



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1115078
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: _____



1115078

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Frusher 1-15H
Doc ID	1115078

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5892-5950	434 bbls gel, 86 bbls acid, 1500 lbs salt, 595 TLTR	
5	5787-5857	4215 bbls gel, 86 bbls acid, 1500 lbs salt, 1168 TLTR	
5	5646-5704	430 bbls gel, 86 bbls acid, 1500 lbs salt, 1735 TLTR	
5	5404-5478	426 bbls water, 86 bbls acid, 1500 lbs salt, 2279 TLTR	
5	5277-5346	423 bbls gel, 86 bbls acid, 1500 lbs salt, 2812 TLTR	
5	5170-5208	422 bbls gel, 86 bbls acid, 1500 lbs salt, 3338 TLTR	
5	4998-5116	420 bbls gel, 86 bbls acid, 1500 lbs salt, 3867 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Frusher 1-15H
Doc ID	1115078

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	120	Pro Oilfield Services 10 Sack Grout	11	none
Surface	12.25	9.63	36	1260	Halliburton Extendacem and Swiftcem Systems	610	3% Calcium Chloride, .25 lbm Poly-E-Flake
Intermediate	8.75	7	26	4986	Halliburton Econocem and Halcem System	300	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite
Liner	6.12	4.5	11.6	6010	NA	0	NA

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

February 12, 2013

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

Re: ACO1
API 15-083-21781-01-00
Frusher 1-15H
SE/4 Sec.15-21S-24W
Hodgeman 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, INC.(mid-con.)

Hodgman County (KA27N)

Sec 15-T21S-R24W

Frusher 1-15H/ Job #04063-431-22/ Lariat 3

Wellbore #1

Design: Wellbore #1

Standard Survey Report

06 February, 2013

Archer Survey Report

Company: Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference: Well Frusher 1-15H/ Job #04063-431-22/ Lariat 3
Project: Hodgman County (KA27N)	TVD Reference: WELL @ 2355.0usft (Original Well Elev)
Site: Sec 15-T21S-R24W	MD Reference: WELL @ 2355.0usft (Original Well Elev)
Well: Frusher 1-15H/ Job #04063-431-22/ Lariat 3	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: EDM 5000.1 Single User Db

Project Hodgman County (KA27N)	
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 15-T21S-R24W		
Site Position:	Northing: 568,263.00 usft	Latitude: 38° 13' 6.139 N
From: Map	Easting: 1,582,193.00 usft	Longitude: 99° 57' 15.528 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: -0.89 °

Well Frusher 1-15H/ Job #04063-431-22/ Lariat 3			
Well Position	+N-S 0.0 usft	Northing: 568,438.00 usft	Latitude: 38° 13' 8.624 N
	+E-W 0.0 usft	Easting: 1,587,118.00 usft	Longitude: 99° 56' 13.856 W
Position Uncertainty	0.0 usft	Wellhead Elevation: usft	Ground Level: 2,337.0 usft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	01/21/13	5.73	65.92	52,261

Design Wellbore #1					
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.0			
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.0	0.0	0.0	0.51	

Survey Program		Date 02/06/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,548.0	8,093.0	Archer MWD Survey (Wellbore #1)	MWD	MWD - Standard

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,548.0	0.40	17.30	1,548.0	5.2	1.6	5.2	0.03	0.03	0.00	
First Archer MWD Survey										
2,013.0	0.80	1.80	2,013.0	10.0	2.2	10.0	0.09	0.09	-3.33	
2,478.0	0.80	359.30	2,477.9	16.4	2.3	16.5	0.01	0.00	-0.54	
2,946.0	0.90	9.20	2,945.9	23.3	2.8	23.4	0.04	0.02	2.12	
3,414.0	0.90	40.10	3,413.8	29.8	5.8	29.8	0.10	0.00	6.60	
3,508.0	1.00	44.00	3,507.8	30.9	6.8	31.0	0.13	0.11	4.15	
3,601.0	1.10	31.10	3,600.8	32.3	7.8	32.3	0.28	0.11	-13.87	
3,697.0	3.10	336.40	3,696.7	35.5	7.3	35.5	2.73	2.08	-56.98	
3,728.0	5.20	335.20	3,727.6	37.5	6.3	37.5	6.78	6.77	-3.87	

