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Schmidberger

OXY Cedar Canyon 28 Fed 41H Gyro + MWD 0-14778' MD Survey Geodetic Report (Non-Def Survey) 30-015-44439



NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 02 2019

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Report Date: December 10, 2018 - 05:28 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: OXY Cedar Canyon 28 Fed 41H / OXY Cedar Canyon 28 Fed 41H
Well: Cedar Canyon 28 Fed 41H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: OXY Cedar Canyon 28 Fed 41H Gyro + MWD 0-14778' MD
Survey Date: September 25, 2018
Tort / AND / DDI / ERD Ratio: 211.846' / 5854.037' R / 0.248 / 0.562
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 11' 35" 18431", W 103° 58' 49" 51717"
Location Grid N/E Y/X: N 434149 280 N/E, E 845350 720 N/E
CRS Grid Convergence Angle: 0.1791°
Grid Scale Factor: 0.9992148
Version / Patch: 2.10.753.0

Survey / OLS Completion: Minimum Curvature / Lubinski
Vertical Section Azimuth: 83.260° (Grid North)
Vertical Section Origin: 0.000 ft 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 2974.400 ft above MSL
Seabed / Ground Elevation: 2947.900 ft above MSL
Magnetic Declination: 6.979°
Total Gravity Field Strength: 958.4845mg (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47952.500 nT
Magnetic Dip Angle: 59.948°
Declination Date: November 30, 2018
Magnetic Declination Model: IFR
North Reference: Grid North
Grid Convergence Used: 0.1791°
Total Corr Mag North-Grid: 6.7999°
North: Well Head
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azth Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLB (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S)	Longitude (E/W)
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	434149.28	845350.72	32 11 35.18	W 103 58 49.52
SHL	29.50	0.00	0.00	29.50	0.00	0.00	0.00	0.00	434149.28	845350.72	32 11 35.18	W 103 58 49.52
	66.69	0.11	231.09	66.69	-0.03	-0.02	-0.03	0.27	434149.28	845350.69	32 11 35.18	W 103 58 49.52
	123.44	0.10	202.20	123.44	-0.10	-0.10	-0.09	0.09	434149.18	845350.63	32 11 35.18	W 103 58 49.52
	210.79	0.34	73.34	210.79	0.12	-0.10	0.13	0.47	434149.18	845350.85	32 11 35.18	W 103 58 49.52
	289.39	0.44	54.59	289.39	0.07	0.17	0.05	0.18	434149.45	845351.37	32 11 35.19	W 103 58 49.51
	392.82	0.92	43.15	392.81	1.57	0.83	1.47	0.53	434150.21	845352.19	32 11 35.19	W 103 58 49.50
	487.32	0.80	45.83	487.30	2.87	1.86	2.46	0.13	434151.23	845353.18	32 11 35.20	W 103 58 49.50
	581.91	1.30	47.92	581.87	4.07	3.12	3.73	0.53	434152.40	845354.45	32 11 35.22	W 103 58 49.47
	678.20	0.87	50.84	678.15	5.58	4.32	5.11	0.45	434153.00	845355.82	32 11 35.23	W 103 58 49.48
	816.00	0.36	22.46	815.94	6.87	6.38	6.08	0.42	434154.08	845356.80	32 11 35.24	W 103 58 49.48
	907.00	0.46	345.95	906.94	6.78	6.00	6.10	0.30	434155.28	845356.82	32 11 35.24	W 103 58 49.45
	988.00	0.67	315.27	987.93	6.39	6.73	5.64	0.40	434156.01	845356.38	32 11 35.25	W 103 58 49.45
