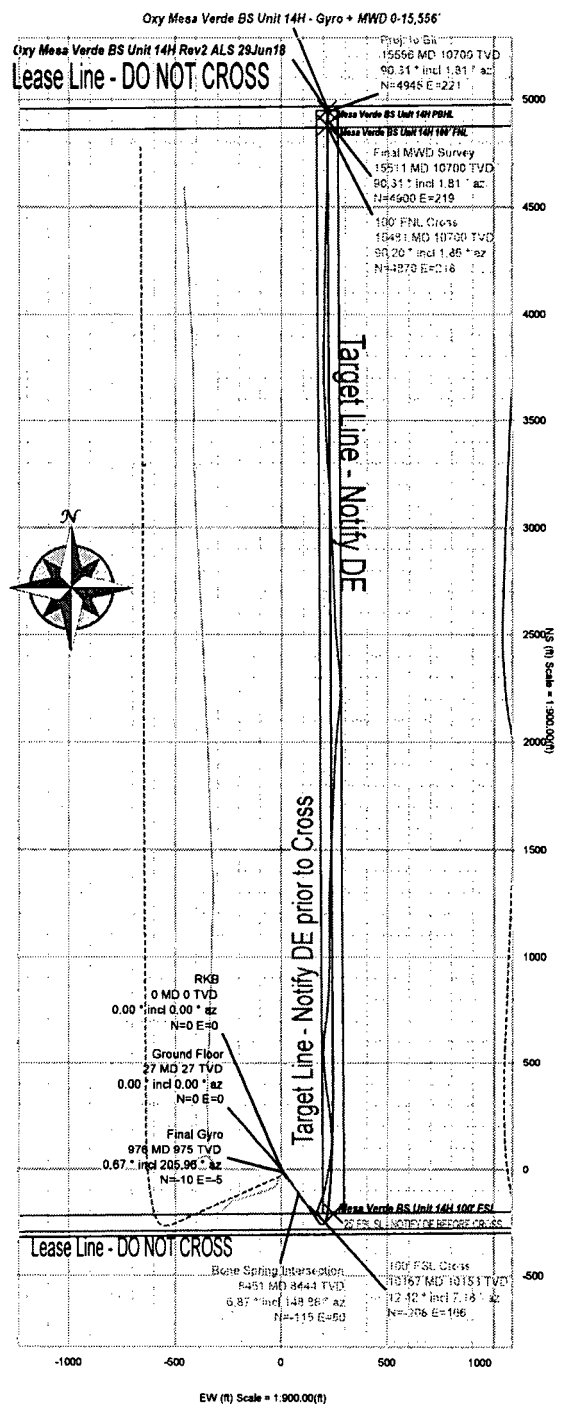
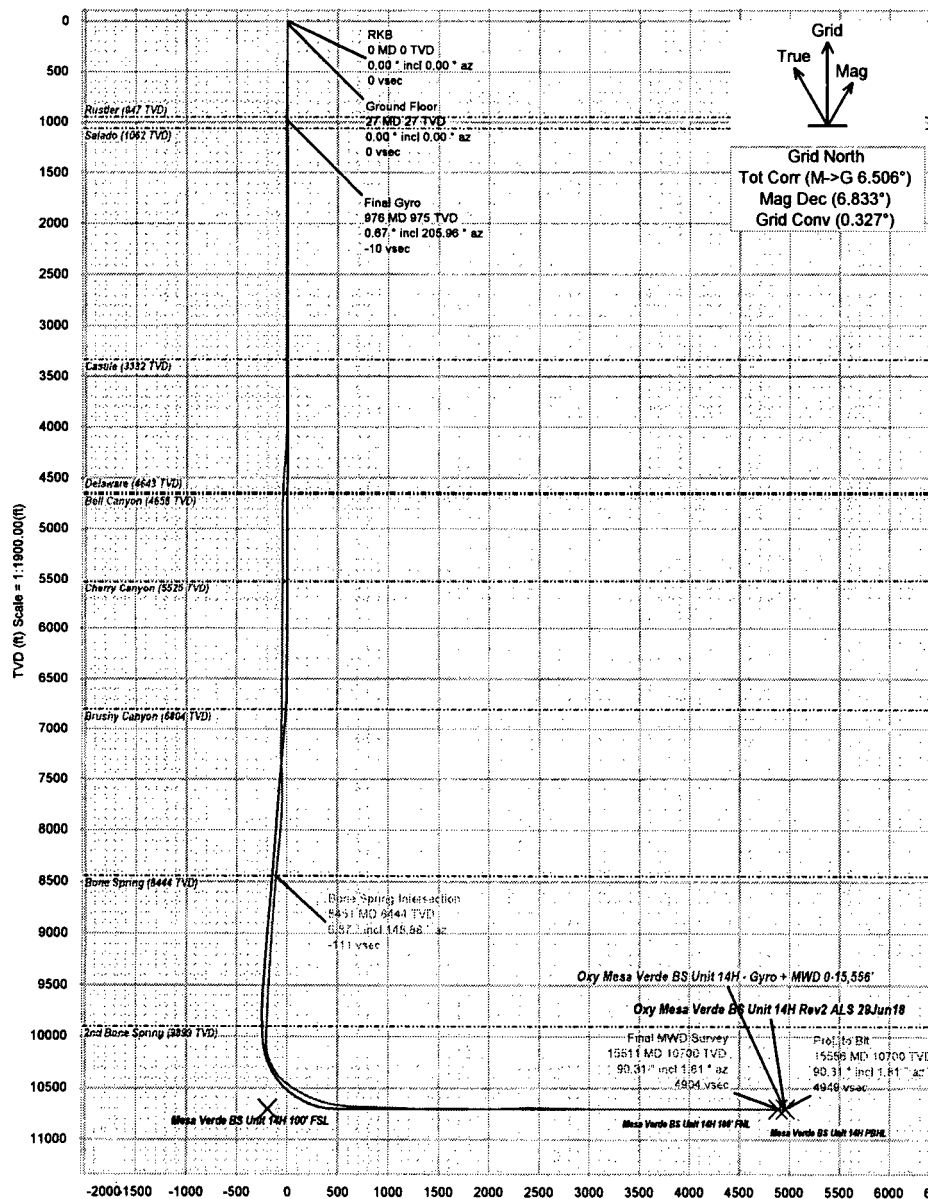


Borehole: Original Borehole Well: Oxy Mesa Verde BS Unit 14H Field: NM Lea County (NAD 83) Structure: Oxy Mesa Verde BS Unit 14H

Gravity & Magnetic Parameters Model: HDOM 2018 Dip: 68.82° Date: 04-May-2018 Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet Lat: N 32 12 38.62 Northing: 441030.17RUS Grid Conv: 0.3272° MagDec: 6.833° FS: 48007.518nT Gravity FS: 986.428mgal (9.80665 Based) Lon: W 103 43 10.18 Easting: 731184.81RUS Scale Fact: 0.9999037 Miscellaneous Slot: Oxy Mesa Verde BS Unit 14H TVD Ref: RKB=26.5'(3688.1ft above MSL) Plan: Oxy Mesa Verde BS Unit 14H Rev2 ALS 28Jun18

Critical Points							
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler	947.00	0.00	144.76	947.00	0.00	0.00	0.00
Salado	1062.00	0.00	144.76	1062.00	0.00	0.00	0.00
Castle	3332.00	0.00	144.76	3332.00	0.00	0.00	0.00
Delaware	4643.00	0.00	144.76	4643.00	0.00	0.00	0.00
Bell Canyon	4658.00	0.00	144.76	4658.00	0.00	0.00	0.00
Cherry Canyon	5525.00	0.00	144.76	5525.00	0.00	0.00	0.00
Build 2"/100'	6504.00	0.00	144.76	6504.00	0.00	0.00	0.00
Hold Tangent	6803.82	6.00	144.76	6803.27	-12.38	-12.80	9.04
Brushy Canyon	6804.55	6.00	144.76	6804.00	-12.44	-12.86	9.09
Bone Spring	8453.57	6.00	144.76	8444.00	-148.54	-153.57	108.48
Turn 2"/100'	9572.94	6.00	144.76	9557.24	-240.92	-249.07	175.95
2nd Bone Spring	9915.64	3.97	60.42	9899.00	-248.76	-257.85	196.63
Build/Turn 10"/100'	10063.27	6.00	35.00	10046.08	-239.52	-249.00	205.50
Landing Point	11127.13	90.00	359.66	10700.00	475.17	464.81	241.01
Mesa Verde BS Unit 14H PBHL	15611.82	90.00	359.66	10700.00	4954.06	4949.43	214.38





Oxy Mesa Verde BS Unit 14H - Gyro + MWD 0-15,556' Survey Geodetic Report (Def Survey)

Report Date: July 27, 2018 - 09:39 AM Client: OXY Field: NM Lea County (NAD 83) Structure / Slot: Oxy Mesa Verde BS Unit 14H / Oxy Mesa Verde BS Unit 14H Well: Oxy Mesa Verde BS Unit 14H Borehole: Original Borehole UWI / API#: Unknown / Unknown Survey Name: Oxy Mesa Verde BS Unit 14H - Gyro + MWD 0-15,556' Survey Date: July 13, 2018 Tort / AHD / DDI / ERD Ratio: 237.247' / 5499.543 ft / 6.278 / 0.514 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 12' 39.52283", W 103° 43' 10.17993" Location Grid N/E Y/X: N 441030.170 RUS, E 731184.810 RUS CRS Grid Convergence Angle: 0.3272° Grid Scale Factor: 