



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1234979  
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: \_\_\_\_\_

1234979

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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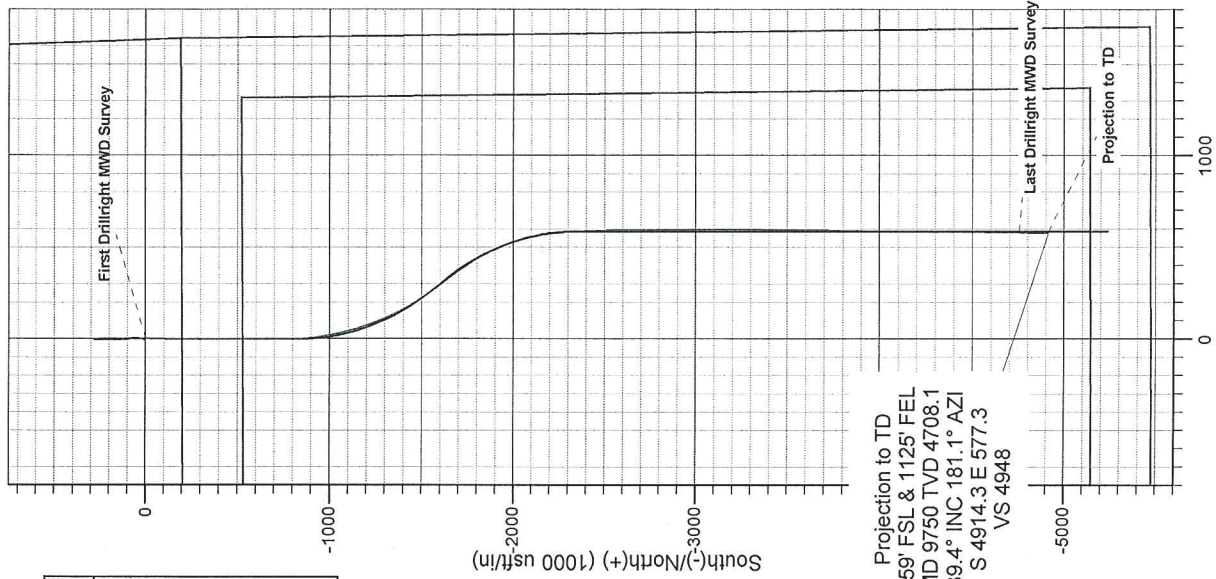
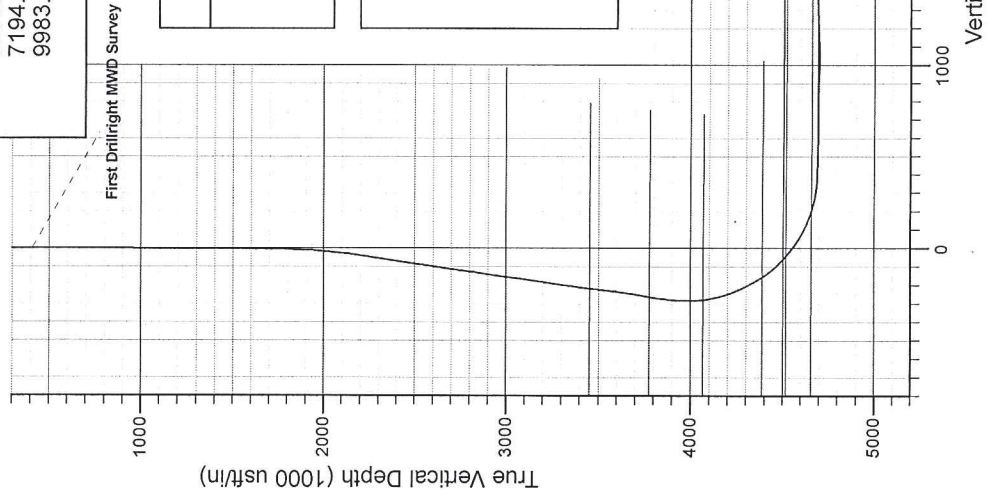
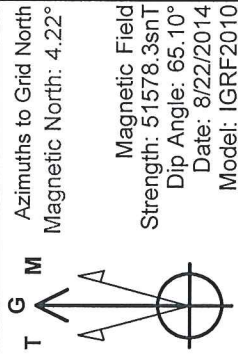
Project: Harper County (NAD-27)  
 Site: Sec 21-T34S-R08W  
 Well: Jones Trust 3408 1-28H 1L  
 Plan: Plan 090414 A1 (Jones Trust 3408 1-28H 1L/Wellbore #1)

### SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
5350.0	91.20	180.10	4692.8	-655.9	-1.8	0.00	0.00	651.5
5408.7	90.03	180.00	4692.1	-714.6	-1.9	2.00	175.11	709.8
5516.7	90.03	180.00	4692.1	-822.6	-1.9	0.00	0.00	817.1
6318.1	89.90	139.93	4692.6	-1560.2	267.1	5.00	-90.19	1580.4
6393.1	89.90	139.93	4692.7	-1617.6	315.4	0.00	0.00	1642.9
7194.5	89.90	180.00	4694.2	-2355.3	584.4	5.00	90.04	2406.2
9983.3	89.90	180.00	4699.0	-5144.0	584.4	0.00	0.00	5177.1

**WELL DETAILS: Jones Trust 3408 1-28H 1L**

Ground Level:	1284.0
Northing	145437.00
Easting	2090895.00
Latitude	37° 3' 56.411 N
Longitude	98° 11' 18.612 W



Projection to TD  
 559' FSL & 1125' FEL  
 MD 9750 TVD 4708.1  
 89.4° INC 181.1° AZI  
 S 4914.3 E 577.3  
 VS 4948

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 559' FSL & 1125' FEL  
 MD 9750 TVD 4708.1  
 89.4° INC 181.1° AZI  
 S 4914.3 E 577.3  
 VS 4948



# Survey Report

DRT Job # : DR1408191

Company:	Sandridge	Customer Rep	Position	Directional Driller	MWD Operator
Well Name:	Jones Trust 3408 1-29H 1L			Scott Graham	Mike Carpenter
Legals:	Sec: 21 Township: 34S			Phillip Bryant	George Hunt
County/State:	Harper KS				
Rig Name:	Lariat 20				

