



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1229085
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: _____

1229085

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/21/2014
Job End Date:	8/23/2014
State:	Kansas
County:	Harper
API Number:	15-077-22061-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Evans 3406 2-19H
Longitude:	-98.01644000
Latitude:	37.07892900
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,750
Total Base Water Volume (gal):	3,069,906
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
Water	Archer	Carrier/Base Fluid	Water	7732-18-5	100.00000	96.15048	None
Sand (Proppant)	Archer	Proppant	Silica Substrate	NA	100.00000	2.82735	None
Hydrochloric Acid (15%)	Archer	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.13124	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00459	None
			Methyl Alcohol	67-56-1	80.00000	0.00108	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00020	None
AIC	Archer	Liquid Acid Iron Control	Acetic Acid	64-19-7	50.00000	0.00240	None
			Citric Acid	77-92-9	30.00000	0.00144	None
Chemflush	Archer	Enviro-Friendly Chemical Flush	Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00089	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00009	None
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.							
		Other Chemicals					

		Water	7732-18-5		0.05053
		WATER	7732-18-5		0.02751
		Anionic Polymer	N/A		0.02527
		Aliphatic Hydrocarbon	64742-47-8		0.02527
		TRADE SECRET	N/A		0.01834
		Water	7732-18-5		0.00907
		METHANOL	67-56-1		0.00459
		ISOPROPANOL	67-63-0		0.00459
		Polyol Ester	N/A		0.00421
		Oxyalkylated Alcohol	68002-97-1		0.00421
		Water	7732-18-5		0.00168
		Acrylic Polymer	28205-96-1		0.00151
		Sodium Salt of Phosphate Ester	68131-72-6		0.00151
		Polyglycol Ester	N/A		0.00084
		Alcohol Ethoxylate Surfactants	N/A		0.00020
		n-olefins	N/A		0.00011
		Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00008
		Propargyl Alcohol	107-19-7		0.00008
		Buffer	N/A		
		Cinnamic Aldehyde	104-55-2		
		Water	7732-18-5		
		Surfactant	N/A		
		Acetic Acid	64-19-7		

* 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)

Sandridge Energy, INC.(mid-con.)

Archer
The well company



Project: Harper County (KS27S)
Site: Sec 19-T34S-R06W
Well: Evans 3406 2-19H/Job # 04858-431-22/HWD 8
Plan: Plan 071414 A2 (Evans 3406 2-19H/Job # 04858-431-22/HWD 8/Wellbore #1)

WELL DETAILS: Evans 3406 2-19H/Job # 04858-431-22/HWD 8				
Ground Level: 1350.0				
Northing	Easting	Latitude	Longitude	
150478.80	2141077.90	37° 4' 44.144 N	98° 0' 59.184 W	