0.99995037 Version / Patch: 2.10.740.0	Survey / DLS Computation: Minimum Curvature / Lubinski Vertical Section Azimuth: 2.574° (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB=28.5' TVD Reference Elevation: 3599.100 ft above MSL Seabed / Ground Elevation: 3572.600 ft above MSL Magnetic Declination: 6.815° Total Gravity Field Strength: 998.4285mgm (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 47985.474 nT Magnetic Dip Angle: 59.920° Declination Date: July 13, 2018 Magnetic Declination Model: HDGM 2018 North Reference: Grid North Grid Convergence Used: 0.3272° Total Corr Mag North->Grid North: 6.4879° Local Coord Referenced To: Well Head	
--	--	--

	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
Comments	(m)	(°)	(°)	(m)	(m)	(m)	(m)	(°/100m)	(NUS)	(RUS)	(N/S ° ' ")	(E/W ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	441030.17	731184.81	N 32 12 39.52	W 103 43 10.18
Ground Floor	28.50	0.00	0.00	28.50	0.00	0.00	0.00	0.00	441030.17	731184.81	N 32 12 39.52	W 103 43 10.18
	73.40	0.38	131.55	73.40	-0.10	-0.10	0.12	0.81	441030.07	731184.93	N 32 12 39.52	W 103 43 10.18
	132.90	0.39	173.94	132.90	-0.42	-0.44	0.29	0.47	441029.73	731185.10	N 32 12 39.52	W 103 43 10.18
	225.40	0.55	192.17	225.40	-1.17	-1.18	0.23	0.23	441028.99	731185.04	N 32 12 39.51	W 103 43 10.18
	314.90	0.72	202.74	314.89	-2.12	-2.12	-0.08	0.23	441028.05	731184.73	N 32 12 39.50	W 103 43 10.18
	410.00	0.82	207.60	409.98	-3.30	-3.28	-0.63	0.13	441026.90	731184.18	N 32 12 39.49	W 103 43 10.19
	505.00	0.95	206.89	504.97	-4.63	-4.58	-1.30	0.14	441025.59	731183.51	N 32 12 39.48	W 103 43 10.20
	600.00	1.01	213.81	599.96	-6.07	-5.98	-2.12	0.14	441024.19	731182.69	N 32 12 39.48	W 103 43 10.20
	694.90	0.97	217.65	694.84	-7.44	-7.31	-3.07	0.08	441022.86	731181.74	N 32 12 39.45	W 103 43 10.22
	790.10	0.72	224.01	790.03	-8.55	-8.38	-3.98	0.28	441021.79	731180.83	N 32 12 39.44	W 103 43 10.23
Final Gyro	884.90	0.87	231.54	884.82	-9.36	-9.15	-4.83	0.11	441021.02	731179.98	N 32 12 39.43	W 103 43 10.24
	975.50	0.67	205.96	975.42	-10.19	-9.96	-5.48	0.33	441020.21	731179.33	N 32 12 39.42	W 103 43 10.24
	1120.00	0.06	36.35	1119.92	-10.91	-10.88	-5.80	0.50	441019.51	731179.01	N 32 12 39.42	W 103 43 10.25
	1259.00	0.06	154.13	1258.92	-10.91	-10.88	-5.73	0.07	441019.51	731179.08	N 32 12 39.42	W 103 43 10.25
