



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1203897
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: _____

1203897

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Lee 3306 2-34H
Doc ID	1203897

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	4984-4986		
5	5052-5054		
5	5118-5120		
5	5283-5285	Kiel Slickwater Frac	5283-5535
5	5363-5365		
5	5428-5485		
5	5483-5535		
5	5533-5610		
5	5608-5680	Kiel Slickwater Frac	5608-5812
5	5678-5748		
5	5746-5812		
5	5810-5890		
5	5888-5980	Kiel Slickwater Frac	5888-6123
5	5978-6050		
5	6048-6125		
5	6123-6200		
5	6198-6250	Kiel slickwater Frac	6198-6448
5	6248-6322		
5	6320-6380		
5	6378-6450		
5	6448-6550		
5	6548-6625	Kiel Slickwater Frac	6548-6820
5	6623-6695		
5	6693-6980	Kiel Slickwater Frac	6923-7175

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Lee 3306 2-34H
Doc ID	1203897

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6978-7124		
5	7173-7175		
5	7238-7240	Kiel Slickwater Frac	7238-7540
5	7298-7300		
5	7363-7365		
5	7473-7475		
5	7538-7540		
5	7648-7650		
5	7698-7700		
5	7778-7780		
5	7828-7830		
5	7948-7950	Kiel Slickwater Frac	7948-8190
5	8036-8038		
5	8103-8105		
5	8188-8190		

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/9/2014
Job End Date:	4/10/2014
State:	Kansas
County:	Harper
API Number:	15-077-22009-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Lee 3306 2-34H
Longitude:	-97.96013000
Latitude:	37.12490000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,520
Total Base Water Volume (gal):	2,326,086
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	95.91244	
Sand, Brown (40/70)	Baker Hughes	Proppant					
			Crystalline Silica: Quartz (SiO2)	14808-60-7	100.00000	2.89355	
HCl, 10.1 - 15%	Baker Hughes	Acidizing					
			Water	7732-18-5	85.00000	0.62988	SmartCare Product
			Hydrochloric Acid	7647-01-0	15.00000	0.11116	SmartCare Product
Preferred Garnet RC 40/70	Baker Hughes	Proppant					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	0.32500	
			Castor Oil	8001-79-4	5.00000	0.01625	
NE-900, tote	Baker Hughes	Non-emulsifier					
			Methanol	67-56-1	30.00000	0.01332	SmartCare Product
			Nonyl phenyl polyethylene glycol ether	9016-45-9	10.00000	0.00444	SmartCare Product
FRW-15DX	Baker Hughes	Friction Reducer					
			Anionic Water-Soluble Polymer	Trade Secret	100.00000	0.01773	
Scaletrol 7208, 330 gl tote	Baker Hughes	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00752	
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	0.00459	SmartCare Product
Ferotrol 300L (Totes)	Baker Hughes	Iron Control					
			Citric Acid	77-92-9	60.00000	0.00256	SmartCare Product
CI-27 (260 gal tote)	Baker Hughes	Corrosion Inhibitor					
			Methanol	67-56-1	60.00000	0.00044	
			Fatty Acids	Trade Secret	30.00000	0.00022	
			Polyoxyalkylenes	Trade Secret	30.00000	0.00022	
			Thiourea Polymer	68527-49-1	30.00000	0.00022	
			Propargyl Alcohol	107-19-7	10.00000	0.00007	
			Olefin	Trade Secret	5.00000	0.00004	
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		0.03766	
			Copolymer	Trade Secret		0.01776	
			Copolymer of Acrylamide and Sodium Acrylate	25987-30-8		0.00184	
			Hydrotreated Light Distillate	64742-47-8		0.00138	
			Diethylene Glycol	111-46-6		0.00125	
			Nonyl Phenol Ethoxylate	127087-87-0		0.00023	
			Sorbitan Monooleate	1338-43-8		0.00023	
			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)

ALLIED OIL & GAS SERVICES, LLC 062342

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
McLodge KS

DATE <u>3-14-14</u>	SEC <u>34</u>	TWP <u>33</u>	RANGE <u>6</u>	CALLED OUT <u>8:00 AM</u>	ON LOCATION <u>11:15 AM</u>	JOB START <u>2:48</u>	JOB FINISH <u>5:30</u>
LEASE <u>LEE</u>	WELL <u>8306 234</u>	LOCATION <u>Anthony KS F to rd 40</u>	COUNTY <u>HAWPEZ</u>	STATE <u>KS</u>			
OLD OR (NEW) (Circle one)	<u>1 S 1/4 E S into</u>						

