



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1203539
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: _____

1203539

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> <input type="checkbox"/> Other <i>(Specify)</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	Donald M Todd 3318 3-12H
Doc ID	1203539

Tops

Name	Top	Datum
Base Anhydrite	2414	-504
Base Heebner	4213	-2303
Lansing	4393	-2482
Marmaton	4932	-2977
Oswego	5011	-3033
Pawnee	5075	-3074
Cherokee	5159	-3120
Mississippi Unconformity	5381	-3201
Mississippi Limestones	5411	-3209

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Donald M Todd 3318 3-12H
Doc ID	1203539

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5470-5472		
5	5536-5538		
5	5583-5585		
5	5882-5884		
5	5944-5946		
5	6022-6024		
5	6073-6075		
5	6109-6111		
5	6196-6198		
5	6257-6259		
5	6356-6358		
5	6447-6449		
5	6509-6511		
5	6590-6592		
5	6690-6692		
5	6768-6770		
5	6820-6822		
5	6879-6881		
5	6939-6941		
5	7009-7011		
5	7067-7069		
5	7127-7129		
5	7224-7226		
5	7315-7317		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Donald M Todd 3318 3-12H
Doc ID	1203539

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	7370-7372		
5	7440-7442		
5	7520-7522		
5	7590-7592		
5	7704-7706		
5	7760-7762		
5	7810-7812		
5	7906-7908		

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/13/2014
Job End Date:	3/14/2014
State:	Kansas
County:	Comanche
API Number:	15-033-21741-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Todd Donald M 3318 3-12H
Longitude:	-99.23552000
Latitude:	37.18115000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	5,149
Total Base Water Volume (gal):	1,458,240
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	95.82567	
Sand, White, 40/70	Baker Hughes	Proppant					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	3.25879	
HCl, 10.1 - 15%	Baker Hughes	Acidizing					
			Water	7732-18-5	85.00000	0.68002	SmartCare Product
			Hydrochloric Acid	7647-01-0	15.00000	0.12000	SmartCare Product
FRW-15DX	Baker Hughes	Friction Reducer					
			Anionic Water-Soluble Polymer	Trade Secret	100.00000	0.01867	
NE-900, tote	Baker Hughes	Non-emulsifier					
			Methanol	67-56-1	30.00000	0.01357	SmartCare Product
			Nonyl phenyl polyethylene glycol ether	9016-45-9	10.00000	0.00452	SmartCare Product
Scaletrol 7208, 330 gal tote	Baker Hughes	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00767	
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	0.00400	SmartCare Product
Ferrotrol 300L (Totes)	Baker Hughes	Iron Control					

			Citric Acid	77-92-9	60.00000	0.00348	SmartCare Product
CI-27 (260 gal tote)	Baker Hughes	Corrosion Inhibitor					
			Methanol	67-56-1	60.00000	0.00070	
			Polyoxyalkylenes	Trade Secret	30.00000	0.00035	
			Thiourea Polymer	68527-49-1	30.00000	0.00035	
			Fatty Acids	Trade Secret	30.00000	0.00035	
			Propargyl Alcohol	107-19-7	10.00000	0.00012	
			Olefin	Trade Secret	5.00000	0.00006	
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		0.03910	
			Copolymer	Trade Secret		0.01809	
			Copolymer of Acrylamide and Sodium Acrylate	25987-30-8		0.00160	
			Diethylene Glycol	111-46-6		0.00128	
			Hydrotreated Light Distillate	64742-47-8		0.00120	
			Sorbitan Monooleate	1338-43-8		0.00020	
			Nonyl Phenol Ethoxylate	127087-87-0		0.00020	
			Sodium Chloride	7647-14-5		0.00001	
			Formaldehyde	50-00-0		0.00000	
			Potassium Chloride	7447-40-7			
			Calcium Chloride	10043-52-4			
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9			
			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)



SandRidge Energy
Donald M Todd #3318 3-12
Comanche 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 Donald M Todd #3318 3-12 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 4000 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 220.75 of fresh water. The plug bumped and pressured up to 1550 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
Donald M Todd #3318 3-12
Comanche 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 Donald M Todd #3318 3-12 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:

77 Bbls (230 sacks) of 12.7 ppg Lead slurry:
65:35 Class A:Poz Blend - 187 Yield
6.0% Gel
2.0% cc
¼# Floseal

46Bbls (215 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 60 Bbls of fresh water. The plug bumped and pressured up to 400 psi. Pressure was released and floats held. Cement did not circulate to surface. Additional cement was taken to location for top off. 1" tubing was ran down the outside of the 9 5/8" casing to a depth of 160'. We then mixed and pumped the following cement.

43 Bbls (200 sacks) of 15.6 ppg Slurry
Class A- 1.20 Yield
2.0% cc
¼# Floseal

Cement did circulate to surface

All real time data is shown on the graph in the attachment section.



INVOICE

DATE	INVOICE #
1/9/2014	4485

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
COMANCHE, ...	1/7/2014	3430	HORIZON 4	DONALD M TODD 3318 3-12H	Due on rec...