	1444.00	0.11	287.08	1443.92	-10.95	-10.70	-5.85	0.08	441019.47	731178.96	N 32 12 39.42	W 103 43 10.25
	1633.00	0.11	22.64	1632.92	-10.74	-10.48	-5.96	0.09	441019.69	731178.85	N 32 12 39.42	W 103 43 10.25
	1727.00	0.06	239.06	1726.92	-10.68	-10.42	-5.96	0.17	441019.75	731178.85	N 32 12 39.42	W 103 43 10.25
	1916.00	0.00	129.28	1915.92	-10.73	-10.47	-6.05	0.03	441019.70	731178.76	N 32 12 39.42	W 103 43 10.25
	2011.00	0.06	105.49	2010.92	-10.74	-10.48	-6.00	0.06	441019.69	731178.81	N 32 12 39.42	W 103 43 10.25
	2105.00	0.00	64.10	2104.92	-10.75	-10.50	-5.95	0.06	441019.67	731178.86	N 32 12 39.42	W 103 43 10.25
	2200.00	0.06	63.57	2199.91	-10.73	-10.48	-5.91	0.06	441019.70	731178.90	N 32 12 39.42	W 103 43 10.25
	2389.00	0.00	159.13	2388.91	-10.68	-10.43	-5.82	0.03	441019.74	731178.99	N 32 12 39.42	W 103 43 10.25
	2483.00	0.06	164.48	2482.91	-10.73	-10.48	-5.81	0.06	441019.69	731179.00	N 32 12 39.42	W 103 43 10.25
	2578.00	0.08	61.31	2577.91	-10.74	-10.49	-5.74	0.12	441019.68	731179.07	N 32 12 39.42	W 103 43 10.25
	2672.00	0.06	359.46	2671.91	-10.68	-10.41	-5.68	0.08	441019.76	731179.13	N 32 12 39.42	W 103 43 10.25
	2767.00	0.00	66.51	2766.91	-10.61	-10.36	-5.68	0.06	441019.81	731179.13	N 32 12 39.42	W 103 43 10.25
	2861.00	0.06	67.72	2860.91	-10.59	-10.35	-5.63	0.06	441019.82	731179.18	N 32 12 39.42	W 103 43 10.25
	2956.00	0.06	58.03	2955.91	-10.54	-10.30	-5.55	0.01	441019.87	731179.26	N 32 12 39.42	W 103 43 10.25
	3050.00	0.06	82.12	3049.91	-10.50	-10.27	-5.46	0.03	441019.90	731179.36	N 32 12 39.42	W 103 43 10.24
	3144.00	0.08	225.75	3143.91	-10.54	-10.31	-5.45	0.14	441019.86	731179.36	N 32 12 39.42	W 103 43 10.24
	3333.00	0.36	316.49	3332.91	-10.23	-9.97	-5.96	0.20	441020.20	731178.85	N 32 12 39.42	W 103 43 10.25
	3428.00	0.56	334.09	3427.91	-9.61	-9.33	-6.37	0.26	441020.84	731178.45	N 32 12 39.43	W 103 43 10.25
	3616.00	0.50	342.33	3615.90	-8.03	-7.73	-7.02	0.05	441022.44	731177.79	N 32 12 39.45	W 103 43 10.28
	3711.00	0.28	2.58	3710.90	-7.41	-7.10	-7.13	0.27	441023.07	731177.68	N 32 12 39.45	W 103 43 10.28
	3805.00	0.13	225.73	3804.90	-7.26	-6.94	-7.20	0.41	441023.23	731177.61	N 32 12 39.45	W 103 43 10.28
	3900.00	1.35	148.81	3899.89	-8.27	-7.98	-6.69	1.40	441022.19	731178.12	N 32 12 39.44	W 103 43 10.28
	4089.00	3.25	126.37	4088.73	-13.10	-13.06	-1.23	1.09	441017.11	731183.58	N 32 12 39.39	W 103 43 10.20
