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page for directional survey

Schlumberger

Oxy Turkey Track 9-10 State 23H Gyro+MWD 0-18115 ftMD Survey
Geodetic Report
(Def Survey)



Report Date: November 17, 2017 - 08:30 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Siot: Oxy Turkey Track 9-10 State 23H / Oxy Turkey Track 9-10 State 23H
Well: Oxy Turkey Track 9-10 State 23H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Oxy Turkey Track 9-10 State 23H Gyro+MWD 0-18115 ftMD
Survey Date: November 07, 2017
Tort / AHD / DDI / ERD Ratio: 221.063' / 10687.740 ft / 6.738' / 1.367
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 40' 16.95899", W 104° 5' 20.77169"
Location Grid N/E Y/X: N 608064.780 ftUS, E 616489.150 ftUS
CRS Grid Convergence Angle: 0.1318°
Grid Scale Factor: 0.99991556
Version / Patch: 2.10.565.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 87.414° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3414.700 ft above MSL
Seabed / Ground Elevation: 3388.200 ft above MSL
Magnetic Declination: 7.447°
Total Gravity Field Strength: 998.5125mgm (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48156.168 nT
Magnetic Dip Angle: 60.496°
Declination Date: November 07, 2017
Magnetic Declination Model: HDGM 2017
North Reference: Grid North
Grid Convergence Used: 0.1318°
Total Corr Mag North->Grid North: 7.3152°
Local Coord Referenced To: Well Head

