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Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
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Midland, Texas 79706
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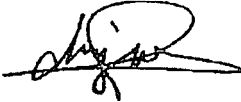
DISTRICT II-ARTESIA O.C.D.

Well Reference:

2, 25 South, 29 East, Eddy NM
N 32.16463 W 103.96043

I, Diyar Kaky certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of February 01, 2019 through March 08, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 904.00 feet to a depth of 20799.00 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 Federal Com 31H Well (Original Hole) API No. 3001544726 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
Diyar Kaky
FS



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

My Commission expires:

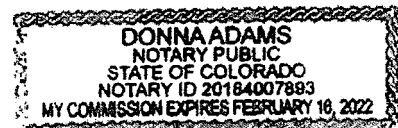
2-16-2022

Notary Public

Donna Adams

(signature)

Adams County Colorado
(County State)



Schlumberger

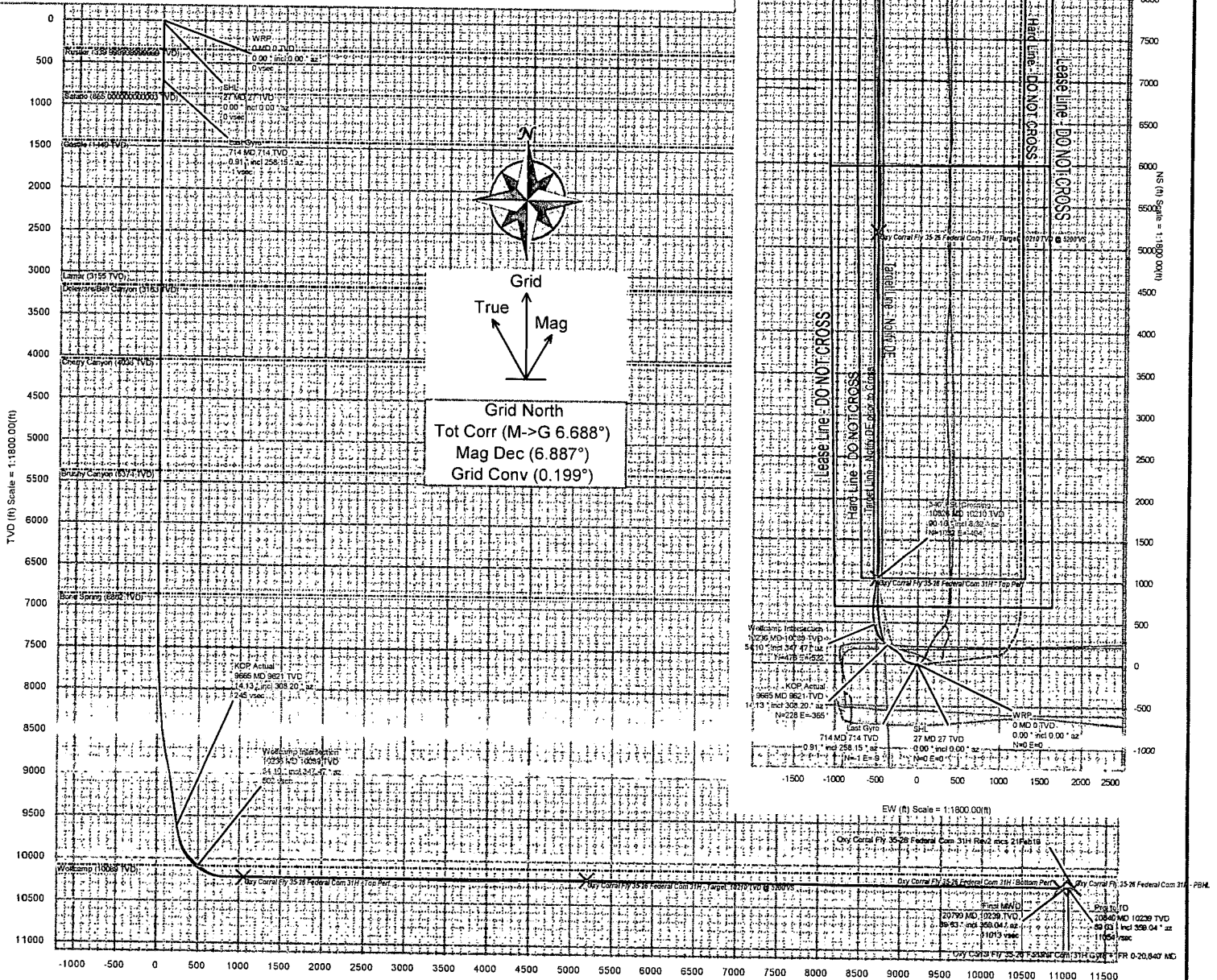
OXY



Borehole:		Well:	Field:	Structure:
Original Borehole		Oxy Corral Fly 35-26 Federal Com 31H	NM Eddy County (NAD 83)	Oxy Corral Fly 35-26 Federal Com 31H
Gravity & Magnetic Parameters		Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet		Miscellaneous
Model: IFR1	Dip: 59.888°	Date: 21-Feb-2019	Lat: N 32.9 52.56	Slot: 35-26 Federal
MagDec: 6.887°	FS: 47918.5nT	Gravity FS: 998.456(mgn (9.80665 Based))	North: 42326.48NUS	TVD Ref: RKB(3040.2ft above MSL)
			Grid Conv: 0.1989°	Plan: Oxy Corral Fly 35-26 Federal Com 31H Gyro + IFR 0-20,840' MD
			Scale Fact: 0.99992434	

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	0.00
Last Gyro	713.72	0.91	258.15	713.65	-0.74	-1.17	-8.78	0.04
KOP Actual	9665.00	14.13	308.20	9620.84	245.26	227.51	-365.29	0.73
Wolfcamp Intersection	10235.70	54.10	347.47	10089.00	501.57	476.38	-521.80	10.66
340' FSL Crossing	10825.60	90.16	8.32	10210.45	1055.29	1032.17	-493.78	3.09
340' FNL Crossing	20744.00	89.17	357.95	10238.46	10957.83	10943.60	-558.55	0.72
Final MWD	20799.00	89.63	359.04	10239.11	11012.81	10998.57	-560.11	2.92
Proj to TD	20840.00	89.63	359.04	10239.37	11053.79	11039.56	-560.80	0.00



Oxy Corral Fly 35-26 Federal Com 31H Gyro + IFR 0-20,840' MD Survey Geodetic Report (Def Survey)



Report Date: March 11, 2019 - 10:10 AM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Corral Fly 35-26 Federal Com 31H / Oxy Corral Fly 35-26 Federal Com 31H
 Well: Oxy Corral Fly 35-26 Federal Com 31H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-44726
 Survey Name: Oxy Corral Fly 35-26 Federal Com 31H Gyro + IFR 0-20,840' MD
 Survey Date: January 14, 2019
 Tort / AHD / DDI / ERD Ratio: 270.879' / 11331.265 ft / 6.796' / 1.107
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 9' 52.65928", W 103° 57' 37.56718"
 Location Grid N/E Y/X: N 423826.460 RUS, E 656724.770 ftUS
 CRS Grid Convergence Angle: 0.1985°
 Grid Scale Factor: 0.99992434
 Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 357.170° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3040.200 ft above MSL
 Seabed / Ground Elevation: 3013.700 ft above MSL
 Magnetic Declination: 6.987°
 Total Gravity Field Strength: 998.4577mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47918.500 nT
 Magnetic Dip Angle: 59.888°
 Declination Date: February 21, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.1985°
 Total Corr Mag North->Grid: 6.8885°
 North: Well Head
 Local Coord Referenced To: Well Head