CONTRACTOR Acist #20
 TYPE OF JOB Inte 7"
 HOLE SIZE 8 7/8 T.D. _____
 CASING SIZE 7" 26" DEPTH 5255
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 90
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 197.30 Bbls
 EQUIPMENT _____
 PUMP TRUCK CEMENTER T SEBA
 #SSS-SSB HELPER JAKE H.
 BULK TRUCK _____
 #Sol-SS3 DRIVER Heobc (TWS)
 BULK TRUCK _____
 # DRIVER _____

OWNER Sandridge Energy
 CEMENT
 AMOUNT ORDERED 240x 50/50 Poz 2% TEL
.4% PL-160 .1% C-51
100x A .8% PL-160 2% CO-31
 COMMON A 100 sk @ 17.90 1790.00
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC _____ @ _____
AsE 30 Bbls @ 58.70 1761.00
50:50 Poz/A 240 sk @ 14.40 3456.00
PL-160 157# @ 18.90 2967.30
C-51 21# @ 17.55 368.55
CD-31 19# @ 10.30 195.70
 HANDLING 351.84 @ 2.48 872.56
 MILEAGE 603.16 / 2.60 1568.22
 TOTAL 12,979.33

REMARKS:

Run 118-H's 7" 26" SCL 5255 psi test 1785
3001
Run 3 Bbls H2O 30 Bbl ASP 3 Bbl H2O
Mix Pump 240 sk 50/50
Mix Pump 100 sk A
Disp 197.30 Bbls
Use psi 800+
pld down 4:20 400+
Release H2O Hank Tom Jack Hector

SERVICE

DEPTH OF JOB 5255'
 PUMP TRUCK CHARGE 3099.23
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 40 @ 7.70 308.00
 AFE Number 5759585 @ 275.00
 Well Name: Lee 8306 234 @ 176.00
 Code: 558-378 @ _____
 Amount: 11,855.92
 Co. Man: James Patten @ 3959.25
 Co. Man Sig: _____
 Notes: PLUG & FLOAT EQUIPMENT

CHARGE TO: Sandridge Energy
 STREET _____
 CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME James Patten
 SIGNATURE James Patten

Notes: _____
 Co. Man Sig: _____ @ 99.45
 Co. Man: _____ @ _____
 Amount: _____ @ _____
 Code: _____ @ _____
 Well Name: _____ @ _____
 AFE Number: _____ @ _____
 TOTAL 99.45
 SALES TAX (If Any) _____
 TOTAL CHARGES 11,955.03
 DISCOUNT _____ IF PAID IN 30 DAYS
11,855.92

ALLIED OIL & GAS SERVICES, LLC 062735

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

DATE <u>3/6/14</u>	SEC. <u>34</u>	TWP. <u>33S</u>	RANGE <u>6W</u>	CALLED OUT	ON LOCATION	<u>Medicine Lodge KS</u> 3/6/14 3/7/14
						JOB START <u>11:30 PM</u> JOB FINISH <u>100 AM</u>
LEASE <u>Lec 3306</u>	WELL# <u>2-34H</u>	LOCATION <u>Anthony KS, East to Rd 1 South,</u>			COUNTY <u>Harper</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)						

CONTRACTOR Lariat #20 OWNER Sand Ridge

TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. _____
CASING SIZE <u>9 5/8</u>	DEPTH <u>697</u>
TUBING SIZE _____	DEPTH _____
DRILL PIPE _____	DEPTH _____
TOOL _____	DEPTH _____
PRES. MAX <u>700</u>	MINIMUM _____
MEAS. LINE _____	SHOE JOINT <u>42</u>
CEMENT LEFT IN CSG. <u>42</u>	
PERFS. _____	
DISPLACEMENT <u>51 BBLs Fresh H₂O</u>	

