



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1099193  
OIL & GAS CONSERVATION DIVISION

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
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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: \_\_\_\_\_



1099193

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> 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 <i>(Amount and Kind of Material Used)</i>	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
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Britt 3406 2-20H
Doc ID	1099193

All Electric Logs Run

R1D1 Nuclear Final
R1D1 Resistivity Final
Mudlog
Boresight

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Doc ID	1099193

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8401-8770	4318 bbls of water, 36 bbls acid, 75M lbs sand, 4354 TLTR	
5	8034-8320	4669 bbls of water, 36 bbls acid, 75M lbs sand, 9325 TLTR	
5	7678-7965	4191 bbls of water, 36 bbls acid, 75M lbs sand, 13638 TLTR	
5	7323-7609	4336 bbls of water, 36 bbls acid, 75M lbs sand, 18083 TLTR	
5	6967-7254	4228 bbls of water, 36 bbls acid, 76M lbs sand, 22423 TLTR	
5	6612-6898	4217 bbls of water, 36 bbls acid, 75M lbs sand, 26742 TLTR	
5	6256-6543	4108 bbls of water, 36 bbls acid, 74M lbs sand, 30941 TLTR	
5	5901-6187	4291 bbls of water, 36 bbls acid, 75M lbs sand, 35327 TLTR	
5	5545-5832	4158 bbls of water, 36 bbls acid, 74M lbs sand, 39563 TLTR	
5	5190-5476	4835 bbls of water, 36 bbls acid, 75M lbs sand, 44467 TLTR	

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### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	75	90	Mid-Continent Conductor grout	10	none
Surface	12.25	9.63	36	700	Halliburton Extendacem and Swiftcem Systems	380	3% Calcium Chloride, .25 lbm Poly-E-Flake
Intermediate	8.75	7	26	5143	Halliburton Econocem and Halcem Systems	310	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite
Production Liner	6.12	4.5	11.6	8882	Halliburton Econocem System	490	.4% Halad(R)-9, 10lbm Kol-Seal, 2% Bentonite, .25lbm Poly-E-Flake, .2% CFR-3, w/o Defoamer

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

October 29, 2012

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

Re: ACO1  
API 15-077-21879-01-00  
Britt 3406 2-20H  
SE/4 Sec.20-34S-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

