

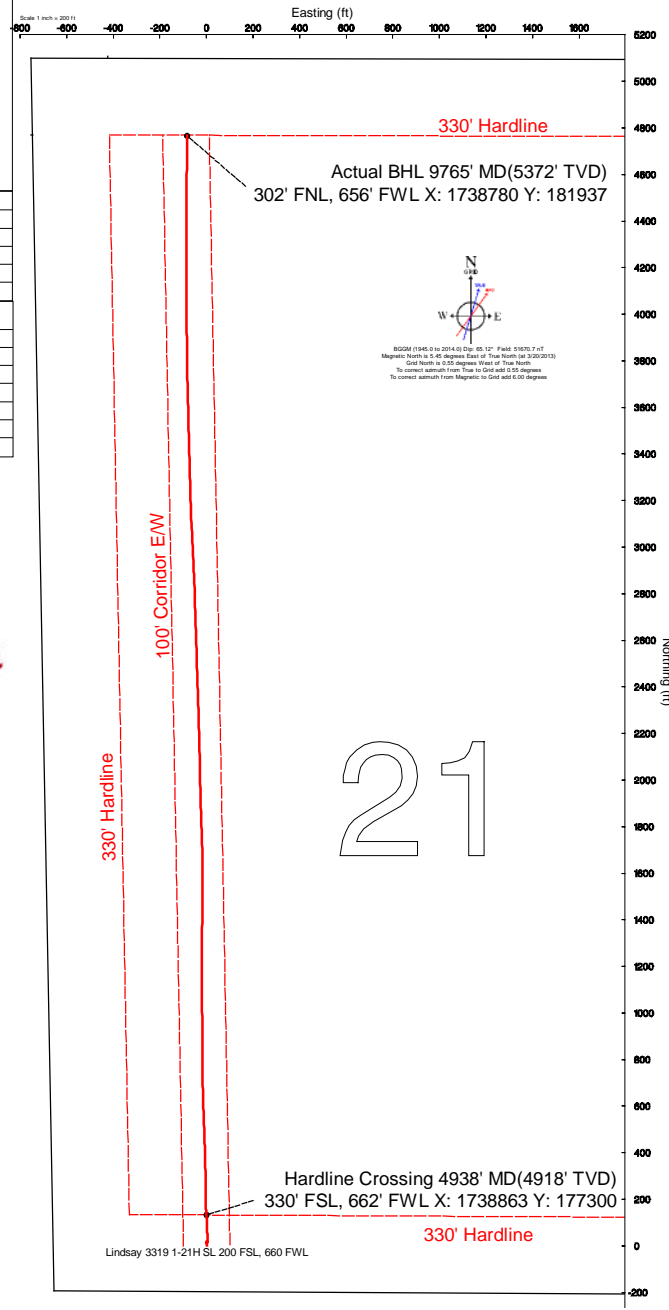
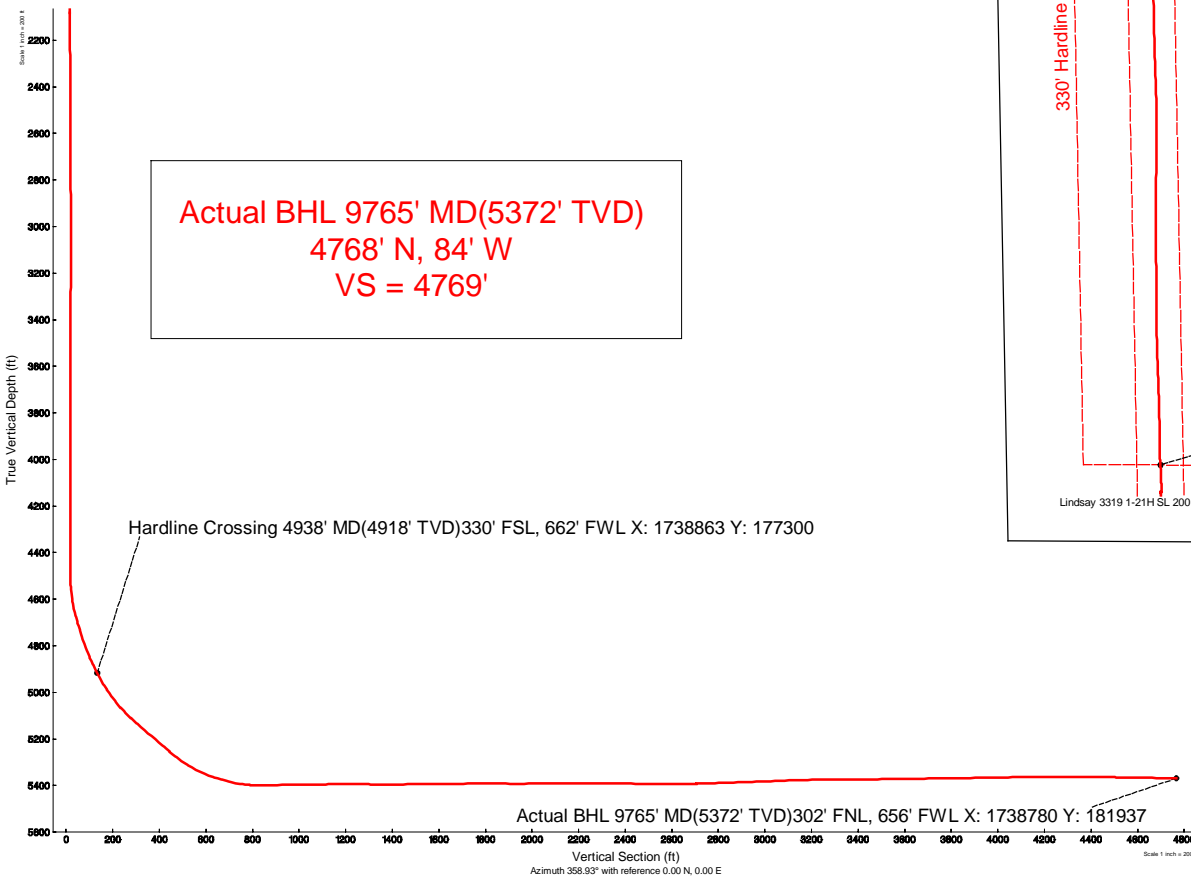
# Sandridge Energy