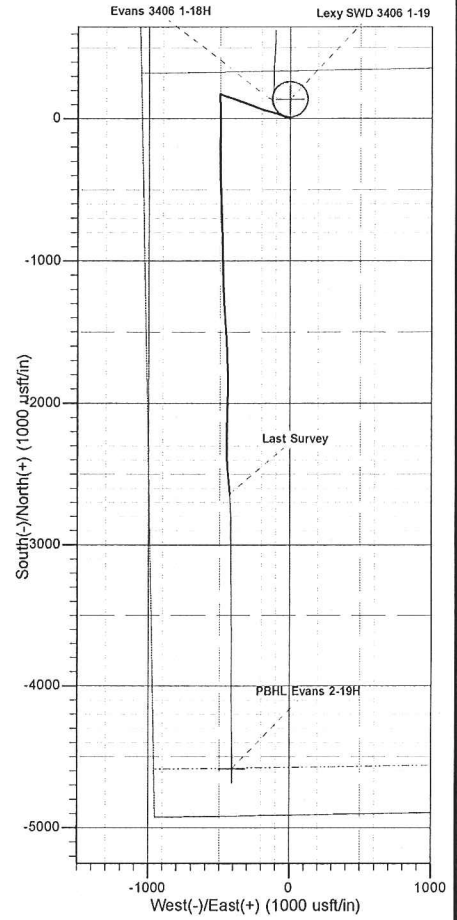
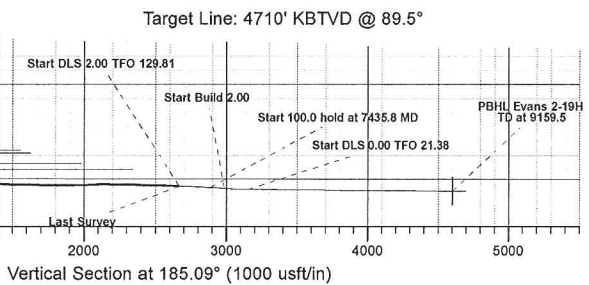
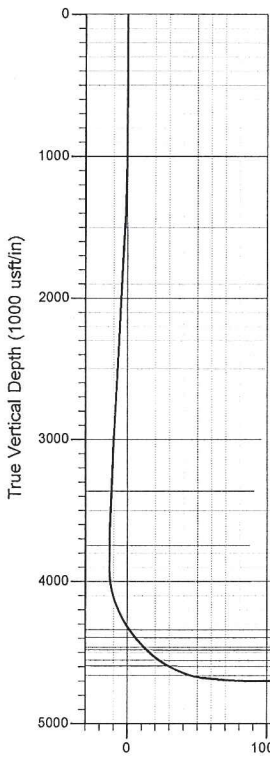
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
7213.0	89.00	176.20	4715.1	-2639.2	-427.4	0.00	0.00	2666.7	
7435.8	86.15	179.63	4724.5	-2861.7	-419.3	2.00	129.81	2887.6	
7535.8	86.15	179.63	4731.2	-2961.4	-418.7	0.00	0.00	2986.9	
7703.3	89.50	179.63	4737.6	-3128.8	-417.6	2.00	0.00	3153.5	
9159.5	89.50	179.63	4750.2	-4584.9	-408.2	0.00	21.38	4603.0	

Azimuths to Grid North
True North: -0.30°
Magnetic North: 4.03°

Magnetic Field
Strength: 51615.4snT
Dip Angle: 65.14°
Date: 2014/06/17
Model: IGRF2010

Magnetic North: 4.03° to Grid North

Harper Co., Kansas
SHL 350' FNL & 1047' FWL
Sec 19-T34S-R06W
Y: 150478.8 X: 2141077.9
BHL 330' FSL & 550' FWL
Sec 19-T34S-R06W
Y: 145893.9 X: 2140669.7



