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30-015-44703

Schlumberger

Oxy Corral Fly 35-26 Federal Com 22H Gyro+MWD(IFR1) 0-19,410' Survey Geodetic Report

(Def Survey)

Report Date:	June 05, 2018 - 10:17 AM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	OXY	**Vertical Section Azimuth:**	0.236 ° (Grid North)
Field:	NM Eddy County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Oxy Corral Fly 35-26 Federal Com 22H / Oxy Corral Fly 35-26 Federal Com 22H	**TVD Reference Datum:**	RKB=26.5'
Well:	Oxy Corral Fly 35-26 Federal Com 22H	**TVD Reference Elevation:**	3044.700 ft above MSL
Borehole:	Original Borehole	**Seabed / Ground Elevation:**	3018.200 ft above MSL
UWI / API#:	Unknown / 30-015-44703	**Magnetic Declination:**	6.999 °
Survey Name:	Oxy Corral Fly 35-26 Federal Com 22H Gyro+MWD(IFR1) 0-19,410'	**Total Gravity Field Strength:**	998.4574mgn (9.80665 Based)
Survey Date:	May 29, 2018	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	302.700 ° / 11160.258 ft / 6.868 / 1.249	**Total Magnetic Field Strength:**	47991.820 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.924 °
Location Lat / Long:	N 32° 9' 52.65991", W 103° 57' 34.42596"	**Declination Date:**	May 29, 2018
Location Grid N/E Y/X:	N 423827.460 ftUS, E 656904.770 ftUS	**Magnetic Declination Model:**	HDGM 2018
CRS Grid Convergence Angle:	0.1990 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99992441	**Grid Convergence Used:**	0.1990 °
Version / Patch:	2.10.720.0	**Total Corr Mag North->Grid North:**	6.8002 °
		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 ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	423827.46	656994.77	N 32 9 52.66	W 103 57 34.43
RKB	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	423827.46	656994.77	N 32 9 52.66	W 103 57 34.43
	99.10	0.47	68.33	99.10	0.11	0.11	0.28	0.65	423827.57	656995.05	N 32 9 52.68	W 103 57 34.42
	133.00	0.46	63.58	133.00	0.22	0.22	0.53	0.12	423827.68	656995.30	N 32 9 52.66	W 103 57 34.42
	219.50	0.98	60.89	219.49	0.74	0.74	1.49	0.60	423828.20	656996.25	N 32 9 52.67	W 103 57 34.41
	310.20	1.31	100.59	310.17	0.94	0.92	3.18	0.92	423828.38	656997.95	N 32 9 52.67	W 103 57 34.39
Last Gyro	379.50	1.40	100.60	379.45	0.64	0.62	4.79	0.13	423828.08	656999.56	N 32 9 52.67	W 103 57 34.37
	543.00	0.68	74.10	542.93	0.55	0.52	7.69	0.52	423827.98	657002.48	N 32 9 52.66	W 103 57 34.34
	633.00	0.06	331.61	632.93	0.74	0.71	8.18	0.77	423828.17	657002.95	N 32 9 52.67	W 103 57 34.33
	717.00	0.13	350.60	716.93	0.87	0.84	8.14	0.09	423828.30	657002.91	N 32 9 52.67	W 103 57 34.33
