

Provide Signature Page for Directional Survey

Schlumberger

Oxy Corral Canyon 36-25 Federal Com 32H Gyro+MWD 0' - 20718'MD Survey Geodetic Report (Def Survey)

30-015-44642



Report Date: December 03, 2018 - 12:09 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Corral Canyon 36-25 Federal Com 32H / Oxy Corral Canyon 36-25 Federal Com 32H
Well: Corral Canyon 36-25 Federal Com 32H
Borehole: Original Borehole
UWI / API#: H&P 635 / 30-015-44642
Survey Name: Oxy Corral Canyon 36-25 Federal Com 32H Gyro+MWD 0' - 20718'MD
Survey Date: October 09, 2018
Tort / AHD / DDI / ERD Ratio: 292.139' / 11084.242 ft / 8.809 / 1.065
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 0' 54.02134", W 103° 56' 29.98554"
Location Grid N/E Y/X: N 423984.730 NUS, E 662533.210 NUS
CRS Grid Convergence Angle: 0.2085°
Grid Scale Factor: 0.99992521
Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 358.110° (Grid North)
Vertical Section Origin: 0 000 ft, 0 000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3138.700 ft above MSL
Seabed / Ground Elevation: 3112.200 ft above MSL
Magnetic Declination: 6.880°
Total Gravity Field Strength: 998.4504mgm (9.80665 Based)
Gravity Model: QARM
Total Magnetic Field Strength: 48004.300 nT
Magnetic Dip Angle: 59.903°
Declination Date: November 18, 2018
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.2085°
Total Corr Mag North->Grid North: 6.6715°
Local Coord Referenced To: Well Head