	4278.00	4.77	142.78	4277.27	-22.12	-22.49	7.84	1.00	441007.68	731192.65	N 32 12 39.30	W 103 43 10.09
	4372.00	5.74	148.14	4370.88	-29.00	-29.80	12.69	1.16	441000.57	731187.50	N 32 12 39.23	W 103 43 10.03
	4467.00	5.04	140.21	4465.48	-36.00	-36.84	17.86	1.07	440993.33	731202.67	N 32 12 39.16	W 103 43 9.97
	4562.00	4.40	135.03	4560.13	-41.55	-42.83	23.11	0.81	440987.55	731207.92	N 32 12 39.10	W 103 43 9.91
	4656.00	3.06	129.48	4653.93	-45.49	-46.77	27.60	1.47	440983.40	731212.02	N 32 12 39.06	W 103 43 9.86
	4751.00	2.06	125.78	4748.84	-47.94	-49.38	30.94	1.07	440980.79	731215.75	N 32 12 39.03	W 103 43 9.82
	4840.00	0.53	121.84	4837.78	-50.23	-51.83	34.44	0.81	440978.35	731219.25	N 32 12 39.01	W 103 43 9.78
	5034.00	0.13	66.87	5031.78	-50.43	-52.05	34.92	0.46	440978.12	731219.72	N 32 12 39.01	W 103 43 9.78
	5129.00	0.06	11.30	5128.78	-50.37	-52.00	35.03	0.14	440978.18	731219.84	N 32 12 39.01	W 103 43 9.78
	5223.00	0.08	37.54	5220.78	-50.27	-51.89	35.08	0.04	440978.28	731219.89	N 32 12 39.01	W 103 43 9.78
	5317.00	0.22	338.77	5314.78	-50.05	-51.67	35.06	0.20	440978.50	731219.86	N 32 12 39.01	W 103 43 9.78
	5412.00	0.18	298.03	5409.78	-49.82	-51.44	34.86	0.16	440978.73	731219.68	N 32 12 39.01	W 103 43 9.78
	5601.00	0.28	256.35	5598.78	-49.63	-51.42	34.14	0.10	440978.75	731218.95	N 32 12 39.01	W 103 43 9.79
	5695.00	0.16	228.45	5692.78	-49.99	-51.56	33.82	0.17	440978.61	731218.63	N 32 12 39.01	W 103 43 9.79
	5789.00	0.24	209.01	5786.78	-50.26	-51.82	33.63	0.11	440978.35	731218.43	N 32 12 39.01	W 103 43 9.79
	5878.00	0.13	8.91	5875.78	-50.40	-51.95	33.47	0.19	440978.22	731218.28	N 32 12 39.01	W 103 43 9.79
	6167.00	0.08	211.66	6164.78	-50.30	-51.85	33.43	0.11	440978.32	731218.24	N 32 12 39.01	W 103 43 9.79
	6262.00	0.13	287.90	6259.78	-50.33	-51.88	33.29	0.14	440978.30	731218.10	N 32 12 39.01	W 103 43 9.80
	6356.00	0.16	261.49	6353.78	-50.33	-51.86	33.06	0.08	440978.31	731217.87	N 32 12 39.01	W 103 43 9.80
	6451.00	0.18	181.67	6448.78	-50.50	-52.03	32.93	0.23	440978.14	731217.74	N 32 12 39.01	W 103 43 9.80
	6640.00	0.56	188.29	6637.77	-51.72	-53.24	32.79	0.20	440978.93	731217.59	N 32 12 38.99	W 103 43 9.80
	6735.00	0.18	136.65	6732.77	-52.28	-53.81	32.82	0.49	440978.36	731217.63	N 32 12 38.99	W 103 43 9.80
	6824.00	1.08	145.24	6821.76	-53.91	-55.49	34.04	0.48	440974.68	731218.85	N 32 12 38.97	W 103 43 9.79
7018.00	1.24	154.87	7015.74	-55.51	-57.14	34.98	0.27	440973.03	731219.79	N 32 12 38.96	W 103 43 9.78	
