

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1139183

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- ☐ New Well ☐ Re-Entry ☐ Workover
- ☐ Oil ☐ WSW ☐ SWD ☐ SIOW
- ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
- ☐ OG ☐ GSW ☐ Temp. Abd.
- ☐ CM (Coal Bed Methane)
- ☐ Cathodic ☐ Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- ☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
- ☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

- ☐ Commingled Permit #: _____
- ☐ Dual Completion Permit #: _____
- ☐ SWD Permit #: _____
- ☐ ENHR Permit #: _____
- ☐ GSW Permit #: _____

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

_____ Feet from ☐ North / ☐ South Line of Section

_____ Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☐ Confidentiality Requested

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____



1139183

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional Sheets)	☐ Yes ☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes ☐ No	Name	Top	Datum
Cores Taken	☐ Yes ☐ No			
Electric Log Run	☐ Yes ☐ No			
List All E. Logs Run:				

CASING RECORD ☐ New ☐ Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No (If No, skip questions 2 and 3)

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No (If No, skip question 3)

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No (If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: ☐ Yes ☐ No
Date of First, Resumed Production, SWD or ENHR.	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled (Submit ACO-5) ☐ Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Britt 3406 4-20H
Doc ID	1139183

All Electric Logs Run

Mud Log
Boresight
Array Induction
Spectral Density
Prizm Log

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Britt 3406 4-20H
Doc ID	1139183

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9109-9363	1500 gals 15% HCL, 4340 bbls fresh slickwater, running TLTR 4646	
5	8752-9050	1500 gals 15% HCL, 4182 bbls fresh slickwater, running TLTR 8882	
5	8380-8702	1500 gals 15% HCL, 4268 bbls fresh slickwater, running TLTR 13265	
5	8042-8330	1500 gals 15% HCL, 4642 bbls fresh slickwater, running TLTR 18056	
5	7668-7928	1500 gals 15% HCL, 4915 bbls fresh slickwater, running TLTR 23170	
5	7305-7597	1500 gals 15% HCL, 4033 bbls fresh slickwater, running TLTR 27325	
5	6910-7235	1500 gals 15% HCL, 4085 bbls fresh slickwater, running TLTR 31548	
5	6496-6844	1500 gals 15% HCL, 4078 bbls fresh slickwater, running TLTR 35848	

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Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6092-6432	1500 gals 15% HCL, 4094 bbls fresh slickwater, running TLTR 39996	
5	5689-6041	1500 gals 15% HCL, 4033 bbls fresh slickwater, running TLTR 44029	
5	5362-5621	1500 gals 15% HCL, 4041 bbls fresh slickwater, running TLTR 48070	

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

May 13, 2013

Tiffany Golay
SandRidge Exploration and Production LLC
123 ROBERT S. KERR AVE
OKLAHOMA CITY, OK 73102-6406

Re: ACO1
API 15-077-21927-01-00
Britt 3406 4-20H
NW/4 Sec.29-34S-06W
Harper County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Tiffany Golay

Sandridge Energy

Britt 3406 4-20H SL 200' FNL, 1660' FWL (Final)