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 18 2017

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VBEC (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	608064.78	616489.15	N 32 40 16.96 W 104	5 20.77
	77.77	0.46	328.83	77.77	-0.15	0.27	-0.16	0.59	608065.05	616488.99	N 32 40 16.96 W 104	5 20.77
	172.50	0.42	74.64	172.50	0.01	0.88	-0.02	0.74	608065.46	616489.13	N 32 40 16.97 W 104	5 20.77
	266.90	0.15	15.57	266.90	0.38	0.90	0.34	0.39	608065.68	616489.49	N 32 40 16.97 W 104	5 20.77
	361.50	0.57	22.56	361.49	0.62	1.45	0.56	0.45	608066.23	616489.71	N 32 40 16.97 W 104	5 20.77
	456.10	0.56	47.98	456.09	1.18	2.19	1.08	0.28	608066.97	616490.23	N 32 40 16.98 W 104	5 20.76
	550.70	0.65	49.98	550.68	1.96	2.85	1.84	0.10	608067.63	616490.99	N 32 40 16.99 W 104	5 20.75
	645.50	0.74	52.80	645.48	2.89	3.56	2.73	0.10	608068.34	616491.88	N 32 40 17.00 W 104	5 20.74
	740.10	0.92	58.07	740.07	4.06	4.33	3.87	0.21	608069.11	616493.02	N 32 40 17.00 W 104	5 20.73
	834.60	1.11	61.34	834.55	5.54	5.17	5.31	0.21	608069.95	616494.46	N 32 40 17.01 W 104	5 20.71
	929.20	1.11	61.40	929.14	7.19	6.05	6.92	0.00	608070.83	616496.07	N 32 40 17.02 W 104	5 20.69
	1021.90	1.13	61.48	1021.82	8.82	6.92	8.51	0.02	608071.70	616497.66	N 32 40 17.03 W 104	5 20.67
	1112.60	1.31	56.24	1112.50	10.51	7.82	10.16	0.23	608072.70	616499.31	N 32 40 17.04 W 104	5 20.65
	1203.70	1.52	52.86	1203.57	12.39	8.23	11.99	0.25	608074.01	616501.14	N 32 40 17.05 W 104	5 20.63
	1296.00	0.40	350.78	1295.88	15.36	10.29	12.91	1.49	608075.07	616502.08	N 32 40 17.06 W 104	5 20.62
	1387.30	0.61	345.59	1387.15	13.23	11.07	12.74	0.24	608075.85	616501.89	N 32 40 17.07 W 104	5 20.62
	1479.00	0.76	8.50	1478.85	13.25	12.15	12.71	0.34	608076.93	616501.86	N 32 40 17.08 W 104	5 20.62
	1571.10	0.74	12.49	1570.94	13.52	13.33	12.93	0.08	608078.11	616502.08	N 32 40 17.09 W 104	5 20.62
	1662.90	0.82	13.73	1662.73	13.88	14.55	13.21	0.09	608079.33	616502.36	N 32 40 17.10 W 104	5 20.62
	1754.90	0.83	16.98	1754.72	14.28	15.83	13.56	0.05	608080.60	616502.71	N 32 40 17.12 W 104	5 20.61
	1847.10	0.84	20.16	1846.91	14.75	17.10	13.98	0.05	608081.88	616503.14	N 32 40 17.13 W 104	5 20.61
	1941.70	1.15	12.57	1941.50	15.27	18.88	14.44	0.36	608083.45	616503.59	N 32 40 17.14 W 104	5 20.60
	2036.00	0.56	131.62	2035.79	15.64	19.29	14.99	1.59	608084.07	616504.14	N 32 40 17.15 W 104	5 20.60
	2130.80	0.73	144.08	2130.38	16.51	18.50	15.89	0.23	608083.28	616504.84	N 32 40 17.14 W 104	5 20.59