	895.00	0.12	260.37	894.93	1.04	1.01	7.93	0.10	423828.47	657002.70	N 32 9 52.67	W 103 57 34.33
	1077.00	0.06	186.10	1076.92	0.91	0.88	7.73	0.07	423828.34	657002.50	N 32 9 52.67	W 103 57 34.34
	1169.00	0.12	329.76	1168.92	0.95	0.92	7.68	0.19	423828.38	657002.44	N 32 9 52.67	W 103 57 34.34
	1260.00	0.06	190.04	1259.92	0.98	0.95	7.62	0.19	423828.41	657002.39	N 32 9 52.67	W 103 57 34.34
	1450.00	0.06	215.66	1449.92	0.81	0.77	7.54	0.01	423828.23	657002.31	N 32 9 52.67	W 103 57 34.34
	1640.00	0.06	196.67	1639.92	0.83	0.80	7.46	0.01	423828.06	657002.23	N 32 9 52.67	W 103 57 34.34
	1735.00	0.06	291.63	1734.92	0.60	0.57	7.40	0.09	423828.03	657002.17	N 32 9 52.67	W 103 57 34.34
	1830.00	0.06	264.91	1829.92	0.01	0.58	7.30	0.03	423828.04	657002.07	N 32 9 52.67	W 103 57 34.34
	1925.00	0.07	183.48	1924.92	0.55	0.52	7.25	0.09	423827.98	657002.02	N 32 9 52.66	W 103 57 34.34
	2020.00	0.14	208.13	2019.92	0.39	0.36	7.19	0.08	423827.82	657001.96	N 32 9 52.66	W 103 57 34.34
	2114.00	0.15	258.18	2113.92	0.28	0.23	7.02	0.14	423827.69	657001.79	N 32 9 52.66	W 103 57 34.34
	2209.00	0.07	328.68	2208.92	0.28	0.25	6.87	0.15	423827.71	657001.64	N 32 9 52.66	W 103 57 34.35
	2305.00	0.12	192.85	2304.92	0.23	0.21	6.82	0.18	423827.67	657001.59	N 32 9 52.66	W 103 57 34.35
	2399.00	0.12	109.53	2398.92	0.11	0.08	6.89	0.17	423827.54	657001.66	N 32 9 52.66	W 103 57 34.35
	2494.00	0.06	341.25	2493.92	0.12	0.09	6.97	0.17	423827.55	657001.74	N 32 9 52.66	W 103 57 34.34
	2589.00	0.12	27.89	2588.92	0.25	0.23	7.00	0.09	423827.69	657001.77	N 32 9 52.66	W 103 57 34.34
	2684.00	0.12	109.30	2683.92	0.31	0.28	7.14	0.16	423827.74	657001.91	N 32 9 52.66	W 103 57 34.34
	2779.00	0.02	349.87	2778.92	0.29	0.26	7.23	0.14	423827.72	657002.00	N 32 9 52.66	W 103 57 34.34
	2874.00	0.12	77.52	2873.92	0.33	0.30	7.32	0.13	423827.76	657002.09	N 32 9 52.66	W 103 57 34.34
	2969.00	0.12	168.63	2968.92	0.26	0.23	7.44	0.18	423827.69	657002.21	N 32 9 52.66	W 103 57 34.34
	3064.00	0.12	247.37	3063.92	0.12	0.09	7.37	0.16	423827.55	657002.14	N 32 9 52.66	W 103 57 34.34
	3158.00	0.04	318.30	3157.92	0.11	0.08	7.25	0.12	423827.54	657002.02	N 32 9 52.66	W 103 57 34.34
	3253.00	0.07	166.10	3252.92	0.08	0.05	7.25	0.11	423827.51	657002.02	N 32 9 52.66	W 103 57 34.34
	3443.00	0.07	223.98	3442.92	-0.12	-0.15	7.19	0.04	423827.31	657001.96	N 32 9 52.66	W 103 57 34.34
	3633.00	0.06	287.55	3632.92	-0.18	-0.20	7.02	0.04	423827.26	657001.79	N 32 9 52.66	W 103 57 34.34
	3727.00	0.07	7.95	3726.92	-0.10	-0.13	6.98	0.09	423827.33	657001.75	N 32 9 52.66	W 103 57 34.34
	3918.00	0.08	21.17	3917.92	0.11	0.08	7.03	0.01	423827.54	657001.80	N 32 9 52.66	W 103 57 34.34