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 28 2019

RECEIVED

Comments	MD (ft)	Incl (°)	Azthm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (1/1000)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	423984.73	662533.21	N 32° 0' 54.02"	W 103° 56' 29.99"
WRP	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	423984.73	662533.21	N 32° 0' 54.02"	W 103° 56' 29.99"
	70.50	0.24	268.48	70.50	0.00	-0.01	-0.09	0.55	423984.72	662533.12	N 32° 0' 54.02"	W 103° 56' 29.99"
	170.50	0.64	254.38	170.50	-0.13	-0.15	-0.75	0.31	423984.68	662532.46	N 32° 0' 54.02"	W 103° 56' 29.99"
	270.50	0.88	240.26	270.49	-0.55	-0.57	-1.00	0.33	423984.16	662531.31	N 32° 0' 54.02"	W 103° 56' 30.01"
	370.50	0.98	242.58	370.48	-1.21	-1.26	-3.33	0.12	423983.47	662529.88	N 32° 0' 54.01"	W 103° 56' 30.02"
	470.50	0.83	200.81	470.47	-2.26	-2.33	-4.33	0.65	423982.40	662528.88	N 32° 0' 54.00"	W 103° 56' 30.04"
Final Gyro	553.50	0.91	196.92	553.46	-3.44	-3.52	-4.73	0.12	423981.21	662527.11	N 32° 0' 53.99"	W 103° 56' 30.04"
	623.00	1.37	204.88	622.94	-4.72	-4.80	-6.24	0.70	423979.83	662527.87	N 32° 0' 53.97"	W 103° 56' 30.05"
	715.00	1.38	200.68	714.92	-6.74	-6.83	-6.10	0.11	423977.90	662527.11	N 32° 0' 53.95"	W 103° 56' 30.06"
	807.00	1.43	198.72	806.89	-8.85	-8.96	-6.86	0.08	423975.77	662526.35	N 32° 0' 53.93"	W 103° 56' 30.07"
	900.00	1.85	201.18	899.85	-11.33	-11.46	-7.77	0.46	423973.27	662525.44	N 32° 0' 53.91"	W 103° 56' 30.08"
	1085.00	2.56	190.50	1084.71	-18.15	-18.30	-9.60	0.44	423968.43	662523.81	N 32° 0' 53.84"	W 103° 56' 30.10"
	1177.00	2.46	193.68	1176.82	-22.08	-22.24	-10.44	0.19	423962.49	662522.77	N 32° 0' 53.80"	W 103° 56' 30.11"
	1269.00	2.49	194.48	1268.54	-25.82	-26.10	-11.41	0.05	423958.64	662521.80	N 32° 0' 53.76"	W 103° 56' 30.12"
	1362.00	2.27	202.07	1361.46	-29.56	-29.78	-12.61	0.41	423954.97	662520.60	N 32° 0' 53.73"	W 103° 56' 30.13"
	1454.00	1.26	220.43	1453.41	-32.00	-32.22	-13.95	1.24	423952.52	662519.26	N 32° 0' 53.70"	W 103° 56' 30.15"
	1542.00	0.08	90.22	1541.41	-32.72	-32.95	-14.51	1.49	423951.78	662518.70	N 32° 0' 53.70"	W 103° 56' 30.18"
	1636.00	0.13	19.74	1635.41	-32.63	-32.85	-14.41	0.14	423951.88	662518.80	N 32° 0' 53.70"	W 103° 56' 30.18"
	1731.00	0.13	199.53	1730.41	-32.63	-32.85	-14.41	0.27	423951.88	662518.80	N 32° 0' 53.70"	W 103° 56' 30.15"
	1825.00	0.18	265.45	1824.41	-32.74	-32.97	-14.59	0.18	423951.77	662518.62	N 32° 0' 53.70"	W 103° 56' 30.18"
	1919.00	0.13	81.27	1918.41	-32.73	-32.96	-14.64	0.33	423951.77	662518.58	N 32° 0' 53.70"	W 103° 56' 30.18"
	2014.00	0.18	246.12	2013.41	-32.77	-33.01	-14.67	0.32	423951.73	662518.55	N 32° 0' 53.70"	W 103° 56' 30.18"
	2108.00	0.13	47.22	2107.41	-32.78	-33.00	-14.72	0.33	423951.74	662518.40	N 32° 0' 53.70"	W 103° 56' 30.18"
	2202.00	0.13	92.99	2201.41	-32.70	-33.03	-14.54	0.11	423951.81	662518.67	N 32° 0' 53.70"	W 103° 56' 30.16"
	2296.00	0.13	18.64	2295.41	-32.60	-32.83	-14.40	0.17	423951.90	662518.81	N 32° 0' 53.70"	W 103° 56' 30.15"
	2391.00	0.13	128.07	2390.41	-32.57	-32.80	-14.28	0.22	423951.94	662518.93	N 32° 0' 53.70"	W 103° 56' 30.15"
	2485.00	0.13	301.33	2484.41	-32.58	-32.81	-14.29	0.28	423951.93	662518.93	N 32° 0' 53.70"	W 103° 56' 30.15"
	2579.00	0.21	6.38	2578.41	-32.35	-32.58	-14.36	0.21	423952.15	662518.85	N 32° 0' 53.70"	W 103° 56' 30.15"
	2673.00	0.13	247.49	2672.41	-32.22	-32.45	-14.44	0.31	423952.28	662518.77	N 32° 0' 53.70"	W 103° 56' 30.15"
	2769.00	0.13	203.99	2767.41	-32.36	-32.59	-14.58	0.10	423952.14	662518.63	N 32° 0' 53.70"	W 103° 56' 30.16"
	2857.00	0.09	286.84	2856.41	-32.48	-32.72	-14.80	0.09	423952.02	662518.41	N 32° 0' 53.70"	W 103° 56' 30.16"
	3051.00	0.17	42.46	3050.41	-32.35	-32.58	-14.77	0.23	423952.15	662518.44	N 32° 0' 53.70"	W 103° 56' 30.16"
	3145.00	0.13	275.59	3144.40	-32.23	-32.47	-14.78	0.29	423952.20	662518.43	N 32° 0' 53.70"	W 103° 56' 30.16"