## Jones Trust 3408 1-28H 1L Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
TieInPoint	0	0	0	0	0	0	0	0	0	0	0	0
Survey	412	0.1	183.5	412	-0.36	-0.02	0.36	0.02	0.02	42.84	183.18	0.36
Survey	687	0.3	252.4	687	-0.82	-0.72	0.73	0.1	0.07	25.05	221.28	1.09
Survey	962	0.3	277	962	-0.95	-2.12	0.7	0.05	0	8.95	245.86	2.32
Survey	1238	0.4	298.7	1237.99	-0.4	-3.68	-0.02	0.06	0.04	7.86	263.8	3.7
Survey	1420	0.5	310.9	1419.98	0.43	-4.84	-0.97	0.08	0.05	6.7	275.08	4.86
Survey	1704	0.4	4.3	1703.98	2.22	-5.7	-2.85	0.15	0.04	18.8	291.28	6.12
Survey	1799	1.6	46.4	1798.96	3.47	-4.71	-3.98	1.4	1.26	44.32	306.38	5.85
Survey	1893	3.6	28	1892.86	6.98	-2.38	-7.2	2.28	2.13	19.57	341.17	7.37
Survey	1987	5.1	19.9	1986.59	13.51	0.43	-13.38	1.72	1.6	8.62	1.82	13.52
Survey	2081	6.8	12.5	2080.08	22.87	3.06	-22.38	1.98	1.81	7.87	7.62	23.07
Survey	2176	8.7	2.4	2174.21	35.54	4.58	-34.8	2.45	2	10.63	7.34	35.83
Survey	2270	8	359.2	2267.22	49.19	4.78	-48.34	0.89	0.74	3.4	5.55	49.42
Survey	2365	8.5	357.5	2361.23	62.81	4.38	-61.91	0.59	0.53	1.79	3.99	62.96
Survey	2460	8	355.4	2455.25	76.41	3.54	-75.52	0.61	0.53	2.21	2.65	76.49
Survey	2554	7.9	355.1	2548.34	89.37	2.47	-88.52	0.12	0.11	0.32	1.58	89.4
Survey	2648	8.2	354	2641.41	102.47	1.22	-101.68	0.36	0.32	1.17	0.68	102.48
Survey	2742	8.8	359.8	2734.38	116.33	0.49	-115.53	1.11	0.64	6.17	0.24	116.33
Survey	2837	8.3	358.6	2828.33	130.45	0.3	-129.58	0.56	0.53	1.26	0.13	130.45
Survey	2931	8.7	3.4	2921.3	144.33	0.56	-143.34	0.87	0.43	5.11	0.22	144.33
Survey	3025	7.4	2.4	3014.37	157.48	1.24	-156.33	1.39	1.38	1.06	0.45	157.48
Survey	3119	7.7	359	3107.56	169.82	1.38	-168.58	0.57	0.32	3.62	0.47	169.83
Survey	3214	8.3	4.1	3201.63	183.02	1.76	-181.65	0.98	0.63	5.37	0.55	183.03
Survey	3310	9	0.3	3296.54	197.44	2.29	-195.92	0.94	0.73	3.96	0.66	197.45
Survey	3404	6.5	351.4	3389.68	210.06	1.53	-208.55	2.94	2.66	9.47	0.42	210.07
Survey	3499	6.8	355.5	3484.04	220.98	0.29	-219.54	0.59	0.32	4.32	0.08	220.98
Survey	3594	8.1	6.1	3578.24	233.24	0.56	-231.69	1.99	1.37	11.16	0.14	233.24
Survey	3689	8	358.7	3672.31	246.51	1.12	-244.81	1.1	0.11	7.79	0.26	246.51
Survey	3783	9.8	351.6	3765.18	260.97	-0.2	-259.33	2.24	1.91	7.55	359.96	260.97
Survey	3877	8.4	354.5	3857.99	275.71	-2.02	-274.18	1.57	1.49	3.09	359.58	275.72
Survey	3908	6.4	356.6	3888.73	279.69	-2.34	-278.17	6.51	6.45	6.77	359.52	279.7
Survey	3940	4	358.4	3920.6	282.59	-2.48	-281.06	7.52	7.5	5.62	359.5	282.6
Survey	3971	1.8	2.5	3951.55	284.15	-2.49	-282.62	7.12	7.1	13.23	359.5	284.16
Survey	4003	0.2	79	3983.55	284.67	-2.41	-283.12	5.51	5	239.06	359.51	284.68
Survey	4035	2	184.6	4015.54	284.12	-2.4	-282.58	6.45	5.63	330	359.52	284.13
