



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1203742
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: _____

1203742

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Lee 3306 1-34H
Doc ID	1203742

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	4898-4922		
5	4966-4968		
5	5032-5034		
5	5382-5385	Kiel Slickwater Frac	5382-5485
5	5432-5435		
5	5482-5485		
5	5598-5600	Kiel Slickwater Frac	5598-5860
5	5660-5662		
5	5743-5745		
5	5808-5810		
5	5858-5860		
5	5933-5935	Kiel Slickwater Frac	5933-6232
5	6016-6018		
5	6108-6110		
5	6168-6170		
5	6230-6232		
5	6310-6312	Kiel Slickwater Frac	6310-6520
5	6374-6376		
5	6418-6420		
5	6468-64470		
5	6518-6520		
5	6553-6688	Kiel Slickwater Frac	6653-6950
5	6723-6725		
5	6798-6800		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Lee 3306 1-34H
Doc ID	1203742

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6873-6875		
5	6948-6950		
5	7038-7040	Kiel Slickwater Frac	7038-7255
5	7098-7100		
5	7166-7168		
5	7253-7255		
5	7318-7320	Kiel slickwater Frac	7318-7640
5	7376-7378		
5	7456-7458		
5	7538-7540		
5	7638-7640		
5	7752-7754	Kiel Slickwater Frac	7752-8006
5	7818-7820		
5	7900-7902		
5	7958-7960		
5	8004-8006		
5	8073-8075	Kiel Slickwater Frac	8073-8354
5	8188-8190		
5	8243-8245		
5	8298-8300		
5	8345-8356		
5	8426-8428	Kiel Slickwater Frac	8426-8740
5	8503-8505		
5	8560-8562		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Lee 3306 1-34H
Doc ID	1203742

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8668-8670		
5	8738-8740		
5	8798-8800	Kiel Slickwater Frac	8798-8992
5	8848-8850		
5	8936-8938		
5	8990-8992		

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/6/2014
Job End Date:	4/7/2014
State:	Kansas
County:	Harper
API Number:	15-077-21957-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Lee 3306 1-34H
Longitude:	-97.96245000
Latitude:	37.12546000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,515
Total Base Water Volume (gal):	2,709,000
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	95.60362	
Sand, Brown (40/70)	Baker Hughes	Proppant					
			Crystalline Silica: Quartz (SiO2)	14808-60-7	100.00000	3.53877	
HCl, 10.1 - 15%	Baker Hughes	Acidizing					
			Water	7732-18-5	85.00000	0.64345	SmartCare Product
			Hydrochloric Acid	7647-01-0	15.00000	0.11355	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	0.04354	SmartCare Product
Scaletrol 7208, 330 gal tote	Baker Hughes	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00776	
FRW-15DX	Baker Hughes	Friction Reducer					
			Anionic Water-Soluble Polymer	Trade Secret	100.00000	0.00581	
Ferrotrol 300L (Totes)	Baker Hughes	Iron Control					
			Citric Acid	77-92-9	60.00000	0.00262	SmartCare Product
CI-27 (260 gal tote)	Baker Hughes	Corrosion Inhibitor					
			Methanol	67-56-1	60.00000	0.00045	
			Fatty Acids	Trade Secret	30.00000	0.00023	

			Polyoxyalkylenes	Trade Secret	30.00000	0.00023	
			Thiourea Polymer	68527-49-1	30.00000	0.00023	
			Propargyl Alcohol	107-19-7	10.00000	0.00008	
			Olefin	Trade Secret	5.00000	0.00004	
NE-900, tote	Baker Hughes	Non-emulsifier					
			Methanol	67-56-1	30.00000	0.00025	SmartCare Product
			Nonyl phenyl polyethylene glycol ether	9016-45-9	10.00000	0.00008	SmartCare Product
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					
			Copolymer of Acrylamide and Sodium Acrylate	25987-30-8		0.01742	
			Hydrotreated Light Distillate	64742-47-8		0.01306	
			Water	7732-18-5		0.00285	
			Nonyl Phenol Ethoxylate	127087-87-0		0.00218	
			Sorbitan Monooleate	1338-43-8		0.00218	
			Diethylene Glycol	111-46-6		0.00129	
			Copolymer	Trade Secret		0.00033	
			Sodium Chloride	7647-14-5		0.00000	
			Formaldehyde	50-00-0		0.00000	
			Calcium Chloride	10043-52-4			
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9			
			Polyacrylate	Trade Secret			
			Potassium Chloride	7447-40-7			