Description	
DRILLED 120' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED ' OF 20" CONDUCTOR PIPE FURNISHED MUD, WATER, AND TRUCKING FURNISHED WELDER AND MATERIALS FURNISHED 10 YARDS OF GRADE A CEMENT FURNISHED GROUT PUMP DRILL MOUSE HOLE FURNISHED 25' OF 14" CONDUCTOR PIPE TOTAL BID \$18,125.00	

Sales Tax (6.15%)	\$147.11
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TOTAL	\$18,272.11
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Company: Sandridge
Well Name: Donald M Todd 3318 3-12H
Legals: Sec: 12 Township: 33S
 Range: 18W
County/State: Comanche County KS
Rig Name: Horizon 4

Customer Rep	Position	Directional Driller	MWD Operator
		Bill Sneed	Tommy Lewis
		Rob Ellis	

Donald M Todd 3318 3-12H 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	842.00	2.00	275.60	841.83	1.43	-14.62	9.25	0.24	0.24	10.02	275.59	14.69
Survey	1089.00	1.40	195.80	1088.75	-1.05	-19.74	14.61	0.90	0.24	32.31	266.96	19.77
Survey	1338.00	1.10	98.30	1337.71	-4.32	-18.20	15.86	0.76	0.12	39.16	256.65	18.71
Survey	1589.00	1.30	88.60	1588.66	-4.60	-12.97	12.38	0.11	0.08	3.86	250.47	13.76
Survey	1841.00	1.40	90.10	1840.59	-4.54	-7.03	8.17	0.04	0.04	0.60	237.15	8.37
Survey	2094.00	0.50	122.50	2093.55	-5.14	-3.01	5.77	0.40	0.36	12.81	210.35	5.96
Survey	2345.00	0.30	109.70	2344.54	-5.95	-1.47	5.27	0.09	0.08	5.10	193.88	6.13
Survey	2598.00	0.40	138.20	2597.54	-6.83	-0.26	5.05	0.08	0.04	11.26	182.18	6.83
Survey	2851.00	0.20	188.30	2850.54	-7.93	0.26	5.46	0.12	0.08	19.80	178.12	7.93
Survey	3102.00	0.30	90.20	3101.54	-8.37	0.85	5.36	0.15	0.04	39.08	174.20	8.41
Survey	3355.00	0.10	336.00	3354.54	-8.17	1.43	4.81	0.14	0.08	45.14	170.07	8.29
Survey	3607.00	0.30	11.00	3606.54	-7.32	1.47	4.18	0.09	0.08	13.89	168.64	7.47
Survey	3860.00	0.40	309.80	3859.54	-6.10	0.92	3.70	0.14	0.04	24.19	171.42	6.17
Survey	4111.00	0.70	281.50	4110.53	-5.23	-1.26	4.61	0.16	0.12	11.27	193.55	5.38
Survey	4365.00	0.70	291.40	4364.51	-4.35	-4.23	6.07	0.05	0.00	3.90	224.20	6.07
Survey	4459.00	4.50	253.10	4458.40	-5.21	-8.29	9.53	4.23	4.04	40.74	237.85	9.79
Survey	4491.00	6.50	255.70	4490.25	-6.02	-11.25	12.19	6.30	6.25	8.12	241.85	12.76
Survey	4522.00	9.00	247.50	4520.97	-7.38	-15.19	15.92	8.80	8.06	26.45	244.09	16.89
Survey	4554.00	12.10	243.10	4552.43	-9.86	-20.49	21.41	10.00	9.69	13.75	244.30	22.74
Survey	4586.00	15.10	238.80	4583.53	-13.54	-27.05	28.63	9.89	9.37	13.44	243.41	30.25
Survey	4617.00	17.70	238.60	4613.27	-18.09	-34.53	37.13	8.39	8.39	0.65	242.35	38.98
Survey	4648.00	19.90	237.90	4642.61	-23.34	-43.02	46.83	7.13	7.10	2.26	241.52	48.94
Survey	4680.00	21.90	236.40	4672.50	-29.54	-52.61	57.97	6.47	6.25	4.69	240.69	60.34
Survey	4712.00	24.40	235.40	4701.92	-36.59	-63.02	70.30	7.91	7.81	3.12	239.86	72.87
Survey	4743.00	26.70	233.60	4729.89	-44.36	-73.90	83.47	7.83	7.42	5.81	239.02	86.19
Survey	4775.00	29.10	231.60	4758.17	-53.46	-85.79	98.30	8.05	7.50	6.25	238.07	101.08
Survey	4807.00	31.50	230.50	4785.80	-63.61	-98.34	114.34	7.70	7.50	3.44	237.10	117.12
Survey	4838.00	33.50	229.50	4811.94	-74.32	-111.09	130.92	6.68	6.45	3.23	236.22	133.66
Survey	4870.00	35.90	229.50	4838.25	-86.15	-124.94	149.07	7.50	7.50	0.00	235.41	151.76
Survey	4901.00	38.50	227.70	4862.94	-98.55	-138.99	167.76	9.09	8.39	5.81	234.66	170.38
Survey	4933.00	41.10	224.10	4887.53	-112.81	-153.68	188.23	10.85	8.12	11.25	233.72	190.64
Survey	4964.00	43.90	222.00	4910.38	-128.12	-167.97	209.17	10.12	9.03	6.77	232.67	211.25
Survey	4995.00	46.30	221.00	4932.27	-144.57	-182.51	231.09	8.07	7.74	3.23	231.62	232.83
Survey	5027.00	49.30	220.60	4953.76	-162.51	-198.00	254.74	9.42	9.37	1.25	230.62	256.15
Survey	5058.00	52.00	220.40	4973.41	-180.74	-213.57	278.65	8.72	8.71	0.65	229.76	279.78
Survey	5089.00	54.20	220.50	4992.02	-199.60	-229.65	303.37	7.10	7.10	0.32	229.00	304.27
Survey	5121.00	56.40	221.00	5010.24	-219.53	-246.83	329.62	6.99	6.88	1.56	228.35	330.33
Survey	5152.00	59.60	221.20	5026.67	-239.34	-264.11	355.86	10.34	10.32	0.65	227.82	356.42
Survey	5184.00	62.30	221.70	5042.20	-260.30	-282.63	383.79	8.55	8.44	1.56	227.36	384.23
Survey	5216.00	63.90	221.80	5056.68	-281.59	-301.63	412.29	5.01	5.00	0.31	226.97	412.64
Survey	5247.00	65.10	221.40	5070.03	-302.51	-320.21	440.23	4.04	3.87	1.29	226.63	440.51