7113.00	1.74	166.75	7110.71	-57.81	-59.47	35.74	0.82	440970.70	731220.55	N 32 12 38.93	W 103 43 9.77	
7207.00	0.91	175.24	7204.68	-59.92	-61.61	36.13	0.90	440968.57	731220.94	N 32 12 38.91	W 103 43 9.76	
7302.00	3.06	347.83	7299.64	-58.22	-59.88	35.66	4.17	440970.29	731220.47	N 32 12 38.93	W 103 43 9.77	
7396.00	3.56	3.94	7393.49	-52.87	-54.51	35.33	1.12	440975.66	731220.14	N 32 12 38.98	W 103 43 9.77	
7491.00	1.30	98.54	7488.42	-50.03	-51.73	36.60	4.09	440978.44	731221.41	N 32 12 39.01	W 103 43 9.76	
7585.00	0.06	265.62	7582.41	-50.15	-51.89	37.61	1.45	440978.28	731222.41	N 32 12 39.01	W 103 43 9.75	
7680.00	0.06	301.91	7677.41	-50.13	-51.87	37.52	0.04	440978.30	731222.32	N 32 12 39.01	W 103 43 9.75	
7774.00	1.65	147.72	7771.40	-51.22	-52.99	38.20	1.81	440977.18	731223.00	N 32 12 39.00	W 103 43 9.74	
7869.00	4.55	143.73	7866.25	-55.28	-57.18	41.16	3.06	440972.99	731225.96	N 32 12 38.95	W 103 43 9.70	
7963.00	7.06	144.07	7959.76	-62.70	-64.87	46.75	2.67	440965.30	731231.56	N 32 12 38.88	W 103 43 9.64	
8057.00	7.17	144.56	8053.04	-71.65	-74.33	53.54	0.13	440955.85	731238.35	N 32 12 38.78	W 103 43 9.56	
8246.00	6.96	146.50	8240.60	-90.39	-93.48	66.70	0.17	440936.69	731251.51	N 32 12 38.59	W 103 43 9.41	
8435.00	7.02	148.93	8428.20	-109.26	-112.93	78.98	0.16	440917.25	731263.79	N 32 12 38.40	W 103 43 9.27	
8624.00	5.26	148.20	8616.11	-								

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	9001.00	5.80	136.78	8991.88	-149.88	-154.88	107.31	1.19	440875.32	731292.11	N 32 12 37.98 W 103 43 8.94	
	9095.00	6.00	132.86	9085.36	-156.49	-161.77	114.04	0.88	440868.41	731298.64	N 32 12 37.92 W 103 43 8.86	
	9190.00	6.29	130.57	9179.82	-162.90	-168.53	121.63	0.40	440861.65	731306.43	N 32 12 37.85 W 103 43 8.78	
	9283.00	7.37	127.48	9272.16	-169.45	-175.48	130.23	1.23	440854.70	731315.04	N 32 12 37.78 W 103 43 8.68	
	9472.00	5.22	138.52	9460.01	-182.57	-189.29	145.55	1.30	440840.88	731330.35	N 32 12 37.64 W 103 43 8.50	
	9566.00	3.75	137.13	9553.72	-187.80	-194.75	150.48	1.57	440835.43	731335.28	N 32 12 37.59 W 103 43 8.44	
	9681.00	3.80	143.05	9648.53	-192.28	-199.41	154.38	0.43	440830.77	731339.18	N 32 12 37.54 W 103 43 8.40	
	9755.00	3.48	145.49	9742.35	-196.83	-204.12	157.77	0.20	440826.06	731342.57	N 32 12 37.49 W 103 43 8.36	