Archer

OPERATOR		FIELD NAME		Well name/No.		Rig Name & No.		Archer Job No.		Calculation Method		Minimum Curvature			
Sandridge Energy		Mississippi Lime		Evans 3406 2-1H		HWD 8		04858-431-22		Proposed Azimuth		185.09°			
MWD OPERATOR		DIR SUPERVISOR		COUNTY		STATE		Start Date		Depth Reference:		RKB			
Randy Stover		Kiel Hicks		Harper		Kansas		01-Jul-14		Tie Into:		Single Shot			
DipA: 65.14		Mag Field: 0.51615		Mag Dec: 4.03		Total Cor.: 4.03				Job Service:		Gamma-Dir.			
Mag Spacing Req.		Mag Spacing Actual		Mag Spacing Req.		Mag Spacing Actual									
Below 16		Below 23		Above 25		Above 35									
Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (°/100')	Build Rate (°/100')	Walk Rate (°/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Director Azimuth					
Tie-In	0.00'	0.00°	0.00°	0.00'	0.00'	0.00'	0.00'	0.00'	0.00'	0.00'	0.00°	0.0°	0.0°		
1	272.00'	0.50°	293.90°	272.00'	272.00'	-0.38'	0.48'	N	1.09'	1.19'	293.90°	0.18°	0.2°	108.1°	
2	529.00'	0.10°	293.90°	257.00'	528.99'	-0.82'	1.03'	N	2.32'	W	2.53'	293.90°	0.16°	-0.2°	0.0°
3	785.00'	0.20°	293.90°	256.00'	784.99'	-1.03'	1.30'	N	2.93'	W	3.20'	293.90°	0.04°	0.0°	0.0°
4	875.00'	0.40°	316.10°	90.00'	874.99'	-1.29'	1.59'	N	3.29'	W	3.65'	295.76°	0.25°	0.2°	24.7°
5	968.00'	1.20°	295.30°	93.00'	967.98'	-1.84'	2.24'	N	4.40'	W	4.93'	296.98°	0.90°	0.9°	-22.4°
6	1062.00'	2.40°	297.50°	94.00'	1061.93'	-2.93'	3.57'	N	7.03'	W	7.88'	296.90°	1.28°	1.3°	2.3°
7	1155.00'	3.50°	289.60°	93.00'	1154.81'	-4.38'	5.42'	N	11.43'	W	12.65'	295.36°	1.26°	1.2°	-8.5°
8	1248.00'	5.50°	287.00°	93.00'	1247.52'	-6.01'	7.67'	N	18.37'	W	19.91'	292.67°	2.16°	2.2°	-2.8°
9	1341.00'	8.00°	290.70°	93.00'	1339.87'	-8.68'	11.27'	N	28.69'	W	30.82'	291.44°	2.73°	2.7°	4.0°
10	1431.00'	10.40°	289.50°	90.00'	1428.70'	-12.38'	16.19'	N	42.20'	W	45.20'	290.99°	2.68°	2.7°	-1.3°
11	1525.00'	12.00°	290.60°	94.00'	1520.91'	-17.11'	22.46'	N	59.35'	W	63.46'	290.73°	1.72°	1.7°	1.2°
12	1614.00'	14.10°	289.20°	89.00'	1607.60'	-22.23'	29.28'	N	78.25'	W	83.55'	290.52°	2.39°	2.4°	-1.6°
13	1703.00'	14.20°	290.40°	89.00'	1693.90'	-27.75'	36.65'	N	98.72'	W	105.31'	290.37°	0.35°	0.1°	1.3°
14	1793.00'	14.20°	283.20°	90.00'	1781.16'	-32.22'	43.02'	N	119.82'	W	127.31'	289.75°	1.96°	0.0°	-8.0°
15	1882.00'	12.90°	284.30°	89.00'	1867.68'	-35.35'	47.97'	N	140.07'	W	148.06'	288.90°	1.49°	-1.5°	1.2°
16	1971.00'	12.30°	286.20°	89.00'	1954.54'	-38.77'	53.07'	N	158.80'	W	167.43'	288.48°	0.82°	-0.7°	2.1°
17	2060.00'	12.70°	288.10°	89.00'	2041.43'	-42.80'	58.75'	N	177.20'	W	186.69'	288.34°	0.64°	0.4°	2.1°
18	2147.00'	12.00°	288.30°	87.00'	2126.42'	-47.02'	64.56'	N	194.88'	W	205.30'	288.33°	0.81°	-0.8°	0.2°
19	2237.00'	12.30°	289.70°	90.00'	2214.40'	-51.57'	70.73'	N	212.79'	W	224.24'	288.39°	0.47°	0.3°	1.6°
20	2324.00'	12.80°	291.90°	87.00'	2299.32'	-56.70'	77.45'	N	230.46'	W	243.12'	288.58°	0.80°	0.6°	2.5°
21	2412.00'	11.40°	292.70°	88.00'	2385.36'	-62.15'	84.44'	N	247.53'	W	261.53'	288.84°	1.60°	-1.6°	0.9°
