

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

January 24, 2019

OXY USA INC.

RECEIVED

JUN 17 2019

DISTRICT II-ARTESIA O.C.D.

Re:

2, 25S, 29E, Eddy NM
N 32.16534 W 103.95083

CLIENT: OXY USA INC.
WELL: Corral Fly 35-26 Fed Com 34H
FIELD: Purple Sage Wolfcamp

RIG: H&P 636
COUNTY: Eddy
API NO: 30-015-44729
JOB NO: 18MLD4291

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>
Andres Hernandez FE	Corral Fly 35-26 Fed Com 34H Original Hole	527.00 Ft to 20660.00 Ft	November 26, 2018 to January 20, 2019	SlimPulse Third Party Corrected

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

Jermaine Allen
Field Service Manager

Schlumberger-Private

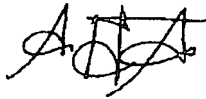
Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
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7220 W I-H 20
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Phone : (432) 742-5400 (Main)
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Schlumberger

Well Reference:
2, 25S, 29E, Eddy NM
N 32.16534 W 103.95083

I, Andres Hernandez certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of November 26, 2018 through January 20, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 527.00 feet to a depth of 20660.00 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 34H Well (Original Hole) API No. 30-015-44729 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
Andres Hernandez
FE



Subscribed and Sworn to before me this 24th day of January (month) 2019 (yr)

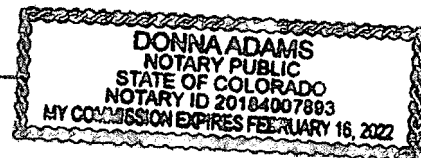
My Commission expires:

2-16-2022

D. Adams
Notary Public

(signature)

Adams County Colorado
(County State)



Schlumberger

Oxy

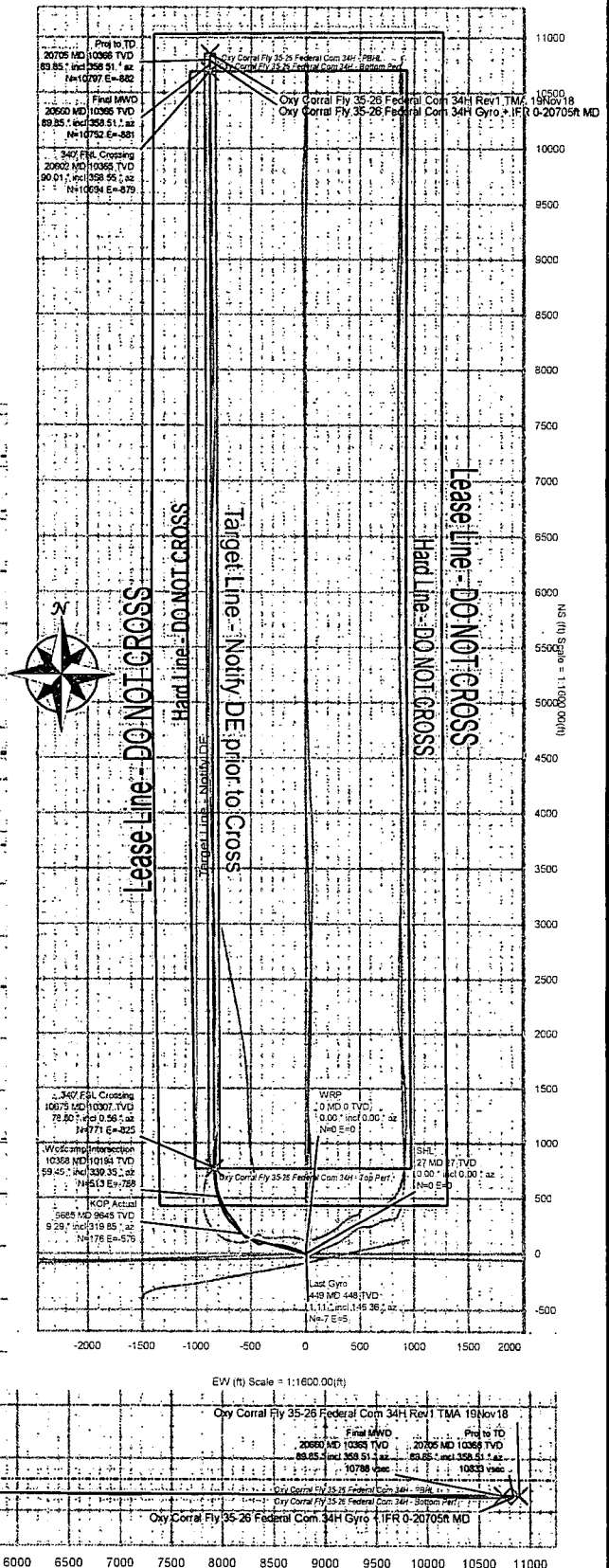
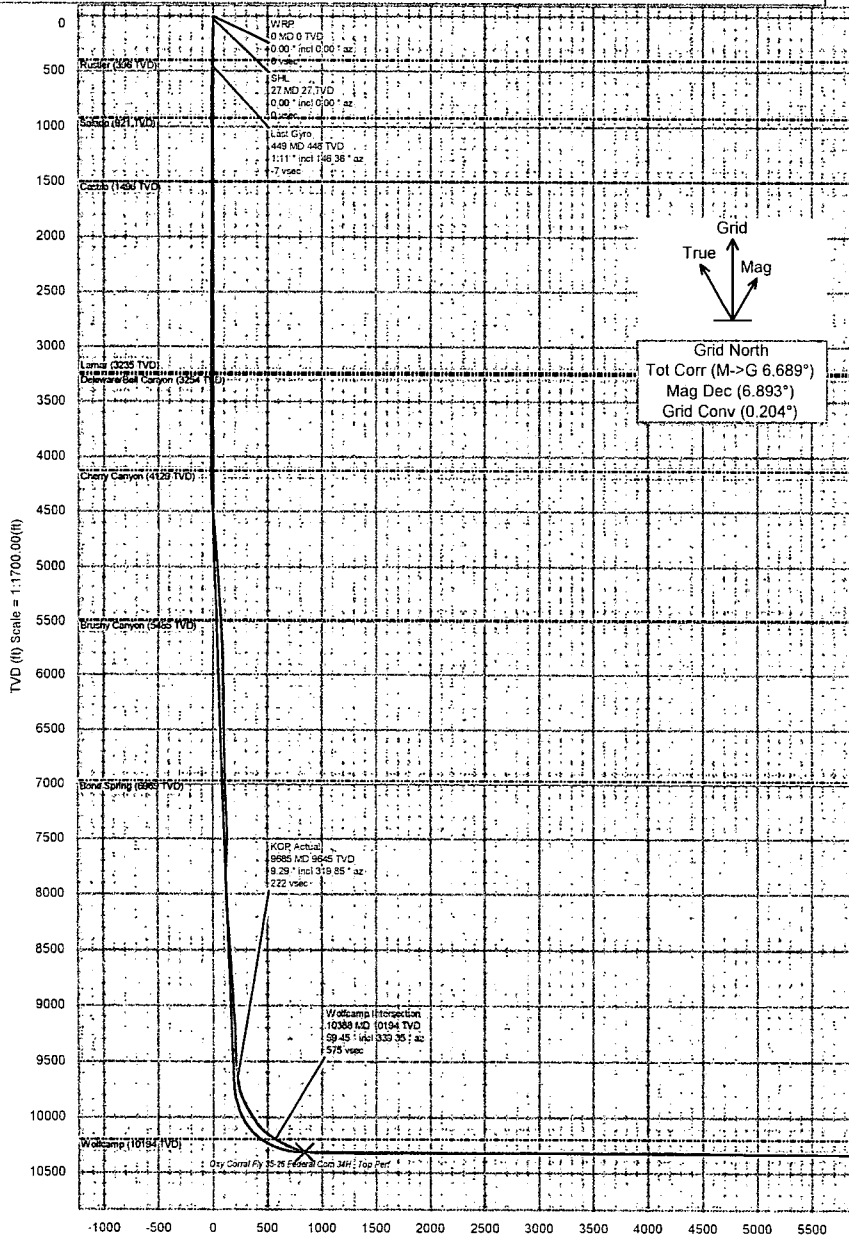