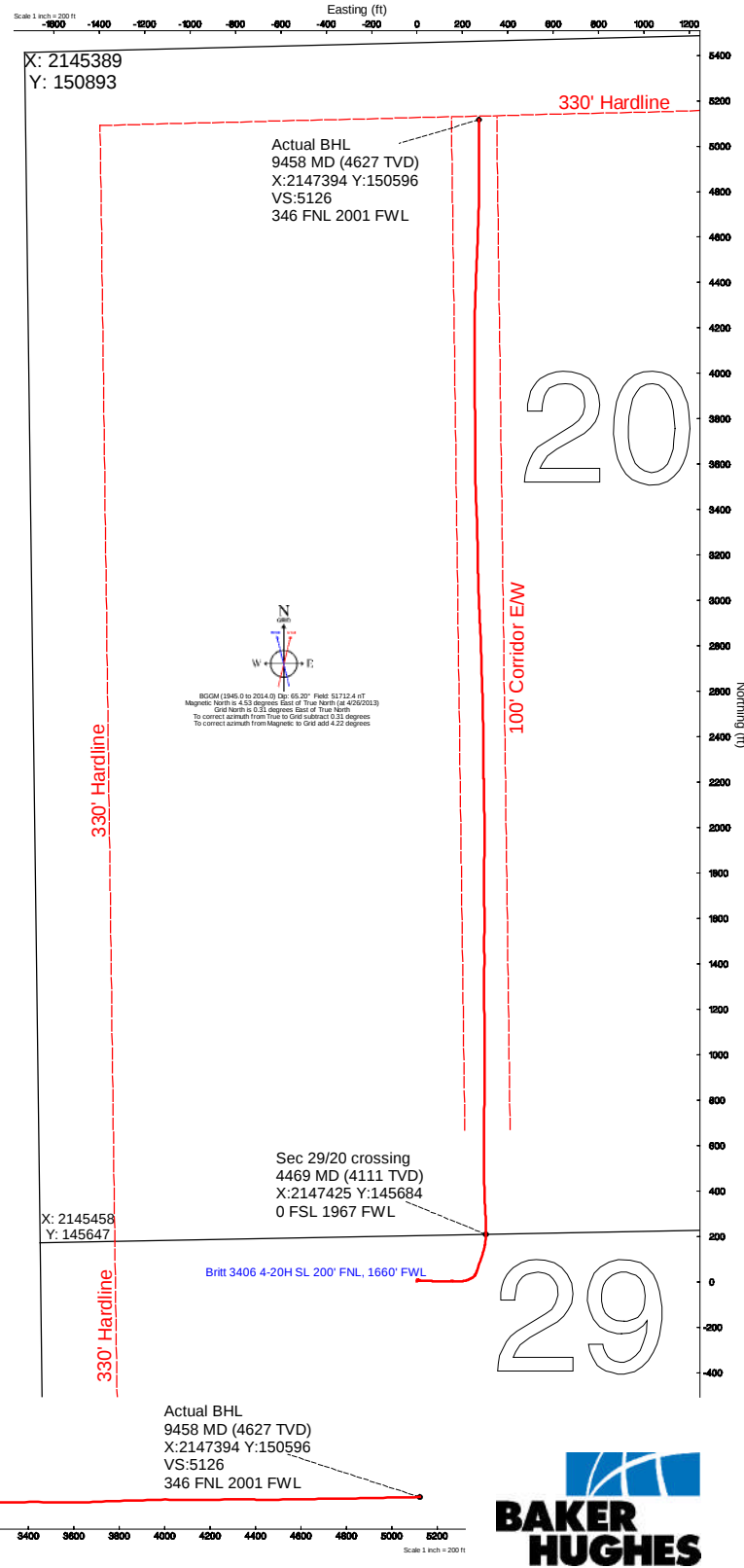
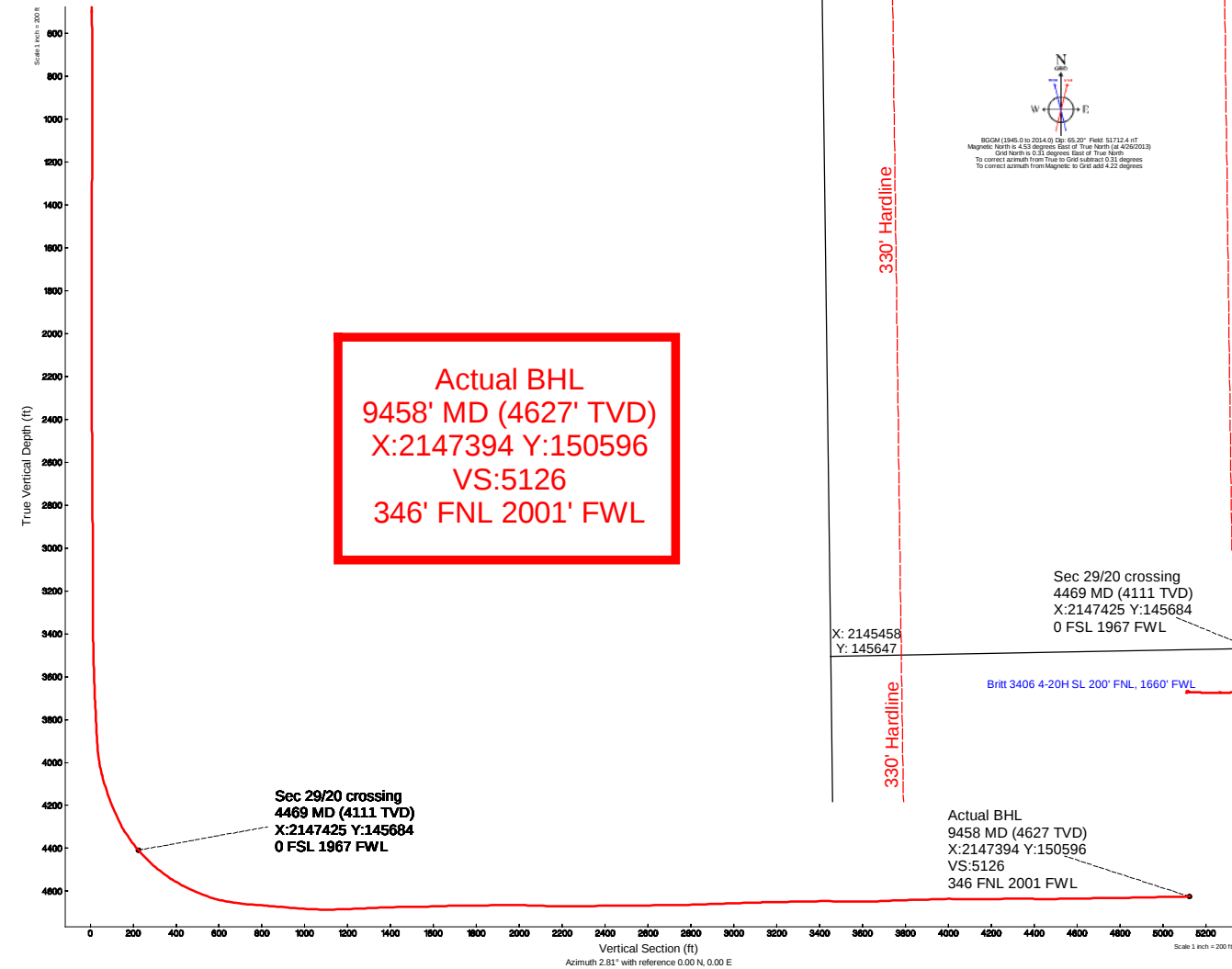
Britt 3406 4-20H SL 200' FNL, 1660' FWL