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Frusher 1-15H/ Job #04063-431-22/ Lariat 3
Project:	Hodgman County (KA27N)	TVD Reference:	WELL @ 2355.0usft (Original Well Elev)
Site:	Sec 15-T21S-R24W	MD Reference:	WELL @ 2355.0usft (Original Well Elev)
Well:	Frusher 1-15H/ Job #04063-431-22/ Lariat 3	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)
3,759.0	7.30	337.30	3,758.4	40.6	5.0	40.6	6.81	6.77	6.77
3,790.0	9.60	339.40	3,789.1	44.8	3.3	44.9	7.48	7.42	6.77
3,822.0	12.10	338.70	3,820.5	50.4	1.2	50.5	7.82	7.81	-2.19
3,853.0	14.40	338.50	3,850.7	57.1	-1.4	57.0	7.42	7.42	-0.65
3,885.0	16.90	337.20	3,881.5	65.1	-4.7	65.0	7.89	7.81	-4.06
3,916.0	19.80	336.80	3,910.9	74.0	-8.5	74.0	9.36	9.35	-1.29
3,947.0	22.90	337.20	3,939.8	84.4	-12.9	84.3	10.01	10.00	1.29
3,977.0	25.90	338.20	3,967.1	95.9	-17.6	95.7	10.09	10.00	3.33
4,009.0	29.40	340.40	3,995.5	109.8	-22.8	109.6	11.39	10.94	6.88
4,040.0	32.40	342.60	4,022.1	124.9	-27.9	124.6	10.34	9.68	7.10
4,071.0	35.30	345.20	4,047.8	141.5	-32.7	141.2	10.45	9.35	8.39
4,103.0	38.20	347.20	4,073.5	160.1	-37.2	159.7	9.80	9.06	6.25
4,135.0	40.40	349.00	4,098.2	179.9	-41.4	179.5	7.74	6.88	5.63
4,166.0	43.00	349.50	4,121.4	200.2	-45.2	199.7	8.46	8.39	1.61
4,195.0	45.50	350.80	4,142.1	220.1	-48.7	219.6	9.17	8.62	4.48
4,226.0	47.60	351.70	4,163.4	242.3	-52.1	241.9	7.09	6.77	2.90
4,257.0	49.50	353.60	4,184.0	265.4	-55.1	264.9	7.66	6.13	6.13
4,288.0	51.30	355.70	4,203.7	289.2	-57.3	288.6	7.81	5.81	6.77
4,319.0	52.10	358.00	4,222.9	313.4	-58.6	312.9	6.37	2.58	7.42
4,350.0	52.00	358.30	4,242.0	337.9	-59.4	337.3	0.83	-0.32	0.97
4,381.0	51.90	358.10	4,261.1	362.3	-60.2	361.7	0.60	-0.32	-0.65
4,412.0	51.90	358.30	4,280.2	386.7	-60.9	386.1	0.51	0.00	0.65
4,443.0	51.70	358.90	4,299.4	411.0	-61.5	410.4	1.65	-0.65	1.94
4,475.0	51.30	0.80	4,319.3	436.0	-61.6	435.5	4.81	-1.25	5.94
4,507.0	50.30	0.40	4,339.6	460.8	-61.3	460.3	3.27	-3.13	-1.25
4,538.0	49.20	0.30	4,359.6	484.5	-61.2	483.9	3.56	-3.55	-0.32
4,569.0	49.30	0.70	4,379.8	508.0	-61.0	507.4	1.03	0.32	1.29
4,600.0	52.20	1.30	4,399.4	532.0	-60.6	531.4	9.47	9.35	1.94
4,632.0	55.50	1.10	4,418.3	557.8	-60.0	557.3	10.32	10.31	-0.63
4,663.0	58.60	0.90	4,435.2	583.8	-59.6	583.3	10.01	10.00	-0.65
4,694.0	61.90	0.80	4,450.5	610.7	-59.2	610.2	10.65	10.65	-0.32
4,726.0	65.30	0.10	4,464.8	639.4	-59.0	638.8	10.80	10.63	-2.19
4,756.0	69.00	359.90	4,476.4	667.0	-59.0	666.5	12.35	12.33	-0.67
4,788.0	71.70	359.30	4,487.2	697.2	-59.2	696.6	8.62	8.44	-1.88
4,821.0	75.30	358.30	4,496.6	728.8	-59.8	728.2	11.29	10.91	-3.03
4,853.0	79.30	357.50	4,503.6	760.0	-61.0	759.4	12.74	12.50	-2.50
4,884.0	83.10	356.10	4,508.3	790.6	-62.7	790.0	13.04	12.26	-4.52
4,915.0	86.50	356.00	4,511.1	821.4	-64.8	820.7	10.97	10.97	-0.32
5,010.0	91.90	358.80	4,512.5	916.2	-69.1	915.6	6.40	5.68	2.95
5,040.0	92.30	358.70	4,511.4	946.2	-69.8	945.5	1.37	1.33	-0.33
5,071.0	92.70	359.10	4,510.0	977.1	-70.4	976.5	1.82	1.29	1.29
5,101.0	91.30	359.60	4,509.0	1,007.1	-70.7	1,006.5	4.96	-4.67	1.67
5,132.0	90.70	358.80	4,508.4	1,038.1	-71.1	1,037.4	3.23	-1.94	-2.58