	1088.00	0.25	328.89	1087.93	5.99	7.27	5.17	0.48	434156.95	845355.89	32 11 35.26	W 103 58 49.48
	1180.00	0.49	338.39	1179.93	5.81	7.81	4.82	0.27	434157.09	845355.64	32 11 35.26	W 103 58 49.48
	1271.00	0.22	232.52	1270.93	5.58	8.07	4.64	0.68	434157.35	845355.38	32 11 35.26	W 103 58 49.46
	1450.00	0.38	200.49	1449.92	4.99	7.30	4.16	0.13	434156.56	845354.86	32 11 35.26	W 103 58 49.47
	1542.00	0.40	138.58	1541.92	5.03	6.78	4.27	0.44	434156.08	845354.99	32 11 35.25	W 103 58 49.47
	1634.00	0.42	201.66	1633.92	5.06	6.22	4.38	0.47	434155.50	845355.08	32 11 35.25	W 103 58 49.47
	1727.00	0.42	133.80	1726.92	5.11	5.67	4.48	0.51	434154.95	845355.20	32 11 35.24	W 103 58 49.48
	1817.00	0.23	136.64	1816.92	5.43	5.31	4.84	0.21	434154.59	845355.56	32 11 35.24	W 103 58 49.48
	1909.00	0.29	207.58	1908.92	5.41	4.97	4.68	0.33	434154.25	845355.56	32 11 35.23	W 103 58 49.48
	2000.00	0.44	225.18	1999.91	5.00	4.52	4.50	0.20	434153.80	845355.22	32 11 35.23	W 103 58 49.48
	2094.00	0.31	103.78	2093.91	4.96	4.21	4.49	0.70	434153.48	845355.21	32 11 35.23	W 103 58 49.48
	2189.00	0.45	57.68	2188.91	5.53	4.34	5.08	0.34	434153.82	845355.78	32 11 35.23	W 103 58 49.48
	2284.00	0.37	36.70	2283.91	6.09	4.78	5.57	0.17	434154.06	845356.29	32 11 35.23	W 103 58 49.45
	2378.00	0.25	171.29	2377.91	6.31	4.81	5.79	0.81	434154.09	845356.51	32 11 35.23	W 103 58 49.45
	2473.00	0.44	73.20	2472.91	6.88	4.72	6.17	0.56	434153.99	845356.89	32 11 35.23	W 103 58 49.45
	2567.00	0.43	80.97	2566.90	7.39	4.87	6.88	0.08	434154.15	845357.58	32 11 35.23	W 103 58 49.44
	2662.00	0.45	69.28	2661.90	8.11	5.06	7.56	0.10	434154.34	845358.28	32 11 35.23	W 103 58 49.44
	2757.00	0.24	303.67	2756.90	8.32	5.31	7.75	0.65	434154.58	845358.47	32 11 35.24	W 103 58 49.43
	2851.00	0.25	289.44	2850.90	7.98	5.48	7.39	0.07	434154.78	845358.11	32 11 35.24	W 103 58 49.43
	2946.00	0.28	225.89	2945.90	7.63	5.40	7.04	0.28	434154.68	845357.76	32 11 35.24	W 103 58 49.44
	3041.00	0.26	206.68	3040.90	7.33	5.06	6.79	0.09	434154.34	845357.51	32 11 35.23	W 103 58 49.44
	3135.00	0.41	196.51	3134.90	7.08	4.55	6.50	0.17	434153.83	845357.32	32 11 35.23	W 103 58 49.44
	3230.00	0.35	212.70	3229.89	6.77	3.98	6.34	0.13	434153.26	845357.08	32 11 35.22	W 103 58 49.44
	3324.00	0.30	218.43	3323.89	6.40	3.55	6.03	0.07	434152.82	845356.75	32 11 35.22	W 103 58 49.45
	3418.00	0.45	160.68	3418.89	6.18	2.88	5.87	0.30	434152.26	845356.59	32 11 35.21	W 103 58 49.45
	3514.00	0.38	110.28	3513.89	6.41	2.50	6.16	0.51	434151.78	845356.88	32 11 35.21	W 103 58 49.43
	3610.00	0.25	115.48	3609.89	7.31	2.10	7.12	0.07	434151.38	845357.84	32 11 35.20	W 103 58 49.43
	3703.00	0.24	124.00	3702.89	7.64	1.80	7.47	0.04	434151.18	845358.19	32 11 35.20	W 103 58 49.43
	3798.00	0.17	184.89	3797.88	7.76	1.65	7.62	0.09	434150.24	845358.34	32 11 35.19	W 103 58 49.43
	3893.00	0.25	176.69	3892.88	7.68	0.86	7.02	0.09	434149.82	845358.28	32 11 35.18	W 103 58 49.43
