



Confidentiality Requested:
 Yes No

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: _____

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: 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: <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	Hughes 3408 3-22H
Doc ID	1245687

All Electric Logs Run

Density Dual Spaced Neutron
Spectral Gamma Ray
Array Induction Gamma Ray
Multi-Axis Caliper Gamma Ray

Summary of Changes

Lease Name and Number: Hughes 3408 3-22H

API/Permit #: 15-077-22118-01-00

Doc ID: 1245687

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Denied Date	03/12/2015	
Save Link	../../../../kcc/detail/operatorE ditDetail.cfm?docID=12 45260	../../../../kcc/detail/operatorE ditDetail.cfm?docID=12 45687
Spud Or Recompletion Date	11/5/2014	11/15/2014



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1245260
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: _____



1245260

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

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> <i>(Submit ACO-4)</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	Hughes 3408 3-22H
Doc ID	1245260

All Electric Logs Run

Density Dual Spaced Neutron
Spectral Gamma Ray
Array Induction Gamma Ray
Multi-Axis Caliper Gamma Ray



SandRidge Energy
Hughes #3-22 H
Harper County, KS.

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you, for the award of the provision of cementing products and services on the well Hughes #3-22 Intermediate Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 4500 psi. After a successful test we began the job by pumping 30 bbls of preflush spacer. We then mixed and pumped the following cements:

60 Bbls (240 sacks) of 13.6 ppg Lead slurry:
50:50 Class A:Poz Blend - 1.4 Yield
2.0% Gel
0.4% FL-160
0.1% SA-51

21 Bbls (100 sacks) of 15.6 ppg Tail slurry:
Class A - 1.18 Yield
0.8% FL-160
0.2% CD-31

The top plug was then released and displaced with 206 of fresh water. The plug bumped and pressured up to 1600 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



SandRidge Energy
Hughes #3408 3-22
Harper County, KS.

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you, for the award of the provision of cementing products and services on the well Hughes #3408 3-22 Surface Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 2300 psi. After a successful test we began the job by pumping 10 bbls of preflush spacer. We then mixed and pumped the following cements:

77 Bbls (235 sacks) of 13.2 ppg Lead slurry:
Class A Yeild 1.85
2% Gypseal
2% CC
2% SMS
¼# Floseal

32 Bbls (130 sacks) of 14.8 ppg Tail slurry
Class A Yeild 1.37
2% CC
2% Gel
¼# Floseal

The top plug was then released and displaced with 53.42 Bbls of fresh water. The plug bumped and pressured up to 800 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



INVOICE

DATE	INVOICE #
11/19/2014	5277

BILL TO
SANDRIDGE ENERGY, INC. ATTN: PURCHASING MANAGER 123 ROBERT S. KERR AVENUE OKLAHOMA CITY, OK 73102

Order Number
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73099

COUNTY	Start Date	End Date	Work Order	Rig Number	LEASE NAME	Terms
HARPER, KS	11/17/2014	11/17/2014	3847	LARIAT 20	HUGHES 3408-3-22H	Due on rec...

Description
DRILLED 100' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 100' OF 20" CONDUCTOR PIPE FURNISHED MUD, WATER, AND TRUCKING FURNISHED WELDER AND MATERIALS FURNISHED 10 YARDS OF 10 SACK GROUT FOR CONDUCTOR HOLE FURNISHED 4 YARDS OF 10 SACK GROUT FOR MOUSE HOLE FURNISHED GROUT PUMP DRILL MOUSE HOLE FURNISHED 80' OF 16" CONDUCTOR PIPE TOTAL BID \$21,250.00

Sales Tax (6.15%)	\$275.64
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TOTAL	\$21,525.64
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Hughes 3408 3-22H - Perforations

