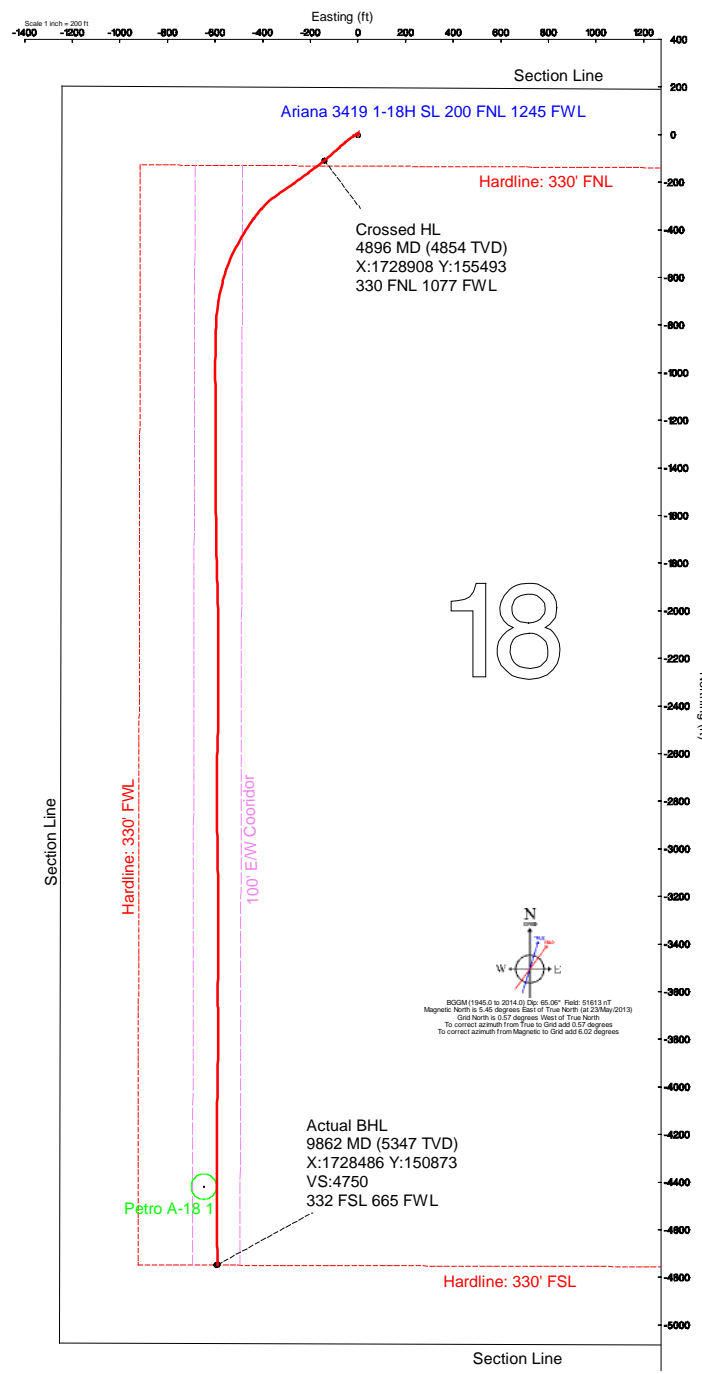
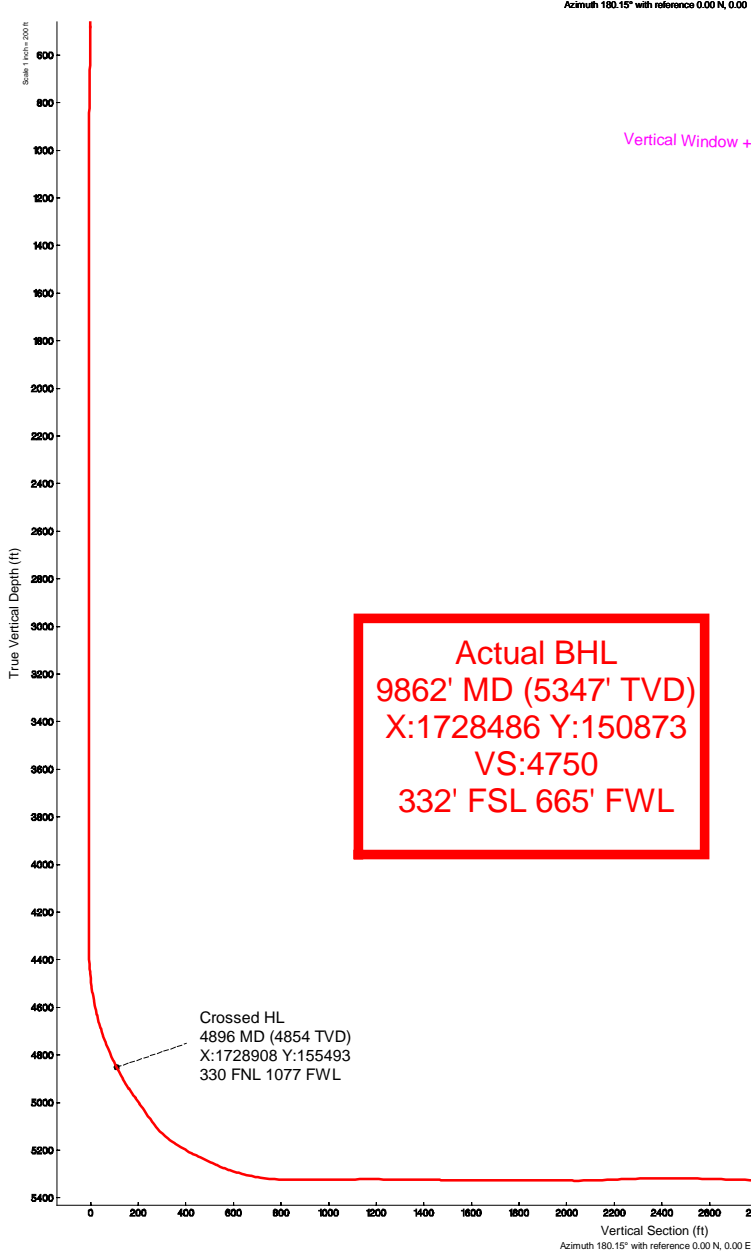