	4082.00	0.18	209.48	4081.88	7.59	0.84	7.57	0.07	434149.43	845358.00	32 11 35.18	W 103 58 49.44
	4177.00	0.27	234.29	4176.88	7.05	0.15	7.08	0.07	434149.00	845357.21	32 11 35.18	W 103 58 49.45
	4366.00	0.17	232.88	4365.88	6.41	-0.28	6.48	0.05	434148.68	845356.32	32 11 35.18	W 103 58 49.45
	4556.00	0.41	257.73	4555.88	5.50	-0.60	5.60	0.14	434148.68	845356.32	32 11 35.18	W 103 58 49.45
	4745.00	0.31	257.39	4744.88	4.80	-0.72	5.02	0.11	434148.58	845355.74	32 11 35.18	W 103 58 49.48
	4935.00	0.39	99.80	4934.87	4.96	-0.84	5.09	0.72	434148.44	845355.81	32 11 35.18	W 103 58 49.48
	5026.00	2.55	101.44	5025.84	7.25	-1.30	7.45	2.30	434147.98	845355.17	32 11 35.17	W 103 58 49.41
	5124.00	0.33	353.23	5123.81	9.28	-1.45	9.49	2.81	434147.83	845354.21	32 11 35.17	W 103 58 49.41
	5218.00	3.08	336.85	5217.76	8.84	1.17	8.46	2.81	434150.45	845359.18	32 11 35.20	W 103 58 49.42
	5313.00	5.81	337.81	5312.48	8.61	7.75	5.74	2.69	434157.03	845359.48	32 11 35.26	W 103 58 49.45
	5408.00	7.18	336.60	5408.89	3.70	17.49	1.68	1.84	434168.77	845352.38	32 11 35.36	W 103 58 49.50
	5503.00	7.68	328.50	5501.09	-0.64	28.35	-3.99	1.28	434177.62	845348.73	32 11 35.48	W 103 58 49.56
	5597.00	8.85	328.40	5594.12	-6.65	39.65	-11.38	1.33	434188.93	845339.34	32 11 35.69	W 103 58 49.65
	5691.00	8.48	323.21	5687.04	-13.50	62.91	-22.32	0.79	434212.19	845322.40	32 11 35.81	W 103 58 49.84
	5786.00	9.22	323.84	5780.91	-20.74	81.16	-19.64	0.53	434219.02	845302.95	32 11 36.08	W 103 58 50.07
	5875.00	10.58	320.91	5867.10	-37.45	88.58	-48.18	0.78	434251.94	845291.19	32 11 36.24	W 103 58 50.34
	5970.00	11.40	321.34	5960.36	-47.07	102.67	-59.53	0.69	434278.68	845279.82	32 11 36.48	W 103 58 50.48
	6070.00	11.03	321.74	6062.58	-56.88	118.68	-70.80	0.40	434290.93	845269.13	32 11 36.68	W 103 58 50.66
	6164.00	9.77	321.05	6156.08	-65.73	130.38	-81.60	1.33	434278.68	845269.13	32 11 36.68	W 103 58 50.66
	6259.00	8.12	319.81	6250.88	-73.64	141.66	-90.80	1.77	434290.93	845259.83	32 11 36.68	W 103 58 50.57
	6353.00	6.54	319.83	6343.08	-80.31	150.93	-98.71	1.68	434300.20	845252.02	32 11 36.83	W 103 58 50.86
	6448.00	5.71	320.02	6438.54	-85.82	158.61	-105.18	0.88	434307.87	845245.57	32 11 36.78	W 103 58 50.74
	6542.00	5.56	324.36	6531.08	-90.83	168.97	-110.88	0.48	434315.24	845238.85	32 11 36.63	W 103 58 50.60
	6637.00	5.81	331.00	6621.08	-94.81	177.77	-116.81	0.68	434323.04	845234.92	32 11 36.91	W 103 58 50.86
	6732.00	5.64	323.09	6721.08	-98.67	181.48	-120.81	0.82	434330.75	845229.92	32 11 37.08	W 103 58 50.99
	6826.00	6.24	315.44	6813.08	-104.19	188.90	-127.24	1.04	434338.11	845223.49	32 11 37.14	W 103 58 51.07
	6921.00	6.27	325.34	6908.11	-109.78	198.84	-133.81	1.13	434346.11	845212.41	32 11 37.14	W 103 58 51.07
	7016.00	7.19	327.77	7007.82	-113.46	205.69	-138.32	1.38	434352.96	845212.41	32 11 37.20	W 103 58 51.12
	7111.00	7.28	328.19	7102.42	-114.80	206.38	-139.99	0.42	434355.82	845210.74	32 11 37.20	W 103 58 51.14
	7205.00	6.13	327.11	7185.58	-120.25	217.00	-146.74	0.92	434368.27	845203.99	32 11 37.34	W 103 58 51.22