Stage	Date	Type	Top Depth	Top Depth (TVD)	Bottom Depth	Bottom Depth (TVD)	Zone	Shot Density	Wellbore	String Perforated	Fluid Type
26	12/27/14	Frac Sleeve	5,501.00	4,721.00	5,503.00	4,721.00	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
25	12/27/14	Frac Sleeve	5,649.00	4,720.60	5,651.00	4,720.60	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
24	12/27/14	Frac Sleeve	5,699.00	4,720.80	5,701.00	4,720.80	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
23	12/27/14	Frac Sleeve	5,890.00	4,723.10	5,892.00	4,723.20	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
22	12/27/14	Frac Sleeve	6,085.00	4,726.90	6,087.00	4,726.90	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
21	12/27/14	Frac Sleeve	6,178.00	4,727.40	6,180.00	4,727.40	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
20	12/27/14	Frac Sleeve	6,268.00	4,726.40	6,270.00	4,726.30	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
19	12/27/14	Frac Sleeve	6,453.00	4,716.80	6,455.00	4,716.70	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
18	12/27/14	Frac Sleeve	6,601.00	4,707.90	6,603.00	4,707.80	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
17	12/27/14	Frac Sleeve	6,750.00	4,701.40	6,752.00	4,701.40	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
16	12/27/14	Frac Sleeve	6,851.00	4,701.10	6,853.00	4,701.10	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
15	12/27/14	Frac Sleeve	7,188.00	4,701.80	7,190.00	4,701.80	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
14	12/27/14	Frac Sleeve	7,431.00	4,693.50	7,433.00	4,693.40	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
13	12/27/14	Frac Sleeve	7,573.00	4,688.80	7,575.00	4,688.80	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
12	12/27/14	Frac Sleeve	7,719.00	4,685.20	7,721.00	4,685.10	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
11	12/27/14	Frac Sleeve	7,867.00	4,684.60	7,869.00	4,684.60	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
10	12/27/14	Frac Sleeve	7,964.00	4,685.30	7,966.00	4,685.40	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
9	12/27/14	Frac Sleeve	8,113.00	4,689.30	8,115.00	4,689.30	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
8	12/26/14	Frac Sleeve	8,261.00	4,691.50	8,263.00	4,691.50	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
7	12/26/14	Frac Sleeve	8,409.00	4,690.50	8,411.00	4,690.50	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
5	12/26/14	Frac Sleeve	8,704.00	4,690.00	8,706.00	4,690.10	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
6	12/26/14	Frac Sleeve	8,557.00	4,688.60	8,559.00	4,688.60	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
4	12/26/14	Frac Sleeve	8,848.00	4,692.70	8,850.00	4,692.70	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
3	12/26/14	Frac Sleeve	9,036.00	4,694.70	9,038.00	4,694.70	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
2	12/26/14	Frac Sleeve	9,137.00	4,694.70	9,139.00	4,694.70	Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water
1	12/26/14	Frac Sleeve	9,279.00		9,281.00		Miss Lime - Upper	2	Original Hole	Production Liner	Fresh Water

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1500.2	0.00	0.00	1500.2	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
1784.2	5.68	135.52	1783.7	-10.0	9.9	2.00	135.52	-9.6	Start Turn 0.00
3969.3	5.68	135.52	3958.1	-164.3	161.4	0.00	0.00	-156.9	Start DLS 8.00
5120.0	88.00	0.01	4722.7	525.1	212.9	8.00	-135.51	534.2	Start 275.0 hold at 5120.0 MD
5395.0	88.00	0.01	4732.3	800.0	213.0	0.00	0.00	808.8	Start Build 8.00
5426.2	90.50	0.00	4732.7	831.2	213.0	8.00	0.00	840.0	Landing Point
9310.2	90.50	360.00	4698.8	4715.0	213.0	0.00	-85.25	4719.8	TD at 9310.2

WELL DETAILS: Hughes 3408 3-22H

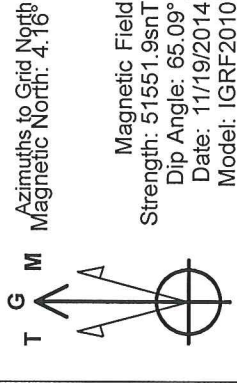
Ground Level:	1315.0		
Northing	Easting	Latitude	Longitude
145464.00	2096470.00	37° 3' 56.488 N	98° 10' 9.832 W