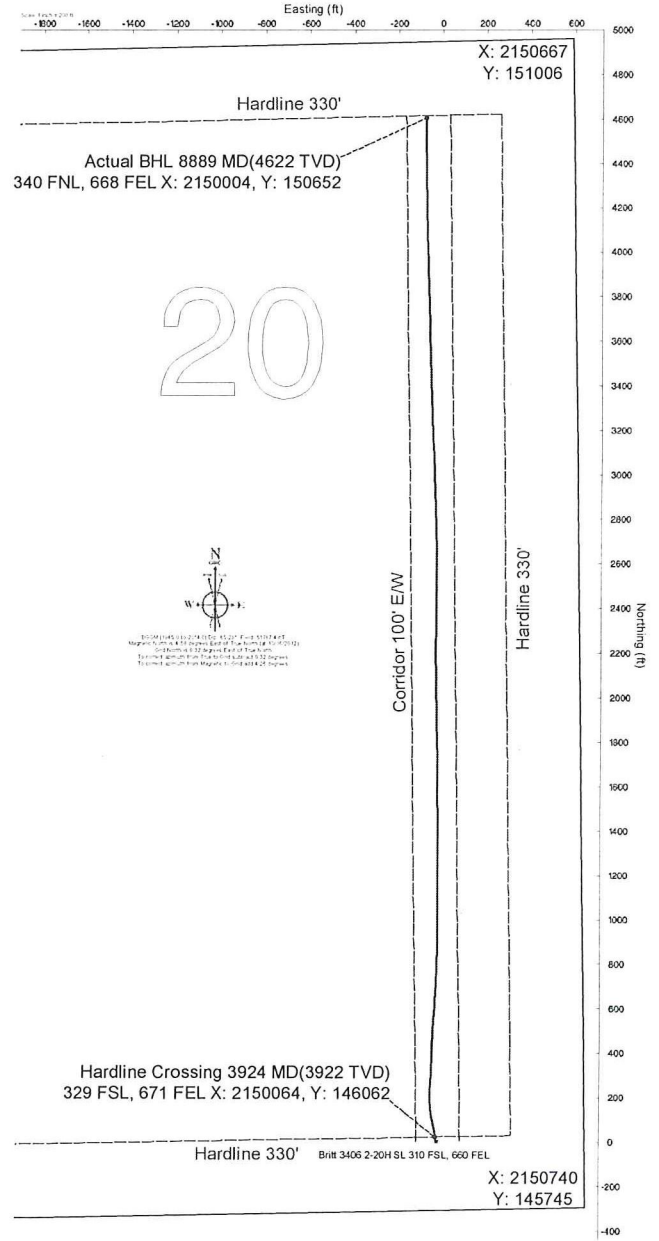
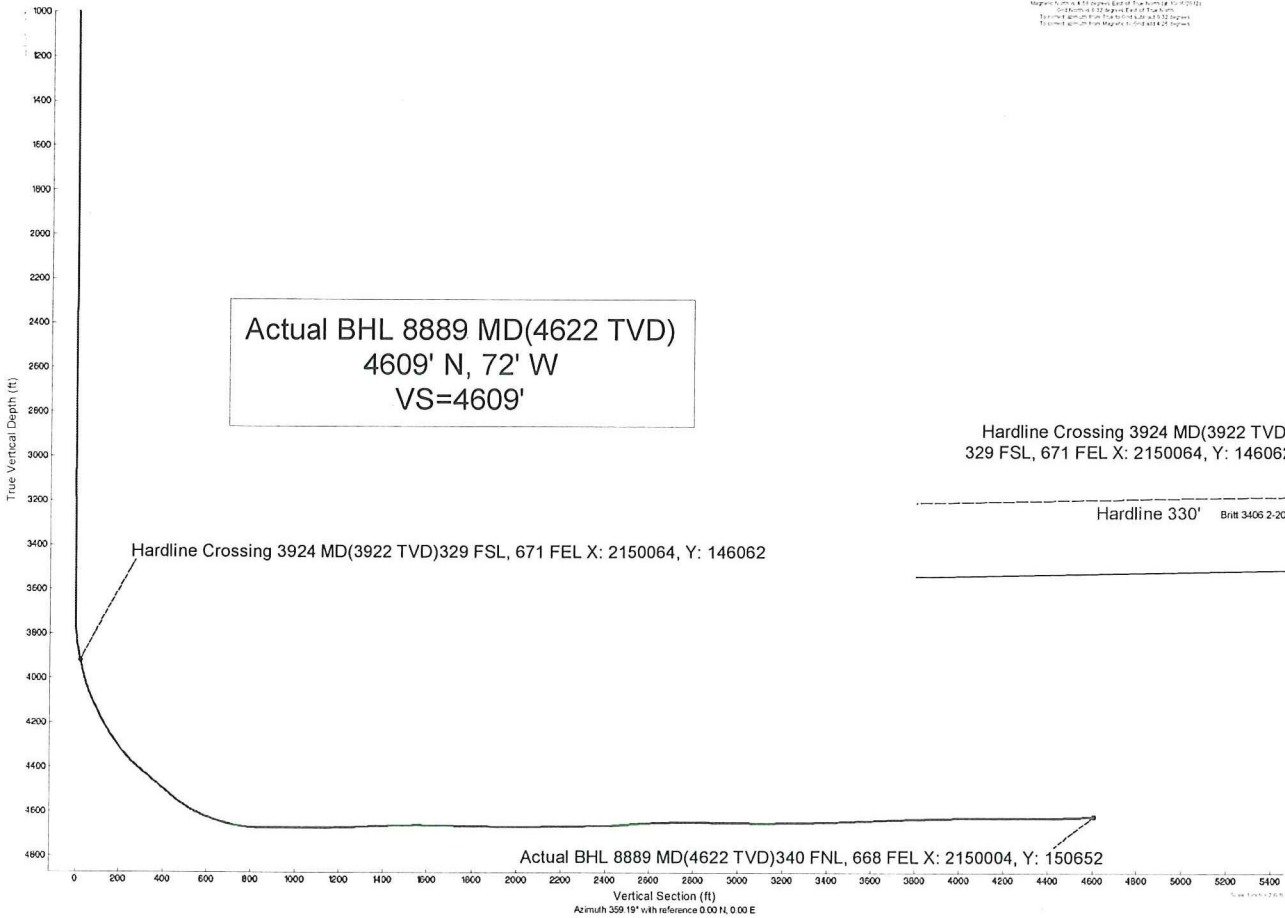
# Sandridge Energy

Britt 3406 2-20H (Final)

Britt 3406 2-20H SL 310 FSL, 660 FEL

Harper County, Kansas (Sandridge Energy) NAD27 / Grid

Plot reference well(s) is Plan 1		Grid System NAD27 / Lambert Kansas SP, Southern Zone (1982), 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: 1313 feet		Depths are in feet	
Mean Sea Level to Mud line (At Slot: Britt 3406 2-20H SL 310 FSL, 660 FEL): -1298 feet		Created by: bmoorman on 10/16/2012	
Coordinates are in feet referenced to Slot			
Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude Longitude
Britt 3406 2-20H Sec: 20-34S-6W	2150078.000	146043.000	37°03'59.8111"N 97°59'08.457"W
Slot	Local E (ft)	Local N (ft)	Latitude Longitude
Britt 3406 2-20H SL 310 FSL, 660 FEL	0.00	0.00	37°03'59.8111"N 97°59'08.457"W
Unit 310 (KB) to Mud line (At Slot: Britt 3406 2-20H SL 310 FSL, 660 FEL)	158		
Mean Sea Level to Mud line (At Slot: Britt 3406 2-20H SL 310 FSL, 660 FEL)	-1298		
Unit 310 (KB) to Mean Sea Level	1313		





# Actual Wellpath Report

Sandridge Britt 3406 2-20H\_Final Surveys.