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 ° ' ")
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	423826.46	656724.77	N 32° 9' 52.66"	W 103° 57' 37.57"
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	423826.46	656724.77	N 32° 9' 52.66"	W 103° 57' 37.57"
	96.62	0.17	120.14	96.62	-0.06	-0.05	0.09	0.24	423826.41	656724.86	N 32° 9' 52.66"	W 103° 57' 37.57"
	176.90	0.80	271.47	176.90	-0.08	-0.10	-0.37	1.19	423826.36	656724.40	N 32° 9' 52.66"	W 103° 57' 37.57"
	263.60	0.65	287.72	263.59	0.14	0.07	-1.44	0.29	423826.53	656723.33	N 32° 9' 52.66"	W 103° 57' 37.58"
	358.13	1.02	258.94	358.11	0.21	0.07	-2.78	0.58	423826.53	656721.99	N 32° 9' 52.66"	W 103° 57' 37.60"
	452.65	1.01	257.36	452.62	-0.06	-0.27	-4.42	0.03	423826.19	656720.35	N 32° 9' 52.66"	W 103° 57' 37.62"
	547.21	1.05	257.84	547.16	-0.34	-0.64	-6.08	0.04	423825.82	656718.69	N 32° 9' 52.65"	W 103° 57' 37.64"
	641.70	0.91	259.88	641.64	-0.57	-0.95	-7.66	0.15	423825.51	656717.11	N 32° 9' 52.65"	W 103° 57' 37.66"
	713.72	0.91	258.15	713.65	-0.74	-1.17	-8.78	0.04	423825.29	656715.99	N 32° 9' 52.65"	W 103° 57' 37.67"
	904.00	0.08	288.37	903.92	-0.93	-1.44	-10.39	0.44	423825.02	656714.38	N 32° 9' 52.65"	W 103° 57' 37.69"
	996.00	0.06	148.08	995.92	-0.94	-1.46	-10.42	0.14	423825.00	656714.35	N 32° 9' 52.65"	W 103° 57' 37.69"
	1088.00	0.06	263.47	1087.92	-0.99	-1.51	-10.45	0.11	423824.95	656714.32	N 32° 9' 52.64"	W 103° 57' 37.69"
	1273.00	0.08	104.14	1272.92	-1.03	-1.55	-10.42	0.07	423824.91	656714.35	N 32° 9' 52.64"	W 103° 57' 37.69"
	1366.00	0.10	94.24	1365.92	-1.06	-1.57	-10.27	0.03	423824.89	656714.50	N 32° 9' 52.64"	W 103° 57' 37.69"
	1458.00	0.08	296.20	1457.92	-1.04	-1.55	-10.25	0.19	423824.91	656714.52	N 32° 9' 52.64"	W 103° 57' 37.69"
	1550.00	0.06	249.11	1549.92	-1.02	-1.54	-10.35	0.06	423824.92	656714.42	N 32° 9' 52.64"	W 103° 57' 37.69"
	1739.00	0.11	65.44	1738.92	-0.99	-1.50	-10.28	0.09	423824.96	656714.49	N 32° 9' 52.64"	W 103° 57' 37.69"
	1834.00	0.17	36.94	1833.92	-0.85	-1.35	-10.11	0.09	423825.11	656714.66	N 32° 9' 52.65"	W 103° 57' 37.68"
	1928.00	0.13	350.73	1927.92	-0.63	-1.13	-10.05	0.13	423825.33	656714.72	N 32° 9' 52.65"	W 103° 57' 37.68"
	2022.00	0.15	237.49	2021.92	-0.59	-1.09	-10.17	0.25	423825.37	656714.60	N 32° 9' 52.65"	W 103° 57' 37.69"
	2117.00	0.28	236.41	2116.92	-0.77	-1.29	-10.47	0.14	423825.17	656714.30	N 32° 9' 52.65"	W 103° 57' 37.69"
	2306.00	-0.40	143.28	2305.92	-1.55	-2.07	-10.46	0.26	423824.39	656714.31	N 32° 9' 52.64"	W 103° 57' 37.69"
	2400.00	0.05	65.88	2399.91	-1.81	-2.32	-10.22	0.42	423824.14	656714.55	N 32° 9' 52.64"	W 103° 57' 37.69"