Project: Harper County (NAD-27)

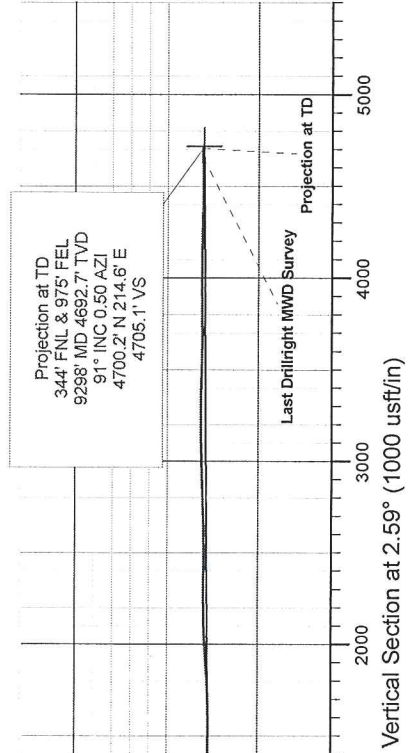
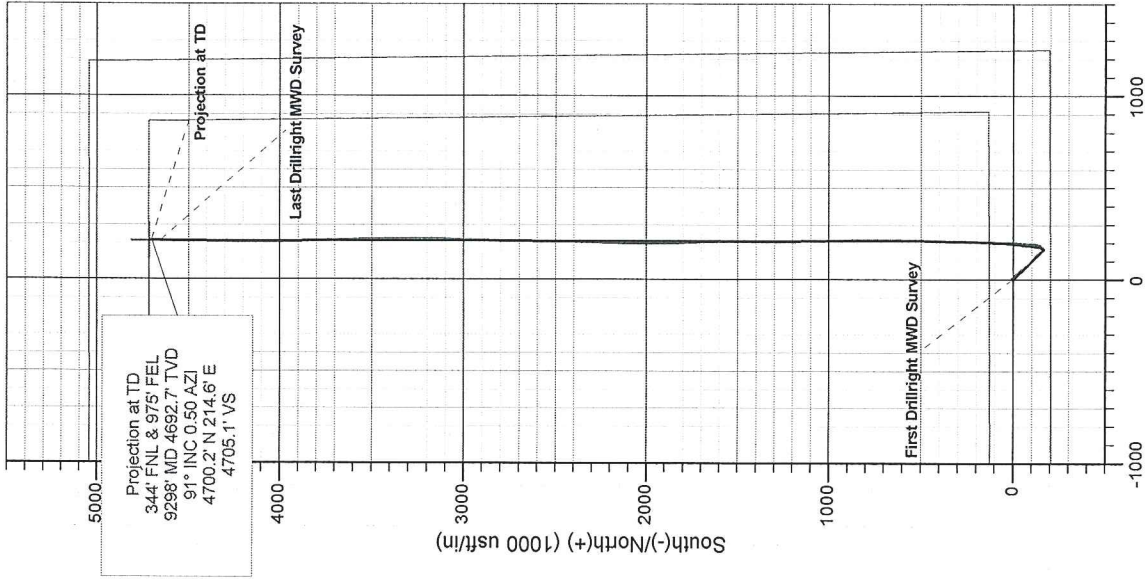
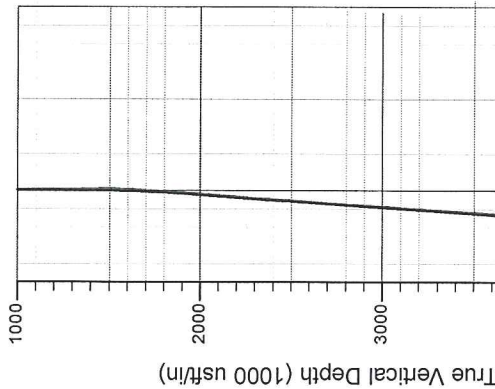
Site: Sec 22-T34S-R08W

Well: Hughes 3408 3-22H

Plan: Plan 111914 A0 (Hughes 3408 3-22H/Wellbore #1)