22	2500.00'	11.50°	291.00°	88.00'	2471.61'	-67.19'	90.94'	N	263.74'	W	278.98'	289.03°	0.40°	0.1°	-1.9°
23	2585.00'	12.40°	288.60°	85.00'	2554.77'	-71.64'	96.89'	N	280.30'	W	296.57'	289.07°	1.21°	1.1°	-2.8°
24	2674.00'	13.20°	290.10°	89.00'	2641.56'	-76.50'	103.43'	N	298.90'	W	316.29'	289.09°	0.97°	0.9°	1.7°
25	2763.00'	13.10°	289.30°	89.00'	2728.22'	-81.61'	110.26'	N	317.96'	W	336.53'	289.12°	0.23°	-0.1°	-0.9°
26	2852.00'	13.50°	290.80°	89.00'	2814.84'	-86.90'	117.28'	N	337.19'	W	357.00'	289.18°	0.59°	0.4°	1.7°
27	2939.00'	12.30°	291.90°	87.00'	2899.64'	-92.33'	124.34'	N	355.28'	W	376.41'	289.29°	1.41°	-1.4°	1.3°
28	3029.00'	11.10°	289.80°	90.00'	2987.77'	-97.30'	130.85'	N	372.33'	W	394.65'	289.36°	1.41°	-1.3°	-2.3°
29	3118.00'	11.60°	289.00°	89.00'	3075.03'	-101.63'	136.67'	N	388.85'	W	412.17'	289.36°	0.59°	0.6°	-0.9°
30	3207.00'	11.60°	287.80°	89.00'	3162.21'	-105.75'	142.32'	N	405.83'	W	430.06'	289.32°	0.27°	0.0°	-1.3°
31	3296.00'	10.60°	286.80°	89.00'	3249.55'	-109.38'	147.42'	N	422.19'	W	447.18'	289.25°	1.14°	-1.1°	-1.1°
32	3386.00'	11.70°	287.90°	90.00'	3337.85'	-113.08'	152.62'	N	438.80'	W	464.58'	289.18°	1.24°	1.2°	1.2°
33	3476.00'	11.10°	285.90°	90.00'	3426.07'	-116.73'	157.79'	N	455.81'	W	482.35'	289.09°	0.80°	-0.7°	-2.2°
34	3566.00'	9.40°	292.00°	90.00'	3514.63'	-120.49'	162.92'	N	470.96'	W	498.34'	289.08°	2.24°	-1.9°	6.8°
35	3656.00'	7.30°	292.30°	90.00'	3603.67'	-124.32'	167.84'	N	483.07'	W	511.39'	289.16°	2.33°	-2.3°	0.3°
36	3746.00'	5.50°	286.80°	90.00'	3693.11'	-126.89'	171.26'	N	492.49'	W	521.41'	289.18°	2.11°	-2.0°	-6.1°
37	3835.00'	2.40°	277.90°	89.00'	3781.89'	-127.85'	172.75'	N	498.42'	W	527.51'	289.12°	3.54°	-3.5°	-10.0°
38	3924.00'	0.40°	344.70°	89.00'	3870.86'	-128.23'	173.31'	N	500.34'	W	529.51'	289.10°	2.55°	-2.2°	75.1°
39	3969.00'	0.90°	185.20°	45.00'	3915.86'	-128.03'	173.11'	N	500.42'	W	529.51'	289.08°	2.85°	1.1°	-354.4°
40	4013.00'	4.40°	181.20°	44.00'	3959.80'	-126.00'	171.07'	N	500.48'	W	528.91'	288.87°	7.96°	8.0°	-9.1°
41	4058.00'	8.00°	179.80°	45.00'	4004.53'	-121.15'	166.21'	N	500.51'	W	527.39'	288.37°	8.01°	8.0°	-3.1°
42	4103.00'	11.80°	177.90°	45.00'	4048.86'	-113.47'	158.48'	N	500.33'	W	524.83'	287.58°	8.47°	8.4°	-4.2°
43	4148.00'	15.70°	178.80°	45.00'	4092.56'	-102.85'	147.79'	N	500.03'	W	521.42'	286.47°	8.68°	8.7°	2.0°
44	4193.00'	19.40°	177.80°	45.00'	4135.46'	-89.38'	134.23'	N	499.62'	W	517.34'	285.04°	8.25°	8.2°	-2.2°
45	4238.00'	22.80°	176.50°	45.00'	4177.43'	-73.34'	118.06'	N	498.80'	W	512.58'	283.32°	7.63°	7.6°	-2.9°
46	4283.00'	25.80°	177.20°	45.00'	4218.44'	-55.01'	99.57'	N	497.79'	W	507.65'	281.31°	6.70°	6.7°	1.6°
47	4322.00'	28.20°	178.50°	39.00'	4253.19'	-37.45'	81.88'	N	497.13'	W	503.83'	279.35°	6.34°	6.2°	3.3°
48	4367.00'	30.50°	180.00°	45.00'	4292.41'	-15.51'	59.83'	N	496.85'	W	500.44'	276.87°	5.37°	5.1°	3.3°
49	4411.00'	32.90°	180.60°	44.00'	4329.84'	7.53'	36.71'	N	496.98'	W	498.33'	274.22°	5.50°	5.5°	1.4°
50	4456.00'	36.30°	179.40°	45.00'	4366.88'	32.98'	11.16'	N	496.97'	W	497.09'	271.29°	7.71°	7.6°	-2.7°

