

Sandridge Energy

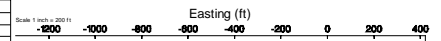
Sean 3119 3-18H SL 225FNL, 1980FEL (Final)

Sean 3119 3-18H SL 225FNL, 1980FEL

Comanche County, Kansas (Sandridge Energy) NAD27 / Grid

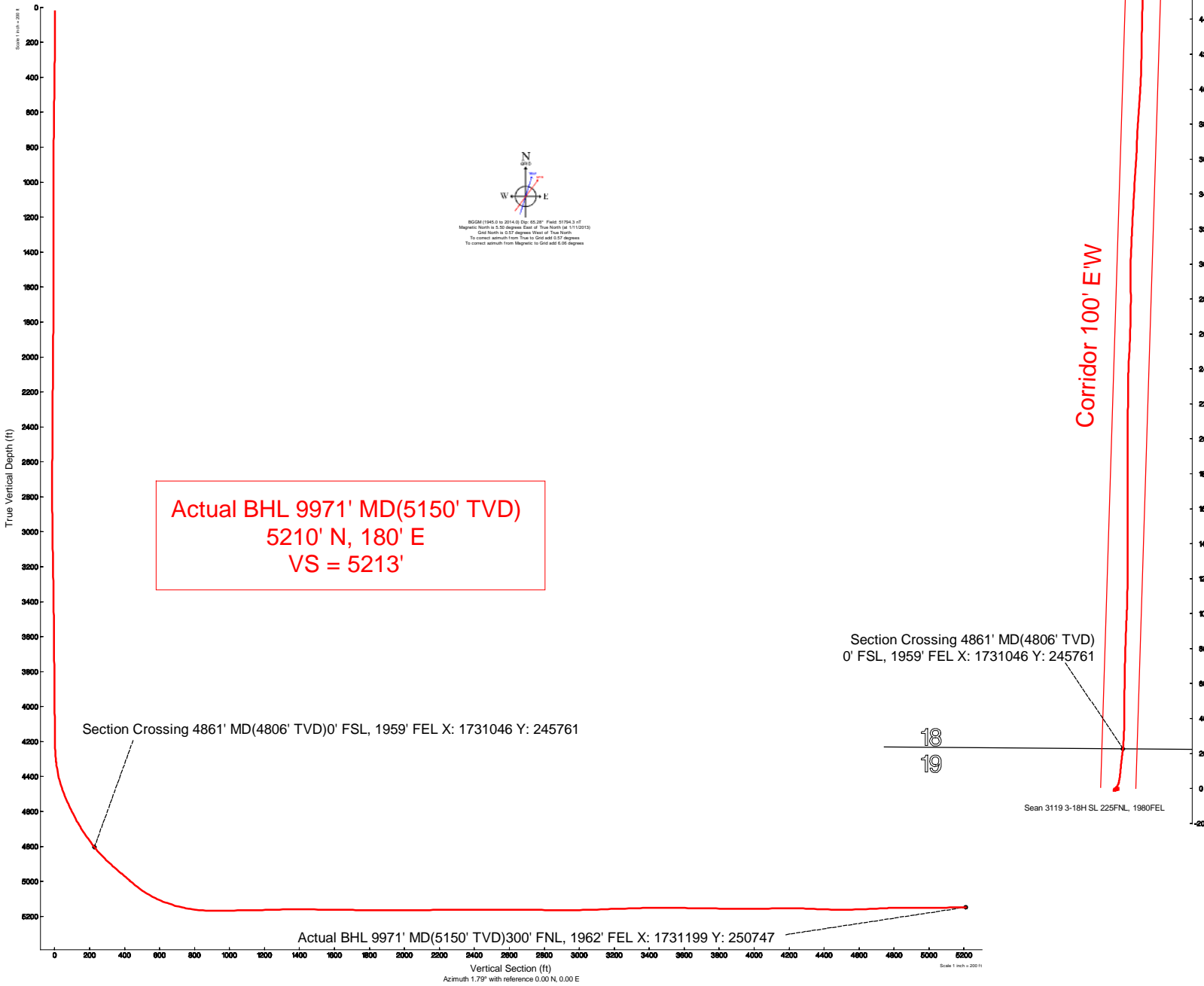


Plot reference w ellipsoid is Plan 1		Grid System: NAD27 / Lambert Kansas SP, Southern Zone (1502), US Feet	
True vertical depths are referenced to Lariat 38 (KB)		North Reference: Grid north	
Measured depths are referenced to Lariat 38 (KB)		Scale: True distance	
Lariat 38 (KB) to Mean Sea Level: 2150 feet		Depths are in feet	
Mean Sea Level to Mud line (At Slot: Sean 3119 3-18H SL 225FNL, 1980FEL): -2136 feet		Created by: deformation on 1/11/2013	
Coordinates are in feet referenced to Slot			
Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude
Sean 3119 3-18H Sec 19-31S-19W	1731019.000	245537.000	37°20'14.422"N
Slot	Local E (ft)	Local N (ft)	Longitude
Sean 3119 3-18H SL 225FNL, 1980FEL	0.00	0.00	99°25'30.624"W
Lariat 38 (KB) to Mud line (At Slot: Sean 3119 3-18H SL 225FNL, 1980FEL)			20R
Mean Sea Level to Mud line (At Slot: Sean 3119 3-18H SL 225FNL, 1980FEL)			-2136R
Lariat 38 (KB) to Mean Sea Level			2156R



300' FNL

Actual BHL 9971' MD(5150' TVD)
300' FNL, 1962' FEL X: 1731199 Y: 250747



Actual BHL 9971' MD(5150' TVD)
5210' N, 180' E
VS = 5213'

Corridor 100' EW

Section Crossing 4861' MD(4806' TVD)
0' FSL, 1959' FEL X: 1731046 Y: 245761

Section Crossing 4861' MD(4806' TVD) 0' FSL, 1959' FEL X: 1731046 Y: 245761