	2589.00	0.30	314.39	2588.91	-1.42	-1.94	-10.50	0.17	423824.52	656714.27	N 32° 9' 52.64"	W 103° 57' 37.69"
	2683.00	0.17	141.27	2682.91	-1.35	-1.87	-10.59	0.50	423824.59	656714.18	N 32° 9' 52.64"	W 103° 57' 37.69"
	2778.00	0.27	111.92	2777.91	-1.56	-2.07	-10.29	0.16	423824.39	656714.48	N 32° 9' 52.64"	W 103° 57' 37.69"
	2967.00	0.09	109.93	2966.91	-1.80	-2.28	-9.74	0.10	423824.18	656715.03	N 32° 9' 52.64"	W 103° 57' 37.68"
	3127.00	0.24	71.69	3126.91	-1.76	-2.22	-9.30	0.11	423824.24	656715.47	N 32° 9' 52.64"	W 103° 57' 37.68"
	3250.00	0.06	42.79	3249.91	-1.65	-2.09	-9.02	0.15	423824.37	656715.75	N 32° 9' 52.64"	W 103° 57' 37.67"
	3439.00	0.06	207.94	3438.91	-1.66	-2.11	-9.00	0.06	423824.35	656715.77	N 32° 9' 52.64"	W 103° 57' 37.67"
	3627.00	0.05	77.28	3626.91	-1.73	-2.17	-8.95	0.06	423824.29	656715.82	N 32° 9' 52.64"	W 103° 57' 37.67"
	3816.00	0.06	245.08	3815.91	-1.75	-2.19	-8.94	0.06	423824.27	656715.83	N 32° 9' 52.64"	W 103° 57' 37.67"
	3910.00	0.06	277.82	3909.91	-1.76	-2.21	-9.03	0.04	423824.25	656715.74	N 32° 9' 52.64"	W 103° 57' 37.67"
	4006.00	0.06	70.88	4005.91	-1.74	-2.18	-9.03	0.12	423824.28	656715.74	N 32° 9' 52.64"	W 103° 57' 37.67"
	4195.00	0.04	323.39	4194.91	-1.65	-2.10	-8.98	0.04	423824.36	656715.79	N 32° 9' 52.64"	W 103° 57' 37.67"
	4290.00	0.01	344.98	4289.91	-1.62	-2.06	-9.00	0.03	423824.40	656715.77	N 32° 9' 52.64"	W 103° 57' 37.67"
	4384.00	0.04	100.69	4383.91	-1.62	-2.06	-8.97	0.05	423824.40	656715.80	N 32° 9' 52.64"	W 103° 57' 37.67"
	4478.00	0.03	128.15	4477.91	-1.64	-2.08	-8.92	0.02	423824.38	656715.85	N 32° 9' 52.64"	W 103° 57' 37.67"
	4572.00	0.03	326.83	4571.91	-1.64	-2.08	-8.91	0.06	423824.38	656715.86	N 32° 9' 52.64"	W 103° 57' 37.67"
	4666.00	0.03	188.35	4665.91	-1.64	-2.08	-8.93	0.06	423824.38	656715.84	N 32° 9' 52.64"	W 103° 57' 37.67"
	4761.00	0.03	177.93	4760.91	-1.69	-2.13	-8.95	0.01	423824.33	656715.84	N 32° 9' 52.64"	W 103° 57' 37.67"
	4855.00	0.04	336.07	4854.91	-1.68	-2.13	-8.95	0.07	423824.33	656715.82	N 32° 9' 52.64"	W 103° 57' 37.67"
	5044.00	0.07	34.14	5043.91	-1.53	-1.97	-8.91	0.03	423824.49	656715.86	N 32° 9' 52.64"	W 103° 57' 37.67"
	5232.00	0.04	46.95	5231.91	-1.39	-1.83	-8.70	0.02	423824.63	656715.97	N 32° 9' 52.64"	W 103° 57' 37.67"
	5326.00	0.04	32.79	5325.91	-1.35	-1.78	-8.75	0.01	423824.68	656716.02	N 32° 9' 52.64"	W 103° 57' 37.67"
	5421.00	-0.03	209.89	5420.91	-1.34	-1.77	-8.75	0.07	423824.69	656716.02	N 32° 9' 52.64"	W 103° 57' 37.67"
	5515.00	0.04	128.81	5514.91	-1.38	-1.82	-8.74	0.05	423824.64	656716.03	N 32° 9' 52.64"	W 103° 57' 37.67"