	2225.10	0.73	143.49	2224.88	17.17	17.53	16.40	0.01	608082.31	616505.55	N 32 40 17.13 W 104	5 20.58
	2319.60	0.76	142.29	2319.37	17.87	16.55	17.14	0.04	608081.33	616506.29	N 32 40 17.12 W 104	5 20.57
	2414.10	0.76	139.74	2413.86	18.61	15.57	17.93	0.04	608080.35	616507.08	N 32 40 17.11 W 104	5 20.56
	2508.60	0.78	141.90	2508.35	19.37	14.59	18.73	0.04	608079.37	616507.88	N 32 40 17.10 W 104	5 20.55
	2603.30	0.74	144.75	2603.04	20.07	13.56	19.48	0.06	608078.36	616508.63	N 32 40 17.09 W 104	5 20.54
	2697.70	0.72	146.84	2697.44	20.71	12.59	20.16	0.04	608077.37	616509.31	N 32 40 17.08 W 104	5 20.54
	2792.30	0.68	145.80	2792.03	21.30	11.63	20.80	0.04	608076.41	616509.95	N 32 40 17.07 W 104	5 20.53
	2886.70	0.71	145.60	2886.42	21.90	10.68	21.44	0.03	608075.46	616510.59	N 32 40 17.07 W 104	5 20.52
	2981.20	0.65	145.29	2980.91	22.50	9.76	22.08	0.06	608074.54	616511.23	N 32 40 17.06 W 104	5 20.51
	3075.50	0.67	145.30	3075.21	23.07	8.88	22.89	0.02	608073.64	616511.84	N 32 40 17.05 W 104	5 20.51
	3169.80	0.68	128.73	3169.50	23.78	8.05	23.44	0.21	608072.83	616512.59	N 32 40 17.04 W 104	5 20.50
	3264.40	0.58	168.24	3264.10	24.28	7.23	23.97	0.46	608072.01	616513.12	N 32 40 17.03 W 104	5 20.49
	3358.70	1.80	239.18	3358.38	23.05	6.01	22.80	1.80	608070.79	616511.95	N 32 40 17.02 W 104	5 20.50
	3453.30	3.37	247.34	3452.88	19.12	4.20	18.95	1.71	608068.98	616508.10	N 32 40 17.00 W 104	5 20.55
	3547.90	4.85	249.46	3547.23	12.69	1.75	12.62	1.57	608066.53	616501.77	N 32 40 16.98 W 104	5 20.62
	3642.70	6.18	252.08	3641.59	3.96	-1.22	4.02	1.43	608063.56	616493.17	N 32 40 16.95 W 104	5 20.72
	3737.40	4.39	250.11	3735.89	-4.42	-4.02	-4.24	1.90	608060.76	616484.91	N 32 40 16.92 W 104	5 20.82
	3832.10	1.24	246.38	3830.48	-6.84	-5.67	-6.59	3.33	608059.11	616480.58	N 32 40 16.90 W 104	5 20.87
	3926.80	0.15	194.01	3925.25	-8.83	-6.20	-9.56	1.22	608056.58	616479.59	N 32 40 16.90 W 104	5 20.88
	4021.60	0.15	173.42	4019.65	-8.87	-6.44	-9.59	0.04	608056.34	616479.58	N 32 40 16.90 W 104	5 20.88
	4116.00	0.15	197.54	4114.35	-8.92	-6.68	-9.63	0.05	608056.10	616479.53	N 32 40 16.89 W 104	5 20.88
	4210.40	0.15	192.00	4208.75	-8.99	-6.92	-9.69	0.02	608057.86	616479.46	N 32 40 16.89 W 104	5 20.89
	4305.10	0.16	189.89	4303.45	-10.05	-7.17	-9.74	0.01	608057.61	616479.41	N 32 40 16.89 W 104	5 20.89
	4399.80	0.21	190.16	4396.15	-10.12	-7.46	-9.79	0.05	608057.30	616479.36	N 32 40 16.89 W 104	5 20.89
	4494.40	0.06	283.28	4492.75	-10.20	-7.84	-9.87	0.23	608057.15	616479.28	N 32 40 16.88 W 104	5 20.89