EQUIPMENT	
PUMP TRUCK CEMENTER <u>Jason Thinesch</u>	
# <u>548-545</u> HELPER <u>Justin Bauer</u>	
BULK TRUCK	
# <u>421/290</u> DRIVER <u>Doug TWS</u>	
BULK TRUCK	
# _____ DRIVER _____	

CEMENT	
AMOUNT ORDERED <u>210sx 65:35:6% Gel + 2% Ca</u>	
<u>4# Flo Seal, 150sx Class A + 2% Ca + 1/4# Flo Seal</u>	
COMMON <u>Class A 150sx @ 17.90</u>	<u>2685.00</u>
POZMIX _____ @ _____	
GEL _____ @ _____	
CHLORIDE <u>8sx @ 64.00</u>	<u>512.00</u>
ASC _____ @ _____	
<u>Allied Lightest Class A 210sx @ 16.50</u>	<u>3465.00</u>
<u>Flo Seal 91lbs @ 2.97</u>	<u>270.27</u>
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
HANDLING <u>392.09 Cuff</u>	<u>2.41 984.78</u>
MILEAGE <u>684.07 mi</u>	<u>2.60 1778.59</u>
TOTAL	<u>9695.64</u>

REMARKS:

AFE Number: D-135813

Well Name: Lec 3306 2-34H

Code: 380-3100

Amount: 25888.40

Co. Man: AMES #122542

Co. Man Sig: AMES #122542

Notes: _____

SERVICE	
DEPTH OF JOB <u>697</u>	
PUMP TRUCK CHARGE _____	<u>2058.50</u>
EXTRA FOOTAGE _____ @ _____	
MILEAGE <u>40 mi @ 7.70</u>	<u>308</u>
MANIFOLD <u>4 Head</u>	<u>275</u>
<u>LV 40 mi @ 4.90</u>	<u>176</u>
_____ @ _____	
TOTAL	<u>2817.50</u>

CHARGE TO: Sand Ridge

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT	
<u>9 5/8</u> Rubber P/ies _____ @ <u>184.86</u>	<u>184.86</u>
_____ @ _____	
_____ @ _____	
_____ @ _____	
TOTAL	<u>184.86</u>

To: Allied Oil & Gas Services, LLC.
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PRINTED NAME _____

SIGNATURE _____

SALES TAX (If Any) _____

TOTAL CHARGES 12698.00

DISCOUNT _____ IF PAID IN 30 DAYS

Net \$8,888.60

SYSDRILL
Wellpath Report
Wellbore: Lee 3306 2-34H (AWB)
Wellpath: Lee 3306 2-34H (AWP#1)



Section	Name	Easting	Northing	Map Projection	North Alignment
Sec 34 - 33S - 6W		2155704.0000	172104.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Surface Hole Location						
County	Name	Northing	Easting	Latitude	Longitude	
Kansas	Lee 3306 2-34H	171897.0000	2157067.0000	N37 8 15.0381	W97 57 40.3649	