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Frusher 1-15H/ Job #04063-431-22/ Lariat 3
Project:	Hodgman County (KA27N)	TVD Reference:	WELL @ 2355.0usft (Original Well Elev)
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Well:	Frusher 1-15H/ Job #04063-431-22/ Lariat 3	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)	
5,163.0	89.60	359.20	4,508.3	1,069.1	-71.7	1,068.4	3.78	-3.55	1.29	
5,193.0	89.10	359.60	4,508.7	1,099.1	-72.0	1,098.4	2.13	-1.67	1.33	
5,223.0	89.10	358.60	4,509.2	1,129.1	-72.5	1,128.4	3.33	0.00	-3.33	
5,254.0	88.50	358.30	4,509.8	1,160.1	-73.3	1,159.4	2.16	-1.94	-0.97	
5,284.0	88.60	358.90	4,510.6	1,190.1	-74.0	1,189.4	2.03	0.33	2.00	
5,315.0	88.40	0.00	4,511.4	1,221.0	-74.3	1,220.3	3.61	-0.65	3.55	
5,345.0	89.60	0.70	4,511.9	1,251.0	-74.2	1,250.3	4.63	4.00	2.33	
5,376.0	90.20	1.20	4,512.0	1,282.0	-73.6	1,281.3	2.52	1.94	1.61	
5,406.0	90.40	1.20	4,511.8	1,312.0	-73.0	1,311.3	0.67	0.67	0.00	
5,437.0	90.20	1.80	4,511.6	1,343.0	-72.2	1,342.3	2.04	-0.65	1.94	
5,467.0	90.20	2.70	4,511.5	1,373.0	-71.0	1,372.3	3.00	0.00	3.00	
5,498.0	90.20	2.80	4,511.4	1,404.0	-69.5	1,403.3	0.32	0.00	0.32	
5,529.0	89.80	2.50	4,511.4	1,434.9	-68.1	1,434.3	1.61	-1.29	-0.97	
5,559.0	89.80	2.20	4,511.5	1,464.9	-66.9	1,464.2	1.00	0.00	-1.00	
5,590.0	89.30	2.30	4,511.8	1,495.9	-65.7	1,495.2	1.64	-1.61	0.32	
5,620.0	89.10	2.90	4,512.2	1,525.8	-64.3	1,525.2	2.11	-0.67	2.00	
5,650.0	89.50	2.80	4,512.6	1,555.8	-62.8	1,555.2	1.37	1.33	-0.33	
5,681.0	89.60	2.70	4,512.8	1,586.8	-61.3	1,586.2	0.46	0.32	-0.32	
5,712.0	89.20	2.80	4,513.1	1,617.7	-59.8	1,617.1	1.33	-1.29	0.32	
5,742.0	89.30	2.90	4,513.5	1,647.7	-58.3	1,647.1	0.47	0.33	0.33	
5,773.0	90.20	2.70	4,513.7	1,678.7	-56.8	1,678.1	2.97	2.90	-0.65	
5,803.0	91.40	2.00	4,513.2	1,708.6	-55.6	1,708.1	4.63	4.00	-2.33	
5,833.0	92.00	1.80	4,512.3	1,738.6	-54.6	1,738.0	2.11	2.00	-0.67	
5,863.0	92.00	2.00	4,511.3	1,768.6	-53.6	1,768.0	0.67	0.00	0.67	
5,894.0	90.70	2.80	4,510.6	1,799.5	-52.3	1,799.0	4.92	-4.19	2.58	
5,924.0	89.60	2.90	4,510.5	1,829.5	-50.8	1,829.0	3.68	-3.67	0.33	
5,955.0	89.60	2.90	4,510.7	1,860.4	-49.3	1,859.9	0.00	0.00	0.00	
5,985.0	89.40	2.90	4,511.0	1,890.4	-47.7	1,889.9	0.67	-0.67	0.00	
6,016.0	89.10	1.80	4,511.4	1,921.4	-46.5	1,920.9	3.68	-0.97	-3.55	
6,046.0	89.50	1.40	4,511.7	1,951.4	-45.6	1,950.9	1.89	1.33	-1.33	
6,077.0	89.50	1.30	4,512.0	1,982.3	-44.9	1,981.9	0.32	0.00	-0.32	
6,107.0	89.10	2.30	4,512.4	2,012.3	-44.0	2,011.9	3.59	-1.33	3.33	
6,137.0	89.20	2.60	4,512.8	2,042.3	-42.7	2,041.8	1.05	0.33	1.00	
6,168.0	89.50	2.70	4,513.2	2,073.3	-41.2	2,072.8	1.02	0.97	0.32	
6,200.0	89.70	2.20	4,513.4	2,105.2	-39.9	2,104.8	1.68	0.63	-1.56	
6,231.0	89.70	2.00	4,513.6	2,136.2	-38.7	2,135.8	0.65	0.00	-0.65	
6,263.0	89.80	1.70	4,513.7	2,168.2	-37.7	2,167.8	0.99	0.31	-0.94	
6,326.0	90.80	2.40	4,513.4	2,231.2	-35.4	2,230.8	1.94	1.59	1.11	
6,358.0	90.90	2.20	4,512.9	2,263.1	-34.2	2,262.7	0.70	0.31	-0.63	
6,421.0	90.90	2.00	4,511.9	2,326.1	-31.9	2,325.7	0.32	0.00	-0.32	
6,452.0	90.90	1.70	4,511.4	2,357.1	-30.9	2,356.7	0.97	0.00	-0.97	
6,516.0	91.00	1.70	4,510.4	2,421.0	-29.0	2,420.7	0.16	0.16	0.00	
6,548.0	90.80	2.00	4,509.9	2,453.0	-27.9	2,452.7	1.13	-0.63	0.94	