	5704.00	0.03	175.11	5703.91	-1.48	-1.91	-8.68	0.02	423824.55	656716.09	N 32° 9' 52.64"	W 103° 57' 37.67"
	5798.00	0.09	0.94	5797.91	-1.43	-1.86	-8.68	0.13	423824.60	656716.09	N 32° 9' 52.64"	W 103° 57' 37.67"
	5987.00	0.03	295.89	5986.91	-1.25	-1.69	-8.72	0.04	423824.77	656716.05	N 32° 9' 52.64"	W 103° 57' 37.67"
	6081.00	0.03	8.48	6080.91	-1.22	-1.65	-8.74	0.04	423824.81	656716.03	N 32° 9' 52.64"	W 103° 57' 37.67"
	6270.00	0.03	68.27	6269.91	-1.15	-1.58	-8.68	0.02	423824.88	656716.09	N 32° 9' 52.64"	W 103° 57' 37.67"
	6365.00	0.04	154.99	6364.91	-1.18	-1.61	-8.65	0.05	423824.85	656716.12	N 32° 9' 52.64"	W 103° 57' 37.67"
	6459.00	0.06	118.62	6458.91	-1.23	-1.66	-8.59	0.04	423824.80	656716.18	N 32° 9' 52.64"	W 103° 57' 37.67"
	6554.00	0.03	175.62	6553.91	-1.28	-1.71	-8.54	0.05	423824.75	656716.23	N 32° 9' 52.64"	W 103° 57' 37.67"
	6742.00	0.09	211.90	6741.91	-1.45	-1.88	-8.62	0.04	423824.58	656716.15	N 32° 9' 52.64"	W 103° 57' 37.67"
	6837.00	0.03	82.13	6836.91	-1.51	-1.94	-8.63	0.12	423824.52	656716.14	N 32° 9' 52.64"	W 103° 57' 37.67"
	6931.00	0.07	141.42	6930.91	-1.56	-1.98	-8.57	0.06	423824.48	656716.20	N 32° 9' 52.64"	W 103° 57' 37.67"
	7025.00	0.15	32.84	7024.91	-1.50	-1.93	-8.47	0.20	423824.54	656716.30	N 32° 9' 52.64"	W 103° 57' 37.67"
	7120.00	0.21	48.76	7119.91	-1.30	-1.71	-8.27	0.08	423824.75	656716.50	N 32° 9' 52.64"	W 103° 57' 37.66"
	7309.00	4.38	275.83	7308.73	0.01	-0.74	-15.20	2.39	423825.72	656709.58	N 32° 9' 52.65"	W 103° 57' 37.74"
	7403.00	5.89	277.58	7402.35	1.42	0.26	-23.55	1.61	423826.72	656701.22	N 32° 9' 52.66"	W 103° 57' 37.84"
	7498.00	5.91	274.43	7496.85	2.92	1.28	-33.26	0.34	423827.74	656691.52	N 32° 9' 52.67"	W 103° 57' 37.95"
	7687.00	7.05	283.73	7684.64	7.45	4.78	-54.23	0.82	423831.24	656670.55	N 32° 9' 52.71"	W 103° 57' 38.20"
	7875.00	8.58	286.70	7870.89	15.43	11.55	-78.87	0.84	423838.01	656645.91	N 32° 9' 52.78"	W 103° 57' 38.48"
	7970.00	9.37	287.22	7964.73	20.45	15.88	-93.04	0.84	423842.34	656631.74	N 32° 9' 52.82"	W 103° 57' 38.65"
	8064.00	10.19	288.34	8057.36	26.08	20.76	-108.24	0.90	423847.22	656616.53	N 32° 9' 52.87"	W 103° 57' 38.83"
	8156.00	10.59	290.15	8147.85	32.32	26.23	-123.90	0.56	423852.69	656600.87	N 32° 9' 52.92"	W 103° 57' 39.01"
	8345.00	6.89	309.27	8334.66	46.71	39.40	-149.00	2.46	423865.85	656575.78	N 32° 9' 53.05"	W 103° 57' 39.30"
	8439.00	6.40	319.90	8428.03	54.66	48.97	-156.74	1.41	423871.43	656568.04	N 32° 9' 53.13"	W 103° 57' 39.39"
	8534.00	9.02	323.19	8522.17	65.05	56.99	-164.61	2.80	423883.44	656550.17	N 32°	