	7304.00	7.58	328.21	7372.80	-131.81	236.59	-160.93	1.03	434376.85	845189.81	32 11 37.44	W 103 58 51.38
	7493.00	6.74	313.10	7487.07	-138.26	247.60	-169.48	1.03	434386.88	845182.25	32 11 37.54	W 103 58 51.47
	7583.00	6.90	317.49	7580.40	-145.12	255.53	-178.33	0.68	434404.79	8451		

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLB (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ° ')	Longitude (E/W ° ° ')
	7982.00	7.90	351.71	7938.28	-184.14	297.08	-300.38	3.15	434460.33	845150.34	N 32 11 38.13 W 103 59 51.84	
	8057.00	8.77	8.85	8030.28	-182.82	310.78	-200.48	2.46	434460.83	845150.28	N 32 11 38.27 W 103 59 51.84	
	8151.00	7.37	10.11	8123.34	-158.18	323.83	-198.57	1.57	434473.08	845152.17	N 32 11 38.39 W 103 59 51.82	
	8248.00	5.84	3.78	8217.73	-158.57	334.49	-187.19	1.87	434463.74	845153.55	N 32 11 38.50 W 103 59 51.80	
	8340.00	4.98	5.18	8311.32	-154.88	343.16	-198.52	0.72	434482.41	845154.22	N 32 11 38.59 W 103 59 51.78	
	8434.00	5.56	2.73	8404.93	-153.29	351.77	-195.83	0.68	434501.02	845154.80	N 32 11 38.67 W 103 59 51.78	
	8529.00	8.34	357.48	8499.42	-152.15	361.81	-195.94	1.00	434510.86	845154.79	N 32 11 38.77 W 103 59 51.78	
	8623.00	7.85	351.81	8592.71	-151.95	372.98	-197.09	1.59	434522.23	845153.69	N 32 11 38.88 W 103 59 51.80	
	8718.00	8.15	343.17	8686.82	-153.31	385.89	-199.96	1.33	434534.93	845150.78	N 32 11 39.01 W 103 59 51.83	
	8812.00	7.71	338.28	8779.92	-158.32	397.84	-204.42	1.11	434547.08	845146.31	N 32 11 39.13 W 103 59 51.80	
	8907.00	7.57	328.89	8874.08	-160.78	409.02	-210.24	1.07	434558.26	845140.50	N 32 11 39.24 W 103 59 51.85	
	9002.00	7.25	320.88	8968.29	-168.59	419.02	-217.26	1.10	434568.27	845133.47	N 32 11 39.34 W 103 59 52.03	
	9098.00	8.05	338.22	9061.66	-171.04	428.23	-222.84	2.48	434577.48	845127.90	N 32 11 39.43 W 103 59 52.09	
	9190.00	8.08	358.59	9155.14	-172.04	437.80	-224.97	2.06	434587.05	845125.77	N 32 11 39.52 W 103 59 52.12	
	9285.00	5.87	8.44	9249.82	-169.13	447.71	-224.55	1.31	434596.95	845126.19	N 32 11 39.62 W 103 59 52.11	
	9377.00	5.99	13.24	9341.40	-164.39	457.78	-223.72	1.22	434601.25	845127.02	N 32 11 39.68 W 103 59 52.11	
	9474.00	7.85	25.58	9437.76	-149.72	467.20	-207.40	2.72	434611.02	845130.63	N 32 11 39.76 W 103 59 52.08	
	9569.00	18.62	40.62	9470.13	-119.32	478.20	-179.94	1.81	434628.44	845143.34	N 32 11 39.93 W 103 59 51.91	
	9663.00	29.73	48.99	9553.77	-72.08	505.88	-135.57	12.34	434658.22	845170.78	N 32 11 40.20 W 103 59 51.59	
	9759.00	37.34	66.52	9635.09	-12.79	533.02	-77.59	12.90	434682.25	845215.18	N 32 11 40.48 W 103 59 51.80	
	9853.00	41.51	84.85	9708.70	-52.74	547.49	-11.74	12.85	434698.72	845231.14	N 32 11 40.80 W 103 59 51.40	
	9948.00	48.49	92.80	9777.07	97.84	547.83	33.78	7.93	434697.88	845338.98	N 32 11 40.81 W 103 59 49.63	
340' FWL Cross	9948.00	52.32	89.64	9818.10	97.84	547.83	33.78	10.51	434697.08	845384.50	N 32 11 40.60 W 103 59 48.10	