Archer Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Frusher 1-15H/ Job #04063-431-22/ Lariat 3
Project:	Hodgman County (KA27N)	TVD Reference:	WELL @ 2355.0usft (Original Well Elev)
Site:	Sec 15-T21S-R24W	MD Reference:	WELL @ 2355.0usft (Original Well Elev)
Well:	Frusher 1-15H/ Job #04063-431-22/ Lariat 3	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)	
6,611.0	90.10	1.20	4,509.4	2,516.0	-26.2	2,515.6	1.69	-1.11	-1.27	
6,642.0	90.20	1.00	4,509.3	2,547.0	-25.6	2,546.6	0.72	0.32	-0.65	
6,705.0	90.60	1.30	4,508.8	2,610.0	-24.3	2,609.6	0.79	0.63	0.48	
6,737.0	90.90	1.20	4,508.4	2,641.9	-23.6	2,641.6	0.99	0.94	-0.31	
6,800.0	91.00	1.20	4,507.4	2,704.9	-22.3	2,704.6	0.16	0.16	0.00	
6,832.0	90.90	1.00	4,506.8	2,736.9	-21.7	2,736.6	0.70	-0.31	-0.63	
6,895.0	88.80	0.30	4,507.0	2,799.9	-21.0	2,799.6	3.51	-3.33	-1.11	
6,927.0	87.70	0.00	4,508.0	2,831.9	-20.9	2,831.6	3.56	-3.44	-0.94	
6,958.0	88.70	0.70	4,509.0	2,862.9	-20.7	2,862.6	3.94	3.23	2.26	
6,990.0	90.20	1.40	4,509.3	2,894.9	-20.1	2,894.6	5.17	4.69	2.19	
7,022.0	91.00	2.20	4,508.9	2,926.8	-19.1	2,926.6	3.54	2.50	2.50	
7,054.0	91.40	2.00	4,508.3	2,958.8	-17.9	2,958.5	1.40	1.25	-0.63	
7,117.0	90.50	1.20	4,507.2	3,021.8	-16.2	3,021.5	1.91	-1.43	-1.27	
7,148.0	89.90	1.20	4,507.1	3,052.8	-15.5	3,052.5	1.94	-1.94	0.00	
7,180.0	90.00	1.40	4,507.1	3,084.8	-14.8	3,084.5	0.70	0.31	0.63	
7,212.0	90.80	2.20	4,506.9	3,116.7	-13.8	3,116.5	3.54	2.50	2.50	
7,244.0	91.60	3.30	4,506.2	3,148.7	-12.2	3,148.5	4.25	2.50	3.44	
7,275.0	92.00	2.70	4,505.3	3,179.6	-10.6	3,179.4	2.33	1.29	-1.94	
7,307.0	92.30	2.30	4,504.1	3,211.6	-9.2	3,211.4	1.56	0.94	-1.25	