	9842.00	3.53	148.22	9829.18	-201.15	-208.57	160.88	0.20	440821.61	731345.48	N 32 12 37.45 W 103 43 8.32	
	9988.00	3.59	161.20	9974.90	-209.11	-216.72	164.52	0.55	440813.46	731349.32	N 32 12 37.37 W 103 43 8.28	
	10056.00	1.13	166.70	10042.84	-211.74	-219.39	165.36	3.63	440810.79	731350.16	N 32 12 37.34 W 103 43 8.27	
	10151.00	10.57	1.94	10137.35	-203.90	-211.57	165.87	12.28	440816.61	731350.67	N 32 12 37.42 W 103 43 8.26	
	10248.00	22.26	19.72	10228.37	-177.89	-185.82	172.26	13.26	440844.36	731357.07	N 32 12 37.67 W 103 43 8.19	
	10341.00	31.78	20.46	10312.91	-136.80	-145.35	187.11	10.03	440884.83	731371.91	N 32 12 38.07 W 103 43 8.01	
	10435.00	43.52	13.52	10387.24	-81.25	-90.47	203.40	13.26	440939.70	731382.20	N 32 12 38.62 W 103 43 7.82	
	10530.00	53.08	10.51	10450.37	-11.35	-21.16	218.01	10.34	441009.01	731402.81	N 32 12 39.30 W 103 43 7.64	
	10624.00	57.16	8.09	10504.12	65.21	54.92	230.42	4.83	441085.09	731415.22	N 32 12 40.05 W 103 43 7.49	
	10719.00	61.98	359.10	10552.29	146.96	136.53	235.39	9.60	441166.69	731420.19	N 32 12 40.88 W 103 43 7.43	
	10814.00	66.27	354.98	10593.76	231.99	231.84	230.93	5.97	441252.00	731415.72	N 32 12 41.70 W 103 43 7.48	
	10907.00	73.35	351.05	10625.84	317.98	308.40	220.25	8.58	441336.55	731405.05	N 32 12 42.56 W 103 43 7.60	
	11002.00	78.33	353.43	10649.08	408.57	399.83	207.84	5.78	441429.78	731392.64	N 32 12 43.47 W 103 43 7.73	
	11097.00	81.61	355.43	10665.62	501.15	492.72	198.77	4.03	441522.87	731383.57	N 32 12 44.39 W 103 43 7.83	
	11192.00	86.56	3.68	10675.43	595.41	587.10	198.07	10.09	441617.24	731382.87	N 32 12 45.32 W 103 43 7.84	
	11286.00	87.45	7.82	10680.34	689.11	680.48	207.47	4.50	441710.62	731392.27	N 32 12 46.24 W 103 43 7.72	
	11378.00	88.56	4.98	10683.54	780.84	771.84	217.72	3.31	441801.97	731402.52	N 32 12 47.15 W 103 43 7.59	
	11472.00	88.38	1.97	10686.06	874.78	865.62	223.41	3.21	441895.75	731408.21	N 32 12 48.08 W 103 43 7.52	
	11567.00	88.21	1.05	10688.88	969.72	960.55	225.92	0.98	441990.67	731410.71	N 32 12 49.01 W 103 43 7.49	
	11662.00	87.87	359.49	10692.13	1064.59	1055.49	226.38	1.68	442085.60	731411.16	N 32 12 49.95 W 103 43 7.48	
	11756.00	87.69	359.80	10695.77	1158.40	1149.42	225.78	0.38	442179.53	731410.58	N 32 12 50.88 W 103 43 7.48	
	11850.00	88.28	0.54	10699.08	1252.25	1243.36	228.06	1.01	442273.46	731410.86	N 32 12 51.81 W 103 43 7.47	
	11944.00	88.66	2.23	10701.59	1346.20	1337.29	228.33	1.84	442367.39	731413.13	N 32 12 52.74 W 103 43 7.43	