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

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

Company: Sandridge
Well Name: Lee 3306 1-34H
Legals: Sec: 34 Township: 33S
 Range: 6W
County/State: Harper County KS
Rig Name: Lariat 20

Customer Rep	Position	Directional Driller	MWD Operator
		Travis Hall	George Hunt
		Scott Graham	

Lee 3306 1-34H 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	867.00	0.40	184.40	866.99	-3.02	-0.23	3.02	0.05	0.05	20.25	184.36	3.03
Survey	1138.00	0.40	168.30	1137.99	-4.89	-0.11	4.86	0.04	0.00	5.94	181.29	4.89
Survey	1411.00	0.40	106.40	1410.98	-6.09	1.00	5.91	0.15	0.00	22.67	170.68	6.17
Survey	1694.00	0.40	97.40	1693.98	-6.50	2.92	6.08	0.02	0.00	3.18	155.81	7.13
Survey	1977.00	0.40	19.10	1976.97	-5.69	4.22	5.11	0.18	0.00	27.67	143.44	7.08
Survey	2261.00	0.40	9.20	2260.97	-3.78	4.71	3.15	0.02	0.00	3.49	128.75	6.04
Survey	2545.00	0.60	351.60	2544.96	-1.33	4.65	0.73	0.09	0.07	6.20	105.96	4.84
Survey	2830.00	0.30	288.20	2829.95	0.38	3.72	-0.85	0.19	0.11	22.25	84.17	3.74
Survey	3113.00	0.50	196.70	3112.95	-0.57	2.66	0.23	0.21	0.07	32.33	102.09	2.72
Survey	3394.00	0.80	152.10	3393.93	-3.48	3.23	3.04	0.20	0.11	15.87	137.13	4.75
Survey	3397.00	1.00	153.30	3396.93	-3.52	3.25	3.08	6.70	6.67	40.00	137.28	4.79
Survey	3426.00	1.00	151.10	3425.93	-3.97	3.49	3.49	0.13	0.00	7.59	138.68	5.29
Survey	3458.00	1.50	246.00	3457.92	-4.38	3.24	3.93	5.85	1.56	296.56	143.51	5.45
Survey	3490.00	4.30	273.80	3489.88	-4.47	1.66	4.22	9.54	8.75	86.88	159.63	4.77
Survey	3521.00	7.50	279.20	3520.71	-4.07	-1.50	4.23	10.47	10.32	17.42	200.23	4.34
Survey	3552.00	9.60	281.60	3551.36	-3.23	-6.03	3.97	6.87	6.77	7.74	241.82	6.84
Survey	3583.00	11.70	282.40	3581.83	-2.03	-11.63	3.49	6.79	6.77	2.58	260.10	11.81
Survey	3615.00	14.00	280.80	3613.02	-0.61	-18.60	2.97	7.27	7.19	5.00	268.12	18.61
Survey	3646.00	16.40	278.40	3642.94	0.73	-26.62	2.66	8.00	7.74	7.74	271.57	26.63