Survey	4066	5.2	185.7	4046.48	282.19	-2.58	-280.68	10.32	10.32	3.55	359.48	282.2
Survey	4097	8.1	186.4	4077.27	278.62	-2.97	-277.18	9.36	9.35	2.26	359.39	278.64
Survey	4128	10.9	183.8	4107.84	273.52	-3.41	-272.16	9.14	9.03	8.39	359.29	273.54
Survey	4160	13.8	182.2	4139.1	266.69	-3.75	-265.41	9.12	9.06	5	359.19	266.72
Survey	4192	16.8	180.8	4169.96	258.25	-3.96	-257.05	9.45	9.38	4.37	359.12	258.28
Survey	4224	19.4	180.7	4200.38	248.31	-4.09	-247.19	8.13	8.12	0.31	359.06	248.34
Survey	4256	21.4	180.7	4230.37	237.16	-4.23	-236.12	6.25	6.25	0	358.98	237.2
Survey	4287	23.1	180.6	4259.06	225.42	-4.36	-224.47	5.49	5.48	0.32	358.89	225.46
Survey	4318	25.3	180.6	4287.33	212.72	-4.5	-211.87	7.1	7.1	0	358.79	212.77
Survey	4350	26.9	180.6	4316.07	198.64	-4.64	-197.89	5	5	0	358.66	198.69
Survey	4381	28.6	179.8	4343.5	184.21	-4.69	-183.56	5.61	5.48	2.58	358.54	184.27
Survey	4413	30.5	178.8	4371.34	168.43	-4.49	-167.86	6.13	5.94	3.12	358.47	168.49
Survey	4445	33.1	177.7	4398.53	151.58	-3.97	-151.06	8.32	8.13	3.44	358.5	151.63
Survey	4476	36.6	177	4423.97	133.89	-3.15	-133.39	11.36	11.29	2.26	358.65	133.93
Survey	4507	39.6	176.9	4448.36	114.79	-2.13	-114.3	9.68	9.68	0.32	358.94	114.81
Survey	4539	42.3	176.8	4472.53	93.85	-0.98	-93.36	8.44	8.44	0.31	359.4	93.86
Survey	4570	45.7	177.6	4494.83	72.35	0.07	-71.88	11.11	10.97	2.58	0.06	72.35
Survey	4602	48.7	178.4	4516.57	48.89	0.89	-48.48	9.55	9.37	2.5	1.04	48.9
Survey	4633	50.7	179.3	4536.62	25.25	1.36	-24.94	6.82	6.45	2.9	3.08	25.29
Survey	4665	53.2	180.2	4556.34	0.06	1.47	0.11	8.12	7.81	2.81	87.66	1.47
Survey	4696	55.9	180.8	4574.32	-25.19	1.25	25.17	8.85	8.71	1.94	177.16	25.22
Survey	4728	58.5	180.8	4591.65	-52.08	0.87	51.85	8.13	8.13	0	179.04	52.09
Survey	4760	60.8	180.8	4607.82	-79.69	0.49	79.24	7.19	7.19	0	179.65	79.69
Survey	4791	63.4	180.8	4622.32	-107.08	0.11	106.41	8.39	8.39	0	179.94	107.08
Survey	4822	66.5	180.5	4635.45	-135.16	-0.21	134.27	10.04	10	0.97	180.09	135.16
Survey	4854	69.7	180.5	4647.38	-164.85	-0.47	163.74	10	10	0	180.16	164.85
Survey	4885	72.6	181.1	4657.39	-194.18	-0.88	192.84	9.53	9.35	1.94	180.26	194.18
Survey	4917	75.6	181.1	4666.16	-224.95	-1.47	223.35	9.38	9.38	0	180.37	224.95
Survey	4948	78.2	181.3	4673.19	-255.13	-2.1	253.26	8.41	8.39	0.65	180.47	255.14
Survey	4980	80.5	181.1	4679.1	-286.57	-2.76	284.43	7.21	7.19	0.63	180.55	286.58
Survey	5012	82.5	180.3	4683.83	-318.22	-3.15	315.83	6.72	6.25	2.5	180.57	318.24
Survey	5043	84.6	180.1	4687.31	-349.02	-3.26	346.42	6.8	6.77	0.65	180.54	349.04
Survey	5074	86.9	179.8	4689.61	-379.93	-3.23	377.14	7.48	7.42	0.97	180.49	379.94