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Corral Fly 35-26 Federal Com 34H	NM Eddy County (NAD 83)	Oxy Corral Fly 35-26 Federal Com 34H

Gravity & Magnetic Parameters	Surface Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Miscellaneous
Model: IFR MagDec: 6.893° Dip: 59.892° Date: 27-Dec-2018 FS: 47934.7mT Gravity FS: 938.433mgm (9.82665 Based)	Lat: N 32 9 55.23 Lon: W 103 57 2.98	Northing: 424096.57RUS Easting: 859696.82RUS Grid Conv: 0.2036° Scale Fact: 0.9992514	Slot: Oxy Corral Fly 35-26 Federal Com 34H Plan: Oxy Corral Fly 35-26 Federal Com 34H Gyro + IFR 0-20705R MD

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)S(-)	E(+)W(-)	DLS
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	
Last Gyro	448.50	1.11	146.36	448.41	-7.13	-6.72	5.35	0.32
KOP Actual	9685.00	9.29	319.85	9645.12	221.66	175.71	-576.38	2.91
Wolfcamp Intersection	10387.71	59.45	339.35	10194.00	574.94	513.02	-787.74	4.61
340' FSL Crossing	10675.40	78.80	0.56	10307.29	835.40	771.34	-824.82	11.03
340' FNL Crossing	20601.83	90.01	358.55	10365.41	10729.89	10693.82	-879.17	0.27
Final MWD	20660.00	89.85	358.51	10365.48	10787.97	10751.97	-880.66	0.27
Proj to TD	20705.00	89.85	358.51	10365.60	10832.90	10796.95	-881.83	0.00



Oxy Corral Fly 35-26 Federal Com 34H Gyro + IFR 0-20705ft MD Survey

Geodetic Report

(Def Survey)