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## REFERENCE WELLPATH IDENTIFICATION

Operator	Sandridge Energy	Slot	Britt 3406 2-20H SL 310 FSL, 660 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Britt 3406 2-20H Actual
Facility	Britt 3406 2-20H Sec. 20-34S-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	0.32° East	User	Broomarl
Scale	1.00005	Report Generated	10/30/2012 at 10:26:14 AM
Wellbore last revised	10-16-2012	Database/Source file	WA_OldahomaCity

## 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	2150076.00	146043.00	37°03'59.811"N	97°59'08.457"W
Facility Reference Pt			2150076.00	146043.00	37°03'59.811"N	97°59'08.457"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	1313.00ft
Vertical Reference Pt	Unit 310 (KB)	Unit 310 (KB) to Mud Line at Slot (Britt 3406 2-20H SL 310 FSL, 660 FEL)	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	359.19°





# Actual Wellpath Report

Sandridge Britt 3406 2-20H\_Final Surveys.

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Facility	Britt 3406 2-20H Sec. 20-34S-6W		

WELLPATH DATA (121 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	274.740	0.00	0.00	0.00	0.00	2150076.00	146043.00	0.00	
15.00	0.000	274.740	15.00	0.00	0.00	0.00	2150076.00	146043.00	0.00	
818.00	0.960	274.740	817.96	0.65	0.56	-6.70	2150069.30	146043.56	0.12	
910.00	0.830	275.560	909.95	0.80	0.68	-8.14	2150067.86	146043.68	0.14	
1001.00	0.690	278.190	1000.94	0.96	0.83	-9.33	2150066.67	146043.83	0.16	
1093.00	0.550	250.780	1092.94	0.90	0.76	-10.30	2150065.70	146043.76	0.35	
1185.00	0.260	237.790	1184.94	0.66	0.50	-10.89	2150065.11	146043.50	0.33	
1277.00	0.310	184.880	1276.93	0.30	0.14	-11.09	2150064.91	146043.14	0.28	
1369.00	0.340	147.650	1368.93	-0.18	-0.33	-10.97	2150065.03	146042.67	0.23	
1461.00	0.440	95.840	1460.93	-0.45	-0.60	-10.47	2150065.53	146042.40	0.38	
1557.00	0.230	90.550	1556.93	-0.50	-0.64	-9.91	2150066.09	146042.36	0.22	
1650.00	0.490	115.400	1649.93	-0.68	-0.81	-9.36	2150066.64	146042.19	0.32	
1742.00	0.660	115.690	1741.92	-1.09	-1.21	-8.53	2150067.47	146041.79	0.18	
1932.00	0.400	34.390	1931.92	-1.04	-1.14	-7.17	2150068.83	146041.86	0.38	
2027.00	0.450	43.270	2026.91	-0.50	-0.59	-6.73	2150069.27	146042.41	0.09	
2121.00	0.480	72.450	2120.91	-0.12	-0.21	-6.10	2150069.90	146042.79	0.25	
2217.00	0.430	121.580	2216.91	-0.20	-0.27	-5.41	2150070.59	146042.73	0.40	
2312.00	0.690	193.970	2311.91	-0.94	-1.02	-5.24	2150070.76	146041.98	0.73	
2407.00	0.500	154.090	2406.90	-1.87	-1.94	-5.20	2150070.80	146041.06	0.47	
2502.00	0.180	91.510	2501.90	-2.25	-2.32	-4.87	2150071.13	146040.68	0.47	
2597.00	0.230	110.010	2596.90	-2.32	-2.39	-4.54	2150071.46	146040.61	0.09	
2692.00	0.150	163.170	2691.90	-2.51	-2.57	-4.32	2150071.67	146040.43	0.19	
2787.00	0.140	247.870	2786.90	-2.67	-2.74	-4.40	2150071.60	146040.26	0.21	
2882.00	0.280	172.150	2881.90	-2.95	-3.01	-4.47	2150071.53	146039.99	0.30	
2977.00	0.470	171.450	2976.89	-3.56	-3.62	-4.38	2150071.62	146039.37	0.20	
3072.00	0.250	169.240	3071.89	-4.15	-4.21	-4.29	2150071.71	146038.79	0.23	
3167.00	0.310	322.280	3166.89	-4.15	-4.21	-4.40	2150071.60	146038.79	0.57	
3262.00	0.820	305.970	3261.89	-3.54	-3.61	-5.11	2150070.89	146039.39	0.56	
3357.00	0.860	302.660	3356.88	-2.74	-2.83	-6.26	2150069.74	146040.17	0.07	
3453.00	0.170	69.120	3452.87	-2.29	-2.39	-6.74	2150069.26	146040.61	1.01	
3548.00	0.230	356.120	3547.87	-2.05	-2.15	-6.62	2150069.38	146040.85	0.26	
3643.00	0.360	238.440	3642.87	-2.02	-2.11	-6.88	2150069.12	146040.89	0.54	
3738.00	0.830	263.280	3737.87	-2.24	-2.35	-7.82	2150068.18	146040.65	0.55	
3770.00	2.420	337.490	3769.86	-1.64	-1.75	-8.31	2150067.69	146041.25	7.30	
3801.00	4.780	346.880	3800.79	0.23	0.11	-8.85	2150067.15	146043.11	7.82	
3833.00	7.280	350.260	3832.61	3.54	3.41	-9.50	2150066.50	146046.41	7.89	
3865.00	9.680	351.850	3864.26	8.21	8.07	-10.22	2150065.77	146051.07	7.53	
3896.00	11.430	352.510	3894.74	13.85	13.69	-10.99	2150065.00	146056.70	5.66	
3924.00	12.191	352.536	3922.14	19.54	19.38	-11.74	2150064.26	146062.38	2.72	Hardline Crossing 3924 MD(3922 TVD)329 FSL, 671 FEL X: 2150064, Y: 14
3928.00	12.300	352.540	3926.05	20.38	20.22	-11.85	2150064.15	146063.22	2.72	
3960.00	13.370	352.730	3957.25	27.45	27.27	-12.76	2150063.24	146070.27	3.35	
3992.00	14.510	351.700	3988.31	35.10	34.91	-13.81	2150062.19	146077.91	3.65	
4023.00	17.230	350.130	4018.12	43.48	43.27	-15.16	2150060.84	146086.27	8.88	
4055.00	20.520	349.550	4048.40	53.69	53.46	-16.99	2150059.01	146096.46	10.30	
4086.00	23.740	348.450	4077.11	65.18	64.92	-19.22	2150056.78	146107.92	10.47	