	12133.00	89.72	1.99	10704.26	1535.17	1528.14	235.29	0.58	442556.23	731420.09	N 32 12 54.61 W 103 43 7.34	
	12322.00	90.72	2.30	10703.53	1724.16	1715.01	242.36	0.55	442745.09	731427.16	N 32 12 56.48 W 103 43 7.24	
	12416.00	90.72	2.60	10702.35	1818.15	1808.91	248.38	0.32	442838.99	731431.18	N 32 12 57.41 W 103 43 7.19	
	12511.00	90.28	2.27	10701.52	1913.15	1903.82	250.42	0.58	442933.89	731435.21	N 32 12 58.35 W 103 43 7.14	
	12700.00	90.83	6.81	10699.69	2101.98	2092.17	265.37	2.42	443122.23	731450.17	N 32 13 0.21 W 103 43 6.95	
	12794.00	91.48	4.32	10697.80	2195.82	2185.70	274.49	2.74	443215.76	731459.28	N 32 13 1.06 W 103 43 6.84	
	12888.00	93.65	357.24	10693.59	2289.62	2279.53	275.77	7.87	443309.58	731460.56	N 32 13 2.06 W 103 43 6.82	
	12982.00	90.96	353.45	10689.80	2382.77	2373.12	268.15	4.94	443403.17	731452.94	N 32 13 2.99 W 103 43 6.80	
	13077.00	88.07	353.98	10680.61	2476.62	2467.54	257.75	3.09	443497.58	731442.54	N 32 13 3.92 W 103 43 7.02	
	13172.00	89.11	357.89	10682.95	2570.92	2562.24	250.85	4.05	443592.28	731435.65	N 32 13 4.88 W 103 43 7.09	
	13266.00	89.14	357.63	10684.38	2664.58	2656.16	247.18	0.15	443686.19	731431.97	N 32 13 5.79 W 103 43 7.13	
	13361.00	88.83	357.65	10686.06	2759.22	2751.07	243.43	0.38	443781.09	731428.23	N 32 13 6.73 W 103 43 7.16	
	13456.00	89.28	357.76	10687.63	2853.87	2845.98	239.63	0.49	443876.00	731424.43	N 32 13 7.67 W 103 43 7.20	
	13550.00	88.97	356.53	10689.07	2947.43	2939.85	234.95	1.35	443969.87	731419.74	N 32 13 8.60 W 103 43 7.25	
	13644.00	89.52	357.95	10700.31	3041.01	3033.73	230.42	1.62	444063.74	731415.22	N 32 13 9.53 W 103 43 7.30	
	13739.00	89.86	356.22	10700.82	3135.72	3128.67	227.25	0.46	444158.68	731412.04	N 32 13 10.47 W 103 43 7.33	
	13834.00	89.69	355.14	10701.19	3230.21	3223.50	221.75	3.25	444253.50	731406.54	N 32 13 11.41 W 103 43 7.38	
	13929.00	90.07	356.57	10701.39	3324.55	3318.25	214.88	1.56	444348.25	731399.68	N 32 13 12.34 W 103 43 7.46	
	14023.00	89.97	357.14	10701.36	3418.08	3412.11	209.72	0.82	444442.10	731394.52	N 32 13 13.27 W 103 43 7.51	
	14118.00	89.97	358.66	10701.41	3512.78	3507.04	206.24	1.80	444537.03	731391.04	N 32 13 14.21 W 103 43 7.55	
	14213.00	90.48	355.79	10701.04	3607.34	3601.92	201.64	3.07	444631.90	731386.44	N 32 13 15.15 W 103 43 7.59	