	4108.00	0.08	350.18	4107.92	0.30	0.27	7.05	0.02	423827.73	657001.82	N 32 9 52.66	W 103 57 34.34
	4202.00	0.06	311.01	4201.92	0.38	0.35	7.00	0.04	423827.81	657001.77	N 32 9 52.66	W 103 57 34.34
	4297.00	0.07	162.73	4296.92	0.35	0.33	6.98	0.13	423827.79	657001.75	N 32 9 52.66	W 103 57 34.34
	4302.00	0.07	154.62	4301.92	0.25	0.22	7.03	0.01	423827.68	657001.80	N 32 9 52.66	W 103 57 34.34
	4487.00	0.04	81.52	4486.92	0.20	0.17	7.08	0.07	423827.63	657001.85	N 32 9 52.66	W 103 57 34.34
	4582.00	1.35	24.46	4581.91	1.23	1.19	7.58	1.40	423828.65	657002.35	N 32 9 52.67	W 103 57 34.34
	4676.00	2.85	21.40	4675.85	4.41	4.38	8.90	1.60	423831.84	657003.68	N 32 9 52.70	W 103 57 34.32
	4771.00	4.04	21.29	4770.67	9.74	9.69	10.98	1.25	423837.15	657005.75	N 32 9 52.76	W 103 57 34.30
	4866.00	5.40	21.19	4865.35	17.04	16.98	13.61	1.43	423844.44	657008.58	N 32 9 52.83	W 103 57 34.26
	5056.00	8.18	17.51	5054.00	38.30	38.21	21.11	1.48	423865.67	657015.88	N 32 9 53.04	W 103 57 34.18
	5246.00	9.27	13.72	5241.80	66.09	65.97	28.80	0.65	423893.42	657023.57	N 32 9 53.31	W 103 57 34.09
	5435.00	9.31	7.52	5428.33	96.05	95.91	34.41	0.53	423923.37	657029.18	N 32 9 53.61	W 103 57 34.02
	5625.00	9.74	5.70	5615.71	127.30	127.14	38.02	0.28	423954.59	657032.79	N 32 9 53.92	W 103 57 33.98
	5815.00	8.85	7.12	5803.21	157.81	157.64	41.43	0.48	423985.09	657036.20	N 32 9 54.22	W 103 57 33.94
	6004.00	8.69	10.65	5990.00	186.28	186.10	45.87	0.30	424013.54	657040.64	N 32 9 54.50	W 103 57 33.88
	6195.00	8.79	16.16	6178.79	214.51	214.29	52.60	0.44	424041.74	657047.37	N 32 9 54.78	W 103 57 33.81
	6289.00	8.82	19.70	6271.68	228.21	227.98	57.03	0.58	424055.42	657051.79	N 32 9 54.91	W 103 57 33.75
	6384.00	8.65	23.02	6365.58	241.60	241.41	62.28	0.56	424068.85	657057.04	N 32 9 55.05	W 103 57 33.69
	6574.00	8.88	26.30	6553.36	268.01	267.71	74.36	0.29	424095.15	657069.13	N 32 9 55.31	W 103 57 33.55
	6763.00	8.68	26.77	6740.15	293.87	293.52	87.25	0.11	424120.96	657082.01	N 32 9 55.56	W 103 57 33.40
	6858.00	8.58	23.70	6834.07	306.79	306.41	93.33	0.50	424133.84	657088.09	N 32 9 55.69	W 103 57 33.33
	7049.00	8.39	18.08	7022.98	333.12	332.70	103.38	0.45	424160.13	657098.14	N 32 9 55.95	W 103 57 33.21
	7144.00	8.09	8.29	7117.01	346.34	345.90	108.49	1.51	424173.34	657101.25	N 32 9 56.08	W 103 57 33.17
	7334.00	7.12	359.87	7305.34	371.35	370.91	108.39	0.78	424198.34	657103.15	N 32 9 56.33	W 103 57 33.15
	7428.00	7.15	354.87	7398.61	383.00	382.56	107.86	0.66	424209.99	657102.62	N 32 9 56.44	W 103 57 33.16
	7618.00	7.24	339.87	7587.13	406.00	405.58	102.68	0.69	424233.01	657097.44	N 32 9 56.67	W 103 57 33.22