	3240.00	0.13	297.60	3239.40	-32.17	-32.41	-14.89	0.05	423952.33	662518.23	N 32° 0' 53.70"	W 103° 56' 30.16"
	3429.00	0.13	205.11	3428.40	-31.97	-32.22	-15.37	0.00	423952.62	662517.84	N 32° 0' 53.70"	W 103° 56' 30.17"
	3523.00	0.21	127.91	3522.40	-32.04	-32.28	-15.33	0.36	423952.40	662517.68	N 32° 0' 53.70"	W 103° 56' 30.17"
	3617.00	0.17	91.84	3616.40	-32.15	-32.39	-15.08	0.13	423952.34	662518.16	N 32° 0' 53.70"	W 103° 56' 30.18"
	3712.00	0.17	342.52	3711.40	-32.02	-32.26	-14.98	0.29	423952.47	662518.25	N 32° 0' 53.70"	W 103° 56' 30.18"
	3806.00	0.19	267.49	3805.40	-31.89	-32.13	-15.15	0.23	423952.60	662518.08	N 32° 0' 53.70"	W 103° 56' 30.18"
	3995.00	0.19	96.53	3994.40	-31.84	-32.18	-15.18	0.20	423952.55	662518.05	N 32° 0' 53.70"	W 103° 56' 30.18"
	4183.00	0.19	275.14	4182.40	-31.95	-32.19	-15.18	0.20	423952.54	662518.05	N 32° 0' 53.70"	W 103° 56' 30.18"
	4278.00	0.19	48.08	4277.40	-31.83	-32.07	-15.20	0.36	423952.67	662518.01	N 32° 0' 53.70"	W 103° 56' 30.18"
	4372.00	0.19	218.47	4371.40	-31.84	-32.08	-15.19	0.40	423952.65	662518.03	N 32° 0' 53.70"	W 103° 56' 30.18"
	4561.00	0.17	39.43	4560.40	-31.87	-32.11	-15.20	0.19	423952.62	662518.01	N 32° 0' 53.70"	W 103° 56' 30.18"
	4750.00	0.19	163.98	4749.40	-31.86	-32.19	-14.94	0.17	423952.54	662518.27	N 32° 0' 53.70"	W 103° 56' 30.16"
	4939.00	0.12	68.69	4938.40	-32.18	-32.42	-14.67	0.13	423952.32	662518.54	N 32° 0' 53.70"	W 103° 56' 30.16"
	5127.00	0.19	284.35	5126.40	-32.03	-32.26	-14.79	0.18	423952.47	662518.42	N 32° 0' 53.70"	W 103° 56' 30.16"
	5222.00	0.17	120.31	5221.40	-32.08	-32.31	-14.70	0.17	423952.42	662518.42	N 32° 0' 53.70"	W 103° 56' 30.16"
	5411.00	0.16	299.30	5410.40	-32.08	-32.31	-14.70	0.05	423952.77	662518.12	N 32° 0' 53.71"	W 103° 56' 30.16"
	5600.00	0.12	335.73	5599.40	-31.77	-32.01	-15.09	0.20	423952.77	662518.07	N 32° 0' 53.71"	W 103° 56' 30.16"
	5694.00	0.15	248.49	5693.40	-31.73	-31.97	-15.26	0.20	423952.78	662518.00	N 32° 0' 53.71"	W 103° 56' 30.16"
	5883.00	0.17	68.84	5882.40	-31.72	-31.96	-15.21	0.17	423952.78	662518.22	N 32° 0' 53.71"	W 103° 56' 30.16"
	5978.00	0.12	113.36	5977.40	-31.71	-31.94	-14.89	0.13	423952.79	662518.57	N 32° 0' 53.70"	W 103° 56' 30.18"
	6166.00	0.15	135.03	6165.40	-31.67	-32.20	-14.64	0.03	423952.53	662518.59	N 32° 0' 53.70"	W 103° 56' 30.16"
	6261.00	0.12	314.77	6260.40	-31.99	-32.22	-14.62	0.28	423952.52	662518.40	N 32° 0' 53.70"	W 103° 56' 30.16"
	6449.00	0.19	171.73	6448.40	-32.15	-32.39	-14.72	0.16	423952.35	662518.61	N 32° 0' 53.70"	W 103° 56' 30.16"
	6544.00	0.12	110.54	6543.40	-32.35	-32.58	-14.60	0.18	423952.15	662518.72	N 32° 0' 53.71"	W 103° 56' 30.16"
	6638.00	0.96	1.11	6637.39	-31.60	-31.82	-14.49	1.07	423952.91	662519.13	N 32° 0' 53.74"	W 103° 56' 30.15"
	6732.00	2.87	9.81	6731.34	-28.49	-28.72	-14.09	2.05	423956.02	662520.26	N 32° 0' 53.80"	W 103° 56' 30.14"
	6826.00	4.75	10.66	6825.12	-22.37	-22.58	-12.95	2.00	423962.16	662521.90	N 32° 0' 53.88"	W 103° 56' 30.12"
	6921.00	5.86	10.67	6919.72	-13.77	-13.95	-11.31	1.17	423970.78	662523.62	N 32° 0' 53.98"	W 103° 56' 30.10"
	7015.00	6.63	8.77	7013.18	-3.72	-3.87	-8.50	0.85	423980.86	662525.46	N 32° 0' 54.02"	W 103° 56' 30.05"
	7109.00	7.67	9.29	7106.43	7.80	7.69	-7.75	1.11	423992.41	662527.57	N 32° 0' 54.22"	W 103° 56' 30.05"
	7204.00	8.03	9.40	7200.54	20.57	20.49	-5.64	0.38	424005.22	662529.06	N 32° 0' 54.35"	W 103° 56' 30.03"
	7298.00	8.12	3.53	7293.60	33.65	33.59	-4.15	0.89	424018.32	662527.74	N 32° 0' 54.61"	W 103° 56' 30.05"
	7393.00	7.61	357.29	7387.71	48.63	48.57	-4.03	1.05	424031.30	662524.83	N 32° 0' 54.71"	W 103° 56' 30.08"
	7487.00	6.92	348.41	7480.96	58.41	58.33	-5.47	1.40	424043.08	662521.23	N 32° 0' 54.84"	W 103° 56' 30.12"
	7581.00	7.86	343.03	7574.18	70.18	70.06	-6.38	1.17	424054.78	662517.58	N 32° 0' 54.98"	W 103° 56' 30.16"
	7675.00	8.69	345.15	7667.20	83.28	83.10	-11.98	0.90	424067.82	662513.80	N 32° 0' 55.13"	W 103° 56' 30.