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 ° ' ")
KOP Actual	9194.00	14.17	300.22	9164.48	177.06	164.05	-267.68	1.40	423980.50	656457.11	N 32° 9' 54.29" W	103° 57' 40.67"
	9288.00	14.23	300.31	9255.61	189.66	175.67	-287.59	0.07	424002.12	656437.20	N 32° 9' 54.41" W	103° 57' 40.91"
	9383.00	14.77	302.66	9347.58	203.07	188.10	-307.87	0.84	424014.54	656416.92	N 32° 9' 54.53" W	103° 57' 41.14"
	9477.00	14.28	302.62	9438.58	216.75	200.81	-327.72	0.52	424027.26	656397.07	N 32° 9' 54.66" W	103° 57' 41.37"
	9665.00	14.13	308.20	9620.84	245.26	227.51	-365.29	0.73	424053.95	656359.51	N 32° 9' 55.04" W	103° 57' 41.87"
	9738.00	14.24	314.53	9692.59	257.89	239.47	-378.87	2.10	424065.92	656345.93	N 32° 9' 55.36" W	103° 57' 42.35"
	9873.00	26.68	313.73	9817.89	291.99	271.96	-412.49	9.29	424098.39	656312.31	N 32° 9' 56.71" W	103° 57' 42.74"
	9968.00	33.95	318.63	9899.85	328.28	306.66	-445.49	8.08	424133.09	656279.32	N 32° 9' 56.19" W	103° 57' 43.11"
	10062.00	43.21	333.10	9973.41	378.40	355.26	-477.53	13.70	424181.69	656247.28	N 32° 9' 56.81" W	103° 57' 43.42"
	10157.00	48.34	339.63	10039.68	442.01	417.61	-504.63	7.30	424244.03	656220.18	N 32° 9' 57.39" W	103° 57' 43.62"
Wolfcamp Intersection	10235.70	54.10	347.47	10089.00	501.57	476.38	-521.80	10.66	424302.81	656203.01	N 32° 9' 57.39" W	103° 57' 43.62"
	10252.00	55.35	348.95	10098.42	514.71	489.41	-524.52	10.66	424315.83	656200.29	N 32° 9' 57.52" W	103° 57' 43.65"
	10346.00	59.38	353.27	10149.12	593.39	567.59	-536.68	5.77	424394.00	656188.13	N 32° 9' 58.29" W	103° 57' 43.79"
	10441.00	70.75	359.95	10189.14	679.33	653.39	-541.53	13.55	424479.80	656183.28	N 32° 9' 59.14" W	103° 57' 43.84"
	10536.00	84.72	7.49	10209.30	771.23	745.71	-535.37	16.61	424572.11	656189.45	N 32° 10' 0.06" W	103° 57' 43.77"
	10631.00	91.51	8.87	10212.42	864.38	834.64	-521.86	7.29	424666.03	656202.95	N 32° 10' 0.99" W	103° 57' 43.60"
	10701.00	90.89	7.35	10210.95	933.09	908.92	-511.99	2.34	424735.31	656212.82	N 32° 10' 1.67" W	103° 57' 43.49"
	10794.00	89.76	9.21	10210.43	1024.34	1000.94	-498.60	2.34	424827.32	656226.21	N 32° 10' 2.58" W	103° 57' 43.33"
	10825.60	90.16	8.32	10210.45	1055.29	1032.17	-493.78	3.09	424858.55	656231.03	N 32° 10' 2.89" W	103° 57' 43.27"
	10887.00	90.93	6.59	10209.87	1115.70	1093.05	-485.82	3.09	424919.42	656238.99	N 32° 10' 3.49" W	103° 57' 43.17"
340° FSL Crossing	10980.00	89.69	3.15	10209.36	1207.85	1185.69	-477.92	3.93	425012.06	656246.88	N 32° 10' 4.41" W	103° 57' 43.08"
	11074.00	89.41	1.19	10210.10	1301.48	1279.62	-474.36	2.11	425105.98	656250.44	N 32° 10' 5.34" W	103° 57' 43.03"
	11200.00	88.97	357.65	10211.88	1427.35	1405.58	-475.64	2.83	425231.93	656249.17	N 32° 10' 6.58" W	103° 57' 43.04"