Actual BHL 9971' MD(5150' TVD) 300' FNL, 1962' FEL X: 1731199 Y: 250747

18
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Sean 3119 3-18H SL 225FNL, 1980FEL

Azimuth 1.79° with reference 0.00 N, 0.00 E

Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Sean 3119 3-18H SL 225FNL, 1980FEL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Sean 3119 3-18H AWB
Facility	Sean 3119 3-18H Sec 19-31S-19W		

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	0.57° West	User	Broomarl
Scale	0.999987	Report Generated	2/12/2013 at 9:49:57 AM
Wellbore last revised	01-11-2013	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	1731019.00	245537.00	37°20'14.422"N	99°25'30.624"W
Facility Reference Pt			1731019.00	245537.00	37°20'14.422"N	99°25'30.624"W
Field Reference Pt			1773194.47	191302.75	37°11'22.030"N	99°16'42.810"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Lariat 38 (KB) to Facility Vertical Datum	20.00ft
Horizontal Reference Pt	Slot	Lariat 38 (KB) to Mean Sea Level	2156.00ft
Vertical Reference Pt	Lariat 38 (KB)	Lariat 38 (KB) to Mud Line at Slot (Sean 3119 3-18H SL 225FNL, 1980FEL)	20.00ft
MD Reference Pt	Lariat 38 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	1.79°

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Sean 3119 3-18H SL 225FNL, 1980FEL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Sean 3119 3-18H AWB
Facility	Sean 3119 3-18H Sec 19-31S-19W		