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (s)	NS (ft)	EW (ft)	DLB (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	8430.00	9.77	358.38	8407.87	228.49	225.95	-30.41	2.80	424210.88	682496.80	N 32° 9' 58.26" W	103° 58' 30.40"
	8524.00	9.32	353.12	8500.57	241.98	241.41	-38.38	0.50	424226.13	682494.84	N 32° 9' 56.41" W	103° 58' 30.42"
	8618.00	9.00	358.25	8614.30	257.08	258.48	-39.79	0.81	424241.20	682493.43	N 32° 9' 56.56" W	103° 58' 30.44"
	8713.00	10.02	359.68	8687.08	278.62	272.03	-40.31	1.21	424256.74	682492.90	N 32° 9' 56.71" W	103° 58' 30.44"
	8808.00	11.40	3.85	8780.39	290.20	289.71	-39.72	1.72	424274.42	682493.49	N 32° 9' 56.89" W	103° 58' 30.44"
	8902.00	12.54	5.25	8872.34	309.75	309.19	-38.18	1.19	424293.90	682495.05	N 32° 9' 57.08" W	103° 58' 30.42"
	8947.00	12.55	6.81	8918.26	310.45	318.91	-37.14	0.75	424303.62	682496.08	N 32° 9' 57.18" W	103° 58' 30.40"
	8997.00	13.37	6.70	8964.89	330.56	330.06	-35.82	1.54	424314.75	682497.39	N 32° 9' 57.29" W	103° 58' 30.38"
	9042.00	13.75	5.00	9008.74	341.04	340.54	-34.74	1.22	424325.24	682498.48	N 32° 9' 57.51" W	103° 58' 30.34"
	9091.00	14.14	4.82	9056.29	352.79	352.31	-33.73	0.80	424337.01	682501.45	N 32° 9' 57.84" W	103° 58' 30.32"
	9186.00	13.37	5.23	9148.57	375.25	374.81	-31.76	0.82	424359.51	682502.83	N 32° 9' 58.12" W	103° 58' 30.32"
	9280.00	12.35	2.18	9240.21	398.10	395.68	-30.38	1.30	424380.38	682501.72	N 32° 9' 58.27" W	103° 58' 30.32"
	9375.00	10.58	358.20	9333.31	414.96	414.53	-30.58	2.24	424398.23	682502.64	N 32° 9' 58.38" W	103° 58' 30.34"
	9469.00	7.25	358.64	9428.18	429.51	429.07	-31.50	3.54	424413.77	682501.03	N 32° 9' 58.49" W	103° 58' 30.34"
	9564.00	6.84	359.03	9520.45	441.15	440.71	-31.84	0.53	424425.41	682500.82	N 32° 9' 58.57" W	103° 58' 30.34"
	9658.00	6.40	358.42	9613.82	451.99	451.54	-32.18	0.47	424438.24	682500.36	N 32° 9' 58.72" W	103° 58' 30.35"
	9732.00	6.20	358.85	9687.37	460.11	459.68	-32.39	0.27	424444.30	682499.04	N 32° 9' 58.80" W	103° 58' 30.36"
	9885.00	5.42	357.84	9839.59	475.59	475.14	-32.86	0.51	424459.83	682498.91	N 32° 9' 58.89" W	103° 58' 30.43"
	9951.00	7.99	344.91	9905.13	483.16	482.69	-34.17	4.48	424487.38	682485.84	N 32° 9' 59.32" W	103° 58' 30.51"
	10046.00	16.18	340.68	9997.85	502.14	501.58	-40.30	8.67	424488.27	682477.01	N 32° 9' 59.81" W	103° 58' 30.61"
	10140.00	26.85	352.70	10085.32	535.77	535.10	-47.38	12.24	424519.79	682458.58	N 32° 10' 0.41" W	103° 58' 30.83"
	10234.00	38.03	347.84	10164.53	585.43	584.62	-58.20	12.20	424569.31	682429.44	N 32° 10' 1.11" W	103° 58' 31.18"
	10328.00	47.32	339.18	10233.63	646.49	645.41	-74.64	11.87	424630.09	682424.82	N 32° 10' 1.21" W	103° 58' 31.21"
	10423.00	60.25	336.26	10289.65	717.64	716.11	-103.78	13.83	424700.79	682396.09	N 32° 10' 1.86" W	103° 58' 31.55"
Wallcamp Intersection	10435.90	60.75	338.28	10296.00	727.98	726.39	-108.30	3.88	424711.08	682387.77	N 32° 10' 2.68" W	103° 58' 31.87"