Archer

51	4501.00'	40.00°	179.10°	45.00'	4402.26'	60.62'	16.63'	S	496.60'	W	496.88'	268.08°	8.23°	8.2°	-0.7°
52	4546.00'	43.40°	180.30°	45.00'	4435.86'	90.42'	46.56'	S	496.46'	W	498.63'	264.64°	7.76°	7.6°	2.7°
53	4590.00'	46.70°	179.60°	44.00'	4466.94'	121.43'	77.70'	S	496.42'	W	502.47'	261.10°	7.58°	7.5°	-1.6°
54	4635.00'	49.80°	180.30°	45.00'	4496.90'	154.87'	111.26'	S	496.40'	W	508.71'	257.37°	6.99°	6.9°	1.6°
55	4680.00'	52.50°	180.40°	45.00'	4525.12'	189.79'	146.30'	S	496.61'	W	517.72'	253.58°	6.00°	6.0°	0.2°
56	4722.00'	54.70°	179.80°	42.00'	4550.05'	223.46'	180.11'	S	496.67'	W	528.32'	250.07°	5.36°	5.2°	-1.4°
57	4766.00'	58.10°	181.20°	44.00'	4574.39'	259.99'	216.75'	S	497.00'	W	542.21'	246.44°	8.17°	7.7°	3.2°
58	4812.00'	61.50°	182.00°	46.00'	4597.53'	299.66'	256.48'	S	498.11'	W	560.27'	242.76°	7.54°	7.4°	1.7°
59	4856.00'	64.70°	181.50°	44.00'	4617.43'	338.83'	295.70'	S	499.31'	W	580.30'	239.37°	7.34°	7.3°	-1.1°
60	4900.00'	68.40°	179.80°	44.00'	4634.94'	379.07'	336.05'	S	499.76'	W	602.24'	236.08°	9.13°	8.4°	-3.9°
61	4945.00'	71.60°	178.50°	45.00'	4650.33'	421.12'	378.33'	S	499.13'	W	626.31'	232.84°	7.61°	7.1°	-2.9°
62	4989.00'	74.90°	178.80°	44.00'	4663.01'	462.98'	420.44'	S	498.13'	W	651.85'	229.83°	7.53°	7.5°	0.7°
63	5033.00'	79.00°	177.60°	44.00'	4672.94'	505.52'	463.28'	S	496.78'	W	679.28'	227.00°	9.69°	9.3°	-2.7°
64	5078.00'	83.50°	177.00°	45.00'	4679.79'	549.58'	507.69'	S	494.69'	W	708.85'	224.26°	10.09°	10.0°	-1.3°
65	5122.00'	85.00°	178.00°	44.00'	4684.19'	592.97'	551.43'	S	492.78'	W	739.53'	221.79°	4.09°	3.4°	2.3°
66	5167.00'	85.50°	178.20°	45.00'	4687.92'	637.48'	596.25'	S	491.29'	W	772.58'	219.49°	1.20°	1.1°	0.4°
67	5211.00'	85.90°	177.70°	44.00'	4691.22'	681.02'	640.09'	S	489.72'	W	805.95'	217.42°	1.45°	0.9°	-1.1°
68	5256.00'	85.80°	177.50°	45.00'	4694.48'	725.52'	684.94'	S	487.84'	W	840.91'	215.46°	0.50°	-0.2°	-0.4°
69	5300.00'	86.50°	177.60°	44.00'	4697.43'	769.04'	728.80'	S	485.97'	W	875.96'	213.70°	1.61°	1.6°	0.2°
70	5344.00'	87.30°	177.70°	44.00'	4699.81'	812.60'	772.70'	S	484.17'	W	911.85'	212.07°	1.83°	1.8°	0.2°
71	5389.00'	89.50°	178.40°	45.00'	4701.07'	857.24'	817.65'	S	482.64'	W	949.47'	210.55°	5.13°	4.9°	1.6°