Sandridge Energy
 Ariana 3419 1-18H (Final)
 Ariana 3419 1-18H SL 200 FNL 1245 FWL
 Comanche County, Kansas (Sandridge Energy) NAD27 / Grid

Plot reference wellpath is Plan 3		Grid System: NAD27 / Lambert Kansas SP, Southern Zone (1602), US feet	
True vertical depths are referenced to Larist 38 (RT)		North Reference: Grid north	
Measured depths are referenced to Larist 38 (RT)		Scale: True distance	
Larist 38 (RT) to Mean Sea Level: 1801 feet		Depths are in feet	
Mean Sea Level to Mud line (At Slot: Ariana 3419 1-18H SL 200 FNL 1245 FWL): -1781 feet		Created by boughac on 30/May/2013	
Coordinates are in feet referenced to Slot			
Location Information			
Facility Name		Grid East (US ft)	Grid North (US ft)
Ariana 3419 1-18H Sec. 18-34S-19W		1729077.000	155622.000
Slot		Local N (ft)	Local E (ft)
Ariana 3419 1-18H SL 200 FNL 1245 FWL		0.00	0.00
Larist 38 (RT) to Mud line (At Slot: Ariana 3419 1-18H SL 200 FNL 1245 FWL)		Grid East (US ft)	Grid North (US ft)
Mean Sea Level to Mud line (At Slot: Ariana 3419 1-18H SL 200 FNL 1245 FWL)		1729077.000	155622.000
Larist 38 (RT) to Mean Sea Level		Latitude	Longitude
		37°05'25.270"N	99°25'43.578"W
		208	
		-1781ft	
		1801ft	