Survey	3677.00	18.20	276.00	3672.54	1.88	-35.76	2.68	6.25	5.81	7.74	273.01	35.81
Survey	3709.00	20.10	273.90	3702.77	2.78	-46.22	3.12	6.31	5.94	6.56	273.44	46.30
Survey	3740.00	22.30	271.10	3731.67	3.25	-57.41	4.07	7.81	7.10	9.03	273.24	57.50
Survey	3772.00	24.30	270.00	3761.06	3.37	-70.07	5.56	6.40	6.25	3.44	272.75	70.15
Survey	3804.00	25.90	268.60	3790.04	3.20	-83.64	7.45	5.33	5.00	4.38	272.19	83.70
Survey	3836.00	27.50	268.00	3818.62	2.77	-98.01	9.71	5.07	5.00	1.88	271.62	98.05
Survey	3867.00	30.20	267.10	3845.77	2.13	-112.95	12.24	8.82	8.71	2.90	271.08	112.97
Survey	3899.00	33.70	266.50	3872.92	1.18	-129.86	15.33	10.98	10.94	1.88	270.52	129.87
Survey	3931.00	36.30	266.90	3899.13	0.12	-148.18	18.71	8.16	8.12	1.25	270.05	148.18
Survey	3962.00	38.40	267.30	3923.77	-0.83	-166.96	22.04	6.82	6.77	1.29	269.72	166.96
Survey	3994.00	39.10	265.70	3948.73	-2.05	-186.95	25.79	3.82	2.19	5.00	269.37	186.96
Survey	4026.00	39.60	262.00	3973.48	-4.23	-207.12	30.51	7.50	1.56	11.56	268.83	207.16
Survey	4057.00	39.50	257.70	3997.38	-7.71	-226.54	36.43	8.84	0.32	13.87	268.05	226.67
Survey	4090.00	39.40	252.70	4022.87	-13.06	-246.80	44.31	9.63	0.30	15.15	266.97	247.15
Survey	4121.00	39.50	247.70	4046.81	-19.73	-265.32	53.28	10.25	0.32	16.13	265.75	266.05
Survey	4152.00	39.40	243.30	4070.75	-27.89	-283.23	63.65	9.02	0.32	14.19	264.38	284.60
Survey	4184.00	39.60	240.20	4095.45	-37.53	-301.16	75.49	6.19	0.63	9.69	262.90	303.49
Survey	4216.00	40.60	238.10	4119.93	-48.10	-318.85	88.22	5.26	3.13	6.56	261.42	322.46
Survey	4248.00	41.20	236.90	4144.12	-59.36	-336.52	101.64	3.09	1.88	3.75	260.00	341.72
Survey	4280.00	42.20	235.60	4168.01	-71.19	-354.22	115.62	4.13	3.12	4.06	258.64	361.30
Survey	4311.00	42.90	234.10	4190.85	-83.26	-371.35	129.77	3.98	2.26	4.84	257.36	380.57
Survey	4343.00	43.60	231.50	4214.16	-96.52	-388.81	145.14	5.98	2.19	8.12	256.06	400.61

