



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1195891  
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: \_\_\_\_\_

1195891

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> _____
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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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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/23/2014
Job End Date:	2/26/2014
State:	Kansas
County:	Harper
API Number:	15-077-21994-00-00
Operator Name:	SandRidge Energy
Well Name and Number:	Bailey 3408 1-29H
Longitude:	-98.20768000
Latitude:	37.05155000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,712
Total Base Water Volume (gal):	2,489,004
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	Operator	Carrier					
			Water	7732-18-5	100.00000	94.44088	
Sand, White, 40/70	Baker Hughes	Proppant					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	4.48847	
HCl, 10.1 - 15%	Baker Hughes	Acidizing					
			Water	7732-18-5	85.00000	0.72920	SmartCare Product
			Hydrochloric Acid	7647-01-0	15.00000	0.12868	SmartCare Product
FRW-15A, tote	Baker Hughes	Friction Reducer					
			Contains non-hazardous ingredients that are shown in the non-MSDS section of this report.	NA	100.00000	0.07155	SmartCare Product
NE-900, tote	Baker Hughes	Non-emulsifier					
			Methanol	67-56-1	30.00000	0.01300	SmartCare Product
			Nonyl phenyl polyethylene glycol ether	9016-45-9	10.00000	0.00433	SmartCare Product
Scaletrol 7208, 330 gal tote	Baker Hughes	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00716	
Ferrotrol 300L (Totes)	Baker Hughes	Iron Control					
			Citric Acid	77-92-9	60.00000	0.00281	SmartCare Product
CI-27 (260 gal tote)	Baker Hughes	Corrosion Inhibitor					

			Methanol	67-56-1	60.00000	0.00041	
			Thiourea Polymer	68527-49-1	30.00000	0.00020	
			Fatty Acids	Trade Secret	30.00000	0.00020	
			Polyoxyalkylenes	Trade Secret	30.00000	0.00020	
			Propargyl Alcohol	107-19-7	10.00000	0.00007	
			Olefin	Trade Secret	5.00000	0.00003	
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
			Other Chemicals				
			Water	7732-18-5		0.03702	
			Copolymer of Acrylamide and Sodium Acrylate	25987-30-8		0.02862	
			Hydrotreated Light Distillate	64742-47-8		0.02147	
			Copolymer	Trade Secret		0.01733	
			Sorbitan Monooleate	1338-43-8		0.00358	
			Nonyl Phenol Ethoxylate	127087-87-0		0.00358	
			Diethylene Glycol	111-46-6		0.00119	
			Sodium Chloride	7647-14-5		0.00000	
			Formaldehyde	50-00-0		0.00000	
			Potassium Chloride	7447-40-7			
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9			
			Calcium Chloride	10043-52-4			
			Polyacrylate	Trade Secret			

\* 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)

**Company:** Sandridge  
**Well Name:** Bailey 3408 1-29H  
**Legals:** Sec: 20 Township: 34S  
 Range: 8W  
**County/State:** Harper County KS  
**Rig Name:** Lariat 20

Customer Rep	Position	Directional Driller	MWD Operator
		Allen Landers	George Hunt
		Robert Philillips	Dallas Detweiler
		Mike Foster	
		Scott Graham	