Actual Wellpath Report

Sandridge Ariana 3419 1-18H_Final Surveys.
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Ariana 3419 1-18H SL 200 FNL 1245 FWL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Ariana 3419 1-18H Actual
Facility	Ariana 3419 1-18H Sec. 18-34S-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	Adammic
Scale	1.00004	Report Generated	01/Jul/2013 at 2:41:26 PM
Wellbore last revised	05-23-2013	Database/Source file	intokcapp01

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	1729077.00	155622.00	37°05'25.270"N	99°25'43.578"W
Facility Reference Pt			1729077.00	155622.00	37°05'25.270"N	99°25'43.578"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 (RT) to Facility Vertical Datum	20.00ft
Horizontal Reference Pt	Slot	Lariat 38 (RT) to Mean Sea Level	1801.00ft
Vertical Reference Pt	Lariat 38 (RT)	Lariat 38 (RT) to Mud Line at Slot (Ariana 3419 1-18H SL 200 FNL 1245 FWL)	20.00ft
MD Reference Pt	Lariat 38 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	180.15°



Actual Wellpath Report

Sandridge Ariana 3419 1-18H_Final Surveys.
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Ariana 3419 1-18H SL 200 FNL 1245 FWL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Ariana 3419 1-18H Actual
Facility	Ariana 3419 1-18H Sec. 18-34S-19W		