	7713.00	7.88	338.15	7681.31	417.63	417.23	98.20	0.69	424244.66	657092.98	N 32 9 56.79	W 103 57 33.27
	7808.00	8.16	336.49	7775.38	429.82	429.44	93.09	0.40	424256.87	657087.86	N 32 9 56.91	W 103 57 33.33
	7903.00	8.34	331.44	7869.40	442.03	441.68	87.11	0.79	424269.10	657081.87	N 32 9 57.03	W 103 57 33.39
	7998.00	8.57	329.81	7963.37	454.17	453.85	80.26	0.35	424281.27	657075.02	N 32 9 57.15	W 103 57 33.47
	8093.00	8.20	334.40	8057.35	466.38	466.08	73.78	0.81	424293.50	657068.54	N 32 0 57.27	W 103 57 33.55
	8188.00	6.05	356.30	8146.67	476.89	476.61	70.70	3.80	424304.03	657065.47	N 32 9 57.37	W 103 57 33.58
	8374.00	4.27	37.57	8338.95	492.59	492.29	74.39	2.09	424319.71	657069.15	N 32 9 57.53	W 103 57 33.54

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 ° ' ")
	8469.00	2.31	87.69	8431.79	498.14	495.82	78.32	2.68	424323.24	657073.08	N 32 9 57.56	W 103 57 33.49
	8564.00	0.83	22.81	8526.49	502.10	501.76	82.26	5.73	424329.18	657077.05	N 32 9 57.62	W 103 57 33.45
	8659.00	15.84	10.62	8619.55	520.10	519.75	86.87	9.76	424347.17	657081.64	N 32 9 57.80	W 103 57 33.39
	8754.00	23.42	4.81	8708.97	551.73	551.38	90.78	8.25	424378.78	657085.56	N 32 9 58.11	W 103 57 33.35
	8849.00	37.57	7.00	8790.63	599.56	599.17	95.86	14.95	424426.59	657090.62	N 32 9 58.59	W 103 57 33.29
	8944.00	52.41	3.10	8857.64	666.30	665.89	101.46	15.68	424493.30	657096.22	N 32 9 59.25	W 103 57 33.22
	9040.00	70.53	3.50	8903.30	750.17	749.74	106.32	18.88	424577.14	657101.08	N 32 10 0.08	W 103 57 33.16
	9135.00	87.02	1.57	8921.24	843.03	842.58	110.38	18.10	424669.97	657105.14	N 32 10 0.99	W 103 57 33.11
	9195.00	89.66	2.04	8922.67	902.98	902.53	112.27	3.49	424729.92	657107.03	N 32 10 1.59	W 103 57 33.08
	9270.00	90.62	0.75	8922.48	977.96	977.50	114.10	2.14	424804.89	657108.88	N 32 10 2.33	W 103 57 33.06
	9364.00	91.62	0.06	8920.64	1071.94	1071.48	114.76	1.29	424898.86	657109.52	N 32 10 3.26	W 103 57 33.05
	9457.00	92.75	359.51	8917.10	1164.87	1164.41	114.41	1.35	424991.78	657109.17	N 32 10 4.18	W 103 57 33.05
	9550.00	92.03	359.10	8913.22	1257.78	1257.32	113.28	0.89	425084.68	657108.05	N 32 10 5.10	W 103 57 33.06
	9644.00	91.41	358.39	8910.40	1351.70	1351.26	111.23	1.00	425178.61	657105.99	N 32 10 6.03	W 103 57 33.08
	9737.00	91.03	357.29	8908.42	1444.60	1444.17	107.72	1.25	425271.52	657102.48	N 32 10 6.95	W 103 57 33.11
	9831.00	90.83	355.90	8906.89	1538.39	1537.99	102.14	1.49	425365.33	657096.90	N 32 10 7.88	W 103 57 33.18
	9924.00	90.21	355.02	8906.05	1631.07	1630.69	94.78	1.16	425458.02	657089.54	N 32 10 8.79	W 103 57 33.26
	10017.00	90.04	354.98	8905.85	1723.68	1723.34	86.67	0.19	425550.66	657081.44	N 32 10 9.71	W 103 57 33.35
