

Sandridge Energy

Britt 3406 3-20H (Final)

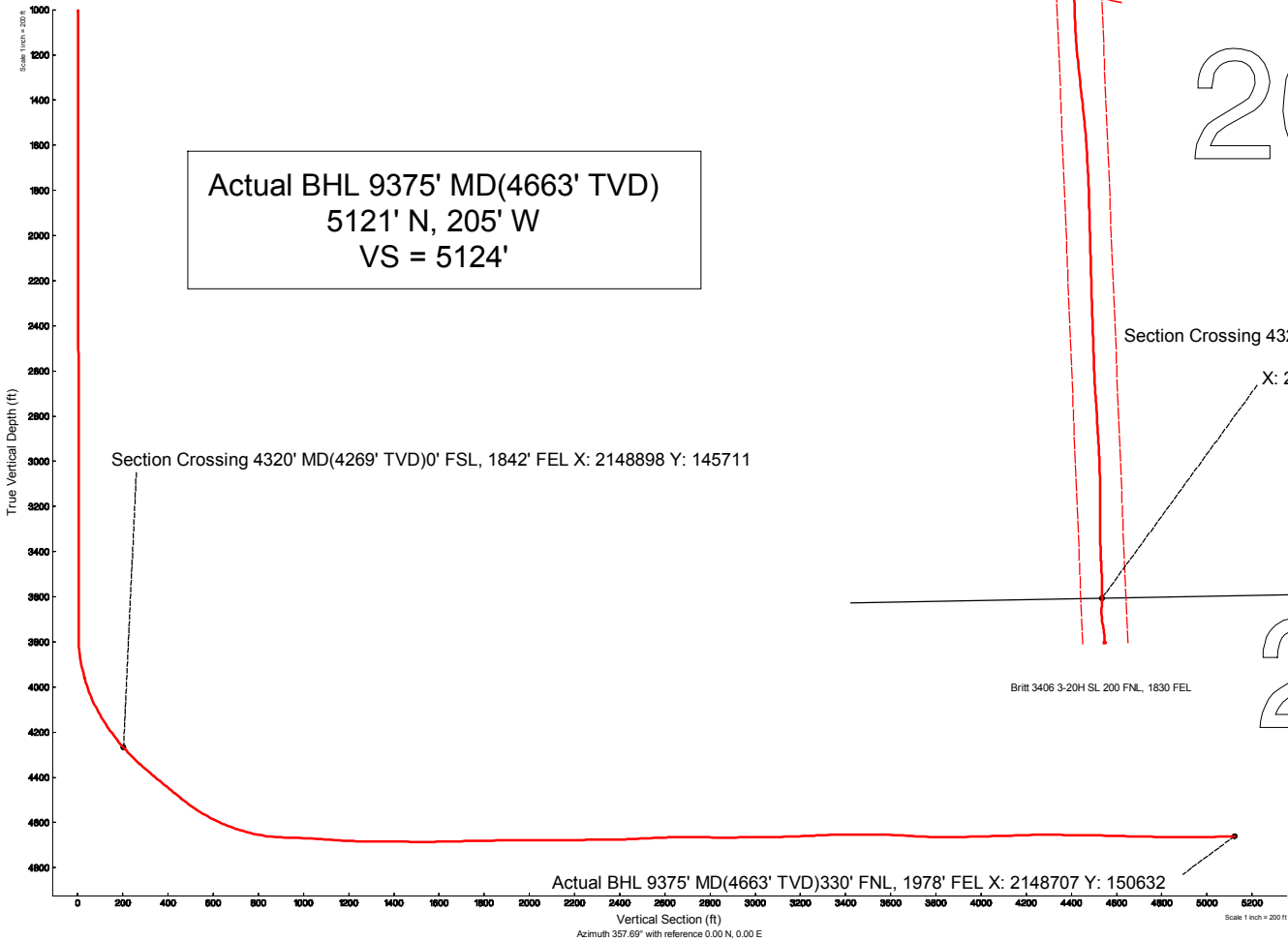