WELLPATH DATA (110 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]	Comments
0.00†	0.000	0.130	0.00	0.00	0.00	0.00	1729077.00	155622.00	0.00	
20.00	0.000	0.130	20.00	0.00	0.00	0.00	1729077.00	155622.00	0.00	
247.00	0.700	0.130	246.99	-1.39	1.39	0.00	1729077.00	155623.39	0.31	
499.00	0.400	12.470	498.98	-3.79	3.78	0.20	1729077.20	155625.79	0.13	
709.00	1.000	0.150	708.97	-6.33	6.33	0.36	1729077.36	155628.33	0.29	
964.00	0.040	79.730	963.95	-8.58	8.57	0.45	1729077.45	155630.57	0.39	
1454.00	0.030	52.250	1453.95	-8.69	8.68	0.72	1729077.72	155630.68	0.00	
1950.00	0.040	157.650	1949.95	-8.60	8.60	0.89	1729077.89	155630.60	0.01	
2425.00	0.030	324.840	2424.95	-8.55	8.55	0.88	1729077.88	155630.55	0.01	
2900.00	0.070	17.510	2899.95	-8.93	8.93	0.90	1729077.90	155630.93	0.01	
3375.00	0.030	146.450	3374.95	-9.11	9.10	1.05	1729078.05	155631.10	0.02	
3850.00	0.030	333.780	3849.95	-9.11	9.11	1.07	1729078.07	155631.11	0.01	
4312.00	0.030	54.340	4311.95	-9.29	9.29	1.11	1729078.11	155631.29	0.01	
4325.00	0.140	157.950	4324.95	-9.28	9.28	1.12	1729078.12	155631.28	1.15	
4356.00	1.180	240.890	4355.95	-9.09	9.09	0.86	1729077.86	155631.09	3.78	
4388.00	3.130	240.750	4387.93	-8.50	8.50	-0.19	1729076.81	155630.50	6.09	
4420.00	5.900	238.260	4419.82	-7.20	7.21	-2.35	1729074.65	155629.21	8.68	
4451.00	8.640	237.460	4450.57	-5.10	5.12	-5.67	1729071.33	155627.12	8.84	
4483.00	11.410	236.110	4482.08	-2.03	2.06	-10.33	1729066.67	155624.06	8.69	
4515.00	13.650	235.230	4513.32	1.90	-1.86	-16.06	1729060.94	155620.14	7.03	
4546.00	15.720	236.420	4543.30	6.33	-6.27	-22.56	1729054.44	155615.73	6.75	
4578.00	17.550	233.660	4573.96	11.61	-11.53	-30.06	1729046.94	155610.47	6.23	
4610.00	19.370	230.940	4604.31	17.83	-17.73	-38.07	1729038.93	155604.27	6.29	
4641.00	20.690	231.800	4633.44	24.48	-24.36	-46.36	1729030.63	155597.64	4.36	
4673.00	22.460	229.720	4663.20	31.95	-31.81	-55.47	1729021.53	155590.19	6.02	
4705.00	25.280	227.860	4692.46	40.52	-40.34	-65.20	1729011.80	155581.65	9.12	
4736.00	28.070	228.030	4720.15	49.86	-49.66	-75.54	1729001.46	155572.33	9.00	
4768.00	30.620	228.170	4748.05	60.37	-60.14	-87.21	1728989.79	155561.86	7.97	
4800.00	32.360	229.460	4775.33	71.40	-71.14	-99.79	1728977.21	155550.86	5.83	
4831.00	33.650	228.510	4801.33	82.52	-82.22	-112.53	1728964.47	155539.78	4.48	
4863.00	36.100	229.480	4827.58	94.55	-94.22	-126.34	1728950.66	155527.77	7.85	
4894.00	37.940	230.790	4852.33	106.55	-106.18	-140.67	1728936.33	155515.81	6.46	
4896.00†	38.088	230.808	4853.91	107.33	-106.96	-141.62	1728935.37	155515.04	7.43	Crossed HL 4896 MD (4854 TVD) X:1728908 Y:155493 330 FNL 1077 FWL
4926.00	40.310	231.060	4877.15	119.32	-118.91	-156.34	1728920.65	155503.09	7.43	
4958.00	43.060	234.310	4901.05	132.25	-131.79	-173.27	1728903.72	155490.20	10.93	
4989.00	45.620	234.760	4923.22	144.86	-144.36	-190.92	1728886.08	155477.64	8.32	
5021.00	48.530	232.080	4945.01	158.88	-158.33	-209.72	1728867.27	155463.67	10.97	
5053.00	50.570	234.610	4965.78	173.46	-172.86	-229.26	1728847.74	155449.14	8.76	
5084.00	50.560	232.450	4985.47	187.74	-187.09	-248.51	1728828.48	155434.91	5.38	
5116.00	50.720	235.730	5005.77	202.30	-201.59	-268.54	1728808.45	155420.40	7.94	
5148.00	50.480	234.340	5026.08	216.52	-215.76	-288.81	1728788.18	155406.23	3.44	
5179.00	50.520	236.600	5045.80	230.13	-229.32	-308.51	1728768.48	155392.67	5.63	
5211.00	50.650	234.490	5066.12	244.17	-243.31	-328.89	1728748.10	155378.68	5.11	
5243.00	50.650	233.980	5086.41	258.69	-257.77	-348.97	1728728.02	155364.22	1.23	
5275.00	52.200	230.870	5106.36	274.00	-273.03	-368.79	1728708.20	155348.96	9.01	



Actual Wellpath Report

Sandridge Ariana 3419 1-18H_Final Surveys.
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Ariana 3419 1-18H SL 200 FNL 1245 FWL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Ariana 3419 1-18H Actual
Facility	Ariana 3419 1-18H Sec. 18-34S-19W		