	10110.00	90.24	357.94	8905.62	1816.47	1816.15	80.03	3.19	425643.47	657075.70	N 32 10 10.63	W 103 57 33.41
	10204.00	89.97	1.16	8905.45	1910.45	1910.13	80.19	3.44	425737.44	657074.98	N 32 10 11.56	W 103 57 33.42
	10391.00	90.00	4.61	8905.50	2097.22	2096.87	89.60	1.84	425924.18	657084.37	N 32 10 13.41	W 103 57 33.30
	10484.00	90.55	4.78	8905.05	2189.93	2189.55	97.22	0.62	426016.84	657091.98	N 32 10 14.32	W 103 57 33.21
	10578.00	90.65	2.77	8904.06	2283.75	2283.34	103.40	2.14	426110.62	657098.17	N 32 10 15.25	W 103 57 33.13
	10671.00	90.31	359.92	8903.29	2376.72	2376.30	105.59	3.09	426203.58	657100.35	N 32 10 16.17	W 103 57 33.10
	10764.00	89.90	356.89	8903.12	2469.68	2469.25	103.00	3.29	426296.52	657097.76	N 32 10 17.09	W 103 57 33.13
	10858.00	89.97	356.07	8903.22	2563.45	2563.07	97.23	0.88	426390.34	657091.99	N 32 10 18.02	W 103 57 33.19
	10951.00	90.14	355.48	8903.13	2656.17	2655.82	90.38	0.66	426483.08	657085.14	N 32 10 18.94	W 103 57 33.27
	11046.00	89.69	355.50	8903.27	2750.85	2750.53	82.91	0.47	426577.77	657077.67	N 32 10 19.87	W 103 57 33.35
	11141.00	89.35	355.42	8904.07	2845.51	2845.23	75.39	0.37	426672.46	657070.15	N 32 10 20.81	W 103 57 33.43
	11236.00	89.69	356.17	8904.87	2940.22	2939.97	68.42	0.87	426767.20	657063.19	N 32 10 21.75	W 103 57 33.51
	11330.00	89.73	357.03	8905.34	3034.03	3033.80	62.85	0.92	426861.02	657057.61	N 32 10 22.68	W 103 57 33.57
	11425.00	89.59	359.41	8905.90	3128.96	3128.74	59.90	2.51	426955.96	657054.66	N 32 10 23.62	W 103 57 33.60
	11615.00	89.62	358.82	8907.21	3318.82	3318.71	56.63	0.42	427145.91	657051.39	N 32 10 25.50	W 103 57 33.63
	11710.00	89.86	358.92	8907.65	3413.68	3413.69	54.59	0.40	427240.88	657049.36	N 32 10 26.44	W 103 57 33.65
	11804.00	91.03	358.98	8906.92	3507.85	3507.87	52.85	1.25	427334.85	657047.62	N 32 10 27.37	W 103 57 33.67
	11995.00	89.28	0.02	8906.40	3698.83	3698.85	51.15	1.07	427525.82	657045.92	N 32 10 29.26	W 103 57 33.68
	12165.00	88.87	1.09	8909.47	3868.78	3868.59	53.00	0.90	427715.75	657048.75	N 32 10 31.14	W 103 57 33.64
	12375.00	89.60	3.05	8911.90	4078.59	4078.36	62.84	1.11	427905.51	657057.60	N 32 10 33.01	W 103 57 33.53
	12470.00	90.00	5.58	8912.19	4173.30	4173.05	70.48	2.66	428000.10	657065.24	N 32 10 33.95	W 103 57 33.44
	12565.00	89.73	5.26	8912.41	4267.92	4267.62	78.45	0.44	428094.75	657074.22	N 32 10 34.89	W 103 57 33.33
	12660.00	89.52	4.74	8913.03	4362.58	4362.26	87.73	0.59	428189.38	657082.49	N 32 10 35.82	W 103 57 33.23
	12754.00	89.21	0.86	8914.07	4456.47	4456.12	92.32	4.14	428283.24	657087.09	N 32 10 36.75	W 103 57 33.17