Lee 3306 1-34H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	4374.00	44.80	227.80	4236.39	-110.51	-405.27	161.11	9.18	3.87	11.94	254.75	420.07
Survey	4405.00	46.30	224.40	4258.10	-125.86	-421.20	178.36	9.20	4.84	10.97	253.36	439.60
Survey	4437.00	48.10	221.30	4279.84	-143.07	-437.16	197.46	9.06	5.63	9.69	251.88	459.98
Survey	4468.00	49.80	218.10	4300.20	-161.06	-452.08	217.20	9.52	5.48	10.32	250.39	479.91
Survey	4500.00	51.70	215.50	4320.45	-180.90	-466.92	238.76	8.65	5.94	8.12	248.82	500.74
Survey	4532.00	53.50	212.70	4339.89	-201.95	-481.16	261.45	8.94	5.62	8.75	247.23	521.82
Survey	4564.00	55.10	209.80	4358.56	-224.17	-494.63	285.20	8.90	5.00	9.06	245.62	543.06
Survey	4595.00	56.60	207.40	4375.96	-246.69	-506.91	309.10	8.03	4.84	7.74	244.05	563.75
Survey	4627.00	58.60	206.00	4393.11	-270.83	-519.05	334.59	7.26	6.25	4.38	242.45	585.46
Survey	4658.00	60.90	203.80	4408.72	-295.12	-530.31	360.11	9.62	7.42	7.10	240.90	606.90
Survey	4690.00	63.10	201.70	4423.75	-321.17	-541.23	387.34	8.99	6.88	6.56	239.31	629.35
Survey	4721.00	65.50	200.00	4437.19	-347.27	-551.17	414.49	9.18	7.74	5.48	237.79	651.45
Survey	4753.00	68.10	197.90	4449.80	-375.09	-560.71	443.30	10.12	8.12	6.56	236.22	674.60
Survey	4784.00	70.30	195.80	4460.81	-402.82	-569.11	471.87	9.51	7.10	6.77	234.71	697.24
Survey	4815.00	72.40	193.60	4470.72	-431.23	-576.55	500.99	9.54	6.77	7.10	233.21	719.98
Survey	4847.00	74.90	191.60	4479.73	-461.19	-583.25	531.56	9.85	7.81	6.25	231.67	743.56
Survey	4879.00	77.00	189.30	4487.50	-491.72	-588.88	562.56	9.57	6.56	7.19	230.14	767.18
Survey	4910.00	78.60	187.10	4494.05	-521.71	-593.20	592.86	8.65	5.16	7.10	228.67	789.98
Survey	4942.00	79.70	185.50	4500.08	-552.94	-596.65	624.27	5.99	3.44	5.00	227.18	813.47
Survey	4973.00	81.00	184.20	4505.28	-583.39	-599.23	654.80	5.89	4.19	4.19	225.77	836.31
Survey	5005.00	82.80	182.60	4509.79	-615.01	-601.11	686.40	7.49	5.63	5.00	224.35	859.98
Survey	5036.00	85.40	181.80	4512.98	-645.82	-602.29	717.12	8.77	8.39	2.58	223.00	883.08
Survey	5068.00	87.20	181.00	4515.04	-677.74	-603.07	748.88	6.15	5.63	2.50	221.66	907.21
Survey	5099.00	87.20	179.70	4516.56	-708.70	-603.26	779.61	4.19	0.00	4.19	220.41	930.69