7,338.0	92.30	1.80	4,502.8	3,242.5	-8.1	3,242.3	1.61	0.00	-1.61	
7,370.0	91.90	2.00	4,501.7	3,274.5	-7.1	3,274.3	1.40	-1.25	0.63	
7,401.0	91.50	1.90	4,500.7	3,305.5	-6.0	3,305.3	1.33	-1.29	-0.32	
7,433.0	90.90	1.00	4,500.1	3,337.5	-5.2	3,337.3	3.38	-1.88	-2.81	
7,464.0	90.30	0.30	4,499.7	3,368.5	-4.8	3,368.3	2.97	-1.94	-2.26	
7,496.0	89.40	0.50	4,499.8	3,400.5	-4.6	3,400.3	2.88	-2.81	0.63	
7,528.0	89.10	0.90	4,500.2	3,432.4	-4.2	3,432.3	1.56	-0.94	1.25	
7,559.0	89.20	1.20	4,500.7	3,463.4	-3.7	3,463.3	1.02	0.32	0.97	
7,591.0	89.50	0.90	4,501.1	3,495.4	-3.1	3,495.3	1.33	0.94	-0.94	
7,623.0	89.10	0.50	4,501.5	3,527.4	-2.7	3,527.3	1.77	-1.25	-1.25	
7,654.0	88.50	359.80	4,502.1	3,558.4	-2.6	3,558.3	2.97	-1.94	-2.26	
7,686.0	88.60	0.30	4,502.9	3,590.4	-2.6	3,590.2	1.59	0.31	1.56	
7,717.0	89.20	0.90	4,503.5	3,621.4	-2.3	3,621.2	2.74	1.94	1.94	
7,749.0	89.10	1.10	4,504.0	3,653.4	-1.7	3,653.2	0.70	-0.31	0.63	
7,781.0	88.90	0.70	4,504.5	3,685.4	-1.2	3,685.2	1.40	-0.63	-1.25	
7,813.0	89.60	0.50	4,505.0	3,717.4	-0.9	3,717.2	2.28	2.19	-0.63	
7,844.0	90.30	0.50	4,505.0	3,748.4	-0.6	3,748.2	2.26	2.26	0.00	
7,876.0	90.30	0.60	4,504.8	3,780.4	-0.3	3,780.2	0.31	0.00	0.31	
7,907.0	90.10	0.80	4,504.7	3,811.4	0.1	3,811.2	0.91	-0.65	0.65	
7,939.0	89.00	0.90	4,505.0	3,843.4	0.6	3,843.2	3.45	-3.44	0.31	
7,971.0	88.10	0.60	4,505.8	3,875.4	1.0	3,875.2	2.96	-2.81	-0.94	
8,003.0	87.70	359.40	4,506.9	3,907.3	1.0	3,907.2	3.95	-1.25	-3.75	
8,035.0	86.80	358.10	4,508.5	3,939.3	0.3	3,939.1	4.94	-2.81	-4.06	
Last Archer MWD Survey										
8,093.0	86.80	358.10	4,511.7	3,997.2	-1.6	3,997.0	0.00	0.00	0.00	