Wellpath Report									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	171897.00	2157067.00
803.00	1.00	305.300	802.96	4.05N	5.72W	0.12	-4.83	171901.05	2157061.28
898.00	0.90	321.800	897.95	5.11N	6.86W	0.31	-6.04	171902.11	2157060.14
993.00	0.70	344.300	992.94	6.26N	7.48W	0.39	-7.27	171903.26	2157059.52
1088.00	0.90	331.900	1087.93	7.48N	7.98W	0.28	-8.54	171904.48	2157059.02
1183.00	0.90	309.400	1182.92	8.61N	8.91W	0.37	-9.80	171905.61	2157058.09
1278.00	0.70	311.900	1277.91	9.47N	9.92W	0.21	-10.79	171906.47	2157057.08
1323.00	0.00	0.000	1323.00	0.00N	0.00E		0.00	171897.00	2157067.00
1373.00	0.50	332.900	1372.90	10.23N	10.54W	0.31	-11.63	171907.23	2157056.46
1468.00	0.60	315.400	1467.90	10.95N	11.08W	0.20	-12.42	171907.95	2157055.92
1558.00	0.80	304.600	1557.89	11.64N	11.93W	0.27	-13.23	171908.64	2157055.07
1649.00	0.80	315.200	1648.88	12.45N	12.90W	0.16	-14.17	171909.45	2157054.10
1741.00	0.50	318.000	1740.88	13.21N	13.62W	0.33	-15.02	171910.21	2157053.38
1833.00	0.70	306.500	1832.87	13.84N	14.34W	0.25	-15.75	171910.84	2157052.66
1925.00	0.80	306.800	1924.86	14.56N	15.31W	0.11	-16.60	171911.56	2157051.69
2018.00	0.50	310.900	2017.86	15.21N	16.13W	0.33	-17.37	171912.21	2157050.87
2110.00	1.30	64.500	2109.85	15.93N	15.49W	1.70	-17.98	171912.93	2157051.51
2202.00	3.80	77.500	2201.75	17.03N	11.57W	2.77	-18.52	171914.03	2157055.43
2293.00	5.70	84.800	2292.44	18.10N	4.13W	2.19	-18.50	171915.10	2157062.87
2384.00	7.80	88.900	2382.80	18.63N	6.55E	2.37	-17.50	171915.63	2157073.55
2475.00	9.80	90.500	2472.72	18.68N	20.47E	2.21	-15.55	171915.68	2157087.47
2565.00	11.70	90.700	2561.14	18.50N	37.25E	2.11	-12.98	171915.50	2157104.25
2657.00	13.80	87.500	2650.87	18.86N	57.54E	2.41	-10.43	171915.86	2157124.55
2751.00	14.60	83.200	2742.00	20.75N	80.51E	1.41	-9.02	171917.75	2157147.51
2843.00	15.60	83.700	2830.82	23.48N	104.32E	1.10	-8.31	171920.49	2157171.32
2938.00	16.90	83.200	2922.02	26.52N	130.73E	1.38	-7.54	171923.52	2157197.73
3034.00	18.10	81.700	3013.58	30.33N	159.34E	1.34	-7.21	171927.33	2157226.34
3129.00	20.20	81.000	3103.32	35.02N	190.15E	2.22	-7.45	171932.02	2157257.15
3223.00	19.30	78.100	3191.79	40.77N	221.38E	1.42	-8.66	171937.77	2157288.38
3318.00	20.90	77.400	3281.00	47.70N	253.28E	1.70	-10.95	171944.70	2157320.29
3413.00	19.60	76.200	3370.13	55.20N	285.29E	1.44	-13.79	171952.20	2157352.30
3508.00	20.50	79.200	3459.37	62.12N	317.11E	1.44	-16.09	171959.12	2157384.12
3603.00	19.30	77.500	3548.70	68.63N	348.78E	1.40	-18.00	171965.63	2157415.78