Survey	5106	88	179.2	4691.03	-411.9	-2.95	408.94	3.91	3.44	1.88	180.41	411.91
Survey	5200	89.2	179.6	4693.33	-505.86	-1.97	502.41	1.35	1.28	0.43	180.22	505.86
Survey	5295	90.5	180.1	4693.58	-600.86	-1.72	596.83	1.47	1.37	0.53	180.16	600.86
Survey	5350	91.2	180.1	4692.76	-655.85	-1.82	651.45	1.27	1.27	0	180.16	655.85
Survey	5384	89.7	180.1	4692.49	-689.85	-1.88	685.23	4.41	4.41	0	180.16	689.85
Survey	5479	89.2	179.3	4693.4	-784.84	-1.38	779.67	0.99	0.53	0.84	180.1	784.84
Survey	5573	88.1	174.9	4695.62	-878.67	3.37	873.44	4.82	1.17	4.68	179.78	878.68
Survey	5667	88.3	169.7	4698.57	-971.74	15.95	967.33	5.53	0.21	5.53	179.06	971.87
Survey	5761	90.3	165.7	4699.72	-1063.55	35.97	1060.81	4.76	2.13	4.26	178.06	1064.16
Survey	5854	92.8	163.9	4697.2	-1153.25	60.34	1152.69	3.31	2.69	1.94	177	1154.83
Survey	5948	91.8	160.2	4693.43	-1242.59	89.28	1244.73	4.07	1.06	3.94	175.89	1245.79
Survey	6043	90.4	155.2	4691.61	-1330.44	125.31	1336.08	5.46	1.47	5.26	174.62	1336.33
Survey	6134	91.2	150.6	4690.34	-1411.42	166.75	1421.22	5.13	0.88	5.05	173.26	1421.24
Survey	6226	90.9	146	4688.65	-1489.66	215.07	1504.42	5.01	0.33	5	171.78	1505.11
Survey	6318	89	142.6	4688.73	-1564.36	268.75	1584.7	4.23	2.07	3.7	170.25	1587.28
Survey	6409	89.4	142.4	4690	-1636.55	324.14	1662.68	0.49	0.44	0.22	168.8	1668.34
Survey	6500	88.8	145	4691.43	-1709.87	378	1741.61	2.93	0.66	2.86	167.53	1751.15
Survey	6592	88.1	149	4693.92	-1786.98	428.08	1823.88	4.41	0.76	4.35	166.53	1837.54
Survey	6683	87.6	153.1	4697.34	-1866.54	472.09	1907.89	4.54	0.55	4.51	165.81	1925.32
Survey	6774	87.6	157.5	4701.15	-1949.12	510.07	1994.23	4.83	0	4.84	165.33	2014.76
Survey	6866	88.5	162.7	4704.28	-2035.55	541.35	2083.64	5.73	0.98	5.65	165.11	2106.31
Survey	6959	88.6	167.9	4706.63	-2125.45	584.93	2175.63	5.59	0.11	5.59	165.12	2199.25
Survey	7051	89.4	173.9	4708.24	-2216.24	579.47	2267.48	6.58	0.87	6.52	165.35	2290.74
Survey	7142	89.7	179.1	4708.96	-2307.04	585.02	2358.32	5.72	0.33	5.71	165.77	2380.06
Survey	7235	89.6	178.1	4709.53	-2400.01	587.29	2450.96	1.08	0.11	1.08	166.25	2470.82
Survey	7325	89.2	177.8	4710.47	-2489.95	590.51	2540.69	0.56	0.44	0.33	166.66	2559.01
Survey	7416	89.4	179.5	4711.58	-2580.91	592.65	2631.31	1.88	0.22	1.87	167.07	2648.08
Survey	7511	90	179.7	4712.08	-2675.91	593.32	2725.77	0.67	0.63	0.21	167.5	2740.9
Survey	7606	90.4	179.7	4711.75	-2770.91	593.82	2820.22	0.42	0.42	0	167.9	2833.83
Survey	7700	91.1	179.2	4710.52	-2864.89	594.72	2913.71	0.92	0.74	0.53	168.27	2925.97
Survey	7794	91.6	179.2	4708.31	-2958.85	596.03	3007.21	0.53	0.53	0	168.61	3018.29
Survey	7888	90.9	180.2	4706.26	-3052.82	596.52	3100.64	1.3	0.74	1.06	168.94	3110.55
Survey	7983	89.7	180	4705.76	-3147.82	596.35	3195.01	1.28	1.26	0.21	169.27	3203.81
Survey	8078	90.1	180.1	4705.93	-3242.82	596.27	3289.4	0.43	0.42	0.11	169.58	3297.18
Survey	8172	90.3	180.5	4705.6	-3336.82	595.78	3382.74	0.48	0.21	0.43	169.88	3389.59
Survey	8266	91	179.7	4704.53	-3430.81	595.62	3476.11	1.13	0.74	0.85	170.15	3482.13
Survey	8361	89.4	180.2	4704.2	-3525.81	595.7	3570.51	1.76	1.68	0.53	170.41	3575.78
Survey	8455	87.8	181.2	4706.5	-3619.77	594.55	3663.74	2.01	1.7	1.06	170.67	3668.27
Survey	8550	88	180.9	4709.98	-3714.69	592.81	3757.86	0.38	0.21	0.32	170.93	3761.69
Survey	8620	88.5	181.9	4712.12	-3784.64	591.1	3827.17	1.6	0.71	1.43	171.12	3830.52
Survey	8715	88.8	182.1	4714.36	-3879.56	587.79	3921.11	0.38	0.32	0.21	171.38	3923.84
Survey	8809	89	180.6	4716.16	-3973.51	585.58	4014.21	1.61	0.21	1.6	171.62	4016.43
Survey	8904	89.7	180.6	4717.24	-4068.5	584.58	4108.48	0.74	0.74	0	171.82	4110.28
Survey	8998	90.2	180.4	4717.32	-4162.5	583.76	4201.79	0.57	0.53	0.21	172.02	4203.23
Survey	9092	91	180.2	4716.34	-4256.49	583.27	4295.12	0.88	0.85	0.21	172.2	4296.27
Survey	9187	91.1	180	4714.59	-4351.48	583.1	4389.49	0.24	0.11	0.21	172.37	4390.37
Survey	9282	91.8	180.2	4712.19	-4446.45	582.94	4483.83	0.77	0.74	0.21	172.53	4484.5
Survey	9402	92.5	180.1	4707.69	-4566.36	582.63	4602.94	0.59	0.58	0.08	172.73	4603.38
Survey	9496	89.8	180.8	4705.8	-4660.33	581.89	4696.23	2.97	2.87	0.74	172.88	4696.52
Survey	9590	89.4	181.1	4706.46	-4754.31	580.33	4789.43	0.53	0.43	0.32	173.04	4789.6
PrjCalcPnt	9750	89.4	181.1	4708.14	-4914.27	577.26	4948.02	0	0	0	173.3	4948.06