Archer

Survey Report

Company: Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference: Well Frusher 1-15H/ Job #04063-431-22/ Lariat 3
Project: Hodgman County (KA27N)	TVD Reference: WELL @ 2355.0usft (Original Well Elev)
Site: Sec 15-T21S-R24W	MD Reference: WELL @ 2355.0usft (Original Well Elev)
Well: Frusher 1-15H/ Job #04063-431-22/ Lariat 3	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)
Projection to TD - PBHL Frusher 1-15H									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,548.0	1,548.0	5.2	1.6	First Archer MWD Survey	
8,035.0	4,508.5	3,939.3	0.3	Last Archer MWD Survey	
8,093.0	4,511.7	3,997.2	-1.6	Projection to TD	

Checked By: _____	Approved By: _____	Date: _____
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P.O. BOX 3660
HOUMA, LA 70361-3660

Customer : SAN400

BILL TO : SANDRIDGE ENERGY
123 ROBERT S KERR AVENUE
OKLAHOMA CITY, OK 73102-6406
PHONE: (405) 753-5500 FAX: ()

Division : 0701
Delivery Ticket : 4054
Delivery Date : 1/28/2013
Office : 12/1/1901

Ordered By :
Lease/Well : FRUSHER 1-15 H
Rig Name/Number : LARIAT 3
AFE Number :
Site Contact :

:
:
:

Qty	Description	Min / Standby / Usage Charge	Add Day	Unit Price	Start Date / Stop Date	Extended Line Total
1	FRUSHER 1-15H	\$21,750.00	\$0.00	\$21,750.00	1/19/2013 1/19/2013	\$21,750.00
106	DRILLED 30" CONDUCTOR HOLE	\$0.00	\$0.00	\$0.00	1/19/2013 1/19/2013	
106	20" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	\$0.00	1/19/2013 1/19/2013	
1	6'X6' CELLAR TINHORN WITH PROTECTIVE RING	\$0.00	\$0.00	\$0.00	1/19/2013 1/19/2013	
1	DRILL & INSTALL 6'X6' CELLAR TINHORN	\$0.00	\$0.00	\$0.00	1/19/2013 1/19/2013	
75	DRILLED 20" MOUSE HOLE (PER FOOT)	\$0.00	\$0.00	\$0.00	1/19/2013 1/19/2013	
75	16" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	\$0.00	1/19/2013 1/19/2013	
1	MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE	\$0.00	\$0.00	\$0.00	1/19/2013 1/19/2013	
1	WELDING SERVICES FOR PIPE & LIDS	\$0.00	\$0.00	\$0.00	1/19/2013 1/19/2013	
1	PROVIDED EQUIPMENT & LABOR FOR DIRT REMOVAL	\$0.00	\$0.00	\$0.00	1/19/2013 1/19/2013	
1	PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR THE MOUSEHOLE PIPE)	\$0.00	\$0.00	\$0.00	1/19/2013 1/19/2013	
11	CEMENT 10 SACK GROUT	\$0.00	\$0.00	\$0.00	1/19/2013 1/19/2013	
Sub Total:		\$21,750.00	\$0.00			\$21,750.00

Print Name

Signature

HALLIBURTON

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JAN 30 2013

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2976165	Quote #:	Sales Order #: 900165200
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: ., Jessie	
Well Name: Frusher	Well #: 1-15H	API/UWI #:	
Field:	City (SAP): JETMORE	County/Parish: Hodgeman	State: Kansas
Legal Description: Section 15 Township 21S Range 24W			
Contractor: Lariat		Rig/Platform Name/Num: 3	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: CARRILLO, EDUARDO	MBU ID Emp #: 371263