Target Line: 11-19-14
4740' KBTVD @ 0° VS
90.5° @ 2.59 AZI Plane



DrillRight

Survey Report

Company: Sandridge Energy	Local Co-ordinate Reference: Well Hughes 3408 3-22H
Project: Harper County (NAD-27)	TVD Reference: KB @ 1333.0usft
Site: Sec 22-T34S-R08W	MD Reference: KB @ 1333.0usft
Well: Hughes 3408 3-22H	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: EDM 5000.1 Single User Db

Project Harper County (NAD-27)		
Map System: US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)		
Map Zone: Kansas South 1502		

Site Sec 22-T34S-R08W					
Site Position:	Northing:	145,246.00 usft	Latitude:	37° 3' 54.468 N	
From: Map	Easting:	2,092,538.00 usft	Longitude:	98° 10' 58.351 W	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.19 °

Well Hughes 3408 3-22H						
Well Position	+N/-S	0.0 usft	Northing:	145,464.00 usft	Latitude:	37° 3' 56.488 N
	+E/-W	0.0 usft	Easting:	2,096,470.00 usft	Longitude:	98° 10' 9.832 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	1,315.0 usft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	11/19/2014	(°)	(°)	(nT)
			4.36	65.09	51,552

Design Wellbore #1					
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	2.59	

Survey Program		Date 12/16/2014
From	To	Survey (Wellbore)
(usft)	(usft)	
805.0	9,298.0	Drillright MWD Surveys (Wellbore #1)
		Tool Name
		MWD
		Description
		MWD - Standard

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
805.0	0.70	47.00	805.0	3.4	3.6	3.5	0.09	0.09	0.00	
1,079.0	0.80	50.70	1,079.0	5.7	6.3	6.0	0.04	0.04	1.35	
1,350.0	0.60	29.10	1,349.9	8.1	8.5	8.5	0.12	-0.07	-7.97	
1,441.0	0.90	286.70	1,440.9	8.8	8.0	9.1	1.30	0.33	-112.53	
1,536.0	1.70	156.30	1,535.9	7.7	7.9	8.0	2.51	0.84	-137.26	
1,630.0	3.20	126.50	1,629.8	4.9	10.5	5.3	2.04	1.60	-31.70	
1,725.0	6.00	137.00	1,724.5	-0.4	16.0	0.4	3.07	2.95	11.05	
1,819.0	5.60	130.60	1,818.0	-6.9	22.9	-5.9	0.81	-0.43	-6.81	
1,914.0	6.10	142.60	1,912.5	-14.0	29.5	-12.6	1.39	0.53	12.63	