# Actual Wellpath Report

Sandridge Britt 3406 2-20H\_Final Surveys.

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## REFERENCE WELLPATH IDENTIFICATION

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Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Britt 3406 2-20H Actual
Facility	Britt 3406 2-20H Sec. 20-34S-6W		

## WELLPATH DATA (121 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
4118.00	26.680	347.860	4106.06	78.56	78.26	-22.02	2150053.98	146121.26	9.22	
4150.00	28.470	348.090	4134.43	93.09	92.75	-25.11	2150050.89	146135.75	5.60	
4181.00	27.610	348.780	4161.79	107.41	107.02	-28.03	2150047.97	146150.03	2.96	
4211.00	27.850	350.560	4188.34	121.17	120.75	-30.53	2150045.47	146163.76	2.87	
4249.00	30.190	352.720	4221.57	139.44	138.99	-33.20	2150042.80	146182.00	6.75	
4280.00	31.750	355.260	4248.15	155.33	154.85	-34.86	2150041.14	146197.86	6.56	
4312.00	34.190	357.590	4275.00	172.72	172.23	-35.94	2150040.06	146215.24	8.59	
4344.00	36.230	359.140	4301.14	191.16	190.67	-36.46	2150039.54	146233.68	6.96	
4375.00	38.540	0.840	4325.77	209.98	209.49	-36.45	2150039.55	146252.50	8.16	
4407.00	41.380	1.830	4350.30	230.52	230.03	-35.97	2150040.03	146273.04	9.09	
4438.00	44.500	3.100	4372.99	251.60	251.13	-35.05	2150040.95	146294.14	10.44	
4470.00	47.670	3.010	4395.18	274.59	274.14	-33.82	2150042.17	146317.16	9.91	
4515.00	50.620	3.200	4424.61	308.55	308.13	-31.98	2150044.02	146351.14	6.56	
4565.00	50.990	2.200	4456.21	347.22	346.83	-30.16	2150045.84	146389.85	1.72	
4610.00	50.930	1.760	4484.56	382.13	381.76	-28.95	2150047.05	146424.78	0.77	
4661.00	50.310	0.850	4516.91	421.53	421.17	-28.05	2150047.95	146464.19	1.84	
4692.00	51.260	1.310	4536.51	445.53	445.19	-27.60	2150048.40	146488.21	3.27	
4724.00	54.050	2.300	4555.92	470.94	470.61	-26.79	2150049.21	146513.63	9.06	
4756.00	57.010	3.010	4574.03	497.27	496.96	-25.57	2150050.43	146539.98	9.43	
4787.00	60.590	3.540	4590.09	523.71	523.43	-24.05	2150051.95	146566.45	11.64	
4819.00	63.860	4.000	4605.00	551.93	551.68	-22.19	2150053.81	146594.70	10.30	
4851.00	67.250	3.770	4618.24	580.96	580.74	-20.21	2150055.79	146623.76	10.61	
4882.00	70.100	3.440	4629.51	609.75	609.55	-18.40	2150057.60	146652.58	9.25	
4914.00	72.340	3.280	4639.81	639.97	639.80	-16.62	2150059.38	146682.82	7.02	
4946.00	74.140	3.480	4649.04	670.52	670.38	-14.82	2150061.18	146713.41	5.66	
4977.00	76.800	3.260	4656.82	700.45	700.34	-13.05	2150062.95	146743.37	8.61	
5009.00	79.580	2.960	4663.36	731.70	731.61	-11.35	2150064.65	146774.64	8.74	
5041.00	81.410	2.060	4668.65	763.20	763.14	-9.97	2150066.03	146806.17	6.36	
5072.00	84.680	1.750	4672.40	793.94	793.89	-8.95	2150067.05	146836.92	10.59	
5104.00	88.240	0.870	4674.38	825.85	825.81	-8.22	2150067.78	146868.85	11.46	
5165.00	89.810	0.550	4675.42	886.82	886.80	-7.46	2150068.54	146929.84	2.63	
5229.00	89.910	359.980	4675.57	950.80	950.80	-7.17	2150068.83	146993.84	0.90	
5323.00	89.660	0.500	4675.92	1044.79	1044.80	-6.77	2150069.22	147087.84	0.61	
5418.00	91.450	0.070	4675.00	1139.76	1139.79	-6.30	2150069.70	147182.84	1.94	
5513.00	91.970	359.860	4672.17	1234.71	1234.74	-6.36	2150069.64	147277.80	0.59	
5608.00	91.990	359.380	4668.89	1329.65	1329.68	-6.99	2150069.01	147372.74	0.51	
5702.00	91.940	359.870	4665.66	1423.59	1423.63	-7.60	2150068.39	147466.69	0.52	
5797.00	90.860	359.510	4663.34	1518.56	1518.60	-8.12	2150067.88	147561.66	1.20	
5892.00	88.910	359.640	4663.53	1613.55	1613.59	-8.82	2150067.18	147656.66	2.06	
5955.00	88.670	359.410	4664.86	1676.54	1676.57	-9.35	2150066.65	147719.64	0.53	
6019.00	88.420	358.700	4666.49	1740.52	1740.54	-10.40	2150065.60	147783.62	1.18	
6082.00	89.570	358.110	4667.59	1803.50	1803.51	-12.15	2150063.85	147846.58	2.05	
6145.00	89.140	358.660	4668.30	1866.49	1866.48	-13.93	2150062.07	147909.56	1.11	
6208.00	89.050	358.950	4669.30	1929.48	1929.46	-15.24	2150060.76	147972.54	0.48	
6272.00	89.780	358.510	4669.95	1993.47	1993.44	-16.66	2150059.34	148036.52	1.33	