	14308.00	90.17	359.56	10700.50	3701.97	3696.82	197.79	3.98	444726.60	731382.59	N 32 13 16.09 W 103 43 7.63	
	14403.00	89.72	359.93	10700.59	3796.86	3791.82	197.37	0.81	444821.79	731382.17	N 32 13 17.03 W 103 43 7.63	
	14497.00	90.24	2.26	10700.62	3890.82	3885.80	199.16	2.54	444915.77	731383.96	N 32 13 17.96 W 103 43 7.60	
	14592.00	90.00	0.39	10700.42	3985.79	3980.77	201.36	1.98	445010.73	731386.16	N 32 13 18.90 W 103 43 7.57	
	14687.00	89.83	0.85	10700.56	4080.74	4075.78	202.39	0.52	445105.72	731387.19	N 32 13 19.84 W 103 43 7.55	
	14782.00	90.14	1.13	10700.59	4175.70	4170.75	204.03	0.44	445200.70	731388.83	N 32 13 20.78 W 103 43 7.53	
	14878.00	89.69	359.77	10700.73	4269.63	4264.74	204.77	1.52	445294.69	731389.57	N 32 13 21.71 W 103 43 7.51	
	14971.00	90.17	2.52	10700.84	4364.59	4359.71	206.66	2.94	445389.66	731391.46	N 32 13 22.65 W 103 43 7.48	
	15066.00	89.93	1.42	10700.76	4459.59	4454.65	209.93	1.19	445484.59	731394.73	N 32 13 23.59 W 103 43 7.44	
	15161.00	89.97	1.58	10700.84	4554.57	4549.62	212.42	0.17	445579.56	731397.22	N 32 13 24.53 W 103 43 7.40	
	15256.00	90.03	1.54	10700.84	4649.56	4644.59	215.00	0.08	445674.52	731399.80	N 32 13 25.47 W 103 43 7.37	
	15350.00	90.17	359.64	10700.68	4743.50	4738.58	215.97	2.03	445768.50	731400.77	N 32 13 26.40 W 103 43 7.35	
	15445.00	90.07	1.92	10700.48	4838.44	4833.56	217.26	2.40	445863.48	731402.06	N 32 13 27.34 W 103 43 7.33	
Final MWD	15511.00	90.31	1.81	10700.26	4904.44	4899.53	219.41	0.40	445929.44	731404.21	N 32 13 27.99 W 103 43 7.30	
Survey	15556.00	90.31	1.81	10700.02	4949.43	4944.50	220.83	0.00	445974.42	731405.63	N 32 13 28.44 W 103 43 7.28	
Proj. to Bit												

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7855 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
Assumed Vertical From RKB to Ground	1	0.000	28.500	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Mesa Verde BS Unit 14H - Gyro + MWD 0-15.556'
Assumed Vertical From RKB to Ground	1	28.500	28.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Mesa Verde BS Unit 14H - Gyro + MWD 0-15.556'
	1	28.500	975.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Mesa Verde BS Unit 14H - Gyro + MWD 0-15.556'
	1	975.500	15556.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Mesa Verde BS Unit 14H - Gyro + MWD 0-15.556'

...Oxy Mesa Verde BS Unit 14H\Original Borehole\Oxy Mesa Verde BS Unit 14H - Gyro + MWD 0-15.556'