	12849.00	89.62	357.89	8915.04	4551.44	4551.10	91.29	3.16	428378.21	657086.05	N 32 10 37.69	W 103 57 33.18
	12944.00	89.73	357.09	8915.58	4646.33	4646.01	87.13	0.85	428473.11	657081.89	N 32 10 38.63	W 103 57 33.22
	13134.00	89.52	356.23	8916.83	4835.84	4835.57	74.40	0.99	428662.65	657069.17	N 32 10 40.51	W 103 57 33.36
	13229.00	89.86	354.06	8917.34	4930.38	4930.15	65.54	1.28	428757.23	657060.30	N 32 10 41.44	W 103 57 33.45
	13323.00	89.66	357.61	8917.73	5024.09	5023.89	58.71	3.78	428850.98	657053.48	N 32 10 42.37	W 103 57 33.54
	13418.00	89.73	350.66	8918.24	5119.04	5118.85	56.45	2.16	428945.92	657051.21	N 32 10 43.31	W 103 57 33.56
	13608.00	89.93	5.30	8918.80	5308.82	5308.59	64.77	3.00	429135.64	657059.53	N 32 10 45.19	W 103 57 33.46
	13703.00	89.76	5.49	8919.06	5403.43	5403.17	73.75	0.23	429230.21	657068.51	N 32 10 46.12	W 103 57 33.35
	13798.00	89.69	2.82	8919.52	5498.19	5497.91	80.63	2.81	429324.94	657075.39	N 32 10 47.06	W 103 57 33.27
	13893.00	89.60	358.57	8920.08	5593.17	5592.88	81.78	4.47	429419.90	657076.54	N 32 10 48.00	W 103 57 33.25
	13988.00	89.62	355.03	8920.65	5687.98	5687.71	78.48	3.73	429514.73	657073.24	N 32 10 48.94	W 103 57 33.31
	14083.00	89.66	354.08	8921.25	5782.51	5782.28	67.46	1.00	429609.29	657062.23	N 32 10 49.87	W 103 57 33.41
	14178.00	89.90	355.91	8921.62	5877.11	5876.91	59.18	1.94	429703.92	657053.94	N 32 10 50.81	W 103 57 33.50
	14273.00	90.17	3.72	8921.56	5972.03	5971.84	58.87	6.23	429798.84	657053.64	N 32 10 51.75	W 103 57 33.50
	14368.00	89.86	9.10	8921.53	6066.44	6066.20	69.52	5.74	429893.19	657064.29	N 32 10 52.68	W 103 57 33.37
	14463.00	89.69	7.58	8921.91	6160.48	6160.19	83.35	1.67	429987.17	657078.11	N 32 10 53.61	W 103 57 33.21
	14558.00	89.66	3.60	8922.44	6255.05	6254.72	92.60	4.19	430081.69	657087.37	N 32 10 54.55	W 103 57 33.10
	14653.00	89.73	359.54	8922.95	6350.00	6349.66	95.20	4.27	430176.63	657089.97	N 32 10 55.49	W 103 57 33.08
	14748.00	89.52	356.42	8923.57	6444.91	6444.59	91.86	3.29	430271.55	657086.62	N 32 10 56.43	W 103 57 33.10
	14842.00	89.42	354.39	8924.44	6538.57	6538.28	84.33	2.16	430365.23	657079.09	N 32 10 57.35	W 103 57 33.18
	14937.00	89.90	354.44	8925.01	6633.08	6632.82	76.08	0.51	430459.77	657069.85	N 32 10 58.29	W 103 57 33.28
	15127.00	89.90	355.97	8925.34	6822.34	6822.15	59.20	0.81	430649.08	657053.96	N 32 11 0.10	W 103 57 33.46
	15222.00	90.21	357.98	8925.25	6917.18	6917.01	54.17	2.12	430743.94	657048.94	N 32 11 1.10	W 103 57 33.52
	15317.00	90.24	357.70	8924.87	7012.09	7011.95	50.57	0.28	430838.86	657045.34	N 32 11 2.04	W 103 57 33.55
	15511.00	89.59	356.12	8925.10	7205.76	7205.66	40.12	0.88	431032.56	657034.88	N 32 11 3.96	W 103 57 33.67