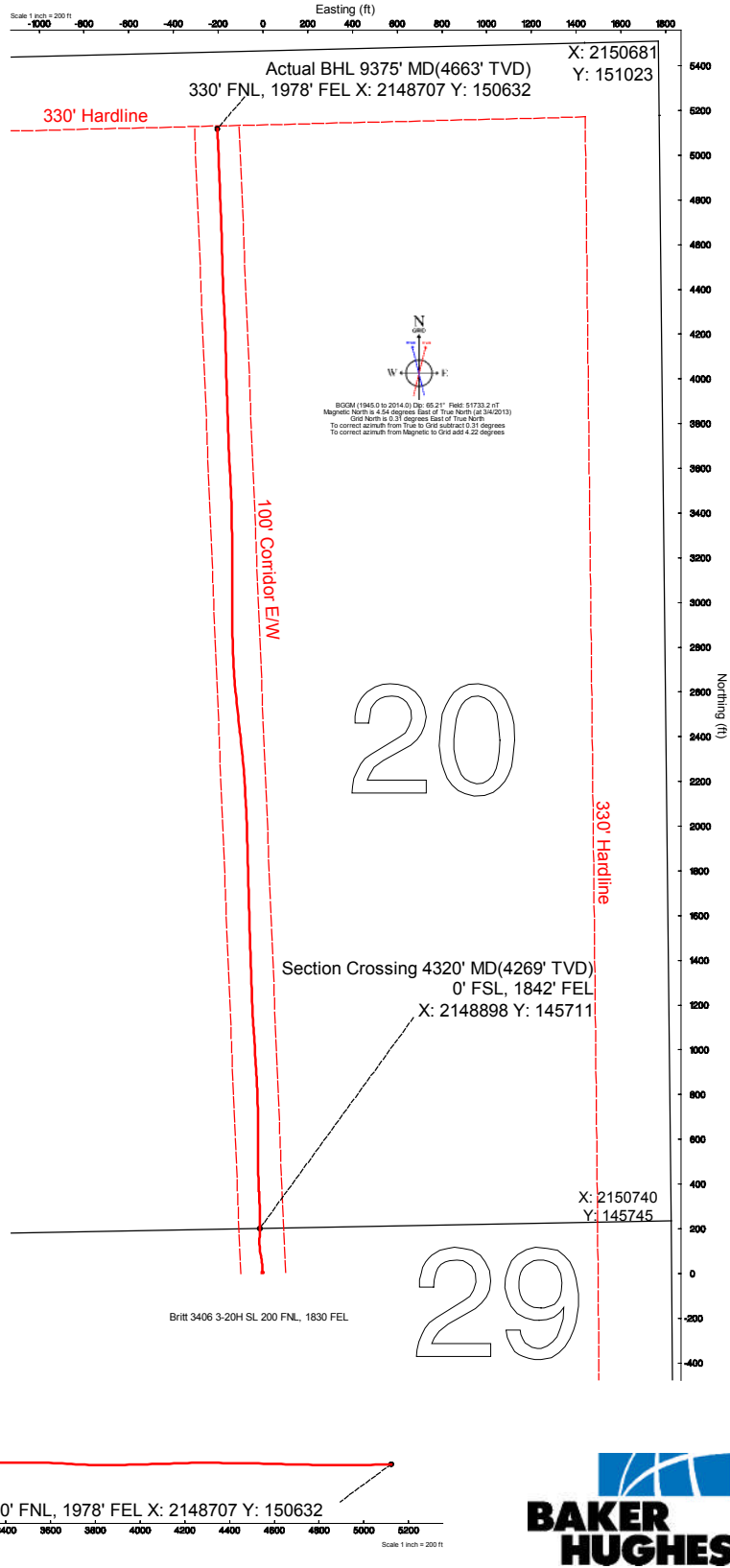
Britt 3406 3-20H SL 200 FNL, 1830 FEL