Harper County, Kansas (Sandridge Energy) NAD27 / Grid

Pilot reference wellpath is Plan 1		Grid System: NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet	
True vertical depths are referenced to Unit 310 (KB)		North Reference: Grid north	
Measured depths are referenced to Unit 310 (KB)		Scale: True distance	
Unit 310 (KB) to Mean Sea Level: 1309 feet		Depths are in feet	
Mean Sea Level to Mud line (At Slot: Britt 3406 4-20H SL 200' FNL, 1660' FWL): -1294 feet		Created by: boomart on 4/26/2013	
Coordinates are in feet referenced to Slot			

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Britt 3406 4-20H Sec. 29-34S-6W			2147121.000	145477.000	37°03'54.375"N	97°59'44.951"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Britt 3406 4-20H SL 200' FNL, 1660' FWL	0.00	0.00	2147121.000	145477.000	37°03'54.375"N	97°59'44.951"W
Unit 310 (KB) to Mud line (At Slot: Britt 3406 4-20H SL 200' FNL, 1660' FWL)			15ft			
Mean Sea Level to Mud line (At Slot: Britt 3406 4-20H SL 200' FNL, 1660' FWL)			-1294ft			
Unit 310 (KB) to Mean Sea Level			1309ft			





Actual Wellpath Report

Sandridge Britt 3406 4-20H (Unit 310)_Final Surveys.
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Britt 3406 4-20H (Unit 310)
Area	Kansas	Well	Britt 4-20H SL(200 FNL, 1660 FWL) Sec 29
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Actual Britt 3406 4-20H
Facility	Britt 4-20H and Taylor 3-29H PAD 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	Adammic
Scale	1.00005	Report Generated	10/Jun/2013 at 9:59:15 AM
Wellbore last revised	05-13-2013	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	2147121.00	145477.00	37°03'54.375"N	97°59'44.951"W
Facility Reference Pt			2147121.00	145477.00	37°03'54.375"N	97°59'44.951"W
Field Reference Pt			2132248.82	161602.28	37°06'34.560"N	98°02'47.460"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Unit 310 (KB) to Facility Vertical Datum	15.00ft
Horizontal Reference Pt	Slot	Unit 310 (KB) to Mean Sea Level	1310.00ft
Vertical Reference Pt	Unit 310 (KB)	Unit 310 (KB) to Mud Line at Slot (Britt 3406 4-20H (Unit 310))	15.00ft
MD Reference Pt	Unit 310 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	2.81°



Actual Wellpath Report

Sandridge Britt 3406 4-20H (Unit 310)_Final Surveys.
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Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Actual Britt 3406 4-20H
Facility	Britt 4-20H and Taylor 3-29H PAD Sec 29-34S-6W		