Report Date: January 21, 2019 - 10:42 AM Client: Oxy Field: NM Eddy County (NAD 83) Structure / Slot: Oxy Corral Fly 35-26 Federal Com 34H / Oxy Corral Fly 35-26 Federal Com 34H Well: Oxy Corral Fly 35-26 Federal Com 34H Borehole: Original Borehole UWI / API#: Unknown / Unknown Survey Name: Oxy Corral Fly 35-26 Federal Com 34H Gyro + IFR 0-20705ft MD Survey Date: November 20, 2018 Tort / AHD / DDI / ERD Ratio: 246.607' / 11346.199 ft / 6.747 / 1.095 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 9' 55.23005", W 103° 57' 2.97927" Location Grid N/E Y/X: N 424096.670 ftUS, E 659696.830 ftUS CRS Grid Convergence Angle: 0.2036° Grid Scale Factor: 0.99992514 Version / Patch: 2.10.753.0	Survey / DLS Computation: Minimum Curvature / Lubinski Vertical Section Azimuth: 355.370° (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB - 26.5 TVD Reference Elevation: 3098.300 ft above MSL Seabed / Ground Elevation: 3071.800 ft above MSL Magnetic Declination: 6.893° Total Gravity Field Strength: 998.4533mgm (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: IFR North Reference: Grid North Grid Convergence Used: 0.2036° Total Corr Mag North->Grid North: 6.6894° Local Coord Referenced To: Structure Reference Point	
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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northings (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	424096.67	659696.83	N 32° 9' 55.23"	W 103° 57' 2.98"
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	424096.67	659696.83	N 32° 9' 55.23"	W 103° 57' 2.98"
	94.50	1.32	142.43	94.49	-0.66	-0.62	0.48	1.94	424096.05	659697.31	N 32° 9' 55.22"	W 103° 57' 2.97"
	180.50	1.28	138.02	180.47	-2.25	-2.12	1.72	0.13	424094.55	659698.55	N 32° 9' 55.21"	W 103° 57' 2.96"
	267.50	1.19	141.08	267.45	-3.77	-3.55	2.94	0.13	424093.13	659698.77	N 32° 9' 55.19"	W 103° 57' 2.95"
	361.50	1.37	142.18	361.43	-5.52	-5.19	4.24	0.19	424091.48	659701.07	N 32° 9' 55.18"	W 103° 57' 2.93"
	448.50	1.11	146.36	448.41	-7.13	-6.72	5.35	0.32	424089.96	659702.18	N 32° 9' 55.16"	W 103° 57' 2.92"
	527.00	1.00	150.78	526.89	-8.41	-7.95	6.10	0.17	424088.72	659702.93	N 32° 9' 55.15"	W 103° 57' 2.91"
	650.00	0.09	104.13	649.89	-9.42	-8.91	6.72	0.76	424087.76	659703.55	N 32° 9' 55.14"	W 103° 57' 2.90"
	712.00	0.11	126.09	711.89	-9.47	-8.95	6.82	0.07	424087.72	659703.65	N 32° 9' 55.14"	W 103° 57' 2.90"
	775.00	0.15	127.88	774.89	-9.57	-9.04	6.93	0.06	424087.63	659703.76	N 32° 9' 55.14"	W 103° 57' 2.90"
	837.00	0.13	315.41	836.89	-9.57	-9.04	6.95	0.45	424087.63	659703.78	N 32° 9' 55.14"	W 103° 57' 2.90"
	934.00	0.14	299.70	933.89	-9.42	-8.90	6.77	0.04	424087.77	659703.59	N 32° 9' 55.14"	W 103° 57' 2.90"
	1028.00	0.13	274.87	1027.89	-9.34	-8.84	6.56	0.06	424087.83	659703.39	N 32° 9' 55.14"	W 103° 57' 2.90"
	1122.00	0.11	291.57	1121.89	-9.28	-8.79	6.37	0.04	424087.88	659703.20	N 32° 9' 55.14"	W 103° 57' 2.91"