72	5454.00'	90.90°	178.80°	65.00'	4700.84'	921.83'	882.63'	S	481.05'	W	1005.21'	208.59°	2.24°	2.2°	0.6°
73	5544.00'	89.80°	178.90°	90.00'	4700.29'	1011.29'	972.61'	S	479.24'	W	1084.27'	206.23°	1.23°	-1.2°	0.1°
74	5637.00'	89.80°	178.70°	93.00'	4700.61'	1103.73'	1065.59'	S	477.29'	W	1167.60'	204.13°	0.22°	0.0°	-0.2°
75	5731.00'	89.70°	178.60°	94.00'	4701.02'	1197.13'	1159.56'	S	475.08'	W	1253.11'	202.28°	0.15°	-0.1°	-0.1°
76	5821.00'	90.20°	177.40°	90.00'	4701.10'	1286.44'	1249.50'	S	471.94'	W	1335.66'	200.69°	1.44°	0.6°	-1.3°
77	5913.00'	90.20°	176.60°	92.00'	4700.78'	1377.53'	1341.37'	S	467.12'	W	1420.38'	199.20°	0.87°	0.0°	-0.9°
78	6003.00'	88.60°	175.40°	90.00'	4701.72'	1466.39'	1431.15'	S	460.85'	W	1503.51'	197.85°	2.22°	-1.8°	-1.3°
79	6110.00'	88.80°	176.50°	107.00'	4704.15'	1572.00'	1537.85'	S	453.29'	W	1603.26'	196.42°	1.04°	0.2°	1.0°
80	6202.00'	88.90°	178.30°	92.00'	4706.00'	1663.15'	1629.73'	S	449.12'	W	1690.48'	195.41°	1.96°	0.1°	2.0°
81	6294.00'	88.50°	176.90°	92.00'	4708.09'	1754.34'	1721.63'	S	445.27'	W	1778.27'	194.50°	1.58°	-0.4°	-1.5°
82	6386.00'	89.90°	179.50°	92.00'	4709.37'	1845.66'	1813.56'	S	442.38'	W	1866.74'	193.71°	3.21°	1.5°	2.8°
83	6478.00'	91.00°	180.70°	92.00'	4708.65'	1937.30'	1905.55'	S	442.54'	W	1956.27'	193.07°	1.77°	1.2°	1.3°
84	6570.00'	92.30°	181.30°	92.00'	4706.00'	2029.03'	1997.50'	S	444.14'	W	2046.28'	192.54°	1.56°	1.4°	0.7°
85	6662.00'	90.50°	181.20°	92.00'	4703.75'	2120.79'	2089.45'	S	446.15'	W	2136.55'	192.05°	1.96°	-2.0°	-0.1°
86	6754.00'	89.80°	181.20°	92.00'	4703.51'	2212.58'	2181.43'	S	448.08'	W	2226.97'	191.61°	0.76°	-0.8°	0.0°
87	6846.00'	88.80°	180.40°	92.00'	4704.63'	2304.31'	2273.41'	S	449.36'	W	2317.39'	191.18°	1.39°	-1.1°	-0.9°
88	6937.00'	88.80°	179.70°	91.00'	4706.54'	2394.94'	2364.39'	S	445.44'	W	2406.72'	190.76°	0.77°	0.0°	-0.8°
89	7029.00'	88.60°	175.30°	92.00'	4708.63'	2486.09'	2456.25'	S	445.43'	W	2496.32'	190.28°	4.79°	-0.2°	-4.8°
90	7121.00'	87.20°	173.00°	92.00'	4712.00'	2576.35'	2547.70'	S	436.06'	W	2584.75'	189.71°	2.93°	-1.5°	-2.5°
91	7213.00'	89.00°	176.20°	92.00'	4715.05'	2666.74'	2639.23'	S	427.41'	W	2673.61'	189.20°	3.99°	2.0°	3.5°
92	7305.00'	89.50°	177.50°	92.00'	4716.26'	2757.78'	2731.08'	S	422.36'	W	2763.55'	188.79°	1.51°	0.5°	1.4°