WELLPATH DATA (132 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	19.350	0.00	0.00	0.00	0.00	2147121.00	145477.00	0.00	
15.00	0.000	19.350	15.00	0.00	0.00	0.00	2147121.00	145477.00	0.00	
244.00	0.750	19.350	243.99	1.44	1.41	0.50	2147121.50	145478.41	0.33	
500.00	0.750	19.350	499.97	4.65	4.58	1.61	2147122.61	145481.58	0.00	
654.00	1.000	19.350	653.95	6.90	6.79	2.39	2147123.39	145483.79	0.16	
725.00	0.040	19.350	724.95	7.52	7.40	2.60	2147123.60	145484.40	1.35	
1000.00	0.040	17.580	999.95	7.71	7.58	2.66	2147123.66	145484.59	0.00	
1184.00	1.000	113.660	1183.94	7.20	7.00	4.15	2147125.15	145484.00	0.55	
1214.00	1.640	123.660	1213.93	6.88	6.66	4.75	2147125.75	145483.66	2.26	
1245.00	2.320	125.240	1244.91	6.32	6.05	5.63	2147126.63	145483.05	2.20	
1276.00	3.350	116.940	1275.88	5.61	5.28	6.95	2147127.95	145482.28	3.57	
1306.00	4.250	110.630	1305.81	4.91	4.49	8.77	2147129.77	145481.49	3.30	
1367.00	5.090	98.770	1366.61	3.94	3.28	13.56	2147134.56	145480.28	2.09	
1459.00	5.030	88.890	1458.25	3.79	2.74	21.63	2147142.63	145479.74	0.95	
1551.00	5.130	95.120	1549.89	3.90	2.45	29.76	2147150.76	145479.45	0.61	
1642.00	5.080	90.840	1640.53	3.88	2.03	37.84	2147158.84	145479.03	0.42	
1734.00	5.050	85.580	1732.17	4.53	2.28	45.95	2147166.95	145479.28	0.51	
1829.00	5.090	91.050	1826.80	5.19	2.52	54.33	2147175.33	145479.52	0.51	
1923.00	5.110	97.770	1920.43	4.95	1.88	62.65	2147183.65	145478.88	0.64	
2018.00	5.070	96.840	2015.05	4.29	0.81	71.01	2147192.01	145477.81	0.10	
2113.00	5.090	98.910	2109.68	3.55	-0.34	79.34	2147200.34	145476.66	0.19	
2207.00	4.990	90.510	2203.32	3.27	-1.03	87.54	2147208.55	145475.97	0.79	
2302.00	5.090	89.260	2297.95	3.70	-1.01	95.89	2147216.89	145475.99	0.16	
2397.00	5.020	82.990	2392.58	4.67	-0.45	104.23	2147225.23	145476.55	0.59	
2491.00	4.990	89.380	2486.22	5.61	0.10	112.40	2147233.40	145477.10	0.59	
2586.00	5.110	95.160	2580.86	5.69	-0.24	120.74	2147241.75	145476.76	0.55	
2681.00	5.400	89.290	2675.46	5.79	-0.56	129.43	2147250.43	145476.44	0.64	
2776.00	5.170	84.730	2770.05	6.67	-0.11	138.16	2147259.17	145476.89	0.50	
2871.00	5.070	83.490	2864.68	7.95	0.76	146.59	2147267.60	145477.76	0.16	
2966.00	4.990	88.960	2959.31	8.91	1.31	154.89	2147275.90	145478.31	0.51	
3061.00	5.800	92.340	3053.89	9.22	1.19	163.82	2147284.83	145478.19	0.92	
3156.00	6.040	98.360	3148.38	8.78	0.26	173.56	2147294.57	145477.26	0.70	
3251.00	5.750	89.970	3242.88	8.53	-0.46	183.27	2147304.27	145476.54	0.96	
3346.00	5.620	86.970	3337.42	9.24	-0.21	192.67	2147313.68	145476.79	0.34	
3441.00	5.680	80.720	3431.95	10.70	0.79	201.96	2147322.96	145477.79	0.65	
3535.00	5.670	80.010	3525.49	12.70	2.35	211.12	2147332.13	145479.35	0.08	
3630.00	5.630	71.030	3620.03	15.47	4.68	220.15	2147341.16	145481.68	0.93	
3725.00	5.880	63.490	3714.56	19.59	8.36	228.91	2147349.92	145485.36	0.84	
3820.00	5.770	64.350	3809.07	24.24	12.60	237.57	2147358.58	145489.60	0.15	
3915.00	5.990	60.000	3903.57	29.21	17.15	246.17	2147367.18	145494.15	0.52	
3946.00	7.380	49.790	3934.36	31.44	19.24	249.09	2147370.10	145496.24	5.88	
3978.00	9.100	42.360	3966.03	34.80	22.44	252.36	2147373.37	145499.44	6.31	
4009.00	10.700	35.290	3996.56	39.11	26.60	255.68	2147376.69	145503.60	6.47	
4041.00	12.670	25.950	4027.90	44.85	32.18	258.93	2147379.94	145509.18	8.52	
4073.00	14.510	20.100	4059.01	51.90	39.10	261.84	2147382.86	145516.10	7.17	



Actual Wellpath Report

Sandridge Britt 3406 4-20H (Unit 310)_Final Surveys.
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REFERENCE WELLPATH IDENTIFICATION			
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Facility	Britt 4-20H and Taylor 3-29H PAD Sec 29-34S-6W		