## Bailey 3408 1-29H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
TieInPoint	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
Survey	849.00	0.70	35.00	848.98	4.25	2.97	-4.55	0.08	0.08	4.12	34.95	5.18
Survey	939.00	0.60	37.70	938.97	5.07	3.58	-5.44	0.12	0.11	3.00	35.23	6.21
Survey	1029.00	0.80	45.10	1028.97	5.89	4.31	-6.33	0.24	0.22	8.22	36.19	7.30
Survey	1119.00	0.60	69.50	1118.96	6.50	5.20	-7.04	0.39	0.22	27.11	38.66	8.32
Survey	1208.00	0.80	34.50	1207.96	7.17	5.98	-7.79	0.52	0.22	39.33	39.83	9.34
Survey	1299.00	0.60	86.60	1298.95	7.73	6.82	-8.44	0.70	0.22	57.25	41.42	10.31
Survey	1390.00	0.50	78.60	1389.95	7.83	7.69	-8.64	0.14	0.11	8.79	44.48	10.97
Survey	1485.00	0.80	89.10	1484.94	7.92	8.76	-8.85	0.34	0.32	11.05	47.88	11.81
Survey	1580.00	0.70	74.00	1579.94	8.09	9.98	-9.15	0.23	0.11	15.89	50.97	12.85
Survey	1676.00	0.70	64.40	1675.93	8.51	11.07	-9.69	0.12	0.00	10.00	52.45	13.96
Survey	1771.00	0.60	55.70	1770.92	9.04	12.01	-10.32	0.15	0.11	9.16	53.03	15.03
Survey	1866.00	0.60	83.40	1865.92	9.38	12.91	-10.76	0.30	0.00	29.16	54.00	15.96
Survey	1961.00	0.60	58.70	1960.91	9.69	13.83	-11.17	0.27	0.00	26.00	54.98	16.89
Survey	2057.00	0.50	47.20	2056.91	10.24	14.57	-11.80	0.15	0.10	11.98	54.90	17.81
Survey	2152.00	0.30	53.30	2151.90	10.67	15.07	-12.28	0.21	0.21	6.42	54.70	18.46
Survey	2247.00	0.70	102.00	2246.90	10.69	15.84	-12.39	0.58	0.42	51.26	55.99	19.11
Survey	2342.00	0.30	48.20	2341.90	10.74	16.59	-12.52	0.61	0.42	56.63	57.08	19.76
Survey	2437.00	0.40	17.00	2436.90	11.22	16.87	-13.03	0.22	0.11	32.84	56.37	20.26
Survey	2533.00	0.40	44.90	2532.90	11.78	17.21	-13.62	0.20	0.00	29.06	55.61	20.86
Survey	2628.00	0.50	47.30	2627.89	12.30	17.75	-14.20	0.11	0.11	2.53	55.28	21.60
Survey	2724.00	0.30	18.00	2723.89	12.82	18.13	-14.76	0.29	0.21	30.52	54.74	22.20
Survey	2819.00	0.50	26.10	2818.89	13.43	18.39	-15.39	0.22	0.21	8.53	53.86	22.77
Survey	2875.00	0.50	22.90	2874.89	13.87	18.59	-15.85	0.05	0.00	5.71	53.27	23.19
Survey	2905.00	0.40	1.10	2904.89	14.10	18.65	-16.09	0.65	0.33	72.67	52.91	23.38
Survey	2935.00	1.50	301.10	2934.88	14.41	18.31	-16.36	4.48	3.67	200.00	51.80	23.30
Survey	2965.00	4.90	285.20	2964.83	14.95	16.74	-16.72	11.61	11.33	53.00	48.23	22.44
Survey	2995.00	9.00	284.20	2994.61	15.86	13.23	-17.23	13.67	13.67	3.33	39.83	20.65
Survey	3026.00	11.80	285.00	3025.09	17.27	7.81	-18.03	9.04	9.03	2.58	24.33	18.95
Survey	3056.00	13.80	286.10	3054.35	19.06	1.41	-19.10	6.72	6.67	3.67	4.23	19.11
Survey	3086.00	15.90	283.60	3083.34	21.02	-6.02	-20.22	7.32	7.00	8.33	344.02	21.87
Survey	3116.00	17.80	280.30	3112.05	22.81	-14.53	-21.05	7.09	6.33	11.00	327.50	27.04
Survey	3145.00	19.50	278.40	3139.53	24.30	-23.68	-21.51	6.22	5.86	6.55	315.74	33.93
Survey	3175.00	20.40	277.40	3167.73	25.70	-33.82	-21.78	3.21	3.00	3.33	307.23	42.48
Survey	3205.00	20.00	275.40	3195.88	26.86	-44.11	-21.78	2.66	1.33	6.67	301.34	51.64
Survey	3235.00	20.20	270.50	3224.06	27.39	-54.40	-21.17	5.65	0.67	16.33	296.72	60.91
Survey	3265.00	21.00	263.60	3252.15	26.84	-64.92	-19.45	8.51	2.67	23.00	292.46	70.25
Survey	3295.00	21.10	260.90	3280.14	25.38	-75.60	-16.81	3.25	0.33	9.00	288.56	79.75
Survey	3326.00	20.70	260.40	3309.10	23.59	-86.51	-13.82	1.41	1.29	1.61	285.25	89.67
Survey	3356.00	20.00	258.60	3337.23	21.69	-96.77	-10.79	3.13	2.33	6.00	282.63	99.17
Survey	3386.00	19.10	257.60	3365.50	19.62	-106.59	-7.64	3.20	3.00	3.33	280.43	108.38