3697.00	19.80	74.600	3637.28	76.22N	379.29E	1.16	-21.15	171973.22	2157446.30
3792.00	17.30	78.500	3727.34	83.31N	408.65E	2.94	-23.96	171980.31	2157475.66
3822.00	16.90	82.600	3756.02	84.76N	417.35E	4.23	-24.15	171981.76	2157484.36
3854.00	17.20	91.000	3786.61	85.28N	426.69E	7.75	-23.32	171982.28	2157493.70
3885.00	17.90	100.800	3816.18	84.31N	435.96E	9.78	-21.04	171981.31	2157502.97
3917.00	19.60	107.100	3846.48	81.81N	445.92E	8.26	-17.14	171978.81	2157512.93
3948.00	21.50	109.000	3875.51	78.43N	456.26E	6.49	-12.31	171975.43	2157523.27
3980.00	22.80	113.500	3905.15	74.05N	467.49E	6.68	-6.37	171971.05	2157534.50
4012.00	24.00	120.400	3934.52	68.28N	478.79E	9.34	0.96	171965.28	2157545.81
4043.00	25.50	127.100	3962.68	61.06N	489.56E	10.25	9.64	171958.06	2157556.57
4075.00	27.00	132.200	3991.38	52.03N	500.43E	8.46	20.14	171949.03	2157567.45
4107.00	28.10	137.100	4019.76	41.62N	510.95E	7.87	31.94	171938.62	2157577.96
4138.00	29.30	140.800	4046.95	30.40N	520.71E	6.91	44.45	171927.40	2157587.73
4170.00	30.20	144.800	4074.73	17.75N	530.30E	6.81	58.34	171914.75	2157597.31
4202.00	31.50	147.000	4102.21	4.16N	539.49E	5.38	73.10	171901.16	2157606.51
4233.00	32.20	148.200	4128.54	9.65S	548.26E	3.04	88.03	171887.35	2157615.27
4265.00	34.80	149.600	4155.22	24.78S	557.37E	8.48	104.30	171872.22	2157624.39
4296.00	38.00	152.500	4180.17	40.88S	566.26E	11.72	121.51	171856.12	2157633.27
4328.00	40.40	155.000	4204.97	59.02S	575.19E	8.98	140.74	171837.98	2157642.21
4359.00	41.80	156.300	4228.33	77.58S	583.59E	5.29	160.32	171819.42	2157650.61
4391.00	43.50	158.200	4251.87	97.58S	591.97E	6.66	181.30	171799.42	2157658.98
4423.00	46.80	160.700	4274.43	118.82S	599.92E	11.70	203.46	171778.18	2157666.93
4455.00	49.10	162.300	4295.87	141.35S	607.45E	8.09	226.84	171755.65	2157674.46
4486.00	50.90	163.400	4315.79	164.04S	614.45E	6.41	250.30	171732.96	2157681.46
4518.00	53.10	164.500	4335.49	188.27S	621.42E	7.39	275.28	171708.72	2157688.43
4549.00	55.30	166.200	4353.62	212.60S	627.77E	8.37	300.27	171684.40	2157694.79
4581.00	57.80	167.200	4371.26	238.58S	633.91E	8.24	326.86	171658.42	2157700.92
4612.00	58.40	168.600	4387.64	264.31S	639.42E	4.29	353.12	171632.68	2157706.44
4644.00	60.00	169.300	4404.03	291.29S	644.69E	5.34	380.57	171605.71	2157711.71
4676.00	62.70	171.400	4419.37	318.97S	649.39E	10.21	408.64	171578.02	2157716.41
4707.00	64.70	173.400	4433.11	346.51S	653.06E	8.66	436.42	171550.48	2157720.08
4739.00	67.10	175.300	4446.17	375.58S	655.93E	9.25	465.60	171521.41	2157722.95