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Survey Report

Company:	Sandridge Energy	Local Co-ordinate Reference:	Well Hughes 3408 3-22H
Project:	Harper County (NAD-27)	TVD Reference:	KB @ 1333.0usft
Site:	Sec 22-T34S-R08W	MD Reference:	KB @ 1333.0usft
Well:	Hughes 3408 3-22H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
2,008.0	5.40	137.80	2,006.1	-21.2	35.5	-19.6	0.90	-0.74	-5.11	
2,103.0	5.40	144.50	2,100.7	-28.2	41.1	-26.3	0.66	0.00	7.05	
2,197.0	5.60	145.90	2,194.2	-35.6	46.2	-33.4	0.26	0.21	1.49	
2,291.0	5.20	143.40	2,287.8	-42.8	51.3	-40.4	0.49	-0.43	-2.66	
2,385.0	5.00	139.60	2,381.4	-49.3	56.5	-46.7	0.42	-0.21	-4.04	
2,479.0	4.70	138.20	2,475.1	-55.3	61.7	-52.5	0.34	-0.32	-1.49	
2,574.0	5.80	145.10	2,569.7	-62.1	67.1	-59.1	1.33	1.16	7.26	
2,669.0	5.70	138.60	2,664.2	-69.6	72.9	-66.3	0.69	-0.11	-6.84	
2,763.0	5.50	134.40	2,757.8	-76.3	79.2	-72.6	0.49	-0.21	-4.47	
2,857.0	5.50	133.40	2,851.3	-82.5	85.7	-78.6	0.10	0.00	-1.06	
2,951.0	5.10	128.00	2,944.9	-88.2	92.3	-83.9	0.68	-0.43	-5.74	
3,045.0	5.10	146.20	3,038.6	-94.2	97.9	-89.7	1.71	0.00	19.36	
3,140.0	5.30	136.00	3,133.2	-100.9	103.3	-96.1	0.99	0.21	-10.74	
3,234.0	5.80	138.70	3,226.7	-107.6	109.5	-102.5	0.60	0.53	2.87	
3,328.0	5.80	127.60	3,320.3	-114.1	116.4	-108.7	1.19	0.00	-11.81	
3,423.0	5.70	129.10	3,414.8	-120.0	123.8	-114.2	0.19	-0.11	1.58	
3,517.0	5.50	129.60	3,508.3	-125.8	130.9	-119.7	0.22	-0.21	0.53	
3,611.0	6.10	130.70	3,601.9	-131.9	138.2	-125.5	0.65	0.64	1.17	
3,705.0	6.50	142.10	3,695.3	-139.4	145.2	-132.7	1.39	0.43	12.13	
3,800.0	5.80	145.40	3,789.7	-147.5	151.3	-140.6	0.83	-0.74	3.47	
3,894.0	5.50	142.70	3,883.3	-155.0	156.7	-147.8	0.43	-0.32	-2.87	
3,925.0	5.40	135.20	3,914.1	-157.3	158.6	-149.9	2.32	-0.32	-24.19	
3,956.0	5.60	126.50	3,945.0	-159.2	160.9	-151.8	2.76	0.65	-28.06	
3,988.0	5.30	107.30	3,976.9	-160.6	163.5	-153.0	5.75	-0.94	-60.00	
4,019.0	6.20	84.90	4,007.7	-160.8	166.6	-153.2	7.74	2.90	-72.26	
4,051.0	7.40	71.70	4,039.5	-160.0	170.2	-152.2	6.13	3.75	-41.25	
4,082.0	8.60	57.50	4,070.2	-158.2	174.1	-150.1	7.43	3.87	-45.81	
4,113.0	10.20	48.90	4,100.8	-155.1	178.1	-146.9	6.85	5.16	-27.74	
4,145.0	11.70	39.80	4,132.2	-150.8	182.3	-142.4	7.14	4.69	-28.44	
4,176.0	13.10	29.20	4,162.5	-145.3	186.1	-136.7	8.60	4.52	-34.19	
4,208.0	15.70	19.30	4,193.5	-138.0	189.3	-129.3	11.16	8.13	-30.94	
4,239.0	18.50	14.10	4,223.1	-129.3	191.8	-120.5	10.28	9.03	-16.77	
4,271.0	20.70	9.80	4,253.2	-118.8	194.0	-109.9	8.22	6.88	-13.44	
4,303.0	23.10	6.00	4,282.9	-107.0	195.7	-98.0	8.71	7.50	-11.88	
4,334.0	25.60	4.00	4,311.2	-94.2	196.8	-85.3	8.49	8.06	-6.45	
4,366.0	28.20	3.50	4,339.7	-79.8	197.7	-70.8	8.16	8.13	-1.56	
4,398.0	30.50	3.00	4,367.6	-64.1	198.6	-55.1	7.23	7.19	-1.56	
4,430.0	32.10	2.80	4,394.9	-47.5	199.4	-38.5	5.01	5.00	-0.63	
4,462.0	34.00	3.10	4,421.8	-30.1	200.3	-21.0	5.96	5.94	0.94	
4,493.0	36.10	3.20	4,447.1	-12.3	201.3	-3.2	6.78	6.77	0.32	
4,525.0	38.30	2.80	4,472.6	7.0	202.3	16.1	6.92	6.88	-1.25	
4,557.0	41.00	2.00	4,497.3	27.4	203.2	36.5	8.59	8.44	-2.50	
4,588.0	43.60	1.50	4,520.2	48.2	203.8	57.4	8.46	8.39	-1.61	
4,620.0	46.30	1.40	4,542.8	70.8	204.4	80.0	8.44	8.44	-0.31	