	15606.00	89.55	354.68	8925.87	7300.42	7300.35	32.51	1.51	431127.24	657027.27	N 32 11 4.90	W 103 57 33.75
	15701.00	89.62	355.29	8926.56	7395.02	7394.98	24.21	0.64	431221.87	657018.98	N 32 11 5.83	W 103 57 33.85
	15795.00	89.31	356.72	8927.44	7488.75	7488.74	17.66	1.56	431315.62	657012.43	N 32 11 6.76	W 103 57 33.92
	15891.00	89.49	358.22	8928.44	7584.63	7584.64	13.42	1.57	431411.51	657008.19	N 32 11 7.71	W 103 57 33.98
	15986.00	89.31	0.88	8929.44	7679.61	7679.63	12.68	2.81	431506.49	657007.45	N 32 11 8.65	W 103 57 33.97
	16081.00	89.73	2.39	8930.24	7774.58	7774.58	15.39	1.65	431601.44	657010.16	N 32 11 9.59	W 103 57 33.93
	16176.00	88.87	2.10	8931.40	7869.51	7869.50	19.11	0.98	431696.35	657013.88	N 32 11 10.53	W 103 57 33.89
	16271.00	89.79	358.76	8932.51	7964.49	7964.48	19.82	3.65	431791.32	657014.59	N 32 11 11.47	W 103 57 33.87
	16365.00	89.66	357.64	8932.96	8058.43	8058.43	16.87	1.20	431885.26	657011.64	N 32 11 12.40	W 103 57 33.90
	16460.00	90.17	358.83	8933.10	8153.37	8153.38	13.94	1.36	431980.21	657008.71	N 32 11 13.34	W 103 57 33.93
	16555.00	90.10	0.15	8932.88	8248.36	8248.37	13.10	1.39	432075.19	657007.87	N 32 11 14.28	W 103 57 33.94
	16650.00	89.86	1.18	8932.91	8343.35	8343.37	14.20	1.11	432170.18	657008.97	N 32 11 15.22	W 103 57 33.92
	16745.00	90.41	1.00	8932.89	8438.34	8438.35	16.01	0.61	432265.15	657010.78	N 32 11 16.16	W 103 57 33.90
	16840.00	90.17	2.35	8932.20	8533.31	8533.30	18.78	1.44	432360.10	657013.55	N 32 11 17.10	W 103 57 33.86
	16935.00	90.69	4.61	8931.49	8628.15	8628.12	24.55	2.44	432454.91	657018.32	N 32 11 18.04	W 103 57 33.78
	17030.00	90.48	5.18	8930.52	8722.83	8722.77	32.66	0.64	432549.55	657027.42	N 32 11 18.97	W 103 57 33.69
	17125.00	90.59	6.55	8929.63	8817.36	8817.28	42.36	1.45	432644.04	657037.13	N 32 11 19.91	W 103 57 33.58
	17220.00	90.24	5.86	8928.95	8911.85	8911.76	52.03	0.81	432738.47	657047.40	N 32 11 20.84	W 103 57 33.45
	17315.00	90.10	3.06	8928.66	9006.58	9006.51	60.02	2.95	432833.17	657054.78	N 32 11 21.78	W 103 57 33.36
	17410.00	90.07	359.86	8928.52	9101.54	9101.36	62.44	3.37	432928.12	657057.20	N 32 11 22.72	W 103 57 33.33
	17505.00	90.59	354.78	8927.98	9196.39	9196.23	58.00	5.38	433022.97	657052.76	N 32 11 23.66	W 103 57 33.38
	17600.00	90.28	354.19	8927.25	9290.91	9290.78	48.87	0.70	433117.52	657043.63	N 32 11 24.59	W 103 57 33.48
	17695.00	90.65	355.20	8926.48	9385.48	9385.37	40.08	1.13	433212.10	657034.85	N 32 11 25.53	W 103 57 33.58
	17790.00	90.24	356.08	8925.75	9480.15	9480.09	32.86	1.02	433306.82	657027.63	N 32 11 26.47	W 103 57 33.66