# Actual Wellpath Report

Sandridge Britt 3406 2-20H\_Final Surveys.

Page 4 of 5

REFERENCE WELLPATH IDENTIFICATION				
Operator	Sandridge Energy		Slot	Britt 3406 2-20H SL 310 FSL, 660 FEL
Area	Kansas		Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid		Wellbore	Britt 3406 2-20H Actual
Facility	Britt 3406 2-20H Sec. 20-34S-6W			

WELLPATH DATA (121 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	
6366.00	91.190	359.230	4669.16	2087.46	2087.41	-18.52	2150057.48	148130.50	1.68		
6461.00	90.800	359.670	4667.51	2182.45	2182.39	-19.43	2150056.57	148225.49	0.62		
6556.00	90.560	0.880	4666.38	2277.42	2277.38	-18.97	2150057.03	148320.48	1.30		
6651.00	91.390	0.420	4664.76	2372.38	2372.36	-17.89	2150058.11	148415.46	1.00		
6747.00	94.320	0.730	4659.98	2468.22	2468.23	-16.93	2150059.07	148511.33	3.07		
6810.00	93.010	359.420	4655.95	2531.08	2531.10	-16.85	2150059.15	148574.20	2.94		
6905.00	92.250	359.250	4651.60	2625.98	2625.99	-17.95	2150058.05	148669.10	0.82		
6968.00	91.720	358.990	4649.41	2688.94	2688.94	-18.92	2150057.08	148732.06	0.94		
7031.00	90.370	358.560	4648.26	2751.93	2751.92	-20.26	2150055.73	148795.04	2.25		
7126.00	89.140	357.920	4648.67	2846.91	2846.87	-23.18	2150052.82	148889.99	1.46		
7189.00	88.800	357.800	4649.80	2909.88	2909.81	-25.53	2150050.46	148952.94	0.57		
7252.00	89.380	358.380	4650.80	2972.86	2972.77	-27.63	2150048.36	149015.90	1.30		
7316.00	89.040	357.440	4651.69	3036.84	3036.72	-29.97	2150046.03	149079.85	1.56		
7411.00	90.150	357.130	4652.36	3131.79	3131.61	-34.47	2150041.53	149174.75	1.21		
7505.00	91.080	357.920	4651.35	3225.74	3225.52	-38.53	2150037.47	149268.66	1.30		
7562.00	90.800	358.230	4650.41	3282.72	3282.48	-40.44	2150035.56	149325.62	0.73		
7625.00	91.200	358.150	4649.31	3345.70	3345.43	-42.43	2150033.57	149388.58	0.65		
7720.00	91.730	358.260	4646.89	3440.65	3440.36	-45.41	2150030.59	149483.51	0.57		
7815.00	92.180	358.340	4643.64	3535.59	3535.26	-48.22	2150027.78	149578.41	0.48		
7910.00	92.660	359.320	4639.63	3630.50	3630.15	-50.16	2150025.84	149673.31	1.15		
8005.00	91.600	358.040	4636.10	3725.43	3725.06	-52.35	2150023.65	149768.22	1.75		
8100.00	91.510	358.080	4633.52	3820.37	3819.97	-55.56	2150020.44	149863.13	0.10		
8195.00	91.320	358.530	4631.18	3915.33	3914.90	-58.37	2150017.63	149958.07	0.51		
8289.00	90.650	357.720	4629.56	4009.30	4008.83	-61.45	2150014.55	150052.01	1.12		
8384.00	89.880	358.360	4629.12	4104.28	4103.78	-64.70	2150011.30	150146.95	1.05		
8479.00	90.250	358.690	4629.01	4199.27	4198.74	-67.14	2150008.86	150241.93	0.52		
8574.00	90.280	359.240	4628.58	4294.27	4293.73	-68.86	2150007.14	150336.91	0.58		
8668.00	90.120	358.930	4628.25	4388.27	4387.71	-70.36	2150005.64	150430.90	0.37		
8762.00	91.490	359.450	4626.93	4482.26	4481.69	-71.69	2150004.31	150524.89	1.56		
8845.00	92.770	359.990	4623.84	4565.19	4564.63	-72.09	2150003.90	150607.83	1.67		
8889.00	92.770	359.990	4621.72	4609.14	4608.58	-72.10	2150003.90	150651.78	0.00	Actual BHL 8889 MD(4622 TVD)340 FNL, 668 FEL X: 2150004, Y: 150	