93	7397.00'	88.90°	178.20°	92.00'	4717.54'	2849.04'	2823.01'	S	418.90'	W	2853.92'	188.44°	1.00°	-0.7°	0.8°
94	7489.00'	89.40°	178.50°	92.00'	4718.90'	2940.39'	2914.96'	S	416.26'	W	2944.53'	188.13°	0.63°	0.5°	0.3°
95	7582.00'	88.40°	179.00°	93.00'	4720.69'	3032.81'	3007.92'	S	414.23'	W	3036.31'	187.84°	1.20°	-1.1°	0.5°
96	7674.00'	86.70°	181.00°	92.00'	4724.62'	3124.35'	3099.83'	S	414.23'	W	3127.38'	187.61°	2.85°	-1.8°	2.2°
97	7766.00'	87.00°	179.50°	92.00'	4729.68'	3215.88'	3191.68'	S	414.63'	W	3218.50'	187.40°	1.66°	0.3°	-1.6°
98	7858.00'	86.50°	177.70°	92.00'	4734.89'	3307.14'	3283.50'	S	412.38'	W	3309.30'	187.16°	2.03°	-0.5°	-2.0°
99	7950.00'	87.60°	177.60°	92.00'	4739.63'	3398.24'	3375.30'	S	408.62'	W	3399.95'	186.90°	1.20°	1.2°	-0.1°
100	8041.00'	90.30°	179.50°	91.00'	4741.30'	3488.62'	3466.25'	S	406.31'	W	3489.98'	186.69°	3.63°	3.0°	2.1°
101	8133.00'	89.80°	181.40°	92.00'	4741.22'	3580.32'	3558.24'	S	407.04'	W	3581.44'	186.53°	2.14°	-0.5°	2.1°
102	8225.00'	88.40°	180.70°	92.00'	4742.66'	3672.08'	3650.21'	S	408.72'	W	3673.02'	186.39°	1.70°	-1.5°	-0.8°
103	8317.00'	88.60°	179.90°	92.00'	4745.07'	3763.72'	3742.17'	S	409.20'	W	3764.48'	186.24°	0.90°	0.2°	-0.9°
104	8409.00'	88.90°	180.00°	92.00'	4747.08'	3855.33'	3834.15'	S	409.12'	W	3855.92'	186.09°	0.34°	0.3°	0.1°
105	8501.00'	89.30°	179.70°	92.00'	4748.52'	3946.93'	3926.14'	S	408.88'	W	3947.37'	185.95°	0.54°	0.4°	-0.3°
106	8593.00'	89.80°	178.80°	92.00'	4749.24'	4038.45'	4018.13'	S	407.68'	W	4038.76'	185.79°	1.12°	0.5°	-1.0°
107	8684.00'	91.10°	177.90°	91.00'	4748.53'	4128.82'	4109.09'	S	405.06'	W	4129.00'	185.63°	1.74°	1.4°	-1.0°
108	8776.00'	90.20°	177.10°	92.00'	4747.49'	4220.00'	4200.99'	S	401.05'	W	4220.09'	185.45°	1.31°	-1.0°	-0.9°
109	8868.00'	88.40°	178.90°	92.00'	4748.61'	4311.29'	4292.92'	S	397.84'	W	4311.31'	185.29°	2.77°	-2.0°	2.0°
110	8960.00'	89.20°	180.90°	92.00'	4750.54'	4402.88'	4384.89'	S	397.68'	W	4402.89'	185.18°	2.34°	0.9°	2.2°
111	9052.00'	91.20°	180.30°	92.00'	4750.22'	4494.60'	4476.88'	S	398.64'	W	4494.60'	185.09°	2.27°	2.2°	-0.7°
112	9113.00'	89.50°	179.80°	61.00'	4749.84'	4555.36'	4537.88'	S	398.69'	W	4555.36'	185.02°	2.90°	-2.8°	-0.8°
PTB	9160.00'	89.50°	179.80°	47.00'	4750.25'	4602.15'	4584.88'	S	398.53'	W	4602.17'	184.97°	0.00°	0.0°	0.0°