	10517.00	63.88	338.37	10333.87	794.19	792.15	-137.13	3.88	424770.82	682362.03	N 32° 10' 2.93" W	103° 58' 31.94"
	10611.00	72.66	345.42	10368.50	877.00	874.54	-165.45	12.92	424859.20	682355.55	N 32° 10' 3.39" W	103° 58' 32.01"
340' FSL Cross	10638.00	74.47	348.89	10378.14	902.34	899.78	-171.19	14.18	424884.45	682354.27	N 32° 10' 3.58" W	103° 58' 32.03"
Exit Target Box	10686.00	77.82	358.02	10387.65	948.55	945.91	-177.68	14.18	424930.56	682355.11	N 32° 10' 4.48" W	103° 58' 32.01"
Enter Target Box	10708.00	79.28	357.51	10391.62	968.13	965.40	-178.95	14.16	424950.12	682354.48	N 32° 10' 4.51" W	103° 58' 32.01"
	10797.00	89.07	3.60	10400.87	1058.47	1055.84	-178.11	12.81	425040.49	682382.58	N 32° 10' 5.45" W	103° 58' 31.88"
	10801.00	89.50	3.78	10400.92	1062.48	1059.83	-177.88	12.01	425044.48	682379.22	N 32° 10' 6.25" W	103° 58' 31.72"
	10896.00	94.04	9.23	10397.98	1156.57	1154.11	-187.13	7.48	425138.78	682363.88	N 32° 10' 7.18" W	103° 58' 31.55"
	10978.00	93.81	9.24	10392.37	1237.10	1234.88	-164.00	0.28	425219.50	682406.81	N 32° 10' 8.09" W	103° 58' 31.40"
	11072.00	92.85	8.72	10388.91	1329.55	1327.55	-139.38	1.18	425312.18	682421.52	N 32° 10' 9.97" W	103° 58' 31.22"
	11167.00	91.98	9.98	10382.90	1423.36	1421.57	-126.41	2.08	425406.19	682423.78	N 32° 10' 11.85" W	103° 58' 31.18"
	11357.00	89.37	1.93	10380.64	1812.45	1810.91	-111.69	2.98	425595.52	682411.54	N 32° 10' 15.59" W	103° 58' 31.27"
	11647.00	90.23	359.43	10381.31	1802.38	1800.88	-109.44	1.39	425785.47	682416.85	N 32° 10' 16.58" W	103° 58' 31.25"
	11643.00	88.41	358.32	10382.45	1898.35	1896.85	-111.32	2.22	425881.43	682414.76	N 32° 10' 18.53" W	103° 58' 31.30"
	11832.00	89.58	358.88	10385.78	2087.31	2085.75	-116.27	0.65	426070.32	682402.04	N 32° 10' 19.33" W	103° 58' 31.40"
	11926.00	89.20	358.85	10388.76	2181.30	2179.72	-118.48	0.41	426184.28	682389.15	N 32° 10' 20.27" W	103° 58' 31.43"
	12021.00	89.30	357.47	10388.00	2278.27	2274.60	-121.60	1.25	426258.21	682389.82	N 32° 10' 22.14" W	103° 58' 31.53"
	12115.00	89.48	357.88	10389.01	2370.24	2368.57	-125.49	0.48	426353.12	682384.17	N 32° 10' 23.08" W	103° 58' 31.60"
	12204.00	89.24	358.67	10391.12	2559.20	2557.47	-131.18	0.44	426542.01	682374.31	N 32° 10' 24.96" W	103° 58' 31.70"
	12399.00	89.34	357.84	10392.29	2654.18	2652.42	-134.07	0.88	426638.05	682387.09	N 32° 10' 26.83" W	103° 58' 31.78"
	12588.00	89.17	358.50	10394.75	2843.08	2841.17	-143.40	0.71	426825.08	682382.58	N 32° 10' 28.69" W	103° 58' 31.82"
	12683.00	89.34	358.68	10395.99	2937.98	2935.99	-149.05	0.26	426920.50	682363.88	N 32° 10' 30.56" W	103° 58' 31.84"
	12873.00	89.51	357.87	10397.89	3127.82	3125.75	-158.91	0.37	427110.22	682359.52	N 32° 10' 31.50" W	103° 58' 31.85"
	13062.00	89.58	358.25	10399.39	3310.70	3314.58	-168.13	0.47	427299.06	682358.28	N 32° 10' 32.43" W	103° 58' 31.88"