# Actual Wellpath Report

Sandridge Britt 3406 2-20H\_Final Surveys.

Page 5 of 5

REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Britt 3406 2-20H SL 310 FSL, 660 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Britt 3406 2-20H Actual
Facility	Britt 3406 2-20H Sec. 20-34S-6W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
BHL 330' FNL, 660' FEL		4628.56	4618.80	-65.00	2150011.00	150662.00	37°04'45.482"N	97°59'08.944"W	point

WELLPATH COMPOSITION - Ref Wellbore: Britt 3406 2-20H Actual Ref Wellpath: AWP - Final				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	8845.00	NaviTrak (Standard)	INTEQ MWD	Britt 3406 2-20H Actual
8845.00	8889.00	Blind Drilling (std)	Projection to bit	Britt 3406 2-20H Actual

# Mid-Continent Conductor, LLC

## Invoice

P.O. Box 1570  
Woodward, OK 73802  
Phone: (580)254-5400  
Fax: (580)254-3242

Date	Invoice #
10/8/2012	1515

<b>Bill To</b>
SandRidge Energy, Inc. Attn: Purchasing Mgr. 123 Robert S. Kerr Avenue Oklahoma City, OK. 73102

Ordered By	Terms	Date of Service	Lease Name/Legal Desc.	Drilling Rig
Bobby Jopling	Net 45	10/8/2012	Britt 3406 2-20H, Harper Cnty., KS	Unit 310

Item	Quantity	Description
Conductor Hole	90	Drilled 90 ft. conductor hole.
20" Pipe	90	Furnished 90 ft. of 20 inch conductor pipe.
Mouse Hole	80	Drilled 80 ft. mouse hole.
16" Pipe	80	Furnished 80 ft. of 16 inch mouse hole pipe.
Cellar Hole	1	Drilled 6x6 cellar hole.
6' X 6' Tinhorn	1	Furnished and set 6x6 tinhorn.
Mud and Water	1	Furnished mud and water.
Mud, Water, & Trucking	1	Transport mud and water to location.
Grout & Trucking	10	Furnished 10 yards of grout and trucking to location.
Grout Pump	1	Furnished grout pump
Welder & Materials	1	Furnished welder and materials.
Dirt Removal	1	Labor & Equip. for dirt removal.
Cover Plate	1	Furnished cover plates.
Permits	1	Permits

AFE Number: DC12203  
 Well Name: BRITT 3406 2-20H  
 Code: 850.010  
 Amount: \$ 17,800.00  
 Co. Man: Antonio Leija SR  
 Co. Man Sig.: [Signature]  
 Notes: \_\_\_\_\_

<b>Subtotal</b>	\$17,800.00
<b>Sales Tax (0.0%)</b>	\$0.00
<b>Total</b>	<b>\$17,800.00</b>

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2958415	Quote #:	Sales Order #: 9898883
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Britt 3406	Well #: 2-20H	API/UWI #: 15-077-21879	
Field:	City (SAP): UNKNOWN	County/Parish: Harper	State: Kansas
Legal Description: Section 20 Township 34S Range 6W			
Contractor: Unit Drilling *		Rig/Platform Name/Num: Unit 310	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: UNDERWOOD, BILLY MBU ID Emp #: 159068	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CRAWFORD, ANDREW B	5.5	480612	NEAL, MICHAEL Edward	5.5	483780	PROVINES, TYLER Wesley	5.5	523867
UNDERWOOD, BILLY Dale	5.5	159068						

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10825967	100 mile	11288856	100 mile	11706678	100 mile	12003765	100 mile
NA	100 mile						

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10-18-12	5.5	1						
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>					

### Job

### Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	17 - Oct - 2012	23:15	CST
Form Type	BHST		Job Started	18 - Oct - 2012	04:00	CST
Job depth MD	700. ft		Job Completed	18 - Oct - 2012	08:00	CST
Water Depth	Wk Ht Above Floor		Departed Loc	18 - Oct - 2012	08:50	CST
Perforation Depth (MD)	From	To				