WELLPATH DATA (132 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
4104.00	16.670	19.350	4088.86	59.88	46.95	264.65	2147385.66	145523.95	7.00	
4136.00	19.040	19.590	4119.32	69.27	56.19	267.92	2147388.94	145533.20	7.41	
4167.00	19.570	18.570	4148.58	79.11	65.88	271.27	2147392.28	145542.88	2.03	
4199.00	20.550	18.390	4178.64	89.68	76.29	274.75	2147395.76	145553.29	3.07	
4230.00	22.970	18.720	4207.42	100.74	87.18	278.41	2147399.42	145564.19	7.82	
4262.00	24.730	18.480	4236.69	113.19	99.45	282.54	2147403.55	145576.45	5.51	
4294.00	26.370	18.310	4265.56	126.49	112.54	286.89	2147407.90	145589.55	5.13	
4325.00	28.940	17.290	4293.02	140.38	126.24	291.28	2147412.30	145603.25	8.43	
4357.00	31.960	14.290	4320.60	156.19	141.85	295.68	2147416.69	145618.85	10.56	
4389.00	34.530	10.370	4347.37	173.48	158.98	299.40	2147420.41	145635.99	10.47	
4420.00	36.380	7.140	4372.62	191.36	176.75	302.12	2147423.14	145653.76	8.49	
4452.00	38.610	2.640	4398.01	210.81	196.14	303.76	2147424.78	145673.15	11.03	
4469.00†	40.299	1.419	4411.14	221.62	206.94	304.15	2147425.16	145683.95	10.94	Sec 29/20 crossing 4469 MD (4111 TVD) X:2147425 Y:145684 0 FSL 1967 FWL
4484.00	41.800	0.410	4422.45	231.46	216.79	304.30	2147425.31	145693.80	10.94	
4516.00	44.500	358.750	4445.79	253.31	238.67	304.13	2147425.15	145715.68	9.15	
4547.00	47.020	357.960	4467.42	275.45	260.87	303.49	2147424.51	145737.88	8.33	
4579.00	49.380	357.580	4488.75	299.21	284.70	302.56	2147423.58	145761.71	7.43	
4611.00	52.290	357.350	4508.95	323.91	309.49	301.46	2147422.48	145786.50	9.11	
4642.00	55.040	357.200	4527.32	348.76	334.43	300.28	2147421.29	145811.44	8.88	
4674.00	57.410	357.730	4545.11	375.24	361.00	299.10	2147420.11	145838.01	7.53	
4705.00	59.790	357.930	4561.26	401.60	387.44	298.10	2147419.11	145864.46	7.70	
4737.00	62.280	358.500	4576.75	429.51	415.42	297.23	2147418.24	145892.44	7.94	
4769.00	64.520	359.140	4591.08	458.05	444.02	296.64	2147417.66	145921.04	7.22	
4800.00	66.380	359.240	4603.96	486.19	472.22	296.24	2147417.26	145949.24	6.01	
4832.00	68.540	359.080	4616.23	515.68	501.77	295.81	2147416.82	145978.79	6.77	
4863.00	71.460	359.510	4626.83	544.75	530.89	295.45	2147416.47	146007.92	9.51	
4895.00	74.190	0.100	4636.28	575.28	561.46	295.35	2147416.36	146038.49	8.71	
4927.00	76.710	0.840	4644.32	606.23	592.43	295.61	2147416.62	146069.46	8.19	
4958.00	79.070	0.590	4650.82	636.51	622.74	295.98	2147417.00	146099.77	7.65	
4990.00	81.470	0.430	4656.23	668.03	654.28	296.26	2147417.28	146131.30	7.52	
5053.00	85.410	0.330	4663.42	730.54	716.85	296.68	2147417.69	146193.88	6.26	
5148.00	85.230	0.600	4671.17	825.15	811.53	297.45	2147418.46	146288.56	0.34	
5242.00	85.250	0.380	4678.97	918.75	905.20	298.25	2147419.26	146382.24	0.23	
5337.00	86.150	0.000	4686.10	1013.38	999.93	298.56	2147419.58	146476.98	1.03	
5369.00	88.830	359.600	4687.50	1045.30	1031.90	298.45	2147419.46	146508.94	8.47	
5445.00	90.280	359.950	4688.09	1121.19	1107.89	298.15	2147419.16	146584.94	1.96	
5508.00	92.310	358.760	4686.67	1184.05	1170.87	297.44	2147418.46	146647.92	3.73	
5603.00	92.540	0.060	4682.65	1278.80	1265.78	296.47	2147417.48	146742.83	1.39	
5698.00	92.340	0.420	4678.60	1373.62	1360.69	296.86	2147417.88	146837.75	0.43	
5792.00	90.620	359.750	4676.17	1467.48	1454.65	297.00	2147418.02	146931.72	1.96	
5887.00	91.620	0.510	4674.32	1562.35	1549.63	297.22	2147418.23	147026.70	1.32	
5981.00	91.580	359.340	4671.69	1656.19	1643.60	297.09	2147418.11	147120.67	1.24	
6076.00	90.530	359.700	4669.94	1751.02	1738.57	296.30	2147417.31	147215.65	1.17	
6171.00	90.930	0.730	4668.73	1845.91	1833.56	296.66	2147417.67	147310.64	1.16	
6266.00	90.590	0.410	4667.47	1940.83	1928.55	297.60	2147418.61	147405.64	0.49	



Actual Wellpath Report

Sandridge Britt 3406 4-20H (Unit 310)_Final Surveys.
Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Britt 3406 4-20H (Unit 310)
Area	Kansas	Well	Britt 4-20H SL(200 FNL, 1660 FWL) Sec 29
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Actual Britt 3406 4-20H
Facility	Britt 4-20H and Taylor 3-29H PAD Sec 29-34S-6W		