	11294.00	89.04	357.30	10213.52	1521.33	1499.47	-479.78	0.38	425325.82	656245.03	N 32° 10' 7.51" W	103° 57' 43.09"
	11389.00	89.17	356.36	10215.00	1616.32	1594.32	-485.03	1.00	425420.65	656239.78	N 32° 10' 8.45" W	103° 57' 43.15"
	11484.00	89.31	356.17	10216.26	1711.30	1689.11	-491.22	0.25	425515.44	656233.59	N 32° 10' 9.39" W	103° 57' 43.21"
	11578.00	89.52	358.20	10217.22	1805.29	1782.98	-495.84	2.17	425609.30	656228.97	N 32° 10' 10.32" W	103° 57' 43.26"
	11673.00	89.21	0.27	10218.27	1900.22	1877.96	-497.10	2.20	425704.28	656227.70	N 32° 10' 11.26" W	103° 57' 43.27"
	11768.00	89.28	0.65	10219.52	1995.05	1972.95	-496.34	0.41	425799.26	656228.47	N 32° 10' 12.20" W	103° 57' 43.26"
	11862.00	89.48	359.81	10220.54	2088.91	2066.95	-495.96	0.92	425893.24	656228.84	N 32° 10' 13.13" W	103° 57' 43.25"
	11957.00	91.48	1.59	10219.75	2183.72	2161.93	-494.80	2.82	425988.22	656230.00	N 32° 10' 14.07" W	103° 57' 43.24"
	12051.00	90.24	0.83	10218.33	2277.47	2255.89	-492.82	1.55	426082.18	656231.99	N 32° 10' 15.00" W	103° 57' 43.21"
	12145.00	90.27	1.13	10217.92	2371.26	2349.88	-491.21	0.32	426176.15	656233.60	N 32° 10' 15.93" W	103° 57' 43.19"
	12240.00	89.96	0.43	10217.71	2476.05	2454.87	-489.78	0.73	426281.14	656235.03	N 32° 10' 16.97" W	103° 57' 43.17"
	12334.00	89.31	358.33	10218.30	2569.98	2548.85	-490.80	2.34	426375.12	656234.01	N 32° 10' 17.90" W	103° 57' 43.17"
	12439.00	89.48	359.09	10219.31	2664.94	2643.82	-492.94	0.82	426470.08	656231.87	N 32° 10' 18.84" W	103° 57' 43.20"
	12533.00	89.61	0.11	10220.05	2758.85	2737.82	-493.59	1.09	426564.06	656231.21	N 32° 10' 19.77" W	103° 57' 43.20"
	12628.00	89.13	0.31	10221.10	2853.71	2832.81	-493.25	0.55	426659.05	656231.56	N 32° 10' 20.71" W	103° 57' 43.19"
	12722.00	89.24	359.67	10222.44	2947.58	2926.80	-493.26	0.69	426753.03	656231.55	N 32° 10' 21.64" W	103° 57' 43.19"
	12817.00	89.75	359.34	10223.27	3042.50	3021.79	-494.08	0.64	426848.02	656230.73	N 32° 10' 22.58" W	103° 57' 43.19"
	12912.00	89.89	359.04	10223.57	3137.44	3116.78	-495.43	0.35	426943.00	656229.38	N 32° 10' 23.52" W	103° 57' 43.21"
	13007.00	89.31	0.05	10224.23	3232.36	3211.78	-496.18	1.23	427037.99	656228.63	N 32° 10' 24.46" W	103° 57' 43.21"
	13101.00	89.48	359.64	10225.23	3326.25	3305.77	-496.44	0.47	427131.97	656228.37	N 32° 10' 25.39" W	103° 57' 43.21"
	13196.00	89.20	359.07	10226.32	3421.17	3400.76	-497.50	0.67	427226.95	656227.30	N 32° 10' 26.33" W	103° 57' 43.22"
	13290.00	88.69	359.87	10228.05	3515.08	3494.74	-498.37	1.01	427320.92	656226.43	N 32° 10' 27.26" W	103° 57' 43.22"
	13385.00	90.06	359.61	10228.09	3609.98	3589.73	-498.80	1.47	427415.91	656226.00	N 32° 10' 28.20" W	103° 57' 43.23"
	13479.00	90.27	359.25	10228.55	3707.83	3707.72	-500.68	0.22	427503.88	656224.13	N 32° 10' 29.16" W	103° 57' 43.24"