WELLPATH DATA (109 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	177.460	0.00	0.00	0.00	0.00	1731019.00	245537.00	0.00	
20.00	0.000	177.460	20.00	0.00	0.00	0.00	1731019.00	245537.00	0.00	
250.00	0.800	177.460	249.99	-1.60	-1.60	0.07	1731019.07	245535.40	0.35	
490.00	0.700	177.460	489.97	-4.73	-4.74	0.21	1731019.21	245532.26	0.04	
769.00	0.700	177.460	768.95	-8.13	-8.15	0.36	1731019.36	245528.85	0.00	
1036.00	0.150	177.460	1035.94	-10.11	-10.13	0.45	1731019.45	245526.87	0.21	
1250.00	0.870	303.980	1249.94	-9.52	-9.50	-0.89	1731018.11	245527.50	0.45	
1722.00	0.870	241.520	1721.89	-9.42	-9.20	-7.01	1731011.99	245527.80	0.19	
2197.00	1.160	244.430	2196.82	-13.45	-13.00	-14.51	1731004.49	245524.00	0.06	
2672.00	1.060	261.210	2671.73	-16.46	-15.75	-23.19	1730995.81	245521.25	0.07	
3147.00	1.080	15.120	3146.68	-12.91	-12.10	-26.37	1730992.63	245524.91	0.38	
3622.00	1.010	60.630	3621.61	-6.39	-5.72	-21.55	1730997.45	245531.28	0.17	
4097.00	1.020	57.250	4096.54	-1.83	-1.38	-14.35	1731004.65	245535.62	0.01	
4191.00	1.210	37.590	4190.52	-0.55	-0.14	-13.04	1731005.96	245536.86	0.45	
4223.00	1.140	43.940	4222.51	-0.04	0.36	-12.61	1731006.39	245537.36	0.46	
4254.00	2.550	30.590	4253.50	0.79	1.17	-12.05	1731006.95	245538.17	4.72	
4286.00	5.080	30.570	4285.42	2.66	3.00	-10.96	1731008.04	245540.00	7.91	
4318.00	7.950	34.600	4317.21	5.76	6.05	-8.99	1731010.01	245543.05	9.08	
4349.00	10.410	32.320	4347.81	9.98	10.18	-6.27	1731012.73	245547.18	8.02	
4381.00	12.650	29.000	4379.17	15.59	15.69	-3.03	1731015.97	245552.69	7.30	
4413.00	14.550	23.030	4410.27	22.45	22.45	0.25	1731019.25	245559.45	7.37	
4444.00	16.510	16.110	4440.14	30.35	30.27	2.99	1731021.99	245567.27	8.69	
4476.00	18.800	10.990	4470.63	39.85	39.70	5.24	1731024.24	245576.70	8.64	
4508.00	21.490	8.420	4500.67	50.76	50.56	7.08	1731026.08	245587.56	8.85	
4539.00	23.630	7.560	4529.30	62.58	62.34	8.73	1731027.73	245599.34	6.98	
4571.00	24.520	7.240	4558.51	75.57	75.29	10.41	1731029.41	245612.28	2.81	
4603.00	25.350	5.940	4587.53	89.02	88.69	11.95	1731030.95	245625.69	3.11	
4634.00	26.690	5.180	4615.39	102.59	102.22	13.27	1731032.27	245639.22	4.45	
4666.00	28.320	4.890	4643.77	117.34	116.94	14.57	1731033.57	245653.94	5.11	
4698.00	30.210	5.740	4671.69	132.95	132.52	16.02	1731035.02	245669.52	6.05	
4729.00	32.040	6.770	4698.22	148.93	148.44	17.77	1731036.77	245685.44	6.15	
4761.00	33.330	6.970	4725.15	166.14	165.60	19.83	1731038.83	245702.60	4.05	
4793.00	35.320	7.020	4751.58	184.11	183.51	22.03	1731041.03	245720.51	6.22	
4824.00	37.080	6.710	4776.59	202.34	201.69	24.22	1731043.22	245738.68	5.71	
4856.00	38.500	6.090	4801.88	221.89	221.17	26.40	1731045.40	245758.17	4.59	
4861.00	38.782	5.942	4805.79	225.00	224.28	26.73	1731045.73	245761.27	5.94	Section Crossing 4861' MD(4806' TVD)0' FSL, 1959' FEL X: 1731046 Y: 245761.27
4888.00	40.310	5.170	4826.61	242.16	241.39	28.39	1731047.39	245778.38	5.94	
4919.00	42.820	4.120	4849.80	262.70	261.88	30.05	1731049.05	245798.88	8.40	
4951.00	45.370	3.450	4872.78	284.95	284.10	31.52	1731050.52	245821.10	8.10	
4982.00	47.880	2.120	4894.07	307.48	306.61	32.61	1731051.61	245843.60	8.68	
5014.00	48.710	1.350	4915.36	331.37	330.48	33.33	1731052.33	245867.48	3.16	
5046.00	49.140	0.830	4936.38	355.49	354.60	33.79	1731052.79	245891.60	1.82	
5078.00	49.250	0.680	4957.30	379.70	378.82	34.11	1731053.11	245915.82	0.49	
5109.00	49.640	0.230	4977.45	403.25	402.38	34.30	1731053.30	245939.37	1.67	
5141.00	49.690	0.460	4998.16	427.64	426.77	34.44	1731053.44	245963.76	0.57	

Actual Wellpath Report

Sandridge Sean 3119 3-18H_Final Surveys.