WELLPATH DATA (132 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	
6361.00	88.000	359.650	4668.64	2035.70	2023.54	297.65	2147418.66	147500.62	2.84		
6456.00	88.410	358.470	4671.62	2130.45	2118.47	296.09	2147417.11	147595.57	1.31		
6551.00	89.410	359.400	4673.42	2225.21	2213.44	294.33	2147415.34	147690.53	1.44		
6644.00	91.670	359.670	4672.55	2318.05	2306.42	293.57	2147414.59	147783.53	2.45		
6705.00	90.990	359.110	4671.13	2378.93	2367.40	292.92	2147413.94	147844.51	1.44		
6766.00	90.400	359.260	4670.39	2439.80	2428.39	292.06	2147413.07	147905.50	1.00		
6860.00	90.370	358.770	4669.76	2533.59	2522.38	290.44	2147411.45	147999.49	0.52		
6924.00	91.290	358.360	4668.83	2597.41	2586.35	288.84	2147409.85	148063.46	1.57		
7019.00	89.440	358.030	4668.23	2692.09	2681.30	285.85	2147406.86	148158.41	1.98		
7082.00	92.190	358.430	4667.33	2754.88	2744.25	283.90	2147404.91	148221.37	4.41		
7177.00	91.700	357.690	4664.11	2849.50	2839.14	280.69	2147401.70	148316.27	0.93		
7240.00	92.170	356.950	4661.98	2912.17	2902.04	277.74	2147398.75	148379.16	1.39		
7272.00	92.130	357.370	4660.78	2943.99	2933.98	276.16	2147397.17	148411.10	1.32		
7303.00	91.880	357.240	4659.70	2974.83	2964.92	274.70	2147395.71	148442.05	0.91		
7398.00	91.980	358.290	4656.50	3069.41	3059.80	271.00	2147392.01	148536.93	1.11		
7461.00	91.170	359.110	4654.76	3132.22	3122.75	269.57	2147390.58	148599.89	1.83		
7525.00	91.450	358.930	4653.30	3196.06	3186.73	268.47	2147389.49	148663.87	0.52		
7619.00	90.590	358.790	4651.63	3289.82	3280.69	266.60	2147387.62	148757.84	0.93		
7714.00	91.630	357.370	4649.79	3384.48	3375.62	263.42	2147384.43	148852.77	1.85		
7809.00	87.780	357.930	4650.28	3479.07	3470.52	259.53	2147380.54	148947.67	4.10		
7873.00	89.750	359.170	4651.66	3542.88	3534.48	257.91	2147378.92	149011.63	3.64		
7936.00	89.910	359.070	4651.84	3605.75	3597.47	256.94	2147377.95	149074.63	0.30		
7999.00	93.070	0.050	4650.20	3668.62	3660.44	256.46	2147377.47	149137.60	5.25		
8094.00	92.190	359.870	4645.85	3763.40	3755.34	256.39	2147377.40	149232.50	0.95		
8189.00	91.630	359.440	4642.68	3858.20	3850.28	255.82	2147376.83	149327.45	0.74		
8284.00	92.250	0.000	4639.46	3953.01	3945.23	255.36	2147376.37	149422.40	0.88		
8379.00	88.400	358.760	4638.92	4047.81	4040.20	254.33	2147375.34	149517.38	4.26		
8474.00	90.000	0.480	4640.25	4142.65	4135.18	253.70	2147374.71	149612.36	2.47		
8569.00	91.490	0.930	4639.02	4237.58	4230.16	254.87	2147375.88	149707.35	1.64		
8632.00	91.390	1.530	4637.43	4300.53	4293.13	256.22	2147377.23	149770.32	0.97		
8727.00	87.590	2.110	4638.28	4395.50	4388.06	259.24	2147380.25	149865.25	4.05		
8790.00	90.490	2.210	4639.33	4458.48	4451.00	261.61	2147382.62	149928.19	4.61		
8853.00	92.040	3.030	4637.94	4521.46	4513.92	264.49	2147385.50	149991.11	2.78		
8948.00	90.370	1.750	4635.94	4616.43	4608.81	268.45	2147389.46	150086.01	2.21		
9011.00	90.220	1.890	4635.62	4679.42	4671.77	270.45	2147391.46	150148.98	0.33		
9075.00	90.150	1.760	4635.41	4743.41	4735.74	272.49	2147393.50	150212.95	0.23		
9138.00	91.690	0.620	4634.40	4806.37	4798.72	273.80	2147394.81	150275.93	3.04		
9201.00	92.130	0.600	4632.30	4869.29	4861.68	274.47	2147395.48	150338.89	0.70		
9264.00	90.680	359.500	4630.76	4932.20	4924.66	274.52	2147395.53	150401.87	2.89		
9327.00	91.050	359.670	4629.81	4995.09	4987.65	274.06	2147395.08	150464.87	0.65		
9415.00	91.260	359.590	4628.03	5082.93	5075.63	273.50	2147394.51	150552.85	0.26		
9458.00	91.260	359.590	4627.09	5125.86	5118.62	273.19	2147394.20	150595.84	0.00	Actual BHL 9458 MD (4627 TVD) X:2147394 Y:150596 VS:5126 346 FNL 2001 FWL	

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
PBHL 330' FNL, 1980' FWL		4638.34	5128.78	251.99	2147373.00	150606.00	37°04'45.071"N	97°59'41.499"W	point

WELLPATH COMPOSITION - Ref Wellbore: Actual Britt 3406 4-20H Ref Wellpath: AWP (Final)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	654.00	Generic gyro - northseeking (Standard)	Rig Survey	Actual Britt 3406 4-20H
654.00	9415.00	NaviTrak (Standard)	INTEQ MWD	Actual Britt 3406 4-20H
9415.00	9458.00	Blind Drilling (std)	Projection to bit	Actual Britt 3406 4-20H



BASIN SERVICES, LLC
P O BOX 4268
ABILENE, TX 79608-4268
Phone # (325)690-0053
Fax # (325)698-0055

TICKET

TICKET NUMBER: WY-5-1
TICKET DATE: 04/24/2013

SANDRIDGE ENERGY
123 ROBERT S KERR AVE
OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK
LEASE: Britt
WELL#: 3406 4-20H
RIG #: Unit 310
Co/St: HARPER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
4/24/2013 DRILLED 30" CONDUCTOR HOLE			
4/24/2013 20" CONDUCTOR PIPE (.250 WALL)			
4/24/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
4/24/2013 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
4/24/2013 DRILLED 20" MOUSE HOLE (PER FOOT)			
4/24/2013 16" CONDUCTOR PIPE (.250 WALL)			
4/24/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
4/24/2013 WELDING SERVICES FOR PIPE & LIDS			
4/24/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
4/24/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
4/24/2013 CEMENT			
4/24/2013 TAXABLE ITEMS			9,050.00
4/24/2013 BID + TAXABLE ITEMS			7,200.00

Sub Total:

16,250.00

Tax HARPER COUNTY (6.3 %):

570.15

I, the undersigned, acknowledge the acceptance of the above listed goods and/or services.

TICKET TOTAL:

\$ 16,820.15

Approved Signature _____

AFE Number:

DC 12924

Well Name:

Britt 3406 4-20H

Code:

850,010

Amount:

16,820.15

Co. Man:

MICHAEL KULCHISKY

Co. Man Sig.:

[Signature]

Notes:

Check Mr. David O.