	17885.00	90.21	356.91	8925.37	9574.94	9574.91	27.05	0.87	433401.63	657021.82	N 32 11 27.40	W 103 57 33.72
	17980.00	89.80	356.40	8925.31	9669.85	9669.83	23.17	1.61	433496.54	657017.84	N 32 11 28.34	W 103 57 33.77
	18075.00	90.17	350.21	8925.29	9764.81	9764.81	21.19	6.91	433591.51	657015.95	N 32 11 29.28	W 103 57 33.78
	18170.00	90.38	359.69	8924.83	9859.80	9859.80	20.27	0.55	433686.50	657015.04	N 32 11 30.22	W 103 57 33.79
	18265.00	90.52	1.53	8924.09	9954.80	9954.79	21.29	1.94	433781.48	657016.05	N 32 11 31.16	W 103 57 33.78
	18360.00	89.97	2.87	8923.68	10049.74	10049.72	24.93	1.52	433876.40	657019.70	N 32 11 32.10	W 103 57 33.73
	18455.00	90.14	2.67	8923.59	10144.64	10144.61	29.52	0.28	433971.28	657024.29	N 32 11 33.04	W 103 57 33.67
	18550.00	89.49	1.88	8923.90	10239.58	10239.53	33.28	1.09	434066.20	657028.05	N 32 11 33.98	W 103 57 33.62
	18645.00	89.69	1.61	8924.58	10334.55	10334.49	36.15	0.34	434161.14	657030.92	N 32 11 34.92	W 103 57 33.59
	18740.00	89.59	2.77	8925.17	10429.49	10429.41	39.78	1.23	434256.06	657034.55	N 32 11 35.86	W 103 57 33.54

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 ° ' ")
	18835.00	89.78	3.78	8925.71	10524.35	10524.25	45.21	1.08	434350.90	657039.98	N 32 11 38.80	W 103 57 33.47
	18930.00	89.78	4.69	8926.11	10619.12	10618.99	52.23	0.96	434445.63	657046.99	N 32 11 37.73	W 103 57 33.39
	19025.00	89.79	4.24	8926.48	10713.86	10713.70	59.62	0.47	434540.33	657054.39	N 32 11 38.67	W 103 57 33.30
	19120.00	89.62	3.26	8926.97	10808.68	10808.50	65.84	1.05	434635.12	657060.60	N 32 11 39.61	W 103 57 33.22
	19215.00	89.38	1.25	8927.80	10903.61	10903.42	69.57	2.13	434730.03	657064.34	N 32 11 40.55	W 103 57 33.18
Final MWD Survey	19305.00	89.52	358.79	8929.24	11053.59	11053.40	69.63	1.64	434880.00	657064.39	N 32 11 42.03	W 103 57 33.17
Proj. to Bit	19410.00	89.52	358.79	8929.62	11098.57	11098.39	68.68	0.00	434924.99	657063.44	N 32 11 42.48	W 103 57 33.18

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 (in)	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 22H Gyro+MWD(IFR1) 0-19,410'
	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 22H Gyro+MWD(IFR1) 0-19,410'
	1	26.500	379.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Fly 35-26 Federal Com 22H
	1	379.500	717.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Corral Fly 35-26 Federal Com 22H
	1	717.000	8183.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Fly 35-26 Federal Com 22H
	1	8183.000	9195.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Corral Fly 35-26 Federal Com 22H
	1	9195.000	19410.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Fly 35-26 Federal Com 22H