Survey	5131.00	87.30	179.50	4518.10	-740.66	-603.04	811.28	0.70	0.31	0.62	219.15	955.11
Survey	5162.00	87.10	179.30	4519.61	-771.62	-602.71	841.95	0.91	0.65	0.65	217.99	979.11
Survey	5193.00	87.50	179.60	4521.07	-802.58	-602.41	872.62	1.61	1.29	0.97	216.89	1003.51
Survey	5225.00	87.40	179.30	4522.49	-834.55	-602.11	904.29	0.99	0.31	0.94	215.81	1029.08
Survey	5256.00	87.80	179.80	4523.79	-865.52	-601.86	934.98	2.06	1.29	1.61	214.81	1054.21
Survey	5288.00	87.70	179.60	4525.05	-897.50	-601.70	966.68	0.70	0.31	0.63	213.84	1080.53
Survey	5347.00	88.50	179.10	4527.01	-956.46	-601.03	1025.08	1.60	1.36	0.85	212.14	1129.63
Survey	5378.00	88.30	178.40	4527.88	-987.44	-600.35	1055.72	2.35	0.65	2.26	211.30	1155.62
Survey	5410.00	89.20	179.10	4528.57	-1019.42	-599.66	1087.35	3.56	2.81	2.19	210.47	1182.71
Survey	5442.00	90.30	178.90	4528.71	-1051.42	-599.10	1119.02	3.49	3.44	0.62	209.67	1210.13
Survey	5473.00	91.50	177.80	4528.22	-1082.40	-598.21	1149.64	5.25	3.87	3.55	208.93	1236.71
Survey	5504.00	92.50	178.50	4527.14	-1113.37	-597.21	1180.23	3.94	3.23	2.26	208.21	1263.43
Survey	5536.00	93.90	178.70	4525.35	-1145.31	-596.43	1211.81	4.42	4.38	0.62	207.51	1291.30
Survey	5567.00	94.10	177.80	4523.19	-1176.22	-595.49	1242.35	2.97	0.65	2.90	206.85	1318.37
Survey	5597.00	94.00	178.30	4521.07	-1206.13	-594.47	1271.89	1.70	0.33	1.67	206.24	1344.67
Survey	5627.00	94.10	178.90	4518.95	-1236.04	-593.74	1301.46	2.02	0.33	2.00	205.66	1371.25
Survey	5658.00	94.40	178.90	4516.65	-1266.95	-593.14	1332.05	0.97	0.97	0.00	205.09	1398.92
Survey	5689.00	94.50	178.40	4514.25	-1297.85	-592.41	1362.60	1.64	0.32	1.61	204.53	1426.66
Survey	5719.00	94.70	179.30	4511.84	-1327.75	-591.81	1392.19	3.06	0.67	3.00	204.02	1453.67
Survey	5749.00	94.60	178.70	4509.41	-1357.64	-591.29	1421.77	2.02	0.33	2.00	203.53	1480.81
Survey	5779.00	93.40	179.80	4507.32	-1387.57	-590.90	1451.41	5.42	4.00	3.67	203.07	1508.15
Survey	5810.00	92.10	180.70	4505.83	-1418.53	-591.03	1482.13	5.10	4.19	2.90	202.62	1536.73
Survey	5840.00	91.00	180.30	4505.02	-1448.52	-591.29	1511.91	3.90	3.67	1.33	202.21	1564.56
Survey	5870.00	89.10	180.80	4504.99	-1478.51	-591.58	1541.69	6.55	6.33	1.67	201.81	1592.47