WELLPATH DATA (110 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
5306.00	54.570	225.470	5124.86	290.64	-289.62	-387.31	1728689.68	155332.37	15.93	
5338.00	57.330	221.000	5142.78	310.01	-308.94	-405.45	1728671.54	155313.05	14.43	
5369.00	59.390	218.360	5159.05	330.37	-329.25	-422.29	1728654.70	155292.73	9.83	
5401.00	61.960	215.760	5174.72	352.67	-351.52	-439.09	1728637.89	155270.47	10.71	
5433.00	63.870	214.880	5189.29	375.96	-374.76	-455.56	1728621.42	155247.22	6.45	
5465.00	65.220	211.910	5203.04	400.13	-398.89	-471.46	1728605.52	155223.10	9.38	
5496.00	66.440	211.180	5215.74	424.27	-422.99	-486.25	1728590.73	155199.00	4.48	
5528.00	67.170	207.480	5228.34	449.94	-448.63	-500.66	1728576.33	155173.36	10.87	
5560.00	67.320	208.240	5240.72	476.07	-474.72	-514.45	1728562.54	155147.27	2.24	
5591.00	67.320	207.000	5252.67	501.45	-500.06	-527.71	1728549.27	155121.92	3.69	
5623.00	67.680	202.330	5264.93	528.34	-526.92	-540.04	1728536.94	155095.06	13.53	
5655.00	69.620	199.240	5276.58	556.23	-554.78	-550.61	1728526.37	155067.20	10.85	
5686.00	72.100	197.410	5286.74	584.05	-582.57	-559.81	1728517.17	155039.40	9.75	
5718.00	74.250	194.670	5296.01	613.50	-612.01	-568.27	1728508.71	155009.97	10.60	
5725.00	74.550	194.050	5297.89	620.04	-618.54	-569.94	1728507.04	155003.44	9.55	
5750.00	75.740	193.480	5304.30	643.53	-642.01	-575.69	1728501.29	154979.97	5.25	
5781.00	78.100	191.650	5311.31	673.01	-671.48	-582.25	1728494.72	154950.50	9.54	
5811.00	80.590	189.340	5316.86	702.01	-700.47	-587.62	1728489.36	154921.51	11.23	
5841.00	83.010	187.090	5321.14	731.41	-729.85	-591.86	1728485.12	154892.12	10.96	
5872.00	85.780	184.750	5324.17	762.10	-760.53	-595.04	1728481.94	154861.44	11.67	
5903.00	87.780	182.520	5325.91	792.99	-791.42	-597.00	1728479.97	154830.55	9.65	
5933.00	89.540	181.620	5326.61	822.96	-821.39	-598.09	1728478.89	154800.58	6.59	
6025.00	90.400	180.820	5326.66	914.94	-913.37	-600.05	1728476.93	154708.60	1.28	
6117.00	90.280	179.760	5326.11	1006.94	-1005.36	-600.51	1728476.47	154616.60	1.16	
6208.00	90.920	179.970	5325.16	1097.93	-1096.36	-600.30	1728476.68	154525.60	0.74	
6300.00	89.660	179.730	5324.69	1189.93	-1188.35	-600.06	1728476.92	154433.60	1.39	
6392.00	89.230	180.050	5325.59	1281.92	-1280.35	-599.88	1728477.10	154341.60	0.58	
6484.00	89.600	179.580	5326.52	1373.92	-1372.34	-599.58	1728477.40	154249.61	0.65	
6575.00	89.010	179.460	5327.63	1464.90	-1463.33	-598.82	1728478.16	154158.61	0.66	
6667.00	89.940	179.560	5328.47	1556.89	-1555.32	-598.03	1728478.94	154066.62	1.02	
6759.00	89.320	179.520	5329.07	1648.89	-1647.32	-597.29	1728479.68	153974.62	0.68	
6851.00	90.430	178.760	5329.27	1740.87	-1739.31	-595.91	1728481.06	153882.63	1.46	
6943.00	89.880	178.360	5329.02	1832.83	-1831.28	-593.60	1728483.38	153790.66	0.74	
7038.00	89.450	178.410	5329.57	1927.79	-1926.24	-590.92	1728486.05	153695.69	0.46	
7133.00	89.630	179.370	5330.34	2022.76	-2021.21	-589.08	1728487.89	153600.71	1.03	
7228.00	91.570	179.970	5329.34	2117.75	-2116.20	-588.54	1728488.44	153505.72	2.14	
7323.00	93.050	179.860	5325.51	2212.67	-2211.12	-588.40	1728488.58	153410.80	1.56	
7418.00	91.330	179.440	5321.88	2307.59	-2306.05	-587.82	1728489.16	153315.87	1.86	
7513.00	90.180	179.950	5320.63	2402.58	-2401.04	-587.31	1728489.67	153220.87	1.32	
7608.00	89.140	182.040	5321.19	2497.56	-2496.01	-588.96	1728488.02	153125.89	2.46	
7703.00	88.550	181.660	5323.11	2592.49	-2590.94	-592.03	1728484.95	153030.96	0.74	
7798.00	88.370	180.300	5325.66	2687.45	-2685.89	-593.65	1728483.33	152936.01	1.44	
7854.00	88.620	180.260	5327.13	2743.43	-2741.87	-593.92	1728483.05	152880.02	0.45	
7918.00	88.860	179.670	5328.54	2807.41	-2805.86	-593.89	1728483.09	152816.04	1.00	
8013.00	90.280	179.100	5329.25	2902.40	-2900.85	-592.87	1728484.11	152721.05	1.61	