Lindsay 3319 1-21H (Final)

Lindsay 3319 1-21H SL 200 FSL, 660 FWL

Comanche County, Kansas (Sandridge Energy) NAD27 / Grid

Plot reference wellpath is Plan 2		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: 1993 feet		Depths are in feet	
Mean Sea Level to Mud line (At Slot: Lindsay 3319 1-21H SL 200 FSL, 660 FWL): -1973 feet		Created by: broomart on 4/1/2013	
Coordinates are in feet referenced to Slot			
Location Information			
Facility Name		Grid East (US ft)	Grid North (US ft)
Lindsay 3319 1-21H Sec. 21-33S-19W		1738864.000	177169.000
Slot		Local N (ft)	Local E (ft)
Lindsay 3319 1-21H SL 200 FSL, 660 FWL		0.00	0.00
Lariat 38 (KB) to Mud line (At Slot: Lindsay 3319 1-21H SL 200 FSL, 660 FWL)		20ft	
Mean Sea Level to Mud line (At Slot: Lindsay 3319 1-21H SL 200 FSL, 660 FWL)		-1973ft	
Lariat 38 (KB) to Mean Sea Level		1993ft	



# Actual Wellpath Report

Sandridge Lindsay 3319 1-21H\_Final Surveys.

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Lindsay 3319 1-21H SL 200 FSL, 660 FWL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Lindsay 3319 1-21H Actual
Facility	Lindsay 3319 1-21H Sec. 21-33S-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	0.55° West	User	Broomarl
Scale	1.00003	Report Generated	4/12/2013 at 11:40:11 AM
Wellbore last revised	03-20-2013	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	1738864.00	177169.00	37°08'59.245"N	99°23'45.355"W
Facility Reference Pt			1738864.00	177169.00	37°08'59.245"N	99°23'45.355"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	1993.00ft
Vertical Reference Pt	Lariat 38 (KB)	Lariat 38 (KB) to Mud Line at Slot (Lindsay 3319 1-21H SL 200 FSL, 660 FWL)	20.00ft
MD Reference Pt	Lariat 38 (KB)	Section Origin	N 0.00, E 0.00 f
Field Vertical Reference	Mean Sea Level	Section Azimuth	358.93°

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Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Lindsay 3319 1-21H Actual
Facility	Lindsay 3319 1-21H Sec. 21-33S-19W		