Lee 3306 1-34H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	5901.00	88.00	180.80	4505.78	-1509.50	-592.01	1572.49	3.55	3.55	0.00	201.41	1621.44
Survey	5991.00	89.20	181.00	4507.98	-1599.46	-593.42	1661.90	1.35	1.33	0.22	200.36	1706.00
Survey	6083.00	91.60	181.00	4507.34	-1691.44	-595.03	1753.34	2.61	2.61	0.00	199.38	1793.05
Survey	6174.00	89.70	181.50	4506.31	-1782.41	-597.02	1843.82	2.16	2.09	0.55	198.52	1879.74
Survey	6264.00	90.10	180.70	4506.47	-1872.39	-598.75	1933.29	0.99	0.44	0.89	197.73	1965.79
Survey	6355.00	90.20	181.10	4506.23	-1963.38	-600.18	2023.73	0.45	0.11	0.44	197.00	2053.07
Survey	6445.00	89.00	179.90	4506.86	-2053.37	-600.97	2113.09	1.89	1.33	1.33	196.31	2139.51
Survey	6536.00	84.60	179.70	4511.94	-2144.21	-600.65	2203.15	4.84	4.84	0.22	195.65	2226.75
Survey	6627.00	86.00	179.10	4519.40	-2234.90	-599.70	2292.99	1.67	1.54	0.66	195.02	2313.96
Survey	6717.00	88.50	179.30	4523.72	-2324.78	-598.45	2381.98	2.79	2.78	0.22	194.44	2400.57
Survey	6808.00	90.30	180.50	4524.67	-2415.77	-598.29	2472.21	2.38	1.98	1.32	193.91	2488.75
Survey	6900.00	90.80	181.40	4523.79	-2507.75	-599.82	2563.64	1.12	0.54	0.98	193.45	2578.49
Survey	6994.00	88.10	181.50	4524.69	-2601.71	-602.20	2657.14	2.87	2.87	0.11	193.03	2670.49
Survey	7088.00	85.60	181.90	4529.86	-2695.52	-604.98	2750.54	2.69	2.66	0.43	192.65	2762.58
Survey	7182.00	87.00	181.50	4535.93	-2789.28	-607.76	2843.90	1.55	1.49	0.43	192.29	2854.73
Survey	7276.00	88.30	181.50	4539.78	-2883.17	-610.22	2937.34	1.38	1.38	0.00	191.95	2947.04
Survey	7371.00	90.50	180.90	4540.77	-2978.14	-612.21	3031.79	2.40	2.32	0.63	191.62	3040.41
Survey	7465.00	90.50	181.30	4539.95	-3072.12	-614.01	3125.24	0.43	0.00	0.43	191.30	3132.88
Survey	7560.00	90.40	181.40	4539.20	-3167.09	-616.25	3219.72	0.15	0.11	0.11	191.01	3226.49
Survey	7654.00	91.40	180.10	4537.72	-3261.07	-617.48	3313.10	1.74	1.06	1.38	190.72	3319.01
Survey	7748.00	91.80	180.10	4535.10	-3355.03	-617.64	3406.32	0.43	0.43	0.00	190.43	3411.41
Survey	7843.00	92.30	180.00	4531.70	-3449.97	-617.72	3500.50	0.54	0.53	0.11	190.15	3504.84
Survey	7937.00	88.90	178.80	4530.72	-3543.94	-616.74	3593.58	3.84	3.62	1.28	189.87	3597.20
Survey	8033.00	89.90	177.10	4531.73	-3639.87	-613.31	3688.30	2.05	1.04	1.77	189.56	3691.18
Survey	8126.00	86.80	176.90	4534.41	-3732.69	-608.45	3779.75	3.34	3.33	0.22	189.26	3781.96
Survey	8222.00	88.00	176.80	4538.76	-3828.44	-603.18	3874.05	1.25	1.25	0.10	188.95	3875.66
Survey	8317.00	88.20	176.90	4541.91	-3923.24	-597.96	3967.42	0.24	0.21	0.11	188.67	3968.55
Survey	8411.00	89.20	176.70	4544.04	-4017.07	-592.71	4059.82	1.08	1.06	0.21	188.39	4060.56
Survey	8505.00	89.80	176.30	4544.86	-4110.89	-586.98	4152.15	0.77	0.64	0.43	188.13	4152.58
Survey	8600.00	89.00	176.30	4545.85	-4205.69	-580.85	4245.41	0.84	0.84	0.00	187.86	4245.61
Survey	8694.00	88.90	177.20	4547.57	-4299.52	-575.52	4337.80	0.96	0.11	0.96	187.62	4337.87
Survey	8789.00	89.40	176.60	4548.98	-4394.37	-570.38	4431.23	0.82	0.53	0.63	187.40	4431.23
Survey	8883.00	90.00	176.50	4549.47	-4488.20	-564.72	4523.58	0.65	0.64	0.11	187.17	4523.59
Survey	8978.00	89.60	177.60	4549.80	-4583.07	-559.83	4617.06	1.23	0.42	1.16	186.96	4617.14
Survey	9035.00	90.40	177.50	4549.80	-4640.02	-557.39	4673.23	1.41	1.40	0.18	186.85	4673.38
PrjCalcPnt	9085	90.4	177.5	4549.45	-4689.97	-555.21	4722.50	0	0	0	186.75	4722.72