	1216.00	0.11	141.86	1215.89	-9.32	-8.83	6.34	0.23	424087.84	659703.17	N 32° 9' 55.14"	W 103° 57' 2.91"
	1310.00	0.13	286.74	1309.89	-9.35	-8.87	6.29	0.24	424087.80	659703.12	N 32° 9' 55.14"	W 103° 57' 2.91"
	1404.00	0.13	343.84	1403.89	-9.21	-8.74	6.16	0.13	424087.93	659702.99	N 32° 9' 55.14"	W 103° 57' 2.91"
	1499.00	0.11	342.48	1498.89	-9.01	-8.55	6.11	0.02	424088.12	659702.93	N 32° 9' 55.15"	W 103° 57' 2.91"
	1593.00	0.11	29.39	1592.89	-8.85	-8.38	6.12	0.09	424088.29	659702.95	N 32° 9' 55.15"	W 103° 57' 2.91"
	1687.00	0.15	243.03	1686.89	-8.82	-8.36	6.06	0.27	424088.31	659702.89	N 32° 9' 55.15"	W 103° 57' 2.91"
	1783.00	0.08	39.23	1782.89	-8.82	-8.37	5.99	0.23	424088.30	659702.82	N 32° 9' 55.15"	W 103° 57' 2.91"
	1877.00	0.09	109.15	1876.89	-8.80	-8.34	6.10	0.10	424088.33	659702.93	N 32° 9' 55.15"	W 103° 57' 2.91"
	1972.00	0.22	165.46	1971.89	-9.01	-8.54	6.22	0.20	424088.13	659703.04	N 32° 9' 55.15"	W 103° 57' 2.91"
	2066.00	0.60	203.96	2065.88	-9.62	-9.17	6.06	0.48	424087.51	659702.89	N 32° 9' 55.14"	W 103° 57' 2.91"
	2161.00	0.65	193.30	2160.88	-10.57	-10.14	5.73	0.13	424086.53	659702.56	N 32° 9' 55.13"	W 103° 57' 2.91"
	2255.00	0.53	180.26	2254.87	-11.51	-11.10	5.61	0.19	424085.57	659702.44	N 32° 9' 55.12"	W 103° 57' 2.91"
	2350.00	0.44	177.93	2349.87	-12.32	-11.90	5.62	0.10	424084.77	659702.45	N 32° 9' 55.11"	W 103° 57' 2.91"
	2444.00	0.16	101.67	2443.87	-12.71	-12.29	5.76	0.46	424084.38	659702.59	N 32° 9' 55.11"	W 103° 57' 2.91"
	2539.00	0.14	51.99	2538.87	-12.69	-12.24	5.98	0.13	424084.43	659702.81	N 32° 9' 55.11"	W 103° 57' 2.91"
	2633.00	0.27	161.00	2632.87	-12.84	-12.38	6.15	0.36	424084.29	659702.98	N 32° 9' 55.11"	W 103° 57' 2.91"
	2729.00	0.17	163.79	2728.87	-13.20	-12.73	6.26	0.10	424083.94	659703.09	N 32° 9' 55.10"	W 103° 57' 2.91"
	2829.00	0.23	170.07	2828.87	-13.54	-13.07	6.34	0.06	424083.60	659703.17	N 32° 9' 55.10"	W 103° 57' 2.91"
	2923.00	0.16	201.42	2922.87	-13.85	-13.38	6.32	0.13	424083.29	659703.15	N 32° 9' 55.10"	W 103° 57' 2.91"
	3017.00	0.61	146.83	3016.86	-14.41	-13.92	6.55	0.57	424082.75	659703.38	N 32° 9' 55.09"	W 103° 57' 2.90"
	3112.00	0.27	181.49	3111.86	-15.07	-14.57	6.82	0.44	424082.10	659703.65	N 32° 9' 55.09"	W 103° 57' 2.90"
	3206.00	0.53	227.19	3205.86	-15.56	-15.09	6.49	0.42	424081.58	659703.32	N 32° 9' 55.08"	W 103° 57' 2.90"
	3301.00	0.06	102.82	3300.86	-15.85	-15.40	6.22	0.60	424081.27	659703.05	N 32° 9' 55.08"	W 103° 57' 2.91"
	3395.00	0.08	330.64	3394.86	-15.80	-15.35	6.23	0.14	424081.32	659703.06	N 32° 9' 55.08"	W 103° 57' 2.91"
	3490.00	0.08	207.31	3489.86	-15.80	-15.35	6.17	0.15	424081.32	659703.00	N 32° 9' 55.08"	W 103° 57' 2.91"
	3584.00	0.08	244.63	3583.86	-15.88	-15.44	6.08	0.05	424081.23	659702.91	N 32° 9' 55.08"	W 103° 57' 2.91"
	3679.00	0.11	251.04	3678.86	-15.92	-15.50	5.94	0.03	424081.18	659702.77	N 32° 9' 55.08"	W 103° 57' 2.91"
	3774.00	0.11	94.89	3773.86	-15.96	-15.53	5.94	0.23	424081.14	659702.77	N 32° 9' 55.08"	W 103° 57' 2.91"