## WELLPATH DATA (100 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	0.160	0.00	0.00	0.00	0.00	1738864.00	177169.00	0.00	
20.00	0.000	0.160	20.00	0.00	0.00	0.00	1738864.00	177169.00	0.00	
248.00	1.100	0.160	247.99	2.19	2.19	0.01	1738864.01	177171.19	0.48	
490.00	0.500	0.340	489.96	5.57	5.57	0.02	1738864.02	177174.57	0.25	
735.00	0.300	0.320	734.96	7.28	7.28	0.03	1738864.03	177176.28	0.08	
888.00	0.300	0.320	887.95	8.08	8.08	0.03	1738864.03	177177.08	0.00	
1090.00	0.170	348.980	1089.95	8.90	8.90	-0.02	1738863.98	177177.90	0.07	
1548.00	0.150	183.320	1547.95	8.97	8.97	-0.19	1738863.81	177177.97	0.07	
2047.00	0.780	358.440	2046.94	11.72	11.71	-0.32	1738863.68	177180.71	0.19	
2522.00	0.410	56.940	2521.91	15.85	15.87	1.02	1738865.02	177184.87	0.14	
2997.00	0.060	305.630	2996.91	16.90	16.94	2.24	1738866.24	177185.94	0.09	
3472.00	0.220	186.750	3471.91	16.14	16.18	1.93	1738865.93	177185.18	0.05	
3947.00	0.170	108.000	3946.91	15.01	15.06	2.50	1738866.50	177184.06	0.05	
4422.00	0.150	66.560	4421.91	15.02	15.09	3.74	1738867.74	177184.09	0.02	
4485.00	0.220	2.590	4484.91	15.17	15.24	3.82	1738867.82	177184.24	0.33	
4517.00	1.520	355.820	4516.90	15.65	15.73	3.79	1738867.79	177184.73	4.07	
4548.00	4.110	357.140	4547.86	17.18	17.25	3.70	1738867.70	177186.25	8.36	
4580.00	6.730	357.090	4579.72	20.20	20.27	3.55	1738867.55	177189.27	8.19	
4612.00	9.370	356.800	4611.40	24.67	24.74	3.31	1738867.31	177193.74	8.25	
4643.00	12.090	358.170	4641.85	30.44	30.51	3.07	1738867.07	177199.51	8.81	
4675.00	14.480	358.510	4672.99	37.80	37.86	2.86	1738866.86	177206.86	7.47	
4707.00	16.250	358.520	4703.85	46.27	46.33	2.64	1738866.64	177215.33	5.53	
4738.00	17.610	358.240	4733.50	55.30	55.36	2.38	1738866.38	177224.36	4.39	
4770.00	18.550	358.000	4763.92	65.23	65.28	2.05	1738866.05	177234.28	2.95	
4802.00	19.650	357.910	4794.16	75.70	75.75	1.68	1738865.68	177244.75	3.44	
4833.00	21.650	357.830	4823.17	86.63	86.67	1.27	1738865.27	177255.67	6.45	
4865.00	23.740	357.600	4852.69	98.97	99.01	0.78	1738864.78	177268.01	6.54	
4897.00	25.530	357.070	4881.78	112.31	112.33	0.16	1738864.16	177281.33	5.64	
4928.00	27.200	356.150	4909.55	126.06	126.07	-0.66	1738863.34	177295.07	5.55	
4938.00	27.577	355.707	4918.43	130.65	130.66	-0.99	1738863.01	177299.66	4.28	Hardline Crossing 4938' MD(4918' TVD)330' FSL, 662' FWL X: 1738863
4960.00	28.410	354.770	4937.86	140.96	140.95	-1.84	1738862.16	177309.95	4.28	
4992.00	30.310	355.150	4965.74	156.61	156.58	-3.22	1738860.78	177325.58	5.97	
5023.00	33.680	357.110	4992.03	173.01	172.96	-4.32	1738859.68	177341.97	11.37	
5055.00	36.590	358.970	5018.20	191.42	191.36	-4.94	1738859.06	177360.37	9.69	
5087.00	38.840	359.830	5043.51	211.00	210.94	-5.14	1738858.86	177379.94	7.22	
5118.00	41.730	359.710	5067.16	231.04	230.98	-5.22	1738858.78	177399.98	9.33	
5150.00	44.570	0.020	5090.50	252.92	252.86	-5.27	1738858.73	177421.87	8.90	
5182.00	46.980	359.250	5112.82	275.84	275.79	-5.42	1738858.58	177444.80	7.73	
5213.00	48.880	359.730	5133.59	298.85	298.80	-5.62	1738858.38	177467.81	6.24	
5276.00	49.430	358.960	5174.79	346.51	346.45	-6.17	1738857.83	177515.46	1.27	
5340.00	49.410	358.230	5216.43	395.12	395.05	-7.36	1738856.64	177564.06	0.87	
5371.00	49.450	358.460	5236.59	418.66	418.58	-8.04	1738855.96	177587.59	0.58	
5403.00	49.480	358.330	5257.38	442.98	442.90	-8.72	1738855.28	177611.91	0.32	
5435.00	51.260	358.350	5277.79	467.62	467.53	-9.43	1738854.57	177636.54	5.56	
5466.00	54.510	357.620	5296.50	492.34	492.23	-10.31	1738853.69	177661.24	10.65	