# Jones Trust 3408 1-28H

## Perforations

1 shot per foot

Perforations			
Date	Top (ftKB)	Btm (ftKB)	Zone
10/6/2014	5,369.0	5,371.0	Miss Lime, Original Hole
10/6/2014	5,518.0	5,520.0	Miss Lime, Original Hole
10/6/2014	5,666.0	5,668.0	Miss Lime, Original Hole
10/6/2014	5,813.0	5,815.0	Miss Lime, Original Hole
10/6/2014	5,961.0	5,963.0	Miss Lime, Original Hole
10/6/2014	6,098.0	6,100.0	Miss Lime, Original Hole
10/6/2014	6,243.0	6,245.0	Miss Lime, Original Hole
10/6/2014	6,390.0	6,392.0	Miss Lime, Original Hole
10/6/2014	6,535.0	6,537.0	Miss Lime, Original Hole
10/6/2014	6,683.0	6,685.0	Miss Lime, Original Hole
10/6/2014	6,820.0	6,822.0	Miss Lime, Original Hole
10/6/2014	6,968.0	6,970.0	Miss Lime, Original Hole
10/6/2014	7,116.0	7,118.0	Miss Lime, Original Hole
10/6/2014	7,255.0	7,257.0	Miss Lime, Original Hole
10/6/2014	7,401.0	7,403.0	Miss Lime, Original Hole
10/6/2014	7,550.0	7,552.0	Miss Lime, Original Hole
10/6/2014	7,696.0	7,698.0	Miss Lime, Original Hole
10/6/2014	7,839.0	7,841.0	Miss Lime, Original Hole
10/6/2014	8,034.0	8,036.0	Miss Lime, Original Hole
10/6/2014	8,134.0	8,136.0	Miss Lime, Original Hole
10/5/2014	8,271.0	8,273.0	Miss Lime, Original Hole
10/5/2014	8,306.0	8,308.0	Miss Lime, Original Hole
10/5/2014	8,419.0	8,421.0	Miss Lime, Original Hole
10/5/2014	8,561.0	8,563.0	Miss Lime, Original Hole
10/5/2014	8,715.0	8,717.0	Miss Lime, Original Hole
10/5/2014	8,862.0	8,864.0	Miss Lime, Original Hole
10/5/2014	9,057.0	9,059.0	Miss Lime, Original Hole
10/5/2014	9,158.0	9,160.0	Miss Lime, Original Hole