	3868.00	0.11	179.81	3867.86	-16.07	-15.63	6.03	0.16	424081.04	659702.86	N 32° 9' 55.08"	W 103° 57' 2.91"
	3962.00	0.11	324.54	3961.86	-16.08	-15.65	5.98	0.22	424081.02	659702.81	N 32° 9' 55.07"	W 103° 57' 2.91"
	4057.00	0.09	116.41	4056.86	-16.04	-15.61	5.99	0.20	424081.06	659702.82	N 32° 9' 55.08"	W 103° 57' 2.91"
	4151.00	0.86	314.32	4150.85	-15.55	-15.15	5.55	1.01	424081.52	659702.38	N 32° 9' 55.08"	W 103° 57' 2.92"
	4252.00	2.28	307.97	4251.81	-13.61	-13.38	3.43	1.41	424083.29	659700.26	N 32° 9' 55.10"	W 103° 57' 2.94"
	4346.00	3.55	308.71	4345.69	-10.35	-10.41	-0.32	1.35	424086.26	659696.51	N 32° 9' 55.13"	W 103° 57' 2.98"
	4441.00	4.83	311.10	4440.43	-5.47	-5.94	-5.63	1.36	424090.73	659691.20	N 32° 9' 55.17"	W 103° 57' 3.04"
	4535.00	6.80	309.98	4533.96	1.16	0.13	-12.75	1.89	424096.80	659684.08	N 32° 9' 55.23"	W 103° 57' 3.13"
	4631.00	7.84	305.01	4629.20	9.21	7.43	-22.34	1.45	424104.10	659674.49	N 32° 9' 55.30"	W 103° 57' 3.24"
	4725.00	8.24	301.28	4722.28	17.25	14.61	-33.35	0.70	424111.28	659663.49	N 32° 9' 55.38"	W 103° 57' 3.37"
	4820.00	8.25	296.32	4816.30	24.75	21.17	-45.27	0.75	424117.83	659651.56	N 32° 9' 55.44"	W 103° 57' 3.51"
	4914.00	8.47	293.62	4909.30	31.50	26.93	-57.66	0.48	424123.60	659639.17	N 32° 9' 55.50"	W 103° 57' 3.65"
	5009.00	8.91	292.63	5003.21	38.20	32.59	-70.85	0.48	424129.25	659625.98	N 32° 9' 55.55"	W 103° 57' 3.80"
	5103.00	9.60	288.93	5095.98	44.69	37.95	-84.98	0.99	424134.62	659611.86	N 32° 9' 55.61"	W 103° 57' 3.97"
	5189.00	10.28	287.41	5180.69	50.44	42.58	-99.08	0.85	424139.24	659597.75	N 32° 9' 55.65"	W 103° 57' 4.13"
	5292.00	10.75	286.58	5281.96	57.36	48.07	-117.06	0.48	424144.73	659579.78	N 32° 9' 55.71"	W 103° 57' 4.34"
	5386.00	10.76	287.41	5374.31	63.62	53.19	-133.83	0.17	424149.86	659563.01	N 32° 9' 55.76"	W 103° 57' 4.53"
	5481.00	10.02	286.70	5467.75	70.16	58.22	-150.21	0.79	424154.89	659546.63	N 32° 9' 55.81"	W 103° 57' 4.72"
	5576.00	9.76	285.00	5561.34	76.00	62.82	-165.87	0.30	424159.48	659530.97	N 32° 9' 55.86"	W 103° 57' 4.91"
	5671.00	9.38	283.14	5655.02	81.20	66.80	-181.15	0.64	424163.46	659515.70	N 32° 9' 55.90"	W 103° 57' 5.08"
	5765.00	8.05	282.24	5747.93	85.45	69.93	-195.04	1.42	424166.60	659501.80	N 32° 9' 55.93"	W 103° 57' 5.25"
	5859.00	6.82	280.13	5841.14	88.78	72.31	-206.97	1.34	424168.98	659489.88	N 32° 9' 55.95"	W 103° 57' 5.38"
	5954.00	6.57	279.07	5935.49	91.51	74.16	-217.89	0.29	424170.82	659478.96	N 32° 9' 55.97"	W 103° 57' 5.51"
	6050.00	5.46	277.69	6040.91	94.02	75.79	-228.87	1.06	424172.46	659467.97	N 32° 9' 55.99"	W 103° 57' 5.64"
	6143.00	5.22	275.92	6123.55	95.55	76.71	-236.54	0.35	424173.37	659460.31	N 32° 9' 56.00"	W 103° 57' 5.73"
	6237.00	4.93	275.61	6217.18	97.05	77.54	-244.81	0.31	424174.21	659452.03	N 32° 9' 56.01"	W 103° 57' 5.82"
	6332.00	5.23	273.40	6311.80	98.38	78.20	-253.20	0.38	424174.86	659443.65	N 32° 9' 56.01"	W 103° 57' 5.92"
	6474.00	5.42	271.66	6453.19	100.02	78.78	-266.36	0.18	424175.44	659430.49	N 32° 9' 56.02"	W 103° 57' 6.07"