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Sandridge Lindsay 3319 1-21H\_Final Surveys.

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REFERENCE WELLPATH IDENTIFICATION			
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Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Lindsay 3319 1-21H Actual
Facility	Lindsay 3319 1-21H Sec. 21-33S-19W		

WELLPATH DATA (100 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
5498.00	58.970	357.300	5314.04	519.08	518.96	-11.49	1738852.51	177687.97	13.96	
5530.00	62.250	357.550	5329.75	546.95	546.81	-12.74	1738851.25	177715.82	10.27	
5561.00	65.000	357.910	5343.52	574.71	574.55	-13.84	1738850.16	177743.57	8.93	
5593.00	67.980	358.110	5356.28	604.05	603.88	-14.86	1738849.14	177772.89	9.33	
5625.00	70.970	358.530	5367.50	634.01	633.83	-15.74	1738848.26	177802.84	9.42	
5656.00	74.070	358.810	5376.81	663.58	663.39	-16.43	1738847.57	177832.40	10.04	
5688.00	76.420	358.710	5384.96	694.52	694.32	-17.09	1738846.90	177863.34	7.35	
5720.00	78.630	359.140	5391.87	725.76	725.56	-17.68	1738846.32	177894.58	7.03	
5751.00	82.130	359.400	5397.05	756.32	756.12	-18.07	1738845.93	177925.13	11.32	
5783.00	86.770	359.710	5400.14	788.16	787.96	-18.32	1738845.68	177956.97	14.53	
5810.00	89.110	359.730	5401.11	815.14	814.94	-18.45	1738845.55	177983.95	8.67	
5863.00	91.300	359.750	5400.92	868.13	867.93	-18.69	1738845.31	178036.95	4.13	
5924.00	91.020	359.620	5399.69	929.11	928.92	-19.02	1738844.98	178097.94	0.51	
6016.00	90.590	359.500	5398.40	1021.10	1020.91	-19.73	1738844.27	178189.93	0.49	
6107.00	90.770	359.520	5397.32	1112.09	1111.90	-20.51	1738843.49	178280.92	0.20	
6199.00	90.250	0.010	5396.50	1204.07	1203.89	-20.89	1738843.11	178372.92	0.78	
6291.00	88.890	0.650	5397.19	1296.04	1295.88	-20.36	1738843.64	178464.91	1.63	
6382.00	90.430	0.440	5397.73	1387.00	1386.88	-19.49	1738844.51	178555.91	1.71	
6474.00	90.460	359.860	5397.01	1478.97	1478.87	-19.25	1738844.75	178647.91	0.63	
6566.00	90.900	0.730	5395.92	1570.94	1570.86	-18.78	1738845.22	178739.90	1.06	
6658.00	90.370	359.450	5394.90	1662.91	1662.86	-18.63	1738845.37	178831.89	1.51	
6753.00	90.310	357.640	5394.34	1757.91	1757.82	-21.04	1738842.96	178926.86	1.91	
6848.00	89.660	358.300	5394.36	1852.89	1852.76	-24.41	1738839.59	179021.80	0.98	
6943.00	90.030	358.490	5394.62	1947.89	1947.72	-27.07	1738836.93	179116.77	0.44	
7038.00	91.170	359.170	5393.63	2042.88	2042.69	-29.01	1738834.99	179211.74	1.40	
7133.00	90.000	358.300	5392.66	2137.87	2137.66	-31.11	1738832.89	179306.71	1.53	
7228.00	89.660	358.450	5392.94	2232.87	2232.62	-33.80	1738830.20	179401.68	0.39	
7323.00	89.480	358.320	5393.65	2327.86	2327.58	-36.48	1738827.52	179496.64	0.23	
7418.00	89.600	357.610	5394.41	2422.84	2422.52	-39.85	1738824.15	179591.58	0.76	
7512.00	89.010	358.640	5395.55	2516.82	2516.46	-42.93	1738821.07	179685.52	1.26	
7608.00	90.150	357.820	5396.26	2612.81	2612.41	-45.89	1738818.11	179781.47	1.46	
7702.00	91.970	358.440	5394.52	2706.78	2706.34	-48.96	1738815.04	179875.40	2.05	
7797.00	91.790	358.130	5391.40	2801.73	2801.25	-51.80	1738812.20	179970.31	0.38	
7892.00	92.130	357.470	5388.15	2896.65	2896.12	-55.44	1738808.55	180065.19	0.78	
7987.00	92.040	357.170	5384.70	2991.55	2990.95	-59.88	1738804.11	180160.02	0.33	
8082.00	92.040	357.140	5381.31	3086.44	3085.78	-64.60	1738799.40	180254.85	0.03	
8177.00	91.360	357.740	5378.50	3181.37	3180.64	-68.84	1738795.16	180349.71	0.95	
8272.00	90.490	358.820	5376.96	3276.35	3275.58	-71.69	1738792.31	180444.66	1.46	
8367.00	90.460	358.340	5376.17	3371.34	3370.55	-74.04	1738789.96	180539.63	0.51	
8462.00	90.370	358.330	5375.49	3466.34	3465.51	-76.80	1738787.20	180634.59	0.10	
8557.00	90.860	358.840	5374.47	3561.33	3560.47	-79.15	1738784.85	180729.55	0.74	
8652.00	90.770	358.420	5373.12	3656.32	3655.43	-81.42	1738782.58	180824.52	0.45	
8747.00	90.740	359.290	5371.86	3751.31	3750.41	-83.32	1738780.68	180919.49	0.92	
8842.00	90.770	359.020	5370.61	3846.30	3845.39	-84.72	1738779.28	181014.48	0.29	
8937.00	91.050	359.350	5369.10	3941.29	3940.37	-86.07	1738777.93	181109.46	0.46	