### 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.	430.		
12.25" Open Hole- Lower				12.25				430.	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	Qty	

### Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water		10.00	bbl	8.33	.0	.0	.0	
2	halliburton light standard	EXTENDACEM (TM) SYSTEM (452981)	190.0	sacks	12.4	2.12	11.68		11.68
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.676 Gal	FRESH WATER							
3	Standard	SWIFTCEM (TM) SYSTEM (452990)	190.0	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	
<b>Calculated Values</b>		<b>Pressures</b>			<b>Volumes</b>				
Displacement	51	Shut In: Instant		Lost Returns		Cement Slurry	71/40	Pad	
Top Of Cement		5 Min		Cement Returns	50	Actual Displacement	51	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	172
<b>Rates</b>									
Circulating	5	Mixing	5.5	Displacement	5.5	Avg. Job	5.5		
Cement Left In Pipe	Amount	40 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
<b>The Information Stated Herein Is Correct</b>				Customer Representative Signature					

# HALLIBURTON

## Cementing Job Log

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 305021	<b>Ship To #:</b> 2958415	<b>Quote #:</b>	<b>Sales Order #:</b> 9898883
<b>Customer:</b> SANDRIDGE ENERGY INC EBUSINESS		<b>Customer Rep:</b> Webster, John	
<b>Well Name:</b> Britt 3406	<b>Well #:</b> 2-20H	<b>API/UWI #:</b> 15-077-21879	
<b>Field:</b>	<b>City (SAP):</b> UNKNOWN	<b>County/Parish:</b> Harper	<b>State:</b> Kansas
<b>Legal Description:</b> Section 20 Township 34S Range 6W			
<b>Lat:</b> N 0 deg. OR N 0 deg. 0 min. 0 secs.		<b>Long:</b> E 0 deg. OR E 0 deg. 0 min. 0 secs.	
<b>Contractor:</b> Unit Drilling *		<b>Rig/Platform Name/Num:</b> Unit 310	
<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> NGUYEN, VINH		<b>Srvc Supervisor:</b> UNDERWOOD, BILLY	<b>MBU ID Emp #:</b> 159068

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/17/2012 23:15							
Safety Meeting - Service Center or other Site	10/18/2012 01:25							
Depart from Service Center or Other Site	10/18/2012 01:30							
Arrive at Location from Service Center	10/18/2012 04:00							assess location/riggingup casers
Standby - Other - see comments	10/18/2012 04:30							can't set up till pipe racks and casers are moved
Safety Meeting - Pre Rig-Up	10/18/2012 06:30							on bottom/circulating/rig down casers
Rig-Up Equipment	10/18/2012 07:00							
Rig-Up Completed	10/18/2012 07:30							
Safety Meeting - Pre Job	10/18/2012 07:45							rig up head
Test Lines	10/18/2012 08:02						2000.0	
Pump Water	10/18/2012 08:07		5	10			95.0	fresh water
Pump Lead Cement	10/18/2012 08:12		6	71			165.0	12.4# Extendacem
Pump Tail Cement	10/18/2012 08:24		5	40			225.0	15.6# Halcem
Drop Plug	10/18/2012 08:32							
Pump Displacement	10/18/2012 08:34		6	51			200.0	fresh water
Pump Displacement	10/18/2012 08:43		3.5				260.0	
Bump Plug	10/18/2012 08:45						900.0	50bbbls cement returns

Sold To # : 305021

Ship To # :2958415

Quote # :

Sales Order # :

9898883

SUMMIT Version: 7.20.130

Thursday, October 18, 2012 09:04:00



# HALLIBURTON

## *Cementing Job Log*

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Check Floats	10/18/2012 08:47							holding/ 1/2bbl back
End Job	10/18/2012 08:50							rigdown meeting
Rig-Down Equipment	10/18/2012 08:55							
Rig-Down Completed	10/18/2012 09:25							journey management
Depart Location for Service Center or Other Site	10/18/2012 09:30							

Sold To # : 305021

Ship To # :2958415

Quote # :

Sales Order # : 9898883

SUMMIT Version: 7.20.130

Thursday, October 18, 2012 09:04:00

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2958415	Quote #:	Sales Order #: 9907440
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Britt 3406	Well #: 2-20H	API/UWI #: 15-077-21879	
Field:	City (SAP): ANTHONY	County/Parish: Harper	State: Kansas
Legal Description: Section 20 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: NGUYEN, VINH		Srvc Supervisor: GILREATH, JAMES	MBU ID Emp #: 493907

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DAVIS, TROY Robert	5	498798	GILREATH, JAMES P	5	493907	KIRKLAND, LARRY Don	5.0	286162

### 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

TOTAL Total is the sum of each column separately

### Job

### Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	5149. m			On Location	24 - Oct - 2012	20:00	CST
Job depth MD	5149. m		Job Depth TVD	Job Started	24 - Oct - 2012	22:11	CST
Water Depth			Wk Ht Above Floor	Job Completed	24 - Oct - 2012	23:22	CST
Perforation Depth (MD)	From	To		Departed Loc	25 - Oct - 2012	01:00	CST