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7571.00	7.59	255.51	7542.65	127.73	96.46	-391.24	1.78	424193.13	659305.62	N 32	9 56.20 W 103 57 7.53
	7665.00	6.87	247.07	7635.90	124.90	92.72	-402.43	1.36	424189.38	659294.43	N 32	9 56.16 W 103 57 7.66
	7760.00	5.72	248.94	7730.33	121.78	88.81	-412.08	1.23	424185.47	659284.78	N 32	9 56.12 W 103 57 7.77
	7854.00	3.83	259.85	7824.00	120.15	86.57	-419.54	2.22	424183.23	659277.32	N 32	9 56.10 W 103 57 7.86
	7949.00	2.89	282.00	7918.84	120.53	86.51	-425.01	1.67	424183.17	659271.85	N 32	9 56.10 W 103 57 7.92
	8043.00	3.44	299.37	8012.70	122.79	88.38	-429.79	1.17	424185.05	659267.08	N 32	9 56.12 W 103 57 7.99
	8137.00	5.78	303.23	8106.38	127.27	92.36	-436.20	2.51	424189.02	659260.66	N 32	9 56.16 W 103 57 8.05
	8232.00	7.70	303.83	8200.72	134.17	98.53	-445.49	2.02	424195.19	659251.37	N 32	9 56.22 W 103 57 8.16
	8326.00	8.65	296.81	8293.77	141.77	105.22	-457.03	1.46	424201.88	659239.83	N 32	9 56.29 W 103 57 8.29
	8421.00	8.45	299.05	8387.71	149.37	111.83	-469.51	0.41	424208.49	659227.35	N 32	9 56.35 W 103 57 8.44
	8515.00	5.81	307.02	8480.98	156.36	118.05	-479.35	2.99	424214.71	659217.52	N 32	9 56.42 W 103 57 8.55
	8610.00	5.41	297.02	8575.53	161.91	122.98	-487.18	1.11	424219.02	659209.69	N 32	9 56.46 W 103 57 8.64
	8704.00	6.56	296.40	8669.01	167.00	127.38	-495.94	1.23	424224.04	659200.93	N 32	9 56.51 W 103 57 8.74
	8798.00	5.87	301.42	8762.46	172.60	132.28	-504.85	0.93	424228.94	659192.02	N 32	9 56.56 W 103 57 8.85
	8893.00	5.11	299.65	8857.03	177.84	136.90	-512.67	0.82	424233.56	659184.20	N 32	9 56.60 W 103 57 8.94
	8987.00	5.62	303.35	8950.61	183.03	141.50	-520.15	0.66	424238.16	659176.72	N 32	9 56.65 W 103 57 9.02
	9082.00	5.40	303.39	9045.18	188.64	146.52	-527.77	0.23	424243.18	659169.10	N 32	9 56.70 W 103 57 9.11
	9176.00	6.21	299.18	9138.69	194.20	151.43	-535.90	0.97	424248.09	659160.97	N 32	9 56.75 W 103 57 9.21
	9271.00	6.69	288.61	9233.09	199.24	155.70	-545.63	1.35	424252.36	659151.24	N 32	9 56.79 W 103 57 9.32
	9365.00	3.45	269.98	9326.72	201.63	157.45	-553.65	3.82	424254.11	659143.22	N 32	9 56.81 W 103 57 9.41
	9459.00	3.31	293.49	9420.56	203.14	158.53	-558.97	1.47	424255.19	659137.90	N 32	9 56.82 W 103 57 9.48
	9554.00	5.81	315.04	9515.26	208.09	163.03	-564.89	3.15	424259.69	659131.99	N 32	9 56.86 W 103 57 9.54
	9648.00	8.23	318.60	9608.55	217.11	171.44	-572.70	2.61	424268.10	659124.18	N 32	9 56.95 W 103 57 9.63
	9685.00	9.29	319.85	9645.12	221.66	175.71	-576.38	2.91	424272.37	659120.50	N 32	9 56.99 W 103 57 9.68
	9764.00	13.26	324.66	9722.58	234.65	187.98	-585.73	5.16	424284.64	659111.14	N 32	9 57.11 W 103 57 9.79
	9859.00	24.56	328.07	9812.31	261.65	213.71	-602.53	11.95	424310.36	659094.35	N 32	9 57.37 W 103 57 9.98
	9954.00	32.16	326.88	9895.84	301.47	251.70	-626.82	8.02	424348.35	659070.06	N 32	9 57.74 W 103 57 10.26
	10048.00	39.16	321.90	9972.19	348.29	296.07	-658.85	8.06	424392.72	659038.03	N 32	9 58.18 W 103 57 10.63
	10143.00	42.01	321.42	10044.33	399.69	344.54	-697.19	3.02	424441.18	658999.69	N 32	9 58.66 W 103 57 11.08
	10237.00	49.62	329.50	10109.85	458.13	400.10	-735.07	10.16	424496.74	658961.82	N 32	9 59.21 W 103 57 11.51
	10332.00	58.79	336.46	10165.40	529.33	468.73	-769.76	11.33	424565.36	658927.13	N 32	9 59.90 W 103 57 11.91
Wolfcamp Intersection	10387.71	59.45	339.35	10194.00	574.94	513.02	-787.74	4.61	424609.65	658909.15	N 32	10 0.33 W 103 57 12.12
	10427.00	59.95	341.37	10213.82	607.70	544.97	-799.13	4.61	424641.60	658897.76	N 32	10 0.65 W 103 57 12.25
	10521.00	64.43	352.62	10257.78	689.77	625.81	-817.63	11.60	424722.43	658879.26	N 32	10 1.45 W 103 57 12.47
	10616.00	72.56	358.48	10292.60	778.03	713.82	-824.35	10.30	424810.43	658872.54	N 32	10 2.32 W 103 57 12.54
340' FSL Crossing	10675.40	78.80	0.56	10307.29	835.40	771.34	-824.82	11.03	424867.95	658872.07	N 32	10 2.89 W 103 57 12.54
	10711.00	82.54	1.76	10313.06	870.34	806.45	-824.11	11.03	424903.06	658872.78	N 32	10 3.24 W 103 57 12.53
	10806.00	89.33	2.31	10319.79	964.41	901.10	-820.74	7.17	424997.70	658876.15	N 32	10 4.18 W 103 57 12.49
	10925.00	89.96	3.02	10320.53	1082.44	1019.97	-815.21	0.80	425116.56	658881.68	N 32	10 5.35 W 103 57 12.42