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARELLANO, JOSE L	11	480847	CARRILLO, EDUARDO Carrillo	11	371263	LUNA, JOSE A	11	480456
RODRIGUEZ, BENITO	11	519090						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10688356	100 mile	10744298C	100 mile	10988832	100 mile	10991615	100 mile
11133699	100 mile	11566184	100 mile	11748313	100 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
1-24-2013	14	4						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top Bottom	Called Out	23 - Jan - 2013	22:00 CST
Form Type BHST	On Location	24 - Jan - 2013	01:00 CST
Job depth MD 1258. ft Job Depth TVD 1258. ft	Job Started	24 - Jan - 2013	12:20 CST
Water Depth Wk Ht Above Floor 4. ft	Job Completed	24 - Jan - 2013	13:30 GMT
Perforation Depth (MD) From To	Departed Loc	24 - Jan - 2013	15:05 CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
12.25" Open Hole				12.25					1250.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55		1250.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9 5/8	1	H
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	1	H
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 ³ /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	Lead Cement	EXTENDACEM (TM) SYSTEM (452981)	300.0	sacks	12.4	2.11	11.61		11.61	
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)								
	0.25 lbm	POLY-E-FLAKE (101216940)								
	11.609 Gal	FRESH WATER								
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	310.0	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		93.00	bbl	8.33	.0	.0	.0		
Calculated Values			Pressures			Volumes				
Displacement	94	Shut In: Instant		Lost Returns	0	Cement Slurry	179	Pad		
Top Of Cement	Surface	5 Min		Cement Returns	60	Actual Displacement	94	Treatment		
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	283	
Rates										
Circulating	6	Mixing	6	Displacement	6	Avg. Job	6			
Cement Left In Pipe	Amount	42 ft	Reason	Shoe Joint						
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID			
The Information Stated Herein Is Correct				Customer Representative Signature						

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HALLIBURTON

FEB 6 2013

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2976165	Quote #:	Sales Order #: 900182100
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: ., Jessie	
Well Name: Frusher	Well #: 1-15H	API/UWI #:	
Field:	City (SAP): JETMORE	County/Parish: Hodgeman	State: Kansas
Legal Description: Section 15 Township 21S Range 24W			
Contractor: Lariat		Rig/Platform Name/Num: 3	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: RODRIGUEZ, EDGAR	MBU ID Emp #: 442125

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
NASH, JONATHAN	7.5	524600	RAMIREZ, JORGE	7.5	498481	RODRIGUEZ, EDGAR Alejandro	7.5	442125

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
2/1/2013	2	1	2/2/2013	5.5	2.5			

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
				On Location	01 - Feb - 2013	15:00	CST
Form Type			BHST	On Location	01 - Feb - 2013	20:00	CST
Job depth MD	4993.7 ft		Job Depth TVD	Job Started	02 - Feb - 2013	02:23	CST
Water Depth			Wk Ht Above Floor	Job Completed	02 - Feb - 2013	03:47	CST
Perforation Depth (MD)	From		To	Departed Loc	02 - Feb - 2013	05:30	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
8.75" Open Hole				8.75				1250.	4913.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	4913.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	1250.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP,7,HWE,5.66 MIN/6.54 MAX CS	1	EA		

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	

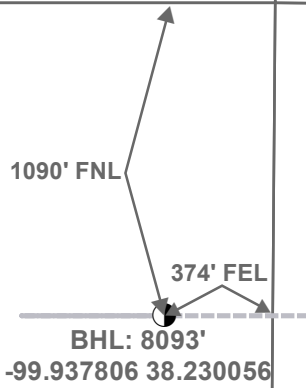
Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Rig Supplied Gel Spacer		30.00	bbl	8.33	.0	.0	.0	
2	Lead Cement	ECONOCEM (TM) SYSTEM (452992)	200.0	sacks	13.6	1.53	7.24		7.24
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, 50 LB BAG (100064232)							
	2 %	BENTONITE, BULK (100003682)							
	7.24 Gal	FRESH WATER							
3	Tail Cement	HALGEM (TM) SYSTEM (452986)	100.0	sacks	15.6	1.19	5.08		5.08
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, 50 LB BAG (100064232)							
	5.076 Gal	FRESH WATER							
4	Displacement		187.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement	187	Shut In: Instant		Lost Returns		Cement Slurry	76	Pad	
Top Of Cement	2318.09	5 Min		Cement Returns		Actual Displacement	187	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	293
Rates									
Circulating	5	Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	88.01 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature <i>R.L. May</i>					