	13573.00	90.13	359.83	10227.89	3806.66	3806.71	-502.19	0.32	427592.86	656222.62	N 32° 10' 30.13" W	103° 57' 43.25"
	13667.00	91.95	359.66	10226.16	3901.55	3901.69	-502.62	1.92	427687.83	656222.19	N 32° 10' 31.13" W	103° 57' 43.25"
	13762.00	90.47	358.11	10224.14	4001.48	4001.48	-504.48	2.23	427783.78	656220.33	N 32° 10' 32.17" W	103° 57' 43.27"
	13857.00	90.99	357.24	10222.91	4103.45	4103.45	-506.38	1.06	427879.68	656216.43	N 32° 10' 33.27" W	103° 57' 43.31"
	13953.00	90.26	357.63	10221.88	4208.46	4208.46	-512.63	0.87	427974.57	656212.18	N 32° 10' 34.41" W	103° 57' 43.36"
	14049.00	90.57	356.56	10221.20	4316.44	4316.44	-517.39	1.19	428070.44	656207.42	N 32° 10' 35.63" W	103° 57' 43.41"
	14144.00	91.23	357.56	10219.70	4427.44	4427.44	-522.26	1.26	428166.30	656202.55	N 32° 10' 36.97" W	103° 57' 43.46"
	14238.00	90.37	0.61	10218.38	4532.37	4532.37	-527.78	3.34	428262.16	656200.03	N 32° 10' 38.51" W	103° 57' 43.47"
	14333.00	88.99	1.90	10218.91	4637.12	4637.12	-531.70	1.99	428358.02	656203.11	N 32° 10' 39.45" W	103° 57' 43.45"
	14428.00	89.54	1.74	10221.34	4742.12	4742.12	-535.67	0.30	428453.89	656209.14	N 32° 10' 40.43" W	103° 57' 43.37"
	14523.00	90.40	1.88	10221.39	4846.46	4846.46	-539.60	1.03	428549.75	656203.11	N 32° 10' 41.43" W	103° 57' 43.37"
	14617.00	89.75	1.13	10221.27	4950.97	4950.97	-543.52	0.94	428645.61	656212.11	N 32° 10' 42.46" W	103° 57' 43.33"
	14713.00	89.40	0.83	10221.96	5055.92	5055.92	-547.45	1.04	428741.47	656214.61	N 32° 10' 43.50" W	103° 57' 43.30"
	14807.00	89.40	0.13	10222.90	5160.87	5160.87	-551.37	0.50	428837.34	656216.20	N 32° 10' 44.52" W	103° 57' 43.28"
	14902.00	89.47	0.95	10222.90	5265.82	5265.82	-555.29	0.12	428933.20	656216.20	N 32° 10' 45.56" W	103° 57' 43.25"
	14995.00	89.54	1.42	10223.71	5370.77	5370.77	-559.22	0.57	429029.07	656211.95	N 32° 10' 46.62" W	103° 57' 43.25"
	15090.00	89.75	1.72	10224.29	5475.72	5475.72	-563.15	0.36	429124.93	656211.95	N 32° 10' 47.68" W	103° 57' 43.23"
	15184.00	89.51	2.04	10224.90	5580.67	5580.67	-567.08	0.92	429220.79	656211.95	N 32° 10' 48.74" W	103° 57' 43.19"
	15278.00	89.78	1.22	10225.49	5685.62	5685.62	-571.01	0.41	429316.65	656225.31	N 32° 10' 49.80" W	103° 57' 43.15"
	15373.00	90.37	0.24	10225.37	5790.57	5790.57	-574.94	1.22	429412.51	656228.01	N 32° 10' 50.86" W	103° 57' 43.12"
	15468.00	90.68	356.75	10223.64	5895.52	5895.52	-578.87	1.85	429508.37	656229.21	N 32° 10' 51.92" W	103° 57' 43.10"
	15562.00	90.57	356.45	10222.60	6000.47	6000.47	-582.80	0.34	429604.23	656224.25	N 32° 10' 52.98" W	103° 57' 43.15"
	15657.00	90.26	356.18	10221.91	6105.42	6105.42	-586.73	0.43	429700.09	656218.61	N 32° 10' 54.04" W	103° 57' 43.21"
	15751.00	88.34	354.87	10223.06	6210.37	6210.37	-590.66	2.47	429795.95	656212.51	N 32° 10' 55.10" W	103°