Harper County, Kansas (Sandridge Energy) NAD27 / Grid

Pit reference wellpath is Plan 1	
True vertical depths are referenced to Latshaw 38 (KB)	Grid System: NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet
Measured depths are referenced to Latshaw 38 (KB)	North Reference: Grid north
Latshaw 38 (KB) to Mean Sea Level: 1328 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Britt 3406 3-20H SL 200 FNL, 1830 FEL): -1305 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: broomart on 3/5/2013

Location Information

Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Britt 3406 3-20H Sec. 29-34S-6W		2148912.000	145511.000	37°03'54.614"N	97°59'22.853"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Britt 3406 3-20H SL 200 FNL, 1830 FEL	0.00	0.00	2148912.000	145511.000	37°03'54.614"N	97°59'22.853"W
Latshaw 38 (KB) to Mud line (At Slot: Britt 3406 3-20H SL 200 FNL, 1830 FEL)				23ft		
Mean Sea Level to Mud line (At Slot: Britt 3406 3-20H SL 200 FNL, 1830 FEL)				-1305ft		
Latshaw 38 (KB) to Mean Sea Level				1328ft		



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Britt 3406 3-20H SL 200 FNL, 1830 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Britt 3406 3-20H Actual
Facility	Britt 3406 3-20H Sec. 29-34S-6W		

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet		
North Reference	Grid	Software System	WellArchitect 3.0.0
Convergence at slot	0.31° East	User	Broomarl
Scale	1.00005	Report Generated	3/27/2013 at 2:43:30 PM
Wellbore last revised	03-04-2013	Database/Source file	WA_OklahomaCity

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	2148912.00	145511.00	37°03'54.614"N	97°59'22.853"W
Facility Reference Pt			2148912.00	145511.00	37°03'54.614"N	97°59'22.853"W
Field Reference Pt			2132248.82	161602.28	37°06'34.560"N	98°02'47.460"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Latshaw 38 (KB) to Facility Vertical Datum	23.00ft
Horizontal Reference Pt	Slot	Latshaw 38 (KB) to Mean Sea Level	1328.00ft
Vertical Reference Pt	Latshaw 38 (KB)	Latshaw 38 (KB) to Mud Line at Slot (Britt 3406 3-20H SL 200 FNL, 1830 FEL)	23.00ft
MD Reference Pt	Latshaw 38 (KB)	Section Origin	N 0.00, E 0.00 f
Field Vertical Reference	Mean Sea Level	Section Azimuth	357.69°

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Facility	Britt 3406 3-20H Sec. 29-34S-6W			