	4589.30	0.10	162.47	4587.65	-10.23	-7.70	-9.89	0.15	608057.00	616479.26	N 32 40 16.88 W 104	5 20.89
	4683.90	0.18	151.69	4682.25	-10.14	-7.91	-9.80	0.09	608056.87	616479.35	N 32 40 16.88 W 104	5 20.89
	4778.50	0.14	320.88	4776.85	-10.15	-7.95	-9.80	0.34	608056.83	616479.35	N 32 40 16.88 W 104	5 20.89
	4873.00	0.12	329.22	4871.35	-10.28	-7.78	-9.92	0.03	608057.00	616479.23	N 32 40 16.88 W 104	5 20.89
	4967.60	0.13	354.47	4965.95	-10.32	-7.59	-9.98	0.06	608057.19	616479.17	N 32 40 16.89 W 104	5 20.89
	5062.00	0.18	293.10	5060.35	-10.46	-7.42	-10.13	0.17	608057.36	616479.02	N 32 40 16.89 W 104	5 20.89
	5156.60	0.09	14.55	5154.95	-10.42	-6.81	-10.12	0.73	608057.97	616479.03	N 32 40 16.89 W 104	5 20.89
	5251.30	2.10	28.09	5249.62	-9.37	-4.73	-9.16	1.52	608060.05	616479.99	N 32 40 16.91 W 104	5 20.88
	5345.90	3.72	34.86	5344.09	-8.62	-0.68	-6.59	1.75	608064.10	616482.56	N 32 40 16.95 W 104	5 20.85
	5440.50	5.34	39.58	5438.39	-1.80	5.23	-2.03	1.76	608070.01	616487.12	N 32 40 17.01 W 104	5 20.80
	5535.10	8.41	41.91	5532.30	6.01	13.77	5.39	3.26	608078.55	616494.54	N 32 40 17.10 W 104	5 20.71
	5629.70	11.58	42.37	5625.45	17.57	25.94	18.42	3.35	608090.72	616505.56	N 32 40 17.22 W 104	5 20.58
	5724.30	13.33	44.58	5717.82	32.28	40.72	30.47	1.92	608105.50	616519.62	N 32 40 17.36 W 104	5 20.41
	5818.90	13.57	45.13	5809.83	48.48	56.32	45.99	0.29	608121.09	616535.14	N 32 40 17.52 W 104	5 20.23
	5913.40	13.72	46.14	5901.66	85.11	71.91	81.93	0.30	608136.68	616551.07	N 32 40 17.67 W 104	5 20.05
	6007.90	13.68	47.38	5993.47	82.09	87.24	78.23	0.31	608152.01	616567.37	N 32 40 17.82 W 104	5 19.85
	6102.40	13.02	48.39	6085.42	98.98	101.79	94.49	0.80	608166.56	616583.63	N 32 40 17.96 W 104	5 19.66
	6197.10	11.21	46.98	6178.01	114.35	115.07	109.27	1.96	608179.84	616598.41	N 32 40 18.10 W 104	5 19.49
	6291.80	8.59	42.78	6271.29	128.39	125.55	120.80	2.87	608191.32	616609.94	N 32 40 18.21 W 104	5 19.36
	6386.20	7.35	40.76	6364.78	136.55	136.30	129.53	1.35	608201.07	616616.67	N 32 40 18.31 W 104	5 19.25
	6480.80	7.08	35.02	6458.83	143.25	145.64	138.82	0.82	608210.41	616625.95	N 32 40 18.40 W 104	5 19.17
	6575.50	6.87	29.05	6552.83	148.77	155.36	142.91	0.78	608220.13	616632.04	N 32 40 18.49 W 104	5 19.10
	6670.10	5.83	31.83	6644.65	155.45	164.39	148.19	1.15	608229.15	616637.33	N 32 40 18.58 W 104	5 19.03
	6764.50	5.00	36.64	6740.58	161.08	172.16	153.47	0.56	608239.92	616642.60	N 32 40 18.69 W 104	5 18.97
	6859.20	6.41	34.99	6834.58	167.22	180.20	159.25	0.87	608244.96	616648.96	N 32 40 18.74 W 104	5