## Bailey 3408 1-29H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	3417.00	18.90	258.40	3394.81	17.52	-116.46	-4.45	1.06	0.65	2.58	278.56	117.77
Survey	3447.00	19.00	262.50	3423.19	15.91	-126.06	-1.78	4.45	0.33	13.67	277.19	127.06
Survey	3477.00	19.10	263.80	3451.55	14.74	-135.78	0.46	1.45	0.33	4.33	276.20	136.58
Survey	3507.00	19.20	266.90	3479.89	13.95	-145.59	2.34	3.41	0.33	10.33	275.47	146.26
Survey	3537.00	19.50	267.70	3508.19	13.48	-155.52	3.91	1.33	1.00	2.67	274.95	156.10
Survey	3566.00	20.30	267.00	3535.46	13.02	-165.38	5.47	2.88	2.76	2.41	274.50	165.89
Survey	3596.00	20.30	265.80	3563.60	12.37	-175.76	7.27	1.39	0.00	4.00	274.03	176.19
Survey	3626.00	19.30	263.90	3591.82	11.46	-185.88	9.30	3.96	3.33	6.33	273.53	186.23
Survey	3656.00	18.40	262.00	3620.22	10.27	-195.50	11.55	3.63	3.00	6.33	273.01	195.77
Survey	3686.00	17.60	261.10	3648.75	8.91	-204.67	13.92	2.82	2.67	3.00	272.49	204.86
Survey	3716.00	17.00	257.60	3677.40	7.27	-213.43	16.53	4.00	2.00	11.67	271.95	213.55
Survey	3746.00	16.20	254.70	3706.14	5.22	-221.75	19.49	3.84	2.67	9.67	271.35	221.81
Survey	3776.00	15.30	254.10	3735.02	3.03	-229.60	22.54	3.05	3.00	2.00	270.76	229.62
Survey	3807.00	14.60	253.40	3764.97	0.79	-237.28	25.62	2.33	2.26	2.26	270.19	237.28
Survey	3838.00	15.40	256.00	3794.91	-1.32	-245.01	28.58	3.37	2.58	8.39	269.69	245.01
Survey	3868.00	17.10	260.30	3823.71	-3.03	-253.22	31.19	6.94	5.67	14.33	269.31	253.24
Survey	3899.00	19.60	263.90	3853.13	-4.35	-262.89	33.58	8.85	8.06	11.61	269.05	262.93
Survey	3931.00	21.40	266.50	3883.10	-5.28	-274.06	35.75	6.30	5.62	8.12	268.90	274.11
Survey	3963.00	20.90	266.40	3912.95	-5.99	-285.58	37.74	1.57	1.56	0.31	268.80	285.64
Survey	3995.00	22.00	265.00	3942.73	-6.87	-297.25	39.91	3.79	3.44	4.37	268.68	297.33
Survey	4027.00	21.50	263.70	3972.45	-8.04	-309.05	42.39	2.17	1.56	4.06	268.51	309.15
Survey	4058.00	20.50	262.60	4001.39	-9.36	-320.08	44.93	3.47	3.23	3.55	268.32	320.22
Survey	4090.00	19.30	258.70	4031.48	-11.12	-330.82	47.87	5.59	3.75	12.19	268.07	331.01
Survey	4122.00	17.80	250.00	4061.82	-13.83	-340.61	51.65	9.83	4.69	27.19	267.67	340.89
Survey	4154.00	18.20	246.70	4092.25	-17.48	-349.80	56.30	3.42	1.25	10.31	267.14	350.24
Survey	4185.00	21.80	249.40	4121.38	-21.42	-359.63	61.31	11.99	11.61	8.71	266.59	360.27
Survey	4217.00	24.30	244.80	4150.83	-26.32	-371.16	67.46	9.62	7.81	14.38	265.94	372.09
Survey	4249.00	25.60	238.00	4179.85	-32.79	-382.98	75.21	9.83	4.06	21.25	265.11	384.38
Survey	4280.00	27.30	232.70	4207.61	-40.65	-394.32	84.28	9.38	5.48	17.10	264.11	396.41
Survey	4312.00	29.40	228.40	4235.77	-50.31	-406.03	95.19	9.15	6.56	13.44	262.94	409.14
Survey	4344.00	31.30	224.90	4263.39	-61.42	-417.78	107.54	8.11	5.94	10.94	261.64	422.27
Survey	4376.00	32.70	221.80	4290.53	-73.75	-429.41	121.08	6.74	4.38	9.69	260.25	435.70
Survey	4407.00	34.80	218.60	4316.30	-86.91	-440.51	135.40	8.87	6.77	10.32	258.84	449.00
Survey	4439.00	36.00	215.40	4342.39	-101.72	-451.66	151.36	6.90	3.75	10.00	257.31	462.97
Survey	4470.00	37.40	212.10	4367.25	-117.12	-461.94	167.80	7.80	4.52	10.65	255.77	476.56
Survey	4502.00	39.60	208.40	4392.30	-134.33	-471.96	186.02	9.95	6.88	11.56	254.11	490.70
Survey	4534.00	41.20	206.20	4416.66	-152.76	-481.46	205.40	6.70	5.00	6.88	252.40	505.11
Survey	4565.00	42.40	204.00	4439.78	-171.47	-490.22	224.96	6.11	3.87	7.10	250.72	519.34
Survey	4597.00	44.60	202.90	4462.99	-191.68	-498.98	246.02	7.27	6.88	3.44	248.99	534.53
Survey	4629.00	47.20	201.20	4485.26	-212.98	-507.60	268.15	8.98	8.13	5.31	247.24	550.47
Survey	4661.00	49.80	200.80	4506.46	-235.35	-516.19	291.34	8.18	8.12	1.25	245.49	567.31
Survey	4693.00	52.30	199.70	4526.58	-258.70	-524.80	315.50	8.26	7.81	3.44	243.76	585.10
Survey	4724.00	54.70	198.50	4545.01	-282.24	-532.94	339.80	8.34	7.74	3.87	242.09	603.06
Survey	4756.00	56.80	197.40	4563.02	-307.41	-541.09	365.72	7.15	6.56	3.44	240.40	622.32
Survey	4788.00	58.60	195.90	4580.12	-333.32	-548.84	392.33	6.88	5.63	4.69	238.73	642.13
Survey	4820.00	60.60	194.90	4596.31	-359.93	-556.16	419.59	6.81	6.25	3.12	237.09	662.47
Survey	4851.00	63.30	194.00	4610.89	-386.42	-562.99	446.68	9.08	8.71	2.90	235.54	682.85
Survey	4883.00	67.00	193.10	4624.34	-414.64	-569.78	475.48	11.84	11.56	2.81	233.96	704.68