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 ° ' ")
	20195.00	89.01	357.01	10230.12	10408.91	10395.18	-534.85	0.51	434220.84	656189.96	N 32 11 35.54	W 103 57 43.37
	20289.00	89.21	357.68	10231.58	10502.90	10489.07	-539.21	0.74	434314.72	656185.60	N 32 11 36.47	W 103 57 43.42
	20478.00	89.15	358.03	10234.28	10691.87	10677.92	-546.28	0.19	434503.55	656178.53	N 32 11 38.34	W 103 57 43.49
	20573.00	89.04	356.73	10235.78	10786.85	10772.81	-550.62	1.37	434598.43	656174.19	N 32 11 39.28	W 103 57 43.54
340' FNL Crossing	20744.00	89.17	357.95	10238.46	10957.83	10943.60	-558.55	0.72	434769.21	656166.26	N 32 11 40.97	W 103 57 43.63
	20763.00	89.18	358.09	10238.73	10976.82	10962.58	-559.21	0.72	434788.19	656165.61	N 32 11 41.15	W 103 57 43.63
Final MWD	20799.00	89.63	359.04	10239.11	11012.81	10998.57	-560.11	2.92	434824.18	656164.70	N 32 11 41.51	W 103 57 43.64
Proj to TD	20840.00	89.63	359.04	10239.37	11053.79	11039.56	-560.80	0.00	434865.17	656164.02	N 32 11 41.92	W 103 57 43.65

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 31H Gyro + IFR 0-20,840' 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 31H Gyro + IFR 0-20,840' MD
	1	26.500	713.720	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Fly 35-26 Federal Com 31H Gyro + IFR 0-20,840' MD
	1	713.720	20840.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Fly 35-26 Federal Com 31H Gyro +

...Original Borehole\Oxy Corral Fly 35-26 Federal Com 31H Gyro + IFR 0-20,840' MD