Actual Wellpath Report

Sandridge Ariana 3419 1-18H_Final Surveys.
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Ariana 3419 1-18H SL 200 FNL 1245 FWL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Ariana 3419 1-18H Actual
Facility	Ariana 3419 1-18H Sec. 18-34S-19W		

WELLPATH DATA (110 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
8108.00	89.600	179.300	5329.35	2997.39	-2995.84	-591.54	1728485.44	152626.05	0.75	
8203.00	89.230	178.810	5330.32	3092.36	-3090.82	-589.97	1728487.01	152531.07	0.65	
8298.00	91.540	179.350	5329.68	3187.34	-3185.80	-588.45	1728488.53	152436.08	2.50	
8393.00	92.060	179.480	5326.70	3282.28	-3280.74	-587.48	1728489.50	152341.13	0.56	
8488.00	90.860	180.390	5324.28	3377.25	-3375.71	-587.37	1728489.61	152246.16	1.59	
8583.00	91.360	181.030	5322.44	3472.22	-3470.69	-588.55	1728488.43	152151.19	0.85	
8678.00	89.100	180.410	5322.06	3567.21	-3565.67	-589.74	1728487.24	152056.20	2.47	
8773.00	87.410	179.520	5324.95	3662.16	-3660.62	-589.68	1728487.29	151961.24	2.01	
8868.00	92.440	180.080	5325.08	3757.13	-3755.59	-589.35	1728487.63	151866.27	5.33	
8963.00	90.180	180.030	5322.90	3852.10	-3850.56	-589.44	1728487.54	151771.30	2.38	
9058.00	89.540	181.350	5323.14	3947.09	-3945.55	-590.59	1728486.39	151676.30	1.54	
9153.00	89.660	180.650	5323.80	4042.08	-4040.53	-592.24	1728484.73	151581.32	0.75	
9248.00	89.440	180.890	5324.54	4137.07	-4135.52	-593.52	1728483.46	151486.33	0.34	
9343.00	90.370	180.590	5324.70	4232.06	-4230.51	-594.75	1728482.23	151391.33	1.03	
9438.00	84.890	179.230	5328.63	4326.94	-4325.39	-594.60	1728482.38	151296.45	5.94	
9533.00	86.780	179.650	5335.53	4421.68	-4420.13	-593.68	1728483.30	151201.70	2.04	
9628.00	88.550	180.400	5339.40	4516.60	-4515.05	-593.72	1728483.26	151106.78	2.02	
9722.00	88.090	179.320	5342.16	4610.55	-4609.01	-593.49	1728483.49	151012.82	1.25	
9818.00	88.210	178.550	5345.25	4706.48	-4704.94	-591.70	1728485.27	150916.89	0.81	
9862.00	88.210	178.550	5346.63	4750.44	-4748.90	-590.59	1728486.39	150872.92	0.00	Actual BHL 9862 MD (5347 TVD) X:1728486 Y:150873 VS:4750 332 FSL 665 FWL

WELLPATH COMPOSITION - Ref Wellbore: Ariana 3419 1-18H Actual Ref Wellpath: AWP (Final)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	499.00	EMS (Standard)	EMS	Ariana 3419 1-18H Actual
499.00	9818.00	NaviTrak (Standard)	Inteq MWD	Ariana 3419 1-18H Actual
9818.00	9862.00	Blind Drilling (std)	Projection to bit	Ariana 3419 1-18H Actual