## Bailey 3408 1-29H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	4915.00	69.80	191.70	4636.12	-443.70	-576.16	505.07	9.65	8.75	4.38	232.40	727.21
Survey	4947.00	70.20	189.50	4647.06	-473.25	-581.70	535.05	6.58	1.25	6.87	230.87	749.89
Survey	4978.00	72.70	186.40	4656.93	-502.35	-585.75	564.42	12.45	8.06	10.00	229.38	771.66
Survey	5010.00	76.00	184.80	4665.56	-533.01	-588.75	595.22	11.38	10.31	5.00	227.84	794.18
Survey	5042.00	78.80	181.90	4672.54	-564.18	-590.57	626.40	12.44	8.75	9.06	226.31	816.74
Survey	5073.00	81.10	180.50	4677.95	-594.70	-591.21	656.80	8.65	7.42	4.52	224.83	838.57
Survey	5105.00	83.30	182.10	4682.29	-626.39	-591.93	688.38	8.47	6.88	5.00	223.38	861.83
Survey	5137.00	85.30	182.00	4685.47	-658.21	-593.07	720.13	6.26	6.25	0.31	222.02	885.99
Survey	5169.00	87.40	181.50	4687.51	-690.13	-594.04	751.96	6.75	6.56	1.56	220.72	910.58
Survey	5200.00	87.50	181.20	4688.89	-721.09	-594.77	782.81	1.02	0.32	0.97	219.52	934.73
Survey	5232.00	87.60	181.20	4690.26	-753.05	-595.44	814.64	0.31	0.31	0.00	218.33	960.02
Survey	5264.00	87.50	181.30	4691.63	-785.02	-596.14	846.49	0.44	0.31	0.31	217.21	985.72
Survey	5296.00	87.30	181.10	4693.08	-816.98	-596.81	878.33	0.88	0.62	0.63	216.15	1011.75
Survey	5328.00	87.30	181.00	4694.58	-848.94	-597.39	910.15	0.31	0.00	0.31	215.13	1038.06
Survey	5359.00	87.30	181.10	4696.05	-879.90	-597.96	940.98	0.32	0.00	0.32	214.20	1063.85
Survey	5382.00	87.10	180.70	4697.17	-902.87	-598.32	963.85	1.94	0.87	1.74	213.53	1083.13
Survey	5490.00	87.70	180.10	4702.07	-1010.76	-599.07	1071.15	0.79	0.56	0.56	210.65	1174.96
Survey	5585.00	88.10	179.60	4705.55	-1105.70	-598.82	1165.48	0.67	0.42	0.53	208.44	1257.44
Survey	5681.00	88.90	178.40	4708.06	-1201.65	-597.15	1260.64	1.50	0.83	1.25	206.42	1341.85
Survey	5777.00	89.10	178.70	4709.74	-1297.60	-594.72	1355.73	0.38	0.21	0.31	204.62	1427.40
Survey	5872.00	89.10	179.10	4711.23	-1392.58	-592.90	1449.92	0.42	0.00	0.42	203.06	1513.54
Survey	5968.00	89.10	179.00	4712.74	-1488.55	-591.31	1545.11	0.10	0.00	0.10	201.66	1601.70
Survey	6064.00	89.00	177.50	4714.33	-1584.49	-588.38	1640.13	1.57	0.10	1.56	200.37	1690.21
Survey	6159.00	90.60	177.90	4714.66	-1679.41	-584.57	1734.04	1.74	1.68	0.42	199.19	1778.24