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REFERENCE WELLPATH IDENTIFICATION				
Operator	Sandridge Energy		Slot	Sean 3119 3-18H SL 225FNL, 1980FEL
Area	Kansas		Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid		Wellbore	Sean 3119 3-18H AWB
Facility	Sean 3119 3-18H Sec 19-31S-19W			

WELLPATH DATA (109 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
5173.00	50.080	0.290	5018.78	452.10	451.24	34.60	1731053.60	245988.23	1.28	
5204.00	52.820	0.140	5038.10	476.33	475.48	34.69	1731053.69	246012.47	8.85	
5236.00	55.960	0.450	5056.73	502.34	501.49	34.83	1731053.83	246038.49	9.84	
5268.00	59.010	0.980	5073.93	529.31	528.47	35.17	1731054.17	246065.46	9.63	
5299.00	62.130	1.430	5089.16	556.31	555.46	35.74	1731054.74	246092.45	10.14	
5331.00	64.950	1.800	5103.42	584.95	584.10	36.55	1731055.55	246121.09	8.87	
5363.00	67.830	0.790	5116.23	614.27	613.41	37.21	1731056.21	246150.40	9.45	
5394.00	70.740	0.900	5127.19	643.26	642.40	37.63	1731056.63	246179.39	9.39	
5426.00	73.150	0.130	5137.11	673.67	672.82	37.91	1731056.91	246209.81	7.87	
5455.00	75.380	1.080	5144.98	701.58	700.73	38.20	1731057.20	246237.71	8.31	
5495.00	78.000	1.490	5154.18	740.50	739.64	39.08	1731058.07	246276.63	6.63	
5526.00	80.600	1.910	5159.94	770.96	770.08	39.98	1731058.98	246307.07	8.49	
5558.00	83.210	2.310	5164.44	802.63	801.74	41.15	1731060.15	246338.73	8.25	
5588.00	85.810	1.720	5167.31	832.49	831.58	42.20	1731061.20	246368.57	8.88	
5619.00	87.940	1.790	5169.00	863.45	862.52	43.14	1731062.14	246399.51	6.87	
5711.00	90.830	2.630	5169.99	955.43	954.43	46.69	1731065.69	246491.42	3.27	
5772.00	91.330	2.590	5168.84	1016.41	1015.36	49.47	1731068.47	246552.34	0.82	
5834.00	90.770	1.100	5167.71	1078.40	1077.32	51.46	1731070.46	246614.30	2.57	
5925.00	91.050	0.990	5166.26	1169.38	1168.29	53.12	1731072.12	246705.27	0.33	
6017.00	91.660	0.440	5164.09	1261.34	1260.25	54.27	1731073.27	246797.24	0.89	
6109.00	90.590	359.380	5162.28	1353.27	1352.23	54.13	1731073.13	246889.21	1.64	
6201.00	89.170	0.280	5162.47	1445.21	1444.23	53.85	1731072.85	246981.21	1.83	
6293.00	89.510	359.270	5163.53	1537.14	1536.22	53.49	1731072.49	247073.20	1.16	
6385.00	89.080	0.720	5164.66	1629.09	1628.21	53.48	1731072.48	247165.19	1.64	
6477.00	89.200	0.670	5166.04	1721.06	1720.20	54.60	1731073.60	247257.17	0.14	
6569.00	88.710	359.320	5167.72	1813.00	1812.18	54.59	1731073.59	247349.15	1.56	
6661.00	90.460	0.390	5168.39	1904.94	1904.17	54.36	1731073.36	247441.14	2.23	
6753.00	90.860	359.090	5167.33	1996.87	1996.16	53.94	1731072.94	247533.13	1.48	
6845.00	90.400	0.790	5166.32	2088.81	2088.15	53.85	1731072.84	247625.12	1.91	
6940.00	90.710	1.260	5165.40	2183.80	2183.13	55.55	1731074.54	247720.10	0.59	
7035.00	89.910	0.030	5164.88	2278.78	2278.12	56.61	1731075.61	247815.09	1.54	
7130.00	90.150	1.580	5164.83	2373.76	2373.11	57.95	1731076.95	247910.07	1.65	
7225.00	89.920	3.320	5164.78	2468.75	2468.02	62.01	1731081.01	248004.98	1.85	
7320.00	90.060	2.540	5164.79	2563.73	2562.89	66.87	1731085.86	248099.85	0.83	
7415.00	89.720	0.960	5164.97	2658.73	2657.85	69.77	1731088.77	248194.81	1.70	
7510.00	89.660	1.270	5165.49	2753.72	2752.83	71.62	1731090.61	248289.78	0.33	
7605.00	88.680	358.570	5166.86	2848.65	2847.81	71.48	1731090.48	248384.76	3.02	
7630.00	89.170	359.010	5167.33	2873.61	2872.80	70.96	1731089.95	248409.75	2.63	
7725.00	91.320	0.640	5166.93	2968.54	2967.79	70.67	1731089.66	248504.74	2.84	
7820.00	91.720	2.540	5164.41	3063.51	3062.71	73.30	1731092.30	248599.67	2.04	
7914.00	92.340	2.220	5161.08	3157.44	3156.57	77.20	1731096.20	248693.52	0.74	
8009.00	91.480	3.560	5157.91	3252.37	3251.39	81.99	1731100.99	248788.35	1.68	
8104.00	91.720	2.800	5155.26	3347.30	3346.21	87.26	1731106.25	248883.16	0.84	
8199.00	90.830	3.530	5153.14	3442.25	3441.04	92.50	1731111.50	248977.99	1.21	
8295.00	88.800	4.340	5153.45	3538.18	3536.81	99.09	1731118.09	249073.75	2.28	