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 ° ' ")
Last Gyro	7331.60	7.31	26.38	7301.55	195.55	247.29	184.68	2.59	608312.05	618673.72	N 32 40 19.40 W 104	5 18.61
	7426.40	14.00	37.67	7394.67	205.90	261.79	194.28	7.36	608326.55	618683.41	N 32 40 19.55 W 104	5 18.49
	7520.90	22.03	43.66	7484.47	226.12	283.70	213.54	8.71	608348.45	618702.67	N 32 40 19.78 W 104	5 18.27
	7615.80	29.85	44.46	7569.56	256.24	313.41	242.35	8.27	608378.17	618731.48	N 32 40 20.06 W 104	5 17.93
	7710.20	41.29	50.21	7646.40	298.49	350.32	282.97	12.59	608415.07	618772.09	N 32 40 20.42 W 104	5 17.45
	7804.80	51.67	52.20	7711.46	353.81	393.18	336.42	11.08	608457.91	618825.54	N 32 40 20.84 W 104	5 16.83
	7899.00	59.09	58.93	7764.98	419.66	436.75	400.36	9.82	608501.50	618869.48	N 32 40 21.27 W 104	5 16.08
	7994.00	66.50	68.74	7808.47	497.01	473.71	476.12	12.04	608538.44	618905.23	N 32 40 21.64 W 104	5 15.19
	8088.50	70.61	80.04	7843.11	582.54	497.20	560.87	11.94	608581.94	617049.78	N 32 40 21.87 W 104	5 14.20
	8183.00	75.41	92.52	7870.81	672.66	502.62	650.83	13.61	608597.66	617139.73	N 32 40 21.92 W 104	5 13.15
	8360.00	89.35	92.21	7894.23	847.01	495.71	825.49	7.88	608580.45	617314.57	N 32 40 21.85 W 104	5 11.10
	8482.00	89.79	92.12	7895.14	968.59	491.10	947.40	0.37	608555.84	617438.46	N 32 40 21.80 W 104	5 9.68
	8576.00	90.17	89.79	7895.17	1062.40	489.54	1041.38	2.51	608554.27	617530.44	N 32 40 21.78 W 104	5 8.58
	8671.00	90.10	88.17	7894.95	1157.37	491.23	1136.36	1.71	608555.96	617625.41	N 32 40 21.79 W 104	5 7.46
	8765.00	89.62	87.37	7895.18	1251.36	494.88	1230.29	0.99	608559.62	617719.33	N 32 40 21.83 W 104	5 6.37
	8860.00	89.72	87.90	7895.73	1346.36	496.80	1325.20	0.57	608563.54	617814.24	N 32 40 21.86 W 104	5 5.26
	8954.00	89.76	87.50	7896.15	1440.36	502.58	1419.13	0.43	608567.31	617908.15	N 32 40 21.90 W 104	5 4.16
	9049.00	89.79	87.91	7896.53	1535.36	506.38	1514.05	0.43	608571.12	618003.07	N 32 40 21.94 W 104	5 3.05
	9143.00	89.93	87.55	7896.76	1629.35	510.10	1607.97	0.41	608574.84	618096.99	N 32 40 21.97 W 104	5 1.95
	9238.00	89.90	87.23	7896.90	1724.35	514.43	1702.88	0.34	608579.17	618191.88	N 32 40 22.01 W 104	5 0.84
	9333.00	89.83	87.83	7897.12	1819.35	518.52	1797.79	0.64	608583.26	618286.78	N 32 40 22.05 W 104	4 59.73
	9427.00	89.93	88.11	7897.32	1913.35	521.85	1891.73	0.32	608586.59	618380.71	N 32 40 22.08 W 104	4 58.63
	9521.00	89.59	89.68	7897.71	2007.31	523.67	1985.71	1.71	608588.40	618474.68	N 32 40 22.10 W 104	4 57.53
	9616.00	89.66	89.55	7898.33	2102.24	524.30	2080.70	0.16	608589.04	618569.67	N 32 40 22.10 W 104	4 56.42
	9711.00	89.62	89.73	7898.93	2197.17	524.90	2175.70	0.19	608589.64	618664.66	N 32 40 22.10 W 104	4 55.31
	9805.00	89.52	89.57	7899.64	2291.09	525.48	2269.69	0.20	608590.21	618758.65	N 32 40 22.11 W 104	4 54.21
	9900.00	89.48	89.39	7900.47	2386.03	526.34	2364.69	0.19	608591.07	618853.63	N 32 40 22.11 W 104	4 53.09
	9994.00	89.73	89.91	7901.11	2479.95	526.91	2458.68	0.61	608591.65	618947.62	N 32 40 22.12 W 104	4 51.99
	10089.00	89.35	91.85	7901.88	2574.77	525.45	2553.68	2.08	608590.19	619042.59	N 32 40 22.10 W 104	4 50.88
	10278.00	89.59	92.12	7903.82	2763.16	518.91	2742.54	0.19	608583.64	619231.45	N 32 40 22.03 W 104	4 48.87
	10372.00	89.83	91.46	7904.10	2858.89	515.97	2836.49	0.75	608580.71	619325.40	N 32 40 22.00 W 104	4 47.58
	10467.00	90.24	91.68	7904.04	2951.84	513.37	2931.46	0.49	608578.10	619420.35	N 32 40 21.97 W 104	4 46.46
	10561.00	90.17	91.67	7903.71	3045.37	510.62	3025.42	0.08	608575.36	619514.31	N 32 40 21.94 W 104	4 45.37
	10656.00	90.52	91.77	7903.13	3140.10	507.77	3120.37	0.38	608572.50	619609.25	N 32 40 21.91 W 104	4 44.25
