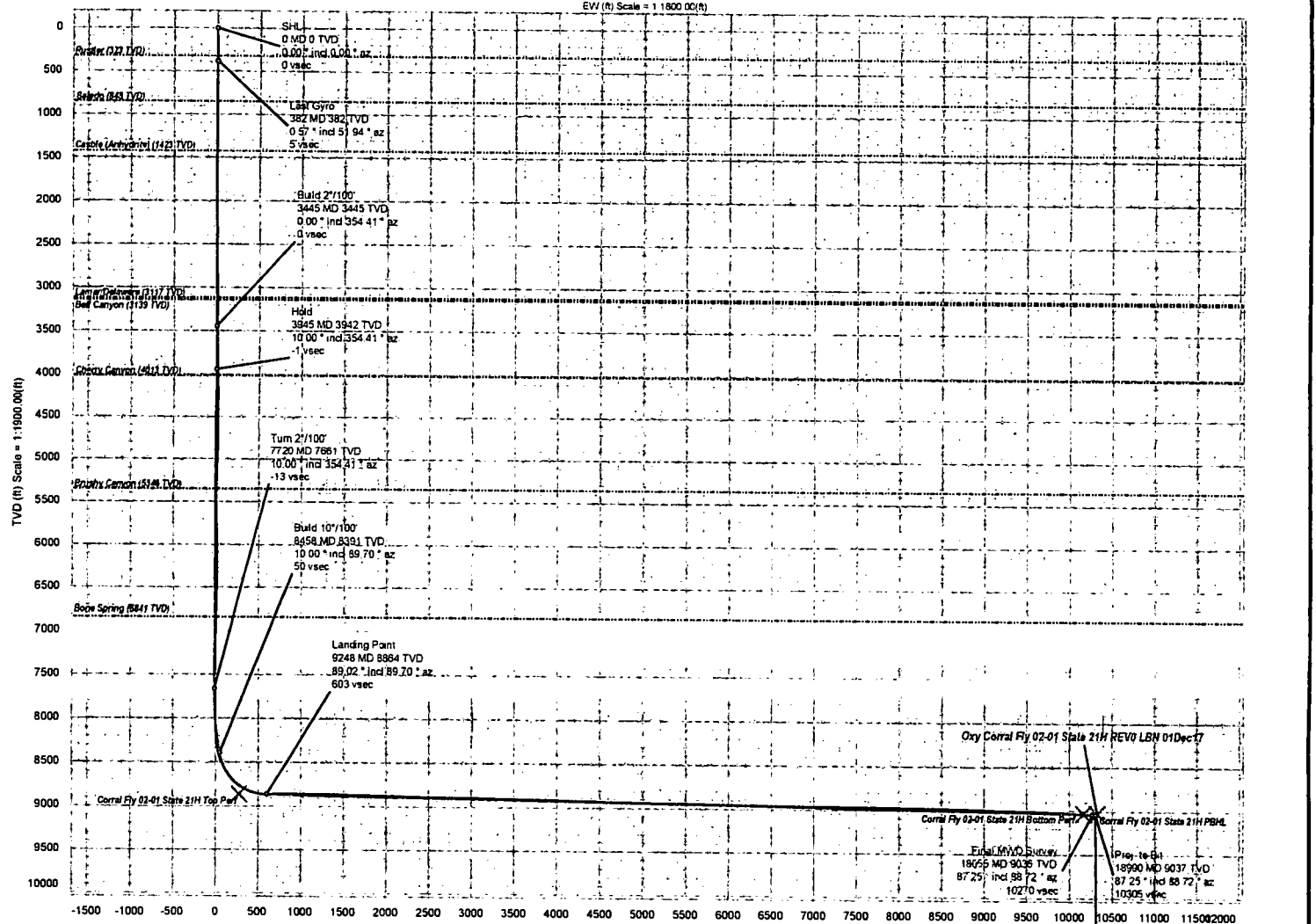
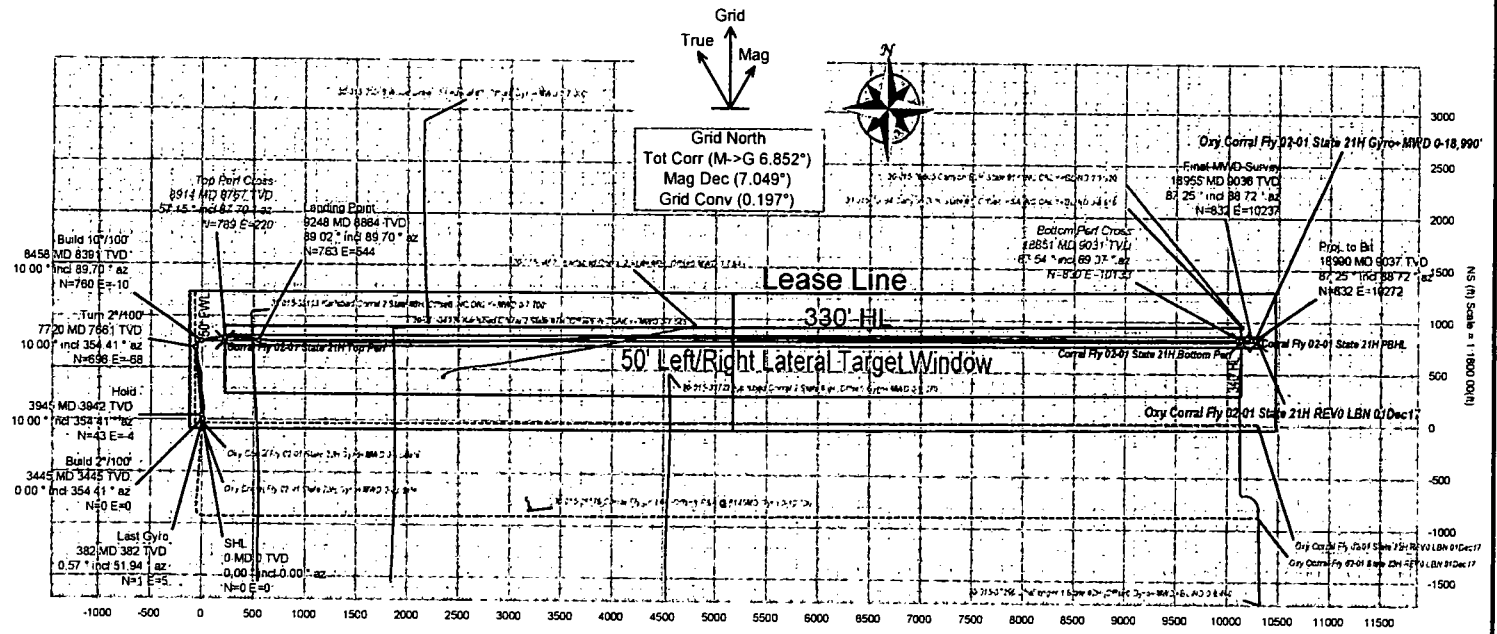
Schlumberger

OXY



Borehole: Well: Oxy Corral Fly 02-01 State 21H Field: NM Eddy County (NAD 83) Structure: Oxy Corral Fly 02-01 State 21H

Gravity & Magnetic Parameters			Surface Location			Miscellaneous		
Model:	HDCM 2017	Dip: 59.94°	Date:	18-Dec-2017	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Slot:	Oxy Corral Fly	TVD Ref:
MagDec:	7.049°	FS: 48042.528nT	Gravity FS:	998.458mg (19.80685 Based)	Lat: N 32 9 47.35	North:	02-01 State 21H	RKB=26.5' (2023.1 ft above MSL)
					Lon: W 102 57 47.92	East:	Oxy Corral Fly 02-01 State 21H REV0 LBN 01Dec17	
						Grid Conv:		0.197°
						Scale Fact:		0.99992411



Vertical Section (ft) Azim = 85.48° Scale = 1:1900.00(ft) Origin = 0N/-S, 0E/-W

Oxy Corral Fly 02-01 State 21H Gyro-MWD 0-18,990'