Actual Wellpath Report

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Area	Kansas		Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid		Wellbore	Sean 3119 3-18H AWB
Facility	Sean 3119 3-18H Sec 19-31S-19W			

WELLPATH DATA (109 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
8390.00	89.230	2.480	5155.09	3633.12	3631.62	104.74	1731123.74	249168.57	2.01	
8485.00	89.080	2.460	5156.49	3728.10	3726.52	108.83	1731127.83	249263.47	0.16	
8580.00	88.770	3.920	5158.27	3823.06	3821.36	114.12	1731133.11	249358.30	1.57	
8675.00	89.480	3.550	5159.72	3917.99	3916.14	120.30	1731139.30	249453.08	0.84	
8770.00	90.680	4.200	5159.59	4012.92	4010.92	126.72	1731145.72	249547.86	1.44	
8865.00	92.000	1.410	5157.37	4107.87	4105.77	131.37	1731150.37	249642.71	3.25	
8960.00	90.250	0.540	5155.50	4202.84	4200.74	132.99	1731151.99	249737.67	2.06	
9054.00	87.230	1.490	5157.57	4296.80	4294.69	134.65	1731153.65	249831.62	3.37	
9149.00	87.940	1.160	5161.57	4391.71	4389.58	136.85	1731155.84	249926.51	0.82	
9244.00	89.290	1.650	5163.87	4486.68	4484.52	139.17	1731158.17	250021.45	1.51	
9339.00	91.970	2.460	5162.82	4581.66	4579.44	142.58	1731161.58	250116.37	2.95	
9434.00	92.780	0.600	5158.89	4676.57	4674.32	145.12	1731164.11	250211.25	2.13	
9529.00	92.220	2.950	5154.74	4771.47	4769.18	148.06	1731167.05	250306.10	2.54	
9624.00	90.620	3.570	5152.39	4866.41	4863.99	153.46	1731172.45	250400.92	1.81	
9719.00	89.320	3.110	5152.44	4961.37	4958.83	158.99	1731177.99	250495.75	1.45	
9814.00	90.400	5.820	5152.67	5056.26	5053.53	166.39	1731185.38	250590.45	3.07	
9909.00	91.290	4.480	5151.27	5151.08	5148.13	174.91	1731193.91	250685.05	1.69	
9913.00	91.290	4.250	5151.18	5155.08	5152.12	175.22	1731194.21	250689.04	5.75	
9971.00	91.290	4.250	5149.87	5213.01	5209.94	179.51	1731198.51	250746.87	0.00	Actual BHL 9971' MD(5150' TVD)300' FNL, 1962' FEL X: 1731199 Y:

TARGETS										
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
Sean 3119 3-18H PBHL		5147.70	5211.00	163.00	1731182.00	250747.92	37°21'05.957"N	99°25'29.245"W	point	

WELLPATH COMPOSITION - Ref Wellbore: Sean 3119 3-18H AWB Ref Wellpath: AWP - Final				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	769.00	Generic gyro - northseeking (Standard)	Gyro Surveys	Sean 3119 3-18H AWB
769.00	9913.00	NaviTrak (Standard)	INTEQ MWD	Sean 3119 3-18H AWB
9913.00	9971.00	Blind Drilling (std)	Projection to bit	Sean 3119 3-18H AWB