Sandridge

WELL PROFILE DATA

Location: Kansas
Field: Sec 34 - 33S - 6W

Installation: Harper County
Well: Lee 3306 1-34H

Installation Data

Name	Latitude	Longitude	Northing	Easting		
Harper County	137 8 17.16	W97 57 57.18	172104.00	2155704.00		
Coordinate System						
Kansas State Planes, Southern Zone						
Slot Data						
Name	North [ft]	East [ft]	Latitude	Longitude	Northing	Easting
Lee 3306 1-34H	-207.99 N	1322.97 E	137 8 15.03	W97 57 40.66	171896.00	2157027.00

Elevation Data

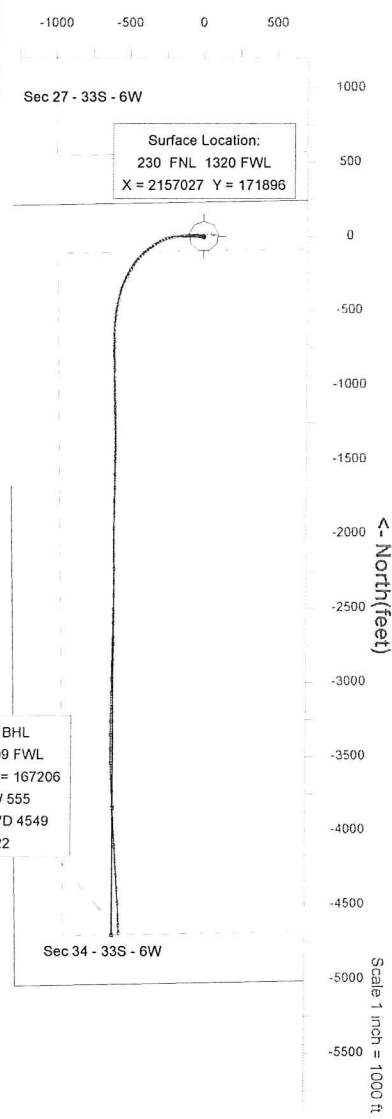
Slot - Mean Sea Level [ft]	Mean Sea Level - Mudline/Ground level [ft]	Slot - Mudline/Ground level [ft]
0.00	0.00	0.00

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
KOP	6900.00	90.80	181.40	4523.75	-2507.74	-599.81	0.00	2563.64
End of Build/Turn	6939.52	91.21	180.72	4523.06	-2547.25	-600.54	2.00	2602.92
Target Lee 3306 1-34H	7132.73	91.21	180.72	4518.98	-2740.40	-602.98	0.00	2794.82
End of Drop/Turn	7250.17	88.99	179.96	4518.78	-2857.83	-603.68	2.00	2911.39
Target Lee 3306 1-34H	8240.36	88.99	179.96	4536.26	-3847.86	-602.98	0.00	3893.30
End of Build/Turn	8243.99	89.05	180.00	4536.32	-3851.49	-602.98	2.00	3896.89
T.D. & Target Lee 3306	9097.49	89.05	180.00	4550.50	-4704.88	-602.98	0.00	4743.36

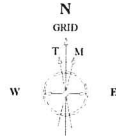
TARGET DATA

MD	Inc	Azi	TVD	North	East	Name	Position
7132.73	91.21	180.72	4518.98	-2740.40	-602.98	Lee 3306 1-34H - Lateral target 1	2156424.00 East: 169155.53 North
8240.36	88.99	179.96	4536.26	-3847.86	-602.98	Lee 3306 1-34H - Lateral target 2	2156424.00 East: 168048.04 North
9097.49	89.05	180.00	4550.50	-4704.88	-602.98	Lee 3306 1-34H - BHL	2156424.00 East: 167191.00 North