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Lee 3306 2-34H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 171.770 degrees
Bottom hole distance is 4394.89 Feet on azimuth 171.11 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Drill Right Technology
Date Printed: 19-Mar-2014

SYSDRILL
Wellpath Report
Wellbore: Lee 3306 2-34H (AWB)
Wellpath: Lee 3306 2-34H (AWP#1)



Wellpath Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
4770.00	70.50	175.800	4457.38	404.39S	658.17E	11.07	494.43	171492.60	2157725.19
4802.00	73.70	176.700	4467.22	434.77S	660.16E	10.35	524.79	171462.22	2157727.18
4833.00	76.80	178.200	4475.11	464.71S	661.49E	11.04	554.61	171432.27	2157728.51
4865.00	78.80	181.000	4481.87	495.99S	661.71E	10.59	585.59	171401.00	2157728.72
4896.00	82.20	182.200	4486.99	526.54S	660.85E	11.61	615.71	171370.44	2157727.87
4928.00	85.40	182.500	4490.44	558.33S	659.55E	10.04	646.98	171338.66	2157726.57
4960.00	88.30	182.600	4492.20	590.24S	658.13E	9.07	678.37	171306.74	2157725.14
4991.00	88.70	182.100	4493.01	621.21S	656.86E	2.07	708.83	171275.78	2157723.87
5023.00	88.90	181.600	4493.68	653.18S	655.82E	1.68	740.33	171243.80	2157722.84
5054.00	89.10	181.800	4494.23	684.16S	654.90E	0.91	770.86	171212.82	2157721.92
5086.00	89.30	182.200	4494.67	716.14S	653.79E	1.40	802.35	171180.84	2157720.80
5117.00	89.60	181.400	4494.97	747.12S	652.81E	2.76	832.87	171149.86	2157719.83
5149.00	89.70	182.100	4495.17	779.11S	651.84E	2.21	864.39	171117.87	2157718.85
5180.00	89.80	181.800	4495.30	810.09S	650.78E	1.02	894.90	171086.89	2157717.80
5205.00	90.10	181.200	4495.32	835.08S	650.13E	2.68	919.54	171061.90	2157717.14
5279.00	90.60	181.500	4494.87	909.06S	648.38E	0.79	992.51	170987.92	2157715.40
5370.00	89.40	178.600	4494.87	1000.05S	648.30E	3.45	1082.55	170896.93	2157715.32
5460.00	89.10	178.400	4496.05	1090.01S	650.66E	0.40	1171.92	170806.96	2157717.68
5552.00	88.40	179.300	4498.06	1181.97S	652.51E	1.24	1263.19	170715.00	2157719.52
5644.00	89.40	178.200	4499.82	1273.93S	654.51E	1.62	1354.49	170623.04	2157721.53
5737.00	89.60	179.400	4500.63	1366.90S	656.46E	1.31	1446.79	170530.07	2157723.48
5829.00	89.50	180.600	4501.36	1458.89S	656.46E	1.31	1537.84	170438.07	2157723.48
5921.00	88.70	179.700	4502.80	1550.88S	656.22E	1.31	1628.84	170346.08	2157723.24
6013.00	90.30	181.000	4503.60	1642.87S	655.66E	2.24	1719.80	170254.09	2157722.67
6104.00	90.20	181.300	4503.21	1733.85S	653.83E	0.35	1809.59	170163.10	2157720.85
6195.00	90.50	181.000	4502.65	1824.83S	652.00E	0.47	1899.37	170072.12	2157719.02
6286.00	90.30	179.100	4502.02	1915.83S	651.92E	2.10	1989.41	169981.13	2157718.94
6376.00	89.10	178.000	4502.49	2005.79S	654.20E	1.81	2078.78	169891.16	2157721.22
6469.00	89.30	178.100	4503.79	2098.73S	657.37E	0.24	2171.21	169798.22	2157724.38
6562.00	89.50	177.900	4504.76	2191.67S	660.61E	0.30	2263.66	169705.28	2157727.63
6654.00	89.60	178.000	4505.48	2283.61S	663.90E	0.15	2355.12	169613.34	2157730.92
6749.00	89.20	176.600	4506.48	2378.49S	668.38E	1.53	2449.67	169518.45	2157735.39
6843.00	89.40	176.000	4507.62	2472.29S	674.44E	0.67	2543.37	169424.65	2157741.46
6938.00	90.50	177.500	4507.71	2567.13S	679.83E	1.96	2638.01	169329.80	2157746.85
7033.00	91.60	178.800	4505.97	2662.06S	682.89E	1.79	2732.40	169234.87	2157749.91
7128.00	91.40	177.900	4503.48	2756.99S	685.63E	0.97	2826.74	169139.94	2157752.65
7222.00	90.90	178.500	4501.59	2850.92S	688.58E	0.83	2920.13	169046.00	2157755.60
7318.00	87.30	178.000	4503.10	2946.85S	691.51E	3.79	3015.49	168950.07	2157758.53
7413.00	87.10	178.800	4507.74	3041.70S	694.16E	0.87	3109.74	168855.22	2157761.18
7507.00	88.80	180.000	4511.10	3135.63S	695.14E	2.21	3202.84	168761.29	2157762.16
7602.00	89.50	179.900	4512.51	3230.62S	695.23E	0.74	3296.87	168666.30	2157762.25
7697.00	89.00	179.500	4513.76	3325.61S	695.72E	0.67	3390.95	168571.31	2157762.74
7791.00	88.50	180.000	4515.81	3419.58S	696.13E	0.75	3484.02	168477.33	2157763.15
7886.00	87.80	179.700	4518.87	3514.53S	696.38E	0.80	3578.02	168382.37	2157763.40
7980.00	89.70	179.800	4520.93	3608.51S	696.79E	2.02	3671.09	168288.40	2157763.81
8075.00	91.50	181.100	4519.93	3703.49S	696.05E	2.34	3764.99	168193.41	2157763.07
8170.00	90.10	180.600	4518.60	3798.47S	694.64E	1.56	3858.79	168098.43	2157761.66
8264.00	91.10	182.100	4517.62	3892.44S	692.42E	1.92	3951.47	168004.46	2157759.44
8358.00	91.80	181.700	4515.24	3986.35S	689.31E	0.86	4043.97	167910.54	2157756.33
8454.00	92.70	181.200	4511.47	4082.25S	686.88E	1.07	4138.53	167814.65	2157753.90
8547.00	91.10	182.300	4508.39	4175.15S	684.04E	2.09	4230.07	167721.74	2157751.06
8642.00	88.90	181.400	4508.39	4270.09S	680.98E	2.50	4323.59	167626.80	2157747.99
8664.00	88.70	181.200	4508.85	4292.08S	680.48E	1.29	4345.29	167604.81	2157747.49
8714.00	88.70	181.200	4509.98	4342.06S	679.43E	==>	4394.60	167554.83	2157746.45

Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
423459	0313	5205.00	4495.32	WdW Magnetic	Good Magnetic
425692	0319	8714.00	4509.98	WdW Magnetic	Good Magnetic

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Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Lee 3306 2-34H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 171.770 degrees
Bottom hole distance is 4394.89 Feet on azimuth 171.11 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Drill Right Technology
Date Printed: 19-Mar-2014

Sandridge

Location Kansas Slot Lee 3306 2-34H
 Field Sec 34 - 33S - 6W Well Lee 3306 2-34H
 Installation Harper County Wellbore Lee 3306 2-34H (Plan)

Installation Data

Name	Latitude	Longitude	Northing	Easting
Harper County	N37 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 2-34H	-205.89 N	1362.96 E	N37 8 15.04	W97 57 40.36	171897.00	2157067.00

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

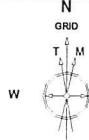
Target Line: 02/26/14
 TGT: 4495' KBTVD @ 0' VS
 89.65° @ 171.77° AZI Plane

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
KOP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Target KOP w/ 2" BRN	2050.00	0.00	80.00	2050.00	0.00	0.00	0.00	0.00
Target Hold Section	3036.50	19.73	80.00	3017.12	29.20	165.63	2.00	-5.20
Target Build w/ 8" BRN	3839.40	19.73	80.00	3772.88	76.27	432.56	0.00	-13.57
Target Hold 250' Tange	4982.83	88.00	180.00	4490.26	-615.07	676.87	8.00	705.63
Target Build w/ 10" BR	5232.83	88.00	180.00	4498.99	-864.92	676.87	0.00	952.90
Target Landing Point	5250.33	89.75	180.00	4499.33	-882.41	676.87	10.00	970.21
T.D. & Target PBHL Lee	9048.83	89.76	180.00	4515.64	-4680.88	676.98	0.00	4729.58

TARGET DATA

MD	Inc	Azi	TVD	North	East	Name	Position
2050.00	0.00	80.00	2050.00	0.00	-0.00	KOP w/ 2" BRN	2157067.00 East : 171897.00 North
3036.50	19.73	80.00	3017.12	29.20	165.63	Hold Section	2157232.63 East : 171926.21 North
3839.40	19.73	80.00	3772.88	76.27	432.56	Build w/ 8" BRN	2157499.57 East : 171973.27 North
4982.83	88.00	180.00	4490.26	-615.07	676.87	Hold 250' Tangent	2157743.88 East : 171281.91 North
5232.83	88.00	180.00	4498.99	-864.92	676.87	Build w/ 10" BRN	2157743.88 East : 171032.06 North
5250.33	89.75	180.00	4499.33	-882.41	676.87	Landing Point	2157743.88 East : 171014.56 North
9048.83	89.76	180.00	4515.64	-4680.88	676.98	PBHL Lee 3306 2-34H	2157744.00 East : 167218.00 North



10-Jan-2014
 IGRF Model 1900 6-2015 (Dip 65.22 deg East of True North)
 Magnetic North is 4.35 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 4.02 deg



Created by admn
 Date plotted 19-Mar-2014
 Plot reference is Lee 3306 2-34H (Plan)
 Ref well path is Lee 3306 2-34H (PVP#1)
 Coordinates are in feet reference Lee 3306 2-34H
 True Vertical Depths are reference Lee 3306 2-34H
 Measured Depths are reference Slot
 Plot North is aligned to GRID North

East (feet) ->
 Scale 1 inch = 1000 ft

0 500 1000 1500

Surface Location
 230' FNL & 1360' FWL
 Sec 34-33S-06W
 X= 2157067 Y= 171897