	11018.00	89.82	1.45	10320.71	1174.77	1112.89	-811.59	1.69	425209.48	658885.31	N 32	10 6.27 W 103 57 12.37
	11112.00	89.85	0.95	10320.98	1268.29	1206.87	-809.62	0.53	425303.45	658887.28	N 32	10 7.20 W 103 57 12.35
	11206.00	89.89	0.55	10321.19	1361.87	1300.86	-808.39	0.43	425397.43	658888.51	N 32	10 8.13 W 103 57 12.33
	11301.00	89.82	0.45	10321.43	1456.49	1395.86	-807.56	0.13	425492.42	658889.33	N 32	10 9.07 W 103 57 12.32
	11395.00	90.20	0.78	10321.41	1550.10	1489.85	-806.55	0.54	425586.41	658890.34	N 32	10 10.00 W 103 57 12.30
	11490.00	89.65	358.68	10321.54	1644.82	1584.85	-807.00	2.29	425681.39	658889.90	N 32	10 10.94 W 103 57 12.30
	11584.00	89.96	357.74	10321.86	1738.70	1678.80	-809.93	1.05	425775.34	658886.96	N 32	10 11.87 W 103 57 12.33
	11679.00	90.09	358.17	10321.82	1833.60	1773.74	-813.32	0.47	425870.27	658883.57	N 32	10 12.81 W 103 57 12.37
	11868.00	89.75	358.37	10322.08	2022.36	1962.65	-819.03	0.21	426059.17	658877.87	N 32	10 14.68 W 103 57 12.43
	11963.00	89.89	358.05	10322.38	2117.24	2057.60	-822.00	0.37	426154.12	658874.90	N 32	10 15.62 W 103 57 12.46
	12057.00	89.75	358.20	10322.67	2211.13	2151.55	-825.07	0.22	426248.06	658871.82	N 32	10 16.55 W 103 57 12.49
	12151.00	89.82	358.69	10323.03	2305.00	2245.52	-827.62	0.53	426342.02	658869.27	N 32	10 17.48 W 103 57 12.51
	12246.00	89.96	359.02	10323.21	2399.82	2340.50	-829.52	0.38	426436.99	658867.37	N 32	10 18.42 W 103 57 12.53
	12341.00	89.47	358.75	10323.68	2494.64	2435.48	-831.37	0.59	426531.96	658865.53	N 32	10 19.36 W 103 57 12.55
	12436.00	91.50	0.63	10322.88	2589.36	2530.47	-831.88	2.91	426626.94	658865.01	N 32	10 20.30 W 103 57 12.55
	12531.00	91.19	359.80	10320.65	2683.99	2625.44	-831.53	0.93	426721.91	658865.37	N 32	10 21.24 W 103 57 12.54
	12625.00	91.02	359.84	10318.84	2777.69	2719.42	-831.82	0.19	426815.88	658865.07	N 32	10 22.17 W 103 57 12.54
	12720.00	90.13	359.12	10317.88	2872.44	2814.41	-832.68	1.20	426910.86	658864.21	N 32	10 23.11 W 103 57 12.55
	12815.00	89.68	358.19	10318.04	2967.28	2909.38	-834.91	1.09	427005.83	658861.98	N 32	10 24.05 W 103 57 12.57
	12909.00	89.85	359.23	10318.43	3061.12	3003.36	-837.03	1.12	427099.79	658859.86	N 32	10 24.98 W 103 57 12.59
	13004.00	89.75	358.10	10318.76	3155.96	3098.33	-839.24	1.19	427194.76	658857.65	N 32	10 25.92 W 103 57 12.62
	13099.00	90.13	358.79	10318.86	3250.82	3193.29	-841.82	0.83	427289.72	658855.07	N 32	10 26.86 W 103 57 12.64
	13193.00	90.02	358.70	10318.73	3344.66	3287.27	-843.88	0.15	427383.69	658853.01	N 32	10 27.79 W 103 57 12.66
	13288.00	89.47	358.24	10319.16	3439.52	3382.23	-846.42	0.75	427478.64	658850.48	N 32	10 28.73 W 103 57 12.69
	13478.00	91.06	359.47	10318.28	3629.16	3572.18	-850.21	1.06	427668.58	658846.68	N 32	10 30.61 W 103 57 12.72
	13572.00	90.64	359.17	10318.88	3722.92	3666.17	-851.33	0.55	427762.56	658845.57	N 32	10 31.54 W 103 57 12.73
	13667.00	89.44	358.54	10318.82	3817.75	3761.15	-853.23	1.43	427857.53	658843.67	N 32	10 32.48 W 103 57 12.75
	13762.00	90.47	359.28	10318.89	3912.56	3856.13	-855.03	1.34	427952.50	658841.86	N 32	10 33.42 W 103 57 12.77
	13951.00	89.58	358.61	10318.81	4101.19	4045.09	-858.01	0.59	428141.45	658838.38	N 32	10 35.29 W 103 57 12.80
	14140.00	89.47	358.18	10318.38	4289.92	4234.01	-863.81	0.23	428330.35	658833.09	N 32	10 37.16 W 103 57 12.85
	14235.00	89.37	358.53	10319.34	4384.79	4328.97	-866.53	0.38	428425.30	658830.36	N 32	10 38.10 W 103 57 12.88
	14330.00	89.99	359.01	10319.87	4479.62	4423.94	-868.57	0.83	428520.27	658828.32	N 32	10 39.04 W 103 57 12.90
	14424.00	89.30	358.36	10320.45	4573.46	4517.91	-870.73	1.01	428614.24	658826.17	N 32	10 39.97 W 103 57 12.92
	14614.00	89.58	358.29	10322.31	4763.20	4707.82	-876.28	0.15	428804.13	658820.61	N 32	10 41.85 W 103 57 12.98
	14803.00	89.03	357.79	10324.60	4951.98	4896.70	-882.75	0.39	428992.99	658814.15	N 32	10 43.71 W 103 57 13.05
	14897.00	89.51	358.62	10325.80	5045.85	4990.64	-885.69	1.02	429086.93	658811.21	N 32	10 44.64 W 103 57 13.08
	14992.00	89.82	1.19	10326.35	5140.54	5085.63	-885.85	2.72	429181.91	658811.05	N 32	10 45.58 W 103 57 13.08
	15182.00	89.58	359.80	10327.35</								