	13250.00	89.89	359.00	10400.15	3504.75	3502.92	-170.64	0.45	427480.99	682358.28	N 32° 10' 33.38" W	103° 58' 31.87"
	13439.00	90.08	359.75	10400.12	3693.75	3691.51	-172.71	0.40	427675.96	682358.28	N 32° 10' 34.34" W	103° 58' 31.86"
	13534.00	89.82	359.05	10400.23	3788.75	3786.51	-173.70	0.75	427770.95	682358.28	N 32° 10' 35.29" W	103° 58' 31.85"
	13628.00	89.98	359.43	10400.23	3882.75	3880.50	-174.95	0.41	427864.93	682358.28	N 32° 10' 36.17" W	103° 58' 31.84"
	13722.00	89.85	357.41	10400.68	3970.74	3974.48	-178.45	1.15	427958.91	682358.28	N 32° 10' 37.10" W	103° 58' 31.82"
	13817.00	89.05	358.12	10401.82	4069.42	4069.42	-179.64	1.58	428053.84	682358.28	N 32° 10' 38.04" W	103° 58' 31.80"
	13912.00	88.55	358.81	10401.38	4168.70	4168.37	-182.52	2.01	428148.79	682344.35	N 32° 10' 39.00" W	103° 58' 32.00"
	14007.00	88.55	358.81	10401.97	4268.07	4268.07	-185.88	3.33	428243.73	682343.03	N 32° 10' 40.08" W	103° 58' 32.02"
	14101.00	89.51	359.65	10403.56	4368.84	4363.23	-188.87	3.09	428338.65	682343.03	N 32° 10' 41.16" W	103° 58' 32.02"
	14196.00	88.38	358.86	10405.31	4468.02	4468.02	-190.10	1.38	428433.57	682343.03	N 32° 10' 42.24" W	103° 58' 32.02"
	14291.00	90.85	359.88	10405.95	4568.61	4568.61	-191.16	2.85	428527.57	682343.03	N 32° 10' 43.32" W	103° 58' 32.02"
	14481.00	91.44	2.29	10402.15	4735.43	4733.10	-187.39	1.25	428717.46	682350.07	N 32° 10' 44.40" W	103° 58' 31.97"
	14576.00	91.37	3.88	10399.85	4839.17	4836.92	-182.25	1.80	428811.29	682350.07	N 32° 10' 45.48" W	103° 58' 31.96"
	14670.00	91.26	4.02	10397.67	4923.80	4921.67	-175.63	0.12	428906.02	682350.07	N 32° 10' 46.56" W	103° 58' 31.96"
	14765.00	90.75	2.99	10396.00	5018.51	5016.47	-169.82	1.21	429000.02	682350.07	N 32° 10' 47.64" W	103° 58' 31.95"
	14859.00	91.16	1.95	10394.44	5112.33	5110.37	-165.77	1.19	429094.71	682350.07	N 32° 10' 48.72" W	103° 58' 31.94"
	14954.00	88.24	358.88	10394.03	5207.26	5205.34	-164.17	1.71	429189.67	682350.07	N 32° 10' 49.80" W	103° 58' 31.93"
	15049.00	88.88	358.22	10397.34	5302.23	5300.29	-165.66	0.98	429284.82	682350.07	N 32° 10' 50.88" W	103° 58' 31.92"
	15143.00	89.75	359.18	10398.48	5398.22	5396.28	-167.79	1.39	429379.58	682350.07	N 32° 10' 51.96" W	103° 58' 31.91"
	15237.00	91.09	357.71	10397.79	5490.21	5488.25	-168.70	1.53	429474.56	682350.07	N 32° 10' 53.04" W	103° 58' 31.90"
	15332.00	89.24	358.70	10397.52	5582.20	5580.24	-170.02	2.22	429569.54	682350.07	N 32° 10' 54.12" W	103° 58' 31.89"
	15427.00	88.72	358.08	10399.21	5680.18	5678.18	-172.69	0.85	429664.48	682350.07	N 32° 10' 55.20" W	103° 58' 31.88"
	15521.00	89.89	358.69	10400.35	5774.17	5772.14	-175.98	1.58	429759.43	682350.07	N 32° 10' 56.28" W	103° 58' 31.87"
	15616.00	90.20	358.64	10399.94	5869.16	5867.14	-175.86	1.20	429854.42	682350.07	N 32° 10' 57.36" W	103° 58' 31.86"
	15711.00	89.75	358.45	10399.98	5964.16	5962.13	-178.74	1.32	429949.41	682350		