Scale 1 inch = 1000 ft

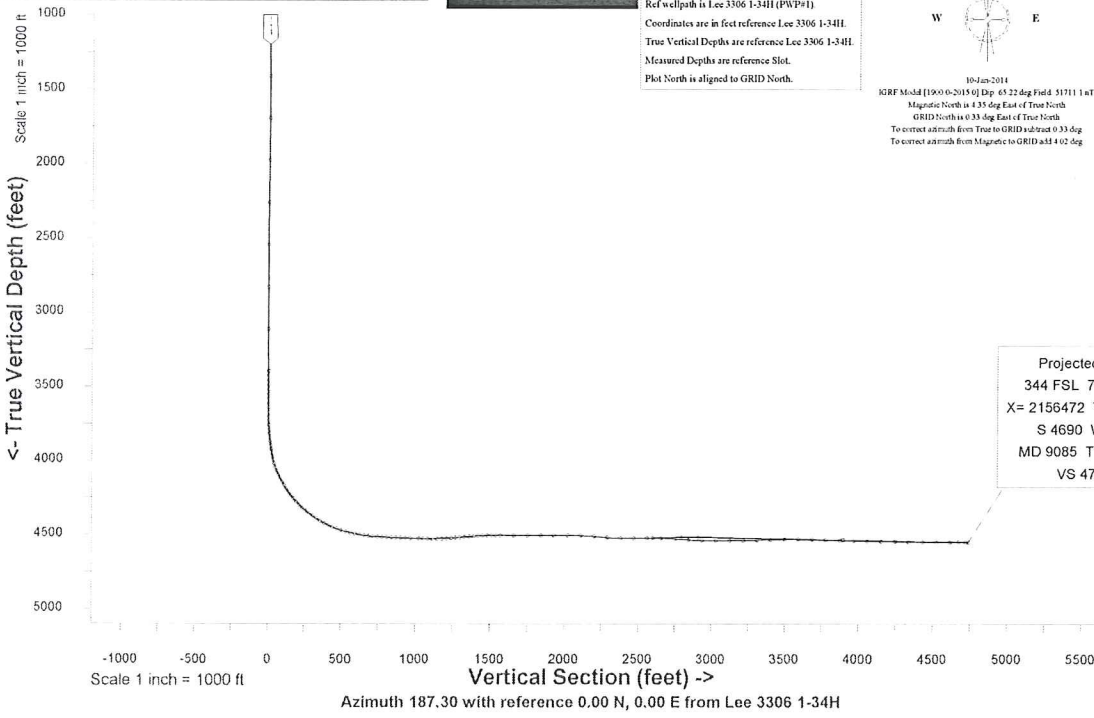


Created by: admin
Date plotted: 18-Feb-2014
Plot reference is Lee 3306 1-34H (Plan 4).
Ref wellpath is Lee 3306 1-34H (PWP#1)
Coordinates are in feet reference Lee 3306 1-34H.
True Vertical Depths are reference Lee 3306 1-34H.
Measured Depths are reference Slot.
Plot North is aligned to GRID North.



18-Jan-2014
KBRF Modd [1900 0.2015 0] Dip: 65.22 deg Field: 51711 1 wt
Magnetic North is 4.33 deg East of True North
GRID North is 0.33 deg East of True North
To correct azimuth from True to GRID subtract 0.33 deg
To correct azimuth from Magnetic to GRID add 4.66 deg

Target Line: 2-1-14
Target: 4475 KBTVD @ 0 VS
89.1° @ 187.3 Azimuth Plane





SandRidge Energy
Lee #3306 1-34 H
Gray 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 Lee #3306 1-34 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 2000 psi. After a successful test we began the job by pumping 10 bbls of preflush spacer. We then mixed and pumped the following cements:

70 Bbls (210 sacks) of 12.7 ppg Lead slurry:
65:35 Class A:Poz Blend - 1.87 Yield
6.0% Gel
2.0% cc
¼# floseal

32 Bbls (150 sacks) of 15.6 ppg Tail slurry:
Class A - 1.20 Yield
2.0% cc
¼# floseal

The top plug was then released and displaced with 50 of fresh water. The plug bumped and pressured up to 900 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
Lee #3306 1-34 H
Harper County, KS.

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well Lee #3306 1-34 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 200.5 of fresh water. The plug bumped and pressured up to 1400 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 #
1/15/2014	4490

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

REMIT TO
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
HARPER, KS	1/9/2014	3434	LARIAT 20	LEE 3306 1-34H	Due on rec...

Description	
DRILLED 90' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 90' OF 20" CONDUCTOR PIPE FURNISHED MUD, WATER, AND TRUCKING FURNISHED WELDER AND MATERIALS FURNISHED 8 YARDS OF GRADE A CEMENT FURNISHED GROUT PUMP DRILL MOUSE HOLES FURNISHED 80' OF 14" CONDUCTOR PIPE TOTAL BID \$19,000.00	

Sales Tax (6.15%)	\$153.26
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TOTAL	\$19,153.26
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