Survey	6255.00	90.80	177.60	4713.49	-1775.33	-580.80	1828.94	0.38	0.21	0.31	198.12	1867.92
Survey	6350.00	90.80	177.60	4712.16	-1870.24	-576.82	1922.82	0.00	0.00	0.00	197.14	1957.17
Survey	6445.00	91.30	178.60	4710.42	-1965.17	-573.67	2016.81	1.18	0.53	1.05	196.27	2047.19
Survey	6541.00	91.50	179.40	4708.07	-2061.13	-572.00	2111.99	0.86	0.21	0.83	195.51	2139.03
Survey	6637.00	90.30	180.30	4706.56	-2157.12	-571.75	2207.35	1.56	1.25	0.94	194.85	2231.61
Survey	6732.00	89.60	181.40	4706.64	-2252.10	-573.16	2301.90	1.37	0.74	1.16	194.28	2323.89
Survey	6828.00	90.10	181.20	4706.89	-2348.07	-575.34	2397.52	0.56	0.52	0.21	193.77	2417.53
Survey	6923.00	89.00	182.10	4707.64	-2443.03	-578.07	2492.19	1.50	1.16	0.95	193.31	2510.49
Survey	7014.00	89.00	181.60	4709.23	-2533.97	-581.01	2582.89	0.55	0.00	0.55	192.91	2599.73
Survey	7104.00	89.20	181.40	4710.64	-2623.93	-583.36	2672.55	0.31	0.22	0.22	192.53	2688.00
Survey	7195.00	89.30	181.00	4711.83	-2714.90	-585.27	2763.17	0.45	0.11	0.44	192.17	2777.27
Survey	7286.00	89.50	180.90	4712.78	-2805.88	-586.77	2853.75	0.24	0.21	0.11	191.81	2866.58
Survey	7377.00	89.80	181.00	4713.33	-2896.87	-588.28	2944.35	0.35	0.33	0.11	191.48	2956.00
Survey	7469.00	90.20	180.00	4713.33	-2988.87	-589.09	3035.86	1.17	0.43	1.09	191.15	3046.37
Survey	7559.00	89.60	180.90	4713.49	-3078.87	-589.79	3125.38	1.20	0.67	1.00	190.84	3134.85
Survey	7651.00	89.40	181.10	4714.29	-3170.85	-591.40	3216.97	0.31	0.22	0.22	190.56	3225.53
Survey	7741.00	88.50	181.00	4715.94	-3260.82	-593.05	3306.57	1.01	1.00	0.11	190.31	3314.31
Survey	7832.00	88.60	179.80	4718.24	-3351.79	-593.69	3397.04	1.32	0.11	1.32	190.04	3403.96
Survey	7923.00	89.00	179.80	4720.15	-3442.77	-593.37	3487.42	0.44	0.44	0.00	189.78	3493.53
Survey	8014.00	89.20	179.60	4721.58	-3533.76	-592.89	3577.79	0.31	0.22	0.22	189.52	3583.15
Survey	8106.00	89.50	180.10	4722.62	-3625.75	-592.65	3669.18	0.63	0.33	0.54	189.28	3673.87
Survey	8196.00	89.90	179.10	4723.09	-3715.75	-592.02	3758.55	1.20	0.44	1.11	189.05	3762.62
Survey	8286.00	89.70	179.90	4723.40	-3805.75	-591.23	3847.91	0.92	0.22	0.89	188.83	3851.40
Survey	8382.00	89.60	179.90	4723.99	-3901.75	-591.06	3943.29	0.10	0.10	0.00	188.61	3946.26