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 ° ' ")
	18962.00	90.44	0.19	10343.44	9094.20	9054.41	-859.04	1.72	433150.38	658837.86	N 32 11 24.85	W 103 57 12.60
	19151.00	89.68	359.87	10343.24	9292.58	9243.40	-858.94	0.44	433339.36	658837.96	N 32 11 26.73	W 103 57 12.59
	19246.00	89.06	358.88	10344.29	9377.34	9338.39	-859.98	1.23	433434.34	658836.92	N 32 11 27.67	W 103 57 12.60
	19340.00	88.55	358.27	10346.25	9471.17	9432.34	-862.31	0.85	433528.29	658834.58	N 32 11 28.59	W 103 57 12.62
	19435.00	88.44	359.39	10348.74	9565.96	9527.29	-864.25	1.18	433623.22	658832.64	N 32 11 29.53	W 103 57 12.64
	19529.00	89.10	359.08	10350.76	9659.72	9621.26	-865.51	0.78	433717.19	658831.39	N 32 11 30.46	W 103 57 12.65
	19624.00	88.79	359.23	10352.51	9754.50	9716.23	-866.91	0.36	433812.15	658829.99	N 32 11 31.40	W 103 57 12.67
	19813.00	88.92	359.53	10356.29	9943.00	9905.18	-868.95	0.17	434001.09	658827.94	N 32 11 33.27	W 103 57 12.68
	19908.00	88.20	359.67	10358.67	10037.71	10000.15	-869.62	0.77	434096.05	658827.28	N 32 11 34.21	W 103 57 12.68
	20003.00	88.41	359.64	10361.48	10132.40	10095.10	-870.19	0.22	434191.00	658826.71	N 32 11 35.15	W 103 57 12.69
	20192.00	89.68	359.66	10364.63	10320.85	10284.07	-871.34	0.67	434379.95	658825.56	N 32 11 37.02	W 103 57 12.69
	20381.00	89.96	358.39	10365.23	10509.46	10473.04	-874.56	0.69	434568.90	658822.34	N 32 11 38.89	W 103 57 12.72
	20476.00	89.85	359.21	10365.38	10604.29	10568.02	-876.55	0.87	434663.87	658820.35	N 32 11 39.83	W 103 57 12.74
	20570.00	90.09	358.57	10365.43	10698.11	10662.00	-878.37	0.73	434757.85	658818.53	N 32 11 40.76	W 103 57 12.76
340' FNL Crossing	20601.83	90.01	358.55	10365.41	10729.89	10693.82	-879.17	0.27	434789.67	658817.73	N 32 11 41.08	W 103 57 12.77
Final MWD	20660.00	89.85	358.51	10365.48	10787.97	10751.97	-880.66	0.27	434847.81	658816.24	N 32 11 41.65	W 103 57 12.78
Proj to TD	20705.00	89.85	358.51	10365.60	10832.90	10796.95	-881.83	0.00	434892.79	658815.07	N 32 11 42.10	W 103 57 12.79

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	26.500	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Fly 35-26 Federal Com 34H Gyro + IFR 0-20705ft MD
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Fly 35-26 Federal Com 34H Gyro + IFR 0-20705ft MD
	1	26.500	448.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Fly 35-26 Federal Com 34H Gyro +
	1	448.500	20705.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Fly 35-26 Federal Com 34H Gyro +

...Original Borehole/Oxy Corral Fly 35-26 Federal Com 34H Gyro + IFR 0-20705ft MD