Wellcamp Intersection	9978.31	55.30	88.23	9834.00	122.18	548.29	58.24	10.51	434697.32	845408.95	N 32 11 40.61 W 103 59 48.82	
	9983.00	55.78	88.02	9838.85	126.04	548.41	62.10	10.51	434697.65	845412.82	N 32 11 40.61 W 103 59 48.77	
	10078.00	82.00	89.35	9885.73	206.95	550.25	143.37	8.88	434699.48	845494.07	N 32 11 40.62 W 103 59 47.83	
	10173.00	71.13	91.18	9923.47	293.38	549.80	230.43	9.77	434699.03	845591.13	N 32 11 40.62 W 103 59 46.82	
	10268.00	78.13	90.49	9948.84	384.11	548.47	321.87	7.40	434697.71	845672.68	N 32 11 40.60 W 103 59 45.75	
	10363.00	87.81	92.78	9960.17	477.28	545.77	416.10	10.57	434695.00	845766.78	N 32 11 40.67 W 103 59 44.68	
	10454.00	87.59	91.47	9962.17	527.83	543.88	487.03	2.84	434693.11	845817.71	N 32 11 40.65 W 103 59 44.08	
	10548.00	88.14	89.88	9965.71	621.77	542.78	581.95	1.77	434691.99	845912.63	N 32 11 40.64 W 103 59 42.95	
	10644.00	87.42	88.68	9969.39	718.17	543.95	658.87	1.47	434693.19	846007.54	N 32 11 40.55 W 103 59 41.85	
	10739.00	88.41	87.81	9972.85	810.78	546.88	751.78	1.39	434696.09	846102.42	N 32 11 40.57 W 103 59 40.75	
	10834.00	88.07	87.88	9975.77	905.40	546.45	846.65	0.38	434699.88	846197.30	N 32 11 40.60 W 103 59 38.84	
	10929.00	87.73	87.41	9979.25	1000.08	546.69	941.50	0.59	434703.80	846292.15	N 32 11 40.64 W 103 59 38.54	
	11024.00	89.00	87.37	9981.96	1094.77	546.10	1036.36	1.34	434707.92	846387.00	N 32 11 40.68 W 103 59 37.44	
	11119.00	89.48	87.31	9983.22	1189.52	563.10	1131.25	0.91	434710.92	846481.88	N 32 11 40.72 W 103 59 36.33	
	11214.00	89.14	87.43	9984.36	1284.27	567.44	1226.15	0.39	434716.67	846576.77	N 32 11 40.76 W 103 59 35.23	
	11309.00	89.07	87.74	9985.85	1378.88	571.42	1321.05	0.31	434720.66	846671.66	N 32 11 40.80 W 103 59 34.12	
	11404.00	88.17	87.84	9986.13	1473.87	575.25	1415.94	0.95	434724.49	846766.55	N 32 11 40.83 W 103 59 33.02	
	11499.00	88.21	87.32	9991.13	1568.37	578.43	1510.81	0.34	434728.66	846861.40	N 32 11 40.87 W 103 59 31.92	
	11594.10	88.48	87.54	9993.88	1663.18	583.69	1605.77	0.37	434732.82	846956.38	N 32 11 40.91 W 103 59 30.81	
Exit Target Box 1	11570.00	88.58	87.53	9994.29	1679.03	584.37	1621.85	0.52	434733.80	846972.24	N 32 11 40.92 W 103 59 30.82	
	11665.10	88.97	87.51	9995.99	1757.89	587.79	1700.68	0.52	434737.02	847051.24	N 32 11 40.95 W 103 59 29.71	
	11760.10	88.24	87.44	9998.28	1851.81	591.93	1794.54	0.78	434741.18	847145.11	N 32 11 40.99 W 103 59 28.61	
	11855.10	88.31	91.33	10004.00	2040.30	593.87	1884.30	2.05	434743.20	847334.88	N 32 11 41.00 W 103 59 28.40	
	11950.10	88.24	91.58	10008.86	2134.29	591.56	2078.23	0.27	434740.79	847429.78	N 32 11 40.97 W 103 59 25.30	
	12045.10	88.48	91.91	10009.58	2228.21	588.66	2174.15	0.43	434737.90	847524.69	N 32 11 40.94 W 103 59 24.20	
Enter Target Box 1	12184.50	88.34	91.83	10011.20	2288.99	596.68	2235.59	0.27	434735.89	847588.13	N 32 11 40.92 W 103 59 23.48	
	12279.10	88.04	91.88	10015.28	2413.08	582.84	2380.97	0.27	434732.08	847711.60	N 32 11 40.88 W 103 59 22.02	