## Bailey 3408 1-29H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	8477.00	88.90	180.30	4725.23	-3996.74	-591.23	4037.71	0.85	0.74	0.42	188.41	4040.23
Survey	8573.00	89.50	180.90	4726.57	-4092.72	-592.24	4133.21	0.88	0.63	0.62	188.23	4135.35
Survey	8669.00	89.00	181.10	4727.83	-4188.70	-593.92	4228.78	0.56	0.52	0.21	188.07	4230.60
Survey	8764.00	88.90	180.70	4729.57	-4283.67	-595.41	4323.32	0.43	0.11	0.42	187.91	4324.85
Survey	8860.00	88.10	181.30	4732.08	-4379.62	-597.08	4418.86	1.04	0.83	0.63	187.76	4420.13
Survey	8956.00	88.20	181.00	4735.18	-4475.55	-599.01	4514.41	0.33	0.10	0.31	187.62	4515.46
Survey	9051.00	88.90	180.50	4737.58	-4570.51	-600.25	4608.92	0.91	0.74	0.53	187.48	4609.76
Survey	9147.00	89.80	180.40	4738.67	-4666.50	-601.00	4704.40	0.94	0.94	0.10	187.34	4705.04
Survey	9242.00	90.50	180.50	4738.42	-4761.50	-601.75	4798.89	0.74	0.74	0.11	187.20	4799.37
Survey	9338.00	90.70	180.10	4737.41	-4857.49	-602.25	4894.34	0.47	0.21	0.42	187.07	4894.68
Survey	9433.00	90.90	180.30	4736.08	-4952.48	-602.58	4988.78	0.30	0.21	0.21	186.94	4989.00
Survey	9529.00	90.70	179.50	4734.74	-5048.47	-602.41	5084.15	0.86	0.21	0.83	186.80	5084.28
Survey	9625.00	90.90	180.00	4733.40	-5144.46	-601.99	5179.50	0.56	0.21	0.52	186.67	5179.56
Survey	9696.00	91.00	179.90	4732.22	-5215.45	-601.93	5250.04	0.20	0.14	0.14	186.58	5250.07
PrjCalcPnt	9746	91	179.9	4731.35	-5265.44	-601.84	5299.71	0	0	0	186.52	5299.73