WELLPATH DATA (105 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Log Comment
0.00	0.000	261.450	0.00	0.00	0.00	0.00	2148912.00	145511.00	0.00	
23.00	0.000	261.450	23.00	0.00	0.00	0.00	2148912.00	145511.00	0.00	
260.00	0.600	261.450	260.00	-0.13	-0.18	-1.23	2148910.77	145510.82	0.25	
517.00	0.300	261.450	516.99	-0.35	-0.48	-3.22	2148908.78	145510.52	0.12	
698.00	0.600	261.450	697.98	-0.51	-0.70	-4.63	2148907.37	145510.30	0.17	
785.00	0.470	261.450	784.98	-0.60	-0.82	-5.43	2148906.57	145510.18	0.15	
909.00	0.150	130.500	908.98	-0.76	-1.00	-5.81	2148906.19	145510.00	0.47	
1406.00	0.100	51.290	1405.98	-0.95	-1.15	-4.98	2148907.02	145509.85	0.03	
1877.00	0.120	288.930	1876.98	-0.52	-0.73	-5.12	2148906.88	145510.27	0.04	
2352.00	0.090	23.660	2351.97	-0.01	-0.23	-5.45	2148906.55	145510.77	0.03	
2797.00	0.440	10.710	2796.97	1.97	1.77	-4.99	2148907.01	145512.77	0.08	
3270.00	0.480	116.410	3269.96	2.79	2.67	-2.88	2148909.12	145513.67	0.16	
3748.00	0.280	209.450	3747.95	0.83	0.77	-1.66	2148910.34	145511.77	0.12	
3775.00	0.150	330.030	3774.95	0.81	0.74	-1.71	2148910.29	145511.74	1.40	
3806.00	2.220	355.060	3805.94	1.44	1.37	-1.78	2148910.22	145512.37	6.73	
3838.00	5.650	357.320	3837.86	3.64	3.56	-1.91	2148910.09	145514.56	10.73	
3870.00	8.490	357.920	3869.62	7.58	7.50	-2.06	2148909.93	145518.50	8.88	
3902.00	11.570	357.960	3901.13	13.15	13.07	-2.26	2148909.73	145524.07	9.63	
3933.00	14.250	355.820	3931.34	20.07	19.98	-2.65	2148909.35	145530.98	8.78	
3964.00	15.570	354.070	3961.29	28.04	27.93	-3.36	2148908.64	145538.93	4.50	
3995.00	17.260	353.660	3991.03	36.78	36.63	-4.30	2148907.70	145547.64	5.46	
4027.00	20.140	352.750	4021.34	47.00	46.82	-5.52	2148906.48	145557.82	9.05	
4059.00	23.230	351.990	4051.07	58.78	58.54	-7.09	2148904.91	145569.54	9.70	
4090.00	26.340	350.050	4079.21	71.68	71.37	-9.13	2148902.86	145582.37	10.37	
4122.00	28.790	349.850	4107.58	86.35	85.95	-11.72	2148900.28	145596.95	7.66	
4153.00	31.430	353.040	4134.39	101.81	101.32	-14.02	2148897.98	145612.33	9.96	
4185.00	33.150	356.550	4161.45	118.87	118.34	-15.55	2148896.45	145629.35	7.95	
4217.00	34.490	359.540	4188.03	136.68	136.14	-16.15	2148895.85	145647.14	6.68	
4248.00	36.670	1.710	4213.24	154.69	154.17	-15.95	2148896.05	145665.18	8.13	
4281.00	39.090	2.350	4239.29	174.89	174.42	-15.23	2148896.77	145685.42	7.43	
4312.00	41.190	1.890	4262.99	194.81	194.39	-14.49	2148897.51	145705.39	6.84	
4320.00	41.594	1.670	4268.99	200.09	199.67	-14.32	2148897.68	145710.68	5.37	Section Crossing 4320' MD(4269' TVD)0' FSL, 1842' FEL X: 2148898 Y:
4344.00	42.810	1.030	4286.77	216.18	215.79	-13.95	2148898.05	145726.80	5.37	
4375.00	44.710	0.340	4309.16	237.59	237.23	-13.69	2148898.31	145748.24	6.32	
4407.00	46.730	358.790	4331.50	260.48	260.13	-13.87	2148898.13	145771.15	7.20	
4425.00	48.190	357.660	4343.67	273.74	273.39	-14.28	2148897.72	145784.40	9.34	
4502.00	50.280	357.130	4393.94	332.06	331.65	-16.94	2148895.06	145842.66	2.76	
4547.00	50.440	357.540	4422.65	366.71	366.26	-18.55	2148893.45	145877.28	0.79	
4597.00	50.310	357.550	4454.54	405.22	404.74	-20.20	2148891.80	145915.75	0.26	
4625.00	50.330	357.870	4472.42	426.77	426.27	-21.06	2148890.94	145937.29	0.88	
4660.00	50.850	358.670	4494.64	453.81	453.30	-21.88	2148890.12	145964.32	2.31	
4692.00	53.190	359.410	4514.33	479.03	478.52	-22.30	2148889.70	145989.54	7.54	
4723.00	55.330	359.920	4532.43	504.17	503.68	-22.44	2148889.56	146014.70	7.03	
4755.00	57.370	0.480	4550.16	530.78	530.31	-22.35	2148889.65	146041.34	6.54	
4786.00	60.420	0.370	4566.18	557.29	556.85	-22.15	2148889.85	146067.88	9.84	

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Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Britt 3406 3-20H Actual
Facility	Britt 3406 3-20H Sec. 29-34S-6W		