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Survey Report

Company:	Sandridge Energy	Local Co-ordinate Reference:	Well Hughes 3408 3-22H
Project:	Harper County (NAD-27)	TVD Reference:	KB @ 1333.0usft
Site:	Sec 22-T34S-R08W	MD Reference:	KB @ 1333.0usft
Well:	Hughes 3408 3-22H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,651.0	48.10	1.40	4,563.9	93.6	204.9	102.7	5.81	5.81	0.00
4,682.0	50.60	1.60	4,584.1	117.1	205.6	126.2	8.08	8.06	0.65
4,714.0	54.10	1.50	4,603.6	142.4	206.2	151.6	10.94	10.94	-0.31
4,745.0	57.10	1.50	4,621.1	168.0	206.9	177.1	9.68	9.68	0.00
4,777.0	60.30	1.40	4,637.8	195.3	207.6	204.5	10.00	10.00	-0.31
4,809.0	63.80	1.50	4,652.8	223.6	208.3	232.7	10.94	10.94	0.31
4,840.0	66.80	1.60	4,665.7	251.7	209.1	260.9	9.68	9.68	0.32
4,872.0	69.50	1.70	4,677.6	281.4	209.9	290.6	8.44	8.44	0.31
4,903.0	72.50	2.00	4,687.7	310.7	210.9	319.9	9.72	9.68	0.97
4,934.0	75.50	1.40	4,696.3	340.5	211.8	349.7	9.85	9.68	-1.94
4,966.0	78.20	1.20	4,703.5	371.6	212.5	380.8	8.46	8.44	-0.63
4,998.0	80.00	1.00	4,709.6	403.0	213.1	412.2	5.66	5.63	-0.63
5,029.0	82.00	1.10	4,714.4	433.6	213.6	442.8	6.46	6.45	0.32
5,061.0	84.70	1.40	4,718.1	465.4	214.3	474.6	8.49	8.44	0.94
5,093.0	86.60	1.40	4,720.6	497.3	215.1	506.5	5.94	5.94	0.00
5,124.0	87.90	0.70	4,722.1	528.3	215.7	537.5	4.76	4.19	-2.26
5,219.0	89.50	0.30	4,724.2	623.2	216.5	632.4	1.74	1.68	-0.42
5,313.0	90.70	0.00	4,724.0	717.2	216.7	726.3	1.32	1.28	-0.32
5,383.0	91.50	359.60	4,722.7	787.2	216.5	796.2	1.28	1.14	-0.57
5,445.0	90.50	359.50	4,721.6	849.2	216.0	858.1	1.62	-1.61	-0.16
5,476.0	90.70	359.40	4,721.3	880.2	215.7	889.0	0.72	0.65	-0.32
5,567.0	90.20	358.90	4,720.6	971.2	214.4	979.9	0.78	-0.55	-0.55
5,657.0	89.80	358.50	4,720.6	1,061.2	212.3	1,069.7	0.63	-0.44	-0.44
5,748.0	89.30	358.80	4,721.3	1,152.1	210.2	1,160.5	0.64	-0.55	0.33
5,839.0	89.40	359.00	4,722.3	1,243.1	208.4	1,251.3	0.25	0.11	0.22
5,930.0	88.40	1.00	4,724.1	1,334.1	208.4	1,342.1	2.46	-1.10	2.20
6,022.0	89.10	0.60	4,726.1	1,426.1	209.7	1,434.1	0.88	0.76	-0.43
6,113.0	89.50	0.10	4,727.2	1,517.1	210.3	1,525.0	0.70	0.44	-0.55
6,204.0	90.30	359.40	4,727.4	1,608.1	209.9	1,615.9	1.17	0.88	-0.77
6,296.0	92.00	358.40	4,725.5	1,700.0	208.1	1,707.7	2.14	1.85	-1.09
6,386.0	93.50	357.50	4,721.2	1,789.9	204.9	1,797.3	1.94	1.67	-1.00
6,477.0	94.20	358.50	4,715.1	1,880.6	201.7	1,887.8	1.34	0.77	1.10
6,567.0	92.80	358.70	4,709.6	1,970.4	199.5	1,977.4	1.57	-1.56	0.22
6,658.0	93.00	1.60	4,705.0	2,061.3	199.8	2,068.2	3.19	0.22	3.19
6,753.0	91.40	2.20	4,701.3	2,156.1	202.9	2,163.1	1.80	-1.68	0.63
6,847.0	89.00	1.40	4,701.0	2,250.1	205.9	2,257.1	2.69	-2.55	-0.85
6,942.0	89.40	1.20	4,702.3	2,345.1	208.0	2,352.1	0.47	0.42	-0.21
7,037.0	89.90	0.70	4,702.9	2,440.0	209.6	2,447.0	0.74	0.53	-0.53
7,131.0	90.60	359.90	4,702.5	2,534.0	210.1	2,540.9	1.13	0.74	-0.85
7,225.0	91.00	0.30	4,701.2	2,628.0	210.3	2,634.8	0.60	0.43	0.43
7,320.0	91.90	1.10	4,698.8	2,723.0	211.4	2,729.8	1.27	0.95	0.84
7,416.0	93.40	1.60	4,694.3	2,818.9	213.7	2,825.6	1.65	1.56	0.52
7,509.0	91.50	1.70	4,690.4	2,911.7	216.4	2,918.5	2.05	-2.04	0.11