Section 10
21S 24W

Section 11
21S 24W



Hodgeman County

Section 15
21S 24W

Section 14
21S 24W

Bottom Perf: 5892'
-99.937864 38.224019

Top Perf: 4998'
-99.937875 38.221593

Miss Entry: 4854'
-99.937839 38.221165

CARISSA SWD 2-15

CARISSA SWD 1-15

FRUSHER 1-15H

Section 22
21S 24W

Section 23
21S 24W



Actual Bottom-Hole Location of Frusher 1-15H
Hodgeman County, Kansas
T&R: 21S 24W
Section: 15, 374' FEL & 1090' FNL
Long/Lat: -99.937806 38.230056

1 in = 668 ft

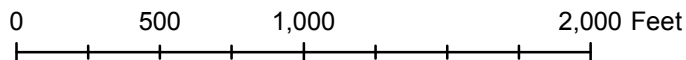


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 5/8/2013

Drawing Name/Number:

Addendum_Frusher1-15H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	3/14/2013
State:	KS
County:	Hodgeman
API Number:	15-083-21781
Operator Name:	SandRidge Expl. and Prod. LLC
Well Name and Number:	Frusher 1-15H
Longitude:	-99.9371
Latitude:	38.219
Long/Lat Projection:	NAD27
Production Type:	Oil
True Vertical Depth (TVD):	4,512
Total Water Volume (gal)*:	150,830

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
HCL 15, Slickwater, WF130	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant, Acid, Diverting Agent, Breaker, Gelling Agent, Iron Control Agent	Water (Including Mix Water Supplied by Client)*	-		95.82329%	
			Hydrogen chloride	7647-01-0	66.71327%	2.78642%	
			Sodium chloride	7647-14-5	21.87170%	0.91352%	
			Ethanaminium,n,n,n-trimethyl-methyl-oxo, chloride, polymer with propenamide	35429-19-7	2.99289%	0.12500%	
			Guar gum	9000-30-0	2.79771%	0.11685%	
			Distillates (petroleum), hydrotreated light	64742-47-8	2.21958%	0.09271%	
			Methanol	67-56-1	0.63711%	0.02661%	
			Sodium erythorbate	6381-77-7	0.60147%	0.02512%	
			Alcohols, c11-15-secondary, ethoxylated	68131-40-8	0.32356%	0.01351%	
			Sorbitan monooleate	1338-43-8	0.26296%	0.01098%	
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.23187%	0.00968%	
			Diammonium peroxidisulphate	7727-54-0	0.20049%	0.00837%	
			Fatty acids, tall-oil	61790-12-3	0.19946%	0.00833%	
			Alcohol, C11 linear, ethoxylated	34398-01-1	0.18276%	0.00763%	
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.16415%	0.00686%	
			Ammonium chloride	12125-02-9	0.13333%	0.00557%	
			Alcohol, C9-C11, Ethoxylated	68439-46-3	0.12184%	0.00509%	
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.07639%	0.00319%	
			Prop-2-yn-1-ol	107-19-7	0.05093%	0.00213%	
			Trisodium ortho phosphate	7601-54-9	0.03943%	0.00165%	
			Alkenes, C>10 a-	64743-02-8	0.03395%	0.00142%	

			Ethoxylated oleic acid	9004-96-0	0.02319%	0.00097%	
			Sorbitol Tetraoleate	61723-83-9	0.01449%	0.00061%	
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.01206%	0.00050%	
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.01194%	0.00050%	
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.01194%	0.00050%	
			Ethane-1,2-diol	107-21-1	0.01122%	0.00047%	
			Non-crystalline silica	7631-86-9	0.00762%	0.00032%	
			C14 alpha olefin ethoxylate	84133-50-6	0.00638%	0.00027%	
			2-Propenoic acid, ammonium salt	10604-69-0	0.00580%	0.00024%	

* 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%

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

Remarks

Tiffany Golay 05/01/013 08:12 am	Additional Fluid Mgmt Info: 750 bbls hauled to Weinett Disposal LLC, NW/4 Section 1079 Block 43, Lipscomb, TX, 10-0992
Tiffany Golay 04/26/013 08:34 am	Open hole packer liner system was used for this well. FracPoint liner