WELLPATH DATA (105 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Log Comment
4818.00	62.680	0.260	4581.42	585.40	584.98	-22.00	2148890.00	146096.01	7.07	
4849.00	64.890	359.530	4595.11	613.18	612.79	-22.05	2148889.95	146123.82	7.44	
4881.00	66.890	359.370	4608.18	642.38	642.00	-22.33	2148889.67	146153.03	6.27	
4912.00	68.870	359.190	4619.86	671.08	670.71	-22.69	2148889.31	146181.74	6.41	
4944.00	71.240	359.030	4630.77	701.15	700.79	-23.16	2148888.84	146211.82	7.42	
4976.00	73.880	358.710	4640.36	731.67	731.31	-23.76	2148888.24	146242.34	8.30	
5007.00	75.920	358.330	4648.44	761.60	761.23	-24.53	2148887.47	146272.26	6.69	
5039.00	78.430	358.200	4655.54	792.79	792.41	-25.48	2148886.52	146303.45	7.85	
5071.00	81.300	357.810	4661.17	824.29	823.89	-26.58	2148885.42	146334.93	9.05	
5102.00	84.050	357.300	4665.12	855.04	854.61	-27.89	2148884.11	146365.64	9.02	
5134.00	87.320	356.570	4667.53	886.94	886.47	-29.59	2148882.41	146397.50	10.47	
5197.00	88.520	356.100	4669.82	949.88	949.29	-33.62	2148878.38	146460.34	2.05	
5260.00	86.730	356.790	4672.43	1012.81	1012.12	-37.52	2148874.48	146523.16	3.04	
5305.00	86.550	356.510	4675.06	1057.72	1056.96	-40.15	2148871.85	146568.01	0.74	
5355.00	86.610	356.190	4678.05	1107.62	1106.77	-43.32	2148868.67	146617.82	0.65	
5400.00	86.580	356.700	4680.72	1152.53	1151.60	-46.11	2148865.89	146662.66	1.13	
5464.00	87.010	358.060	4684.30	1216.42	1215.44	-49.03	2148862.97	146726.49	2.23	
5554.00	89.850	357.890	4686.76	1306.38	1305.34	-52.21	2148859.79	146816.39	3.16	
5649.00	89.750	357.930	4687.10	1401.38	1400.27	-55.67	2148856.32	146911.33	0.11	
5744.00	89.380	358.420	4687.82	1496.37	1495.22	-58.70	2148853.30	147006.29	0.65	
5840.00	91.290	358.170	4687.26	1592.36	1591.17	-61.55	2148850.44	147102.24	2.01	
5932.00	91.330	358.520	4685.15	1684.33	1683.11	-64.21	2148847.79	147194.18	0.38	
6024.00	91.140	358.420	4683.17	1776.30	1775.06	-66.67	2148845.33	147286.13	0.23	
6117.00	90.430	358.510	4681.90	1869.28	1868.01	-69.16	2148842.84	147379.10	0.77	
6208.00	90.920	358.640	4680.82	1960.27	1958.98	-71.42	2148840.58	147470.06	0.56	
6301.00	90.120	357.430	4679.98	2053.26	2051.92	-74.61	2148837.39	147563.01	1.56	
6393.00	88.710	356.120	4680.92	2145.24	2143.76	-79.78	2148832.21	147654.86	2.09	
6486.00	92.920	356.580	4679.60	2238.18	2236.54	-85.70	2148826.29	147747.64	4.55	
6577.00	89.350	353.530	4677.79	2329.04	2327.16	-93.54	2148818.45	147838.26	5.16	
6670.00	92.150	353.800	4676.58	2421.79	2419.58	-103.80	2148808.19	147930.68	3.02	
6762.00	92.560	353.860	4672.80	2513.51	2510.97	-113.68	2148798.31	148022.08	0.45	
6854.00	92.830	353.850	4668.47	2605.20	2602.34	-123.52	2148788.47	148113.45	0.29	
6946.00	89.510	356.870	4666.59	2697.08	2693.99	-130.96	2148781.04	148205.11	4.88	
7038.00	88.710	357.830	4668.02	2789.07	2785.88	-135.21	2148776.78	148297.00	1.36	
7131.00	90.490	359.730	4668.67	2882.04	2878.85	-137.19	2148774.80	148389.98	2.80	
7223.00	90.340	359.640	4668.00	2973.98	2970.85	-137.70	2148774.30	148481.98	0.19	
7318.00	90.920	359.630	4666.96	3068.92	3065.84	-138.30	2148773.69	148576.97	0.61	
7413.00	91.910	359.920	4664.61	3163.83	3160.81	-138.68	2148773.32	148671.95	1.09	
7508.00	93.270	359.810	4660.32	3258.66	3255.71	-138.90	2148773.09	148766.85	1.44	
7603.00	91.410	358.790	4656.44	3353.54	3350.62	-140.06	2148771.93	148861.76	2.23	
7698.00	89.870	358.820	4655.38	3448.51	3445.59	-142.04	2148769.95	148956.74	1.62	
7792.00	89.320	356.590	4656.04	3542.50	3539.50	-145.80	2148766.19	149050.66	2.44	
7887.00	87.040	356.990	4659.06	3637.44	3634.30	-151.12	2148760.87	149145.46	2.44	
7982.00	86.860	358.040	4664.12	3732.30	3729.07	-155.23	2148756.76	149240.24	1.12	
8077.00	88.890	358.230	4667.64	3827.23	3823.95	-158.32	2148753.67	149335.12	2.15	