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ° ' '')	Longitude (E/W ° ° ' '')
	19210.00	90.58	3.80	10400.97	9459.76	9458.58	-149.63	1.51	433442.59	662383.59	N 32 11 27.62 W	103 56 31.33
	19304.00	89.75	3.13	10403.70	9553.49	9552.41	-143.95	1.13	433538.41	662389.27	N 32 11 28.55 W	103 56 31.28
	19398.00	91.50	4.61	10402.68	9647.15	9646.18	-137.61	2.44	433630.18	662395.81	N 32 11 29.46 W	103 56 31.18
	19493.00	90.10	0.43	10401.35	9741.95	9741.05	-133.43	4.64	433725.04	662399.79	N 32 11 30.42 W	103 56 31.13
	19588.00	88.75	358.89	10402.30	9836.94	9836.04	-134.00	2.16	433820.02	662399.22	N 32 11 31.36 W	103 56 31.13
	19682.00	90.47	359.71	10402.94	9930.93	9930.03	-135.14	2.03	433914.00	662398.08	N 32 11 32.29 W	103 56 31.14
	19776.00	91.26	359.88	10401.52	10024.91	10024.02	-135.50	0.88	434007.98	662397.72	N 32 11 33.22 W	103 56 31.14
	19862.00	89.44	358.92	10400.37	10213.90	10212.99	-137.51	1.08	434196.95	662395.71	N 32 11 35.09 W	103 56 31.15
	20060.00	88.89	358.81	10401.75	10308.89	10307.96	-139.39	0.59	434281.91	662393.83	N 32 11 36.03 W	103 56 31.17
	20155.00	90.20	359.49	10402.51	10403.88	10402.95	-140.80	1.55	434386.89	662392.42	N 32 11 36.97 W	103 56 31.18
	20249.00	90.51	359.33	10401.82	10497.88	10496.94	-141.77	0.37	434480.97	662391.45	N 32 11 37.90 W	103 56 31.19
	20344.00	90.95	359.13	10400.71	10592.87	10591.92	-143.04	0.51	434575.85	662390.18	N 32 11 38.84 W	103 56 31.20
	20438.00	89.41	358.72	10400.42	10686.86	10685.90	-144.81	1.70	434669.82	662388.41	N 32 11 39.77 W	103 56 31.22
	20533.00	90.20	359.33	10400.74	10781.86	10780.89	-146.42	1.05	434764.80	662386.80	N 32 11 40.71 W	103 56 31.23
340' FNL Cross	20571.68	90.06	359.11	10400.65	10820.52	10819.55	-146.95	0.68	434803.45	662386.27	N 32 11 41.09 W	103 56 31.24
Final MWD	20629.00	89.85	358.79	10400.70	10876.86	10875.88	-147.98	0.68	434859.78	662385.24	N 32 11 41.65 W	103 56 31.25
Prof to TD	20675.00	90.47	358.97	10400.57	10923.66	10922.87	-148.90	1.37	434906.77	662384.32	N 32 11 42.11 W	103 56 31.26
	20718.00	90.47	358.97	10400.22	10968.86	10965.86	-149.67	0.00	434949.75	662383.55	N 32 11 42.64 W	103 56 31.26