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HALLIBURTONREGULATORY DEPT
SANDRIDGE ENERGY**Cementing Job Summary***The Road to Excellence Starts with Safety*

Sold To #: 305021	Ship To #: 2995231	Quote #:	Sales Order #: 900396313
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Britt 3406	Well #: 4-20H	API/UWI #:	
Field:	City (SAP): ANTHONY	County/Parish: Harper	State: Kansas
Legal Description: Section 29 Township 34S Range 6W			
Contractor: UNIT		Rig/Platform Name/Num: 310	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FRENCH, JEREMY		Srvs Supervisor: WALTON, SCOTTY	MBU ID Emp #: 478229

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CRAWFORD, ANDREW B	11.5	480612	SEELY, MATTHEW Lance	11.5	507547	STOOPS, LEVI Keith	11.5	523378
WALTON, SCOTTY Dwayne	11.5	478229						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
4-27-13	9	0	4-28-13	2.5	2			

TOTAL

Total is the sum of each column separately

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
				BHST	700. ft	700. ft	Wk Ht Above Floor			

Job Times

Date	Time	Time Zone
27 - Apr - 2013	12:00	CST
27 - Apr - 2013	15:00	CST
28 - Apr - 2013	00:39	CST
28 - Apr - 2013	01:24	CST
28 - Apr - 2013	02:30	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
12.25" Open Hole				12.25				80.	700.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	700.		
Preset Conductor	Unknown		20.	19.124	94.			.	80.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size		

Fluid Data

Stage/Plug #: 1	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
Fluid #	Stage Type							

HALLIBURTON

Cementing Job Summary

1	Fresh Water		10.00	bbl	8.33	.0	.0	.0	
2	HLC STANDARD	EXTENDACEM (TM) SYSTEM (452981)	220.0	sacks	12.4	2.11	11.64		11.64
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.637 Gal	FRESH WATER							
3	STANDARDt	SWIFTCEM (TM) SYSTEM (452990)	150.0	sacks	15.6	1.2	5.32		5.32
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5.319 Gal	FRESH WATER							
4	Displacement		51.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns	50	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	42 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

HALLIBURTON

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2995231	Quote #:	Sales Order #: 900406906
Customer: SANDRIDGE ENERGY INC EBUSINESS	Customer Rep: Webster, John		
Well Name: Britt 3406	Well #: 4-20H	API/UWI #:	
Field:	City (SAP): ANTHONY	County/Parish: Harper	State: Kansas

Legal Description: Section 29 Township 34S Range 6W

Contractor: UNIT Rig/Platform Name/Num: 310

Job Purpose: Cement Intermediate Casing

Well Type: Development Well Job Type: Cement Intermediate Casing

Sales Person: FRENCH, JEREMY Srvc Supervisor: LEACH, CLIFFORD MBU ID Emp #: 475738

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
AIRINGTON, JOSEPH Tyler	10.5	497322	LEACH, CLIFFORD Alfred	10.5	475738	MOSES, MORAINO I	10.5	517736
WELLMAN, KIMBERLY Kaye	10.5	530092						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5-2-13	10.5							

TOTAL Total is the sum of each column separately

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD)	From	To	Job Times	Date	Time	Time Zone
				BHST	5400. ft					Called Out	02 - May - 2013	00:00	CST
										On Location	02 - May - 2013	08:00	CST
										Job Started	02 - May - 2013	16:40	CST
										Job Completed	02 - May - 2013	17:40	CST
										Departed Loc	02 - May - 2013	18:30	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
8.75" Open Hole				8.75				700.	5400.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5400.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	700.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug		1	
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container		1	
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1	Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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HALLIBURTON

Cementing Job Summary

1	Fresh Water		10.00	bbl	8.33	.0	.0	.0	
2	50/50 POZ STANDARD (w/ 2% extra gel)	ECONOCEM (TM) SYSTEM (452992)	140.0	sacks	13.6	1.53	7.24		7.24
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	7.24 Gal	FRESH WATER							
3	Premium	HALCEM (TM) SYSTEM (452986)	190.0	sacks	15.6	1.19	5.08		5.08
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	5.076 Gal	FRESH WATER							
4	Displacement		202	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement	202	Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	202	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	6	Displacement	6	Avg. Job			6
Cement Left In Pipe	Amount	83.87 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/11/2013
Job End Date:	6/15/2013
State:	Kansas
County:	Harper
API Number:	15-077-21927-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Britt 3406 4-20H
Longitude:	-97.99580000
Latitude:	37.06410000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,627
Total Base Water Volume (gal):	1,796,608
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
C102	Bosque Disposal Systems, LLC	Oxidizer					
			Chlorine Dioxide	10049-04-4	15.00000	100.00000	
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethoxylated oleic acid	9004-96-0	0.02891		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Hydrogen chloride	7647-01-0	2.75693		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Propan-2-ol	67-63-0	0.00107		

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Potassium hydroxide	1310-58-3	0.00024		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			C14 alpha olefin ethoxylate	84133-50-6	0.00434		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitol Tetraoleate	61723-83-9	0.00867		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ammonium chloride	12125-02-9	0.14454		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Distillates (petroleum), hydrotreated light	64742-47-8	0.30353		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-propenamid	79-06-1	0.00130		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethane-1,2-diol	107-21-1	0.00943		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Methanol	67-56-1	0.01112		