	10750.00	90.48	89.36	7902.31	3233.95	506.84	3214.36	2.56	608571.58	619703.23	N 32 40 21.90 W 104	4 43.16
	10844.00	90.28	89.40	7901.69	3327.89	507.86	3308.35	0.22	608572.80	619797.21	N 32 40 21.91 W 104	4 42.06
	10939.00	90.10	89.48	7901.38	3422.83	506.79	3403.34	0.21	608573.52	619892.20	N 32 40 21.91 W 104	4 40.94
	11032.00	90.28	90.20	7901.07	3516.75	509.05	3496.34	0.80	608573.76	619985.15	N 32 40 21.92 W 104	4 39.86
	11123.00	90.28	89.99	7900.82	3606.67	509.37	3587.34	0.89	608574.11	620076.18	N 32 40 21.92 W 104	4 38.79
	11214.00	90.45	89.21	7900.04	3697.62	510.48	3678.33	0.27	608575.22	620167.16	N 32 40 21.93 W 104	4 37.73
11308.00	90.17	89.47	7899.54	3786.57	511.54	3770.32	0.42	608576.28	620258.15	N 32 40 21.93 W 104	4 36.65	
11397.00	90.24	89.10	7899.22	3880.52	512.68	3861.32	0.41	608577.42	620350.13	N 32 40 21.94 W 104	4 35.59	
11489.00	90.31	90.02	7898.78	3972.45	513.99	3953.31	1.00	608578.12	620442.12	N 32 40 21.95 W 104	4 34.51	
11581.00	90.34	89.04	7898.26	4064.38	514.14	4045.31	1.07	608578.88	620534.11	N 32 40 21.95 W 104	4 33.43	
11673.00	90.03	89.81	7897.98	4156.33	515.06	4137.30	0.90	608579.80	620626.09	N 32 40 21.96 W 104	4 32.36	
11765.00	90.14	89.77	7897.82	4248.25	515.40	4229.30	0.13	608580.14	620718.08	N 32 40 21.96 W 104	4 31.28	
11857.00	90.34	89.60	7897.44	4340.17	515.91	4321.30	0.29	608580.64	620810.07	N 32 40 21.96 W 104	4 30.21	
11952.00	90.07	89.87	7897.10	4435.10	516.35	4416.30	0.40	608581.08	620905.06	N 32 40 21.97 W 104	4 29.09	
12046.00	90.34	89.27	7896.76	4529.03	517.05	4510.29	0.70	608581.79	620999.05	N 32 40 21.97 W 104	4 27.99	
12141.00	90.07	91.48	7896.42	4623.89	516.43	4605.28	2.34	608581.17	621094.03	N 32 40 21.96 W 104	4 26.88	
12236.00	90.27	91.84	7896.14	4718.83	513.88	4700.24	0.43	608578.41	621188.99	N 32 40 21.93 W 104	4 25.77	
12330.00	89.86	91.17	7896.03	4812.39	511.21	4794.21	0.84	608575.95	621282.94	N 32 40 21.91 W 104	4 24.67	
12425.00	90.28	91.37	7895.92	4907.18	509.10	4889.19	0.49	608573.84	621377.91	N 32 40 21.88 W 104	4 23.56	
12519.00	90.21	91.61	7895.51	5000.94	506.66	4983.15	0.27	608571.40	621471.87	N 32 40 21.88 W 104	4 22.46	
12614.00	90.45	90.84	7894.97	5095.73	504.63	5078.13	0.85	608569.37	621566.84	N 32 40 21.83 W 104	4 21.35	
12803.00	90.07	91.97	7894.11	5284.26	499.99	5267.07	0.63	608564.73	621755.76	N 32 40 21.78 W 104	4 19.14	
12897.00	89.72	91.99	7894.28	5377.96	496.75	5361.01	0.37	608561.48	621849.70	N 32 40 21.75 W 104	4 18.04	
12992.00	89.97	92.15	7894.54	5472.85	493.32	5455.95	0.31	608558.05	621944.63	N 32 40 21.71 W 104	4 16.93	
13086.00	89.76	92.07	7894.76	5566.33	489.85	5549.88	0.24	608554.59	622038.55	N 32 40 21.68 W 104	4 15.83	
13181.00	89.97	92.15	7894.98	5661.01	486.36	5644.82	0.24	608551.10	622133.48	N 32 40 21.64 W 104	4 14.72	
13275.00	90.34	90.57	7894.73	5754.79	484.13	5736.79	1.73	608548.86	622227.44	N 32 40 21.61 W 104	4 13.62	
13370.00	90.41	90.09	7894.11	5848.66	483.58	5833.78	0.51	608548.32	622322.43	N 32 40 21.61 W 104	4 12.51	
13465.00	90.24	89.68	7893.67	5944.57	483.77	5928.78	0.47	608548.51	622417.42	N 32 40 21.61 W 104	4 11.40	
13561.00	90.34	89.72	7892.81	6033.42	484.78	6017.76	0.06	608549.50	622506.40	N 32 40 21.61 W 104	4 9.19	
13748.00	90.31	89.56	7892.08	6227.35	485.35	6211.77	0.17	608550.09	622700.39	N 32 40 21.61 W 104	4 6.98	
13843.00	89.44	89.16	7891.51	6322.28	486.18	6306.77	0.15	608550.92	622795.37	N 32 40 21.62 W 104	4 5.88	
13937.00	90.34	89.27	7890.92	6416.23	487.24	6400.76	0.19	608551.97	622889.36	N 32 40 21.63 W 104	4 5.88	
14032.00	90.41	89.51	7890.29	6511.17	486.25	6495.75	0.26	608552.99	622984.34	N 32 40 21.64 W 104	4 4.77	
14126.00	90.03	89.12	7889.63	6606.12	489.3.75</							