DrillRight

Survey Report

Company:	Sandridge Energy	Local Co-ordinate Reference:	Well Hughes 3408 3-22H
Project:	Harper County (NAD-27)	TVD Reference:	KB @ 1333.0usft
Site:	Sec 22-T34S-R08W	MD Reference:	KB @ 1333.0usft
Well:	Hughes 3408 3-22H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,604.0	91.10	1.20	4,688.2	3,006.7	218.8	3,013.5	0.67	-0.42	-0.53
7,698.0	91.90	1.10	4,685.8	3,100.6	220.6	3,107.4	0.86	0.85	-0.11
7,793.0	89.70	0.50	4,684.4	3,195.6	222.0	3,202.4	2.40	-2.32	-0.63
7,887.0	90.10	0.20	4,684.6	3,289.6	222.5	3,296.3	0.53	0.43	-0.32
7,981.0	88.50	359.30	4,685.7	3,383.6	222.1	3,390.2	1.95	-1.70	-0.96
8,076.0	88.40	358.90	4,688.3	3,478.5	220.6	3,484.9	0.43	-0.11	-0.42
8,171.0	88.80	358.10	4,690.6	3,573.5	218.2	3,579.7	0.94	0.42	-0.84
8,241.0	89.80	359.00	4,691.5	3,643.4	216.4	3,649.5	1.92	1.43	1.29
8,336.0	90.50	358.80	4,691.2	3,738.4	214.6	3,744.3	0.77	0.74	-0.21
8,430.0	90.70	358.60	4,690.3	3,832.4	212.4	3,838.1	0.30	0.21	-0.21
8,525.0	90.90	358.50	4,688.9	3,927.4	210.0	3,932.8	0.24	0.21	-0.11
8,619.0	89.40	359.40	4,688.7	4,021.3	208.3	4,026.6	1.86	-1.60	0.96
8,714.0	88.70	0.80	4,690.3	4,116.3	208.5	4,121.5	1.65	-0.74	1.47
8,808.0	89.10	0.40	4,692.1	4,210.3	209.4	4,215.5	0.60	0.43	-0.43
8,902.0	89.20	0.90	4,693.5	4,304.3	210.5	4,309.4	0.54	0.11	0.53
8,995.0	89.60	0.90	4,694.4	4,397.3	212.0	4,402.3	0.43	0.43	0.00
9,090.0	90.00	0.30	4,694.8	4,492.3	213.0	4,497.3	0.76	0.42	-0.63
9,185.0	90.50	0.50	4,694.3	4,587.3	213.6	4,592.2	0.57	0.53	0.21
9,248.0	91.00	0.50	4,693.5	4,650.2	214.2	4,655.2	0.79	0.79	0.00
9,298.0	91.00	0.50	4,692.7	4,700.2	214.6	4,705.1	0.00	0.00	0.00