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/4/2014
Job End Date:	10/5/2014
State:	Kansas
County:	Harper
API Number:	15-077-22087-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Jones Trust 3408 #1-28H
Longitude:	-98.11186000
Latitude:	37.03564000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,914
Total Base Water Volume (gal):	2,131,164
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	95.81765	None
40/70 Premium Preferred Sand	CAF	Proppant, Scouring, Fill	Crystalline Silica (quartz)	14808-60-7	100.00000	3.04587	None
40/70 Resin Coated Sand	CAF	Proppant, Scouring, Fill	Crystalline Silica (quartz)	14808-60-7	97.00000	0.60643	None
15% Unihibited HCl Acid	CAF	Etching, Dissolving, Cleaning	Water	7732-18-5	85.00000	0.32866	None
			Hydrochloric Acid	7647-01-0	15.00000	0.05800	None
			Water	7732-18-5	24.00000	0.00008	None
			Methanol	67-56-1	9.00000	0.00003	None
			Cinnamaldehyde	104-55-2	8.40000	0.00003	None
			Ethoxylated Nonylphenol	68412-54-4	8.40000	0.00003	None
			Ethylene Glycol	107-21-1	8.40000	0.00003	None
			Isopropyl Alcohol	67-63-0	8.40000	0.00003	None
			Tar Bases-quinoline derivs-benzyl chloride/quaternized	72480-70-7	8.40000	0.00003	None
			Triethyl Phosphate	78-40-0	8.40000	0.00003	None



			N-Dimethylformamide	68-12-2	8.40000	0.00003	None
			2-Butoxyethanol	111-76-2	8.40000	0.00003	None
IC-2L	CAF	Iron Control					
			Water	7732-18-5	55.50000	0.02469	None
			Methanol	67-56-1	12.70000	0.00567	None
			Nonylphenol Polyethylene Glycol Ether	127087-87-0	9.10000	0.00405	None
			Dinanylphenyl Polyoxyethylene	201602-88-2	9.10000	0.00405	None
			Poly(ethylene Oxide)	25322-68-3	9.10000	0.00405	None
			Isopropanol	67-63-0	4.60000	0.00203	None
			Acetic Acid	64-19-7	80.00000	0.00010	None
			Water	7732-18-5	54.50000	0.00009	None
			Isopropanol	67-63-0	13.60000	0.00002	None
			Polyglycol Ethers	52624-57-4	13.60000	0.00002	None
			Glycol Ether EB	111-76-2	9.00000	0.00002	None
			Methanol	67-56-1	9.00000	0.00002	None
FR-1	CAF	Friction Reducer					
			Water	7732-18-5	50.00000	0.00507	None
			Petroleum Hydrotreated Light Distillate	64742-47-8	2.50000	0.00173	None
			Hydrochloric Acid	7647-01-0	16.80000	0.00170	None
			Phosphoric Acid	7664-38-2	16.80000	0.00170	None
			Ethylene Glycol	107-21-1	12.70000	0.00129	None
			Methanol	67-56-1	3.60000	0.00037	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)



SandRidge Energy  
Jones Trust 3408 #1-28H1L  
Harper County, KS.

Allied Oil & Gas Services would like to thank you, for the award of the provision of cementing products and services on the well Jones Trust 3408 #1-28H1L 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 1000 psi. After a successful test we began the job by pumping 10 bbls of fresh water spacer. We then mixed and pumped the following cements:

45.94 Bbls (215 sacks) of 15.6 ppg Tail slurry:  
Class A - 1.2 Yield  
2% Calcium Chloride  
.25 lb/sk Flocele

The top plug was then released and displaced with 19.24 Bbls of fresh water. The plug bumped and pressured up to 1500 psi. Pressure was released and floats held. Cement circulated to the pit.

Due to technical difficulties on location no chart was provided.

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  
Jones Trust #3408 1-28H  
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 Jones Trust #3408 1-28 H 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 3500 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

21Bbls (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 205.5 of fresh water. The plug bumped and pressured up to 1300 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 #
8/26/2014	5045

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

<b>REMIT TO</b>
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
HARPER, KS	8/25/2014	3956	LARIAT 20	JONES TRUST 3408 1-28H	Due on rec...

Description
DRILLED 80' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 80' OF 20" CONDUCTOR PIPE FURNISHED MUD, WATER, AND TRUCKING FURNISHED WELDER AND MATERIALS FURNISHED 8 YARDS OF 10 SACK GROUT FOR CONDUCTOR HOLE FURNISHED 4 YARDS OF 10 SACK GROUT FOR MOUSE HOLE DRILL MOUSE HOLE FURNISHED 80' OF 16" CONDUCTOR PIPE  TOTAL BID \$18,000.00

<b>Sales Tax (6.15%)</b>	\$158.79
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<b>TOTAL</b>	\$18,158.79
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