Actual Wellpath Report

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Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Britt 3406 3-20H Actual
Facility	Britt 3406 3-20H Sec. 29-34S-6W		

WELLPATH DATA (105 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Log Comment
8172.00	92.280	358.110	4666.67	3922.21	3918.89	-161.36	2148750.64	149430.06	3.57	
8266.00	91.420	358.030	4663.63	4016.15	4012.78	-164.52	2148747.47	149523.96	0.92	
8361.00	91.880	359.030	4660.90	4111.10	4107.71	-166.96	2148745.04	149618.89	1.16	
8455.00	92.000	358.220	4657.72	4205.03	4201.63	-169.21	2148742.78	149712.81	0.87	
8550.00	89.480	356.880	4656.49	4300.02	4296.52	-173.27	2148738.72	149807.71	3.00	
8645.00	88.210	357.170	4658.40	4394.99	4391.38	-178.20	2148733.79	149902.57	1.37	
8740.00	90.190	358.770	4659.73	4489.97	4486.30	-181.57	2148730.43	149997.49	2.68	
8835.00	88.280	358.480	4661.00	4584.95	4581.26	-183.84	2148728.15	150092.46	2.03	
8930.00	88.240	357.880	4663.88	4679.90	4676.17	-186.86	2148725.13	150187.37	0.63	
9023.00	89.630	357.710	4665.61	4772.88	4769.08	-190.44	2148721.55	150280.29	1.51	
9118.00	89.510	357.920	4666.33	4867.88	4864.01	-194.06	2148717.93	150375.22	0.25	
9213.00	90.000	357.580	4666.73	4962.87	4958.93	-197.79	2148714.20	150470.15	0.63	
9307.00	91.810	357.550	4665.25	5056.86	5052.83	-201.78	2148710.21	150564.05	1.93	
9332.00	91.780	357.150	4664.46	5081.85	5077.79	-202.94	2148709.05	150589.01	1.60	
9375.00	91.780	357.150	4663.13	5124.82	5120.72	-205.08	2148706.92	150631.94	0.00	Actual BHL 9375' MD(4663' TVD)330' FNL, 1978' FEL X: 2148707 Y

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
BHL 330' FNL, 1980 FEL		4637.83	5126.78	-206.99	2148705.00	150638.00	37°04'45.316"N	97°59'25.061"W	point

WELLPATH COMPOSITION - Ref Wellbore: Britt 3406 3-20H Actual Ref Wellpath: AWP - Final				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
23.00	9332.00	NaviTrak (Standard)	INTEQ MWD Surveys	Britt 3406 3-20H Actual
9332.00	9375.00	Blind Drilling (std)	Projection to bit	Britt 3406 3-20H Actual