JOB SUMMARY			PROJECT NUMBER SOK 3929	TICKET DATE 07/11/14
COUNTY Harper	State Kansas	COMPANY Sandridge Exploration & Production	CUSTOMER REP Shane Morrison	
LEASE NAME Evans 3406	Well No. 2-19H	JOB TYPE Intermediate	EMPLOYEE NAME Mike Hall	

EMP NAME	Mike Hall	0							
	Joseph Klemm								
	Frank Reeves								
	Cheryl Newton								

Form. Name _____ Type: _____
 Packer Type _____ Set At **0**
 Bottom Hole Temp. **155** Pressure _____
 Retainer Depth _____ Total Depth **5428**

Date	Called Out 7/10/2014	On Location 7/10/2014	Job Started 7/11/2014	Job Completed 7/11/2014
Time		18:00	03:35	06:00

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Va	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data		New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing			26#	7"		Surface		5,000
Liner								
Liner								
Tubing				0				
Drill Pipe								
Open Hole				8 1/4"		Surface	5,453	Shots/Ft.
Perforations								
Perforations								
Perforations								

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	gel	BBL.	30 8.60
Spacer type			
Acid Type			
Acid Type			
Surfactant			
NE Agent			
Fluid Loss			
Gelling Agent			
Fric. Red.			
MISC.			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
7/10	12.0	7/11	2.0	Intermediate
Total	12.0	Total	2.0	

Perfor Balls _____ Qty. _____
 Other _____
 Other _____
 Other _____
 Other _____

Pressures	
MAX	5,000 PSI
AVG.	350
Average Rates in BPM	
MAX	8 BPM
AVG	4.5
Cement Left in Pipe	
Feet	88
Reason SHOE JOINT	

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	220	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.2% C-20 - 0.1% C-37 - 0.4% C-41P	6.93	1.43	13.60
2	115	Premium	0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P	5.19	1.19	15.60
3	0	0		0.00	0.00	0.00

Summary					
Preflush Breakdown	10	Type: _____	Caustic	Preflush: BBI	30.00
		MAXIMUM	5,000 PSI	Load & Bkdn: Gal - BBI	N/A
		Lost Returns-#	NO/FULL	Excess /Return BBI	N/A
		Actual TOC	4,605	Calc. TOC:	4,605
Average		Bump Plug PSI:	1,900	Final Circ. PSI:	800
ISIP	5 Min.	10 Min	15 Min	Cement Slurry BBI	80.0
				Total Volume BBI	315.00

CUSTOMER REPRESENTATIVE Shane Morrison SIGNATURE

Evans 3406 2-19H

Perforations

Perforations			
Date	Top (ftKB)	Btm (ftKB)	Zone
8/9/2014	5,123.0	5,125.0	Miss Lime, Original Hole
8/9/2014	5,248.0	5,250.0	Miss Lime, Original Hole
8/9/2014	5,298.0	5,300.0	Miss Lime, Original Hole
8/21/2014	5,487.0	5,489.0	Miss Lime, Original Hole
8/21/2014	5,615.0	5,617.0	Miss Lime, Original Hole
8/21/2014	5,742.0	5,744.0	Miss Lime, Original Hole
8/21/2014	5,865.0	5,867.0	Miss Lime, Original Hole
8/21/2014	5,995.0	5,997.0	Miss Lime, Original Hole
8/21/2014	6,085.0	6,087.0	Miss Lime, Original Hole
8/21/2014	6,210.0	6,212.0	Miss Lime, Original Hole
8/21/2014	6,338.0	6,340.0	Miss Lime, Original Hole
8/21/2014	6,423.0	6,425.0	Miss Lime, Original Hole
8/21/2014	6,553.0	6,555.0	Miss Lime, Original Hole
8/21/2014	6,678.0	6,680.0	Miss Lime, Original Hole
8/21/2014	6,767.0	6,769.0	Miss Lime, Original Hole
8/21/2014	6,895.0	6,897.0	Miss Lime, Original Hole
8/21/2014	7,024.0	7,026.0	Miss Lime, Original Hole
8/21/2014	7,156.0	7,158.0	Miss Lime, Original Hole
8/21/2014	7,240.0	7,242.0	Miss Lime, Original Hole
8/21/2014	7,373.0	7,375.0	Miss Lime, Original Hole
8/21/2014	7,504.0	7,506.0	Miss Lime, Original Hole
8/21/2014	7,593.0	7,595.0	Miss Lime, Original Hole
8/21/2014	7,682.0	7,684.0	Miss Lime, Original Hole
8/21/2014	7,812.0	7,814.0	Miss Lime, Original Hole
8/21/2014	7,983.0	7,985.0	Miss Lime, Original Hole
8/21/2014	8,073.0	8,075.0	Miss Lime, Original Hole
8/21/2014	8,195.0	8,197.0	Miss Lime, Original Hole
8/21/2014	8,326.0	8,328.0	Miss Lime, Original Hole
8/21/2014	8,416.0	8,418.0	Miss Lime, Original Hole
8/21/2014	8,542.0	8,544.0	Miss Lime, Original Hole
8/21/2014	8,673.0	8,675.0	Miss Lime, Original Hole
8/21/2014	8,763.0	8,765.0	Miss Lime, Original Hole
8/21/2014	8,927.0	8,929.0	Miss Lime, Original Hole
8/21/2014	9,012.0	9,014.0	Miss Lime, Original Hole
8/21/2014	9,100.0	9,102.0	Miss Lime, Original Hole