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 ° ' ")
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 Turkey Track 9-10 State 23H Gyro+MWD 0-18115 ftMD				
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Turkey Track 9-10 State 23H Gyro+MWD 0-18115 ftMD				
	1	26.500	8183.000	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Turkey Track 9-10 State 23H Gyro+MWD				
	1	8183.000	18115.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Turkey Track 9-10 State 23H Gyro+MWD				

Schlumberger

Final PVA Rev1

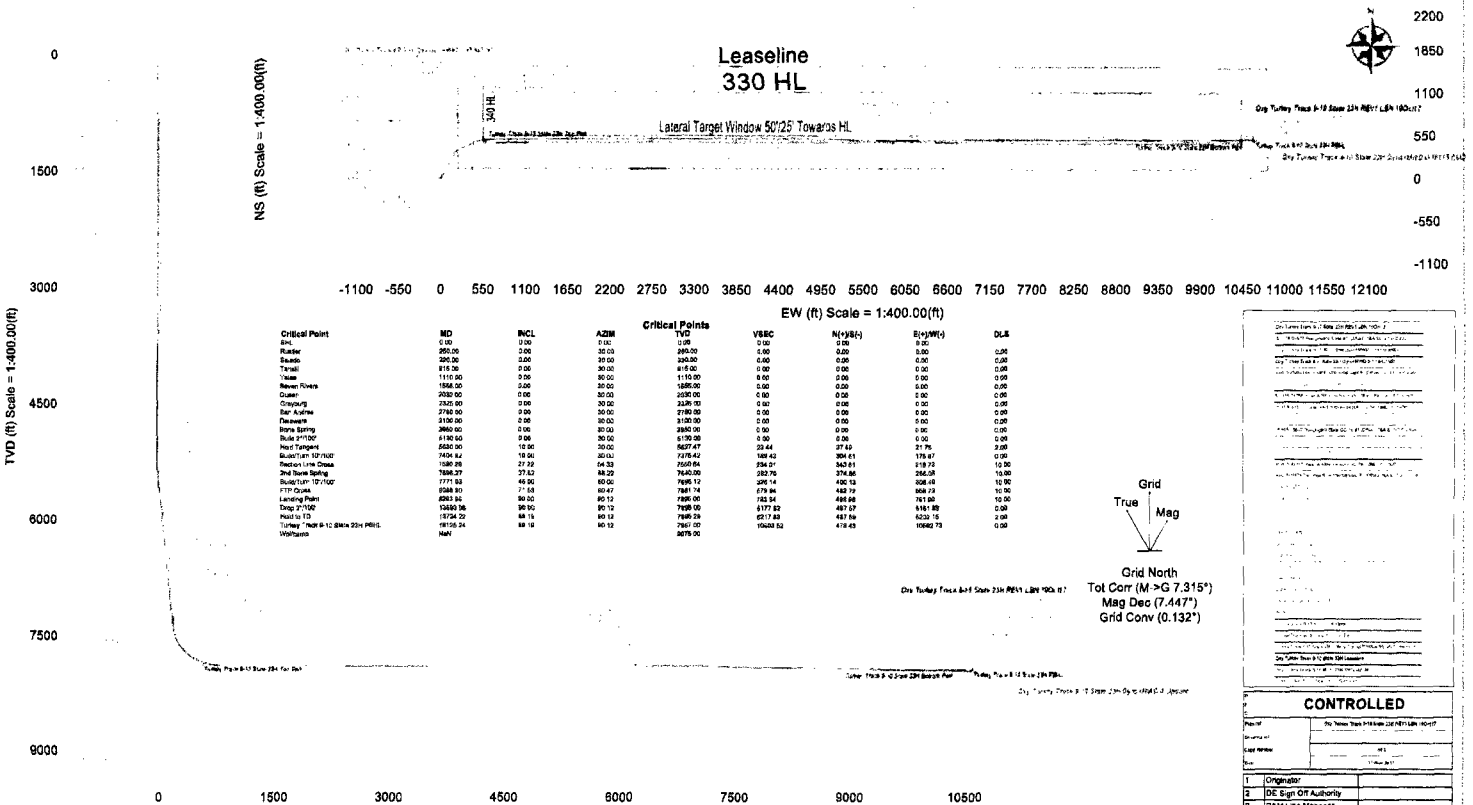
OXY

H&P 617 (RKB=26.5')



Borehole: Original Borehole Well: Oxy Turkey Track 9-10 State 23H Field: NM Eddy County (NAD 83) Structure: Oxy Turkey Track 9-10 State 23H

Company: Schlumberger Services Date: 07-Nov-2017 Surface Location: NAD83 NPT Station State Point, Eastern Zone, US Feet
Model: HQM 3017 Dip: 68.484° Lat: N 32.40° 16.96' Northing: 658654.78810 Grid Conv: 0.1315°
Map: 7.447° Pl: 48156.78817 Gravity PS: 986.713mgals (9.80665 Standard) Easting: 476408.15515 Grid Fact: 0.99991566 Measurements: Oxy Turkey Track 9-10 TYD RPT: RKB=26.5' (7.315' Above MBL)
Oxy Turkey Track 9-10 State 23H RKB=26.5' (7.315' Above MBL)
Oxy Turkey Track 9-10 State 23H RKB=26.5' (7.315' Above MBL)



Vertical Section (ft) Azim = 87.41° Scale = 1:400.00(ft) Origin = ON/S, 0E/W