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
0.0	0.0	0.0	0.0	Tie In Survey
805.0	805.0	3.4	3.6	First Drillright MWD Survey
9,248.0	4,693.5	4,650.2	214.2	Last Drillright MWD Survey
9,298.0				Projection at TD

Checked By: _____ Approved By: _____ Date: _____

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/30/2014
Job End Date:	8/31/2014
State:	Kansas
County:	Harper
API Number:	15-077-22118-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Hughes 3408 #3-22H
Longitude:	-98.16939624
Latitude:	37.06568950
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,693
Total Base Water Volume (gal):	2,236,332
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	Well Operator	Carrier/Base Fluid	Water	7732-18-5	100.00000	95.10482	None
40/70 Premium Preferred Sand	CAF	Proppant, Scouring, Fill	Crystalline Silica (quartz)	14808-60-7	100.00000	2.71254	None
40/70 Resin Coated Sand	CAF	Proppant, Scouring, Fill	Crystalline Silica (quartz)	14808-60-7	97.00000	1.26460	None
15% Unihibited HCl Acid	CAF	Etching, Dissolving, Cleaning	Water	7732-18-5	85.00000	0.62175	None
			Hydrochloric Acid	7647-01-0	15.00000	0.10972	None
			Water	7732-18-5	24.00000	0.00015	None
			Methanol	67-56-1	9.00000	0.00005	None
			2-Butoxyethanol	111-76-2	8.40000	0.00005	None
			Ethoxylated Nonylphenol	68412-54-4	8.40000	0.00005	None
			Ethylene Glycol	107-21-1	8.40000	0.00005	None
			N-Dimethylformamide	68-12-2	8.40000	0.00005	None
			Cinnamaldehyde	104-55-2	8.40000	0.00005	None
			isopropyl Alcohol	67-63-0	8.40000	0.00005	None

			Tar Bases-quinoline derivs-benzyl chloride/quaternized	72480-70-7	8.40000	0.00005	None
			Triethyl Phosphate	78-40-0	8.40000	0.00005	None
Scale Inhibitor	CAF	Scale Inhibitor					
			Water	7732-18-5	50.00000	0.02376	None
			Hydrochloric Acid	7647-01-0	16.80000	0.00799	None
			Phosphoric Acid	7664-38-2	16.80000	0.00799	None
			Ethylene Glycol	107-21-1	12.70000	0.00605	None
			Methanol	67-56-1	3.60000	0.00173	None
S-1, Surfactant, Non Ionic	CAF	Surface Tension Reducer					
			Water	7732-18-5	55.50000	0.02485	None
			Methanol	67-56-1	12.70000	0.00570	None
			Poly(ethylene Oxide)	25322-68-3	9.10000	0.00407	None
			Nonylphenal Polyethylene Glycol Ether	127087-87-0	9.10000	0.00407	None
			Dinanylphenyl Polyoxyethylene	201602-88-2	9.10000	0.00407	None
			Isopropanol	67-63-0	4.60000	0.00204	None
FR-986, Cationic Friction Reducer	CAF	Friction Reducer					
			Petroleum Hydrotreated Light Distillate	64742-47-8	2.50000	0.00135	None
Iron Control, Sodium Erythorbate	CAF	Iron Control					
			Sodium Erythorbate	6381-77-7	100.00000	0.00024	None
			Water	7732-18-5	54.50000	0.00018	None
			Isopropanol	67-63-0	13.60000	0.00004	None
			Methanol	67-56-1	9.00000	0.00003	None
			Glycol Ether EB	111-76-2	9.00000	0.00003	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.

* 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)

Conservation Division
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Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

March 12, 2015

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

Re: ACO-1
API 15-077-22118-01-00
Hughes 3408 3-22H
SE/4 Sec.22-34S-08W
Harper County, Kansas

Dear Wanda Ledbetter:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 11/5/2014 and the ACO-1 was received on March 12, 2015 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department