### Well Data

Description	New / Used	Max pressure MPa	Size mm	ID mm	Weight kg/m	Thread	Grade	Top MD m	Bottom MD m	Top TVD m	Bottom TVD m
8.75" Open Hole				8.75				700.	5107.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5107.		
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	7	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	7	1	HES
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 kg/m3	Yield m3/sk	Mix Fluid m3/tonne	Rate m3/min	Total Mix Fluid m3/tonne	

1	Rig Supplied Gel Spacer		30.00	bbl	8.33	.0	.0	.0	
2	50/50 POZ STANDARD ( w/ 2% extra gel)	ECONOCEM (TM) SYSTEM (452992)	120.0	sacks	13.6	1.54	7.36		7.36
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	7.356 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		192.00	bbl	8.33	.0	.0	.0	
<b>Calculated Values</b>		<b>Pressures</b>			<b>Volumes</b>				
Displacement	192	Shut In: Instant		Lost Returns		Cement Slurry	73	Pad	
Top Of Cement	3201	5 Min		Cement Returns	0	Actual Displacement	192	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	
<b>Rates</b>									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	91.1 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
<b>The Information Stated Herein Is Correct</b>				Customer Representative Signature					

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2958415	Quote #:	Sales Order #: 9924580
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Britt 3406	Well #: 2-20H	API/UWI #: 15-077-21879	
Field:	City (SAP): ANTHONY	County/Parish: Harper	State: Kansas
Legal Description: Section 20 Township 34S Range 6W			
Contractor: Unit Drilling *		Rig/Platform Name/Num: Unit 310	
Job Purpose: Cement Production Liner			
Well Type: Development Well		Job Type: Cement Production Liner	
Sales Person: NGUYEN, VINH		Srvc Supervisor: WADE, STEPHEN	MBU ID Emp #: 490458

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
FINDLEY, GARED A	4.0	520137	KIRKLAND, LARRY Don	4.0	286162	WADE, STEPHEN Bruce	8.0	490458
WIFA, HENRY Neniebari	8.0	491916						

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11138994	100 mile	11149169	100 mile	11804860	100 mile	11897022	100 mile
12003765	100 mile	NA	100 mile	NA	100 mile		

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/29/2012	7	2.5	10/30/2012	1	1			
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>					

Job				Job Times			
Formation Name	Formation Depth (MD)	Top	Bottom	Date	Time	Time Zone	
				Called Out	29 - Oct - 2012	13:00	CST
Form Type			BHST	On Location	29 - Oct - 2012	17:00	CST
Job depth MD	8889. ft		Job Depth TVD	Job Started	29 - Oct - 2012	21:25	CST
Water Depth			Wk Ht Above Floor	Job Completed	29 - Oct - 2012	23:13	CST
Perforation Depth (MD)	From		To	Departed Loc	30 - Oct - 2012	01:00	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
6.125" Open Hole				6.125				5107.	8905.		
4.5" Production Liner	Unknown		4.5	4.	11.6	LTC	N-80	4700.	8905.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5107.		
4" Drill Pipe	Unknown		4.	3.34	14.	Unknown		.	4700.		

### 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	Qty	

### Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Rig Supplied Gel Spacer		30.00	bbl	8.5	.0	.0	.0	
2	50/50 POZ STANDARD ( w/ 2% extra gel)	ECONOCEM (TM) SYSTEM (452992)	490.0	sacks	13.6	1.57	6.8		6.8
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	10 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	0.2 %	CFR-3, W/O DEFOAMER, 50 LB SK (100003653)							
	6.797 Gal	FRESH WATER							
3	Displacement		115.00	bbl	8.33	.0	.0	.0	
<b>Calculated Values</b>		<b>Pressures</b>			<b>Volumes</b>				
Displacement	105	Shut In: Instant		Lost Returns		Cement Slurry	137	Pad	
Top Of Cement	4714	5 Min		Cement Returns	0	Actual Displacement	103.5	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
<b>Rates</b>									
Circulating	5	Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	84 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
<b>The Information Stated Herein Is Correct</b>				Customer Representative Signature					

Section 17  
34S 6W

Section 16  
34S 6W

355' FNL

689' FEL

BHL: 8889'

-97.986178 37.079294

Bottom Perf: 8401'

-97.986162 37.077907

Section 20  
34S 6W

Section 21  
34S 6W

Top Perf: 5190'  
-97.986052 37.069072

Miss Entry: 4912'  
-97.986056 37.068477

TAYLOR 3406 2-29H

BRITT 3406 2-20H

LAKE 3406 2-21H

LAKE 1-21H

Section 29  
34S 6W

TAYLOR 3406 1-29H

BRITT 3406 3-20H

Section 28  
34S 6W

SHRACK 1-28H

SHRACK 3406 2-28H



Actual Bottom-Hole Location of Britt 3406 2-20H  
Harper County, Kansas

T&R: 34S 6W

Section: 20, 689' FEL & 355' FNL

Long/Lat: -97.986178 37.079294

1 in = 667 ft

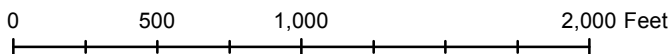


● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 1/30/2013

Drawing Name/Number:

Addendum\_Britt\_2-20H.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502