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alkenes, C>10 a-	64743-02-8	0.00139		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.00578		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.00434		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.00434		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00534		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00313		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Water (Including Mix Water Supplied by Client)*	NA			
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					

			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.23126		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium sulfocyanate	540-72-7	0.00752		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-Propenoic acid, ammonium salt	10604-69-0	0.00708		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Fatty acids, tall-oil	61790-12-3	0.00816		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Prop-2-yn-1-ol	107-19-7	0.00208		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00672		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Trisodium ortho phosphate	7601-54-9	0.03313		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium erythorbate	6381-77-7	0.02110		

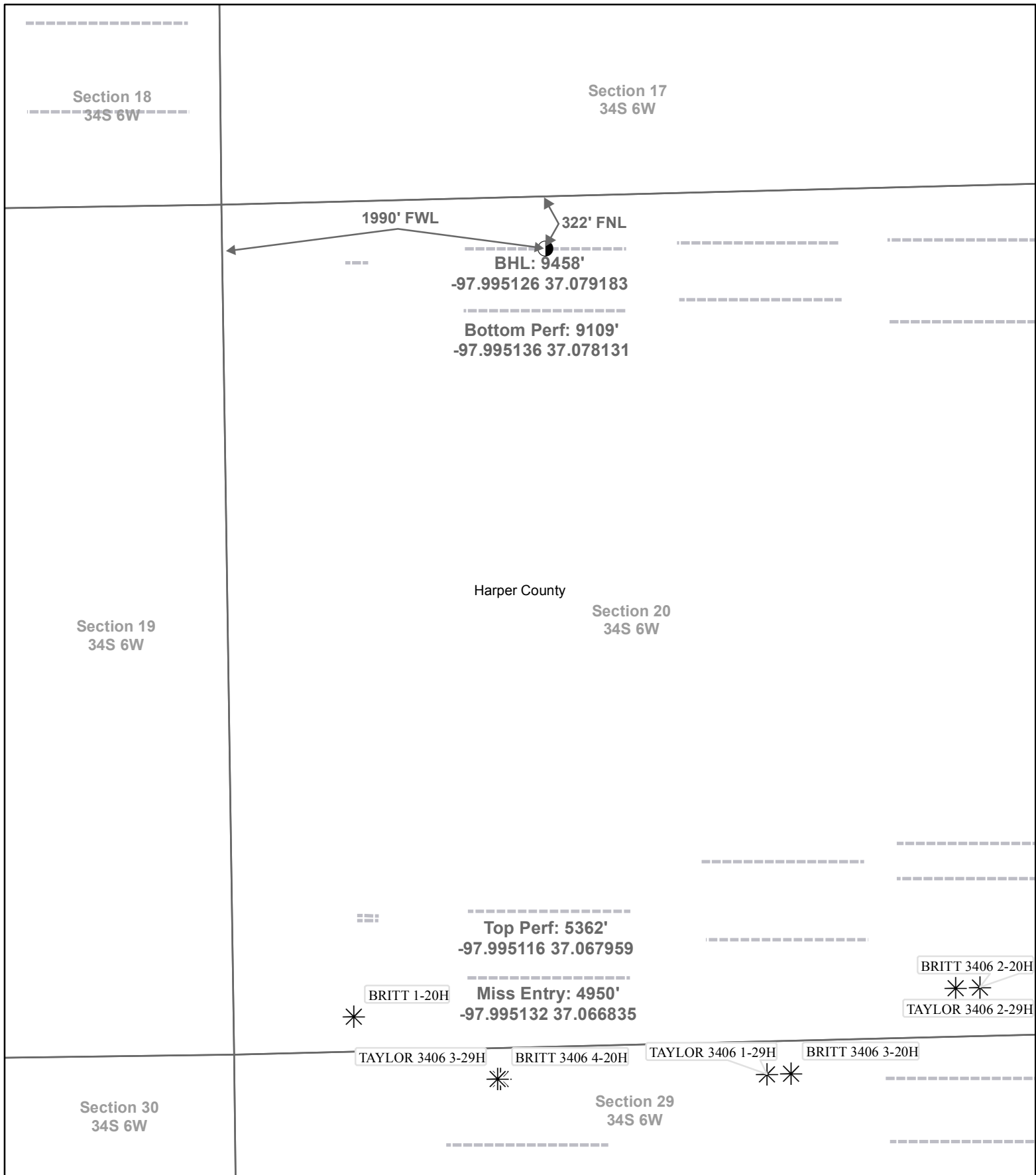
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Polyethylene glycol monohexyl ether	31726-34-8	0.12192		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Crystalline silica	14808-60-7	96.16016		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitan monooleate	1338-43-8	0.02891		

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)



Actual Bottom-Hole Location of Britt 3406 4-20H
Harper County, Kansas
T&R: 34S 6W
Section: 20, 1990' FWL & 322' FNL
-97.995126 37.079183

1 in = 785 ft



● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

0 550 1,100 2,200 Feet

Draftsman:

Aaron Birk

Draft Date: 8/14/2013

Drawing Name/Number:

Addendum_Britt 3406 4-20H.mxd

Coordinate System:

NAD 1927 State Plane
 Kansas South FIPS: 1502