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Sandridge Lindsay 3319 1-21H\_Final Surveys.

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REFERENCE WELLPATH IDENTIFICATION				
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Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid		Wellbore	Lindsay 3319 1-21H Actual
Facility	Lindsay 3319 1-21H Sec. 21-33S-19W			

WELLPATH DATA (100 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
9032.00	91.080	359.910	5367.34	4036.26	4035.35	-86.68	1738777.31	181204.44	0.59	
9127.00	90.650	359.260	5365.90	4131.24	4130.33	-87.37	1738776.63	181299.43	0.82	
9222.00	89.720	0.300	5365.60	4226.23	4225.33	-87.74	1738776.26	181394.43	1.47	
9317.00	89.850	0.330	5365.95	4321.20	4320.33	-87.21	1738776.78	181489.43	0.14	
9412.00	89.750	359.960	5366.28	4416.18	4415.33	-86.97	1738777.02	181584.43	0.40	
9507.00	89.320	0.670	5367.06	4511.15	4510.32	-86.45	1738777.55	181679.42	0.87	
9602.00	88.890	0.290	5368.54	4606.10	4605.30	-85.66	1738778.34	181774.41	0.60	
9697.00	88.960	0.780	5370.32	4701.05	4700.28	-84.77	1738779.23	181869.39	0.52	
9723.00	89.020	0.500	5370.78	4727.03	4726.28	-84.48	1738779.52	181895.39	1.10	
9765.00	89.020	0.500	5371.50	4769.01	4768.27	-84.11	1738779.89	181937.38	0.00	Actual BHL 9765' MD(5372' TVD)302' FNL, 656' FWL X: 1738780 Y:

TARGETS										
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
BHL 300' FNL, 660' FWL		5368.02	4770.89	-89.00	1738775.00	181940.00	37°09'46.406"N	99°23'47.021"W	point	

WELLPATH COMPOSITION - Ref Wellbore: Lindsay 3319 1-21H Actual Ref Wellpath: AWP - Final				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	888.00	Generic gyro - northseeking (Standard)	Rig Gyros	Lindsay 3319 1-21H Actual
888.00	9723.00	Autotrak Short (Magcorr)	INTEQ MWD	Lindsay 3319 1-21H Actual
9723.00	9765.00	Blind Drilling (std)	Projection to bit	Lindsay 3319 1-21H Actual