Survey Type: Del 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	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 32H Gyro-MWD 0' - 20718'MD
	1	26.500	26.500	Act Sins	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 32H Gyro-MWD 0' - 20718'MD
	1	26.500	553.500	Act Sins	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 32H
	1	553.500	6544.000	Act Sins	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 32H
	1	6544.000	7109.000	Act Sins	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 32H
	1	7109.000	20718.000	Act Sins	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 32H

...Original Borehole/Oxy Corral Canyon 36-25 Federal Com 32H Gyro-MWD 0' - 20718'MD

Schlumberger

OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Corral Canyon 38-25 Federal Com 32H	NM Eddy County (NAD 83)	Oxy Corral Canyon 38-25 Federal Com 32H

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: IPR1 MagDec: 0.80°	Date: 16-Nov-2019 Lat: N 32 9 54.92 Long: W 102 50 29.90	Well: Dry Corral Canyon 38-25 Federal Com 32H Dry Corral Canyon 38-25 Federal Com 32H Dry Corral Canyon 38-25 Federal Com 32H

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	YSEC	N(+)/S(-)	E(+)/W(-)	OLS
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
WRP	26.50	0.00	0.00	26.50	0.00	0.00	0.00	
Final Gyro	553.50	0.91	198.92	553.48	-3.44	-3.52	-4.73	0.12
KOP Actual	9885.00	5.42	357.84	9839.59	475.59	475.14	-32.88	0.51
Wellcamp Intersection	10435.90	60.75	338.28	10286.00	727.68	726.39	-108.30	3.86
340° FSL Cross	10838.00	74.47	348.93	10378.14	902.34	899.79	-171.19	14.10
Exit Target Box	10888.00	77.82	355.02	10387.65	946.55	945.91	-177.68	14.10
Enter Target Box	10797.00	69.07	335.50	10400.87	1058.47	1055.84	-178.11	12.61
340° FNL Cross	20571.60	90.06	359.11	10400.65	10820.52	10819.55	-146.95	0.68
Final MWD	20675.00	90.47	358.97	10400.57	10923.88	10922.87	-146.90	1.37
Proj to TD	20718.00	90.47	358.97	10400.22	10968.88	10965.88	-149.87	0.00