	12374.10	87.88	90.43	10022.02	2500.18	578.48	2549.81	0.66	434728.83	847800.33	N 32 11 40.84 W 103 59 18.82	
	12469.10	88.14	89.53	10028.65	2588.77	579.48	2719.70	0.50	434728.70	848090.19	N 32 11 40.83 W 103 59 17.81	
	12564.10	87.88	89.48	10031.97	2683.15	580.28	2834.63	0.30	434729.52	848185.13	N 32 11 40.84 W 103 59 16.51	
	12659.10	88.52	89.21	10034.97	2777.57	581.37	2929.58	0.75	434730.60	848280.96	N 32 11 40.85 W 103 59 15.40	
	12754.10	88.28	89.75	10037.82	2871.97	582.23	3024.54	0.62	434731.48	848375.01	N 32 11 40.85 W 103 59 14.30	
	12849.10	89.73	88.75	10040.10	2966.42	583.47	3119.50	1.15	434732.71	848468.97	N 32 11 40.88 W 103 59 13.19	
	12944.10	89.34	89.50	10041.70	3060.90	584.93	3214.47	1.02	434734.16	848564.83	N 32 11 40.87 W 103 59 12.09	
	13039.10	89.24	89.13	10044.05	3155.83	587.20	3304.44	0.20	434736.43	848675.89	N 32 11 40.89 W 103 59 10.88	
	13134.10	89.10	89.18	10045.41	3250.35	588.60	3394.45	0.15	434737.83	848784.89	N 32 11 40.90 W 103 59 9.78	
	13229.10	89.31	89.15	10046.75	3344.81	590.01	3484.40	0.22	434739.25	848894.83	N 32 11 40.91 W 103 59 7.67	
	13324.10	90.10	89.48	10047.24	3439.28	590.32	3574.50	1.83	434739.55	849003.82	N 32 11 40.91 W 103 59 6.56	
	13419.10	89.72	90.20	10047.38	3533.76	589.78	3664.50	0.50	434738.89	849113.41	N 32 11 40.90 W 103 59 5.46	
	13514.10	90.10	89.48	10047.88	3628.23	590.29	3754.49	0.43	434739.52	849224.89	N 32 11 40.90 W 103 59 4.35	
Exit Target Box 2	14038.50	88.97	87.78	10048.81	4130.18	592.02	4088.85	1.78	434742.26	849439.24	N 32 11 40.92 W 103 59 1.91	
	14133.10	88.24	88.87	10050.42	4224.59	596.83	4183.34	1.78	434745.87	849513.72	N 32 11 40.98 W 103 59 1.05	
	14228.10	88.85	90.82	10052.83	4319.10	598.71	4278.28	4.42	434747.95	849608.84	N 32 11 40.97 W 103 59 59.94	
	14323.10	88.79	93.87	10054.78	4392.91	594.99	4353.18	3.00	434744.23	849703.53	N 32 11 40.93 W 103 59 58.84	
Enter Target Box 2	14317.00	88.91	93.80	10055.05	4406.57	594.09	4367.03	1.27	434743.32	849717.40	N 32 11 40.92 W 103 59 58.88	
	14398.10	89.82	94.55	10056.09	4488.20	588.19	4447.91	1.27	434737.42	849788.27	N 32 11 40.88 W 103 59 57.74	
	14493.10	89.31	95.08	10058.97	4578.29	580.30	4531.57	0.65	434729.53	849880.93	N 32 11 40.78 W 103 59 56.65	
	14588.10	90.48	95.27	10061.14	4671.14	571.74	4618.08	1.25	434720.87	849986.43	N 32 11 40.70 W 103 59 55.55	
340' FEL Cross	14820.00	90.33	95.25	10056.91	4703.42	568.71	4688.84	0.47	434717.95	850019.29	N 32 11 40.68 W 103 59 55.16	
Final MWD	14735.00	89.79	95.17	10056.80	4815.93	558.27	4783.47	0.47	434707.51	850133.80	N 32 11 40.56 W 103 59 53.83	
Proj to TD	14778.00	89.79	95.17	10056.95	4858.00	554.40	4828.28	0.00	434703.83	850176.62	N 32 11 40.52 W 103 59 53.33	

Survey Type: Non-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	28.500	1/88 425	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / OXY Cedar Canyon 28 Fed 41H Gyro + MWD 0



Grid North
 Tot Corr (M-G 6.800°)
 Mag Dec (6.979°)
 Grid Conv (0.179°)