# Sandridge

Location: Kansas  
Field: Sec 20 - 34S - 8W  
Installation: Harper County  
Well: Bailey 3408 1-29H

## Installation Data

Name	Latitude	Longitude	Northing	Easting
Harper County	N37 3 54.33	W98 12 3.48	145215.00	2087259.00
Coordinate System	Kansas State Planes, Southern Zone			

## Slot Data

Name	North [ft]	East [ft]	Latitude	Longitude	Northing	Easting
Bailey 3408 1-29H	312.99 N	-1339.94 E	N37 3 57.47	W98 12 20.00	145528.00	2085919.00

## Elevation Data

Slot - Mean Sea Level [ft]	Mean Sea Level - Mudline/Ground level [ft]	Slot - Mudline/Ground level [ft]
0.00	0.00	0.00

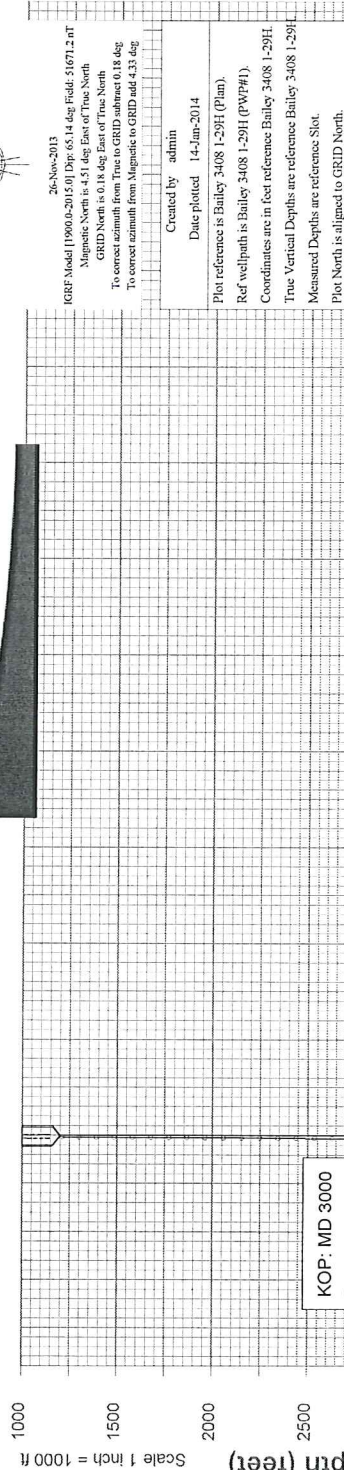
**Target Line: 12-20-13**  
**Target: 4690 KBTVD @ 0 VS**  
**89.45° @ 186.39 Azimuth Plane**

## WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on KOP	3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	-0.00
End of Build	3262.82	21.03	269.97	3256.97	-0.03	-47.69	8.00	5.33
End of Hold	4081.15	21.03	269.97	4020.80	-0.19	-341.29	0.00	36.18
Target Bailey 3408 1+2	5182.67	88.00	180.00	4691.94	-693.00	-589.97	8.00	754.37
Target Bailey 3408 1+2	5382.67	88.00	180.00	4698.92	-892.88	-589.97	0.00	953.01
Target Bailey 3408 1+2	5400.79	89.45	180.00	4699.32	-910.85	-589.97	8.00	970.87
T.D. & Target Bailey 34	9756.91	89.45	180.00	4741.00	-5266.77	-589.97	0.00	5299.71

## TARGET DATA

MD	Inc	Azi	TVD	North	East	Name	Position
5182.67	88.00	180.00	4691.94	-693.00	-589.97	Bailey 3408 1-29H - 88°	2085329.00 East : 144834.97 North
5382.67	88.00	180.00	4698.92	-892.88	-589.97	Bailey 3408 1-29H - End 88°	2085329.00 East : 144635.08 North
5400.79	89.45	180.00	4699.32	-910.85	-589.97	Bailey 3408 1-29H - LP	2085329.00 East : 144617.11 North
9756.91	89.45	180.00	4741.00	-5266.77	-589.97	Bailey 3408 1-29H - BHL	2085329.00 East : 140261.00 North



East (feet) ->

Scale 1 inch = 1000 ft

1000

500

0

-500

-1000

-1500

North(feet)

-2000

-2500

-3000

-3500

-4000

Scale 1 inch = 1000 ft

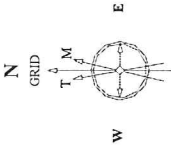
-4500

-5000

-5500

Surface Location:

315 FSL 1330 FEL  
 Sec 20 - 34S - 8W  
 X = 2085919 Y = 145528



26-Nov-2013  
 IGRF Model 11900.0-2015.01 Dpr: 65.64 deg Field: 51071.2 nT  
 Magnetic North is 4.51 deg East of True North  
 GRID North is 0.18 deg East of True North  
 To correct azimuth from True to GRID subtract 0.18 deg  
 To correct azimuth from Magnetic to GRID add 4.33 deg

Created by: admin  
 Date plotted: 14-Jan-2014

Plot reference is Bailey 3408 1-29H (Plan).  
 Ref well path is Bailey 3408 1-29H (PWF#1).  
 Coordinates are in feet reference Bailey 3408 1-29H.  
 True Vertical Depths are reference Bailey 3408 1-29H.  
 Measured Depths are reference Slot.  
 Plot North is aligned to GRID North.

Projected BHL:  
 332 FSL 1992 FEL  
 Sec 29 - 34S - 8W  
 X = 2085317 Y = 140262  
 S 5266 W 602  
 MD 9746 TVD 4731  
 VS = 5300'

Landing Point:  
 MD 5401 TVD 4699  
 S 911 W 590  
 89.45° @ 180 Azi  
 VS = 971'

KOP: MD 3000  
 Start 89/100 BR

Vertical Section (feet) ->

Azimuth 186.39 with reference 0.00 N, 0.00 E from Bailey 3408 1-29H

5500

5000

4500

4000

3500

3000

2500

2000

1500

1000

500

0

-500

-1000

Scale 1 inch = 1000 ft



SandRidge Energy  
Bailey #3408 1-29H  
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 Bailey #3408 1-29 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 3000 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 204 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.



SandRidge Energy  
Bailey #3408 1-29H  
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 Bailey #3408 1-29H 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 3000 psi. After a successful test we began the job by pumping 10 bbls of preflush spacer. We then mixed and pumped the following cements:

85 Bbls (255 sacks) of 12.7 ppg Lead slurry:  
65:35 Class A:Poz Blend - 1.87 Yield  
6.0% Gel  
2.0%cc  
1/4# Floseal

32Bbls (150 sacks) of 15.6 ppg Tail slurry:  
Class A - 1.20 Yield  
2.0%cc  
1/4# Floseal

The top plug was then released and displaced with 57 Bbls of fresh water. The plug bumped and pressured up to 1200 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.



**BASIN SERVICES, LLC**  
 P O BOX 4268  
 ABILENE, TX 79608-4268  
 Phone # (325)690-0053  
 Fax # (325)698-0055

# TICKET

TICKET NUMBER: WY-168-1  
 TICKET DATE: 12/01/2013

**ELECTRONIC**

SANDRIDGE ENERGY  
 \*\*\*\*\* BILL IN ADP!! \*\*\*\*\*  
 123 ROBERT S KERR AVE  
 OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK  
 LEASE: Bailey 3408  
 WELL#: 1-29H  
 RIG #: Lariat 20  
 Co/St: HARPER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
12/1/2013 DRILLED 30" CONDUCTOR HOLE			
12/1/2013 20" CONDUCTOR PIPE (.250 WALL)			
12/1/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
12/1/2013 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
12/1/2013 DRILLED 20" MOUSE HOLE (PER FOOT)			
12/1/2013 16" CONDUCTOR PIPE (.250 WALL)			
12/1/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
12/1/2013 WELDING SERVICES FOR PIPE & LIDS			
12/1/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
12/1/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
12/1/2013 10 YDS OF 10 SACK GROUT			
12/1/2013 TAXABLE ITEMS			6,025.00
12/1/2013 8X8 HOLE COVER			
12/1/2013 BID - TAXABLE ITEMS			11,825.00
		Sub Total:	17,850.00
		Tax HARPER COUNTY (6.15 %):	370.54
		TICKET TOTAL:	<u>\$ 18,220.54</u>

I, the undersigned, acknowledge the acceptance of the above listed goods and/or services.

Approved Signature \_\_\_\_\_