Donald M Todd 3318 3-12H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	5278.00	68.60	221.40	5082.21	-323.89	-339.05	468.68	11.29	11.29	0.00	226.31	468.89
Survey	5310.00	71.70	221.60	5093.07	-346.43	-358.99	498.73	9.71	9.69	0.62	226.02	498.89
Survey	5342.00	73.80	221.50	5102.56	-369.30	-379.26	529.25	6.57	6.56	0.31	225.76	529.36
Survey	5372.00	74.30	221.10	5110.81	-390.97	-398.30	558.05	2.10	1.67	1.33	225.53	558.12
Survey	5403.00	76.90	221.30	5118.52	-413.56	-418.08	588.02	8.41	8.39	0.65	225.31	588.07
Survey	5435.00	80.50	221.50	5124.79	-437.09	-438.82	619.34	11.27	11.25	0.62	225.11	619.36
Survey	5467.00	83.80	221.50	5129.16	-460.83	-459.83	650.99	10.31	10.31	0.00	224.94	651.01
Survey	5498.00	85.90	222.40	5131.94	-483.79	-480.47	681.83	7.37	6.77	2.90	224.80	681.84
Survey	5530.00	86.10	222.50	5134.17	-507.34	-502.01	713.73	0.70	0.62	0.31	224.70	713.73
Survey	5561.00	86.20	222.30	5136.26	-530.19	-522.87	744.64	0.72	0.32	0.65	224.60	744.64
Survey	5593.00	86.40	222.20	5138.33	-553.83	-544.34	776.55	0.70	0.62	0.31	224.50	776.55
Survey	5625.00	86.40	221.80	5140.33	-577.56	-565.71	808.45	1.25	0.00	1.25	224.41	808.46
Survey	5656.00	86.40	222.10	5142.28	-600.57	-586.39	839.36	0.97	0.00	0.97	224.32	839.37
Survey	5688.00	86.50	221.30	5144.26	-624.42	-607.64	871.26	2.51	0.31	2.50	224.22	871.28
Survey	5720.00	86.30	221.60	5146.27	-648.35	-628.78	903.14	1.13	0.63	0.94	224.12	903.17
Survey	5752.00	87.50	222.40	5148.00	-672.10	-650.16	935.06	4.50	3.75	2.50	224.05	935.11
Survey	5783.00	89.10	223.60	5148.92	-694.76	-671.29	966.04	6.45	5.16	3.87	224.02	966.09
Survey	5882.00	89.80	220.60	5149.87	-768.20	-737.65	1064.92	3.11	0.71	3.03	223.84	1065.02
Survey	5978.00	91.40	220.00	5148.87	-841.41	-799.74	1160.65	1.78	1.67	0.62	223.55	1160.84
Survey	6073.00	92.50	221.30	5145.64	-913.44	-861.59	1255.36	1.79	1.16	1.37	223.33	1255.67
Survey	6169.00	92.00	223.00	5141.87	-984.56	-925.96	1351.20	1.84	0.52	1.77	223.24	1351.58
Survey	6265.00	90.80	224.90	5139.52	-1053.65	-992.56	1447.16	2.34	1.25	1.98	223.29	1447.53
Survey	6361.00	91.70	225.20	5137.43	-1121.46	-1060.48	1543.13	0.99	0.94	0.31	223.40	1543.47
Survey	6457.00	91.10	226.80	5135.08	-1188.12	-1129.51	1639.06	1.78	0.63	1.67	223.55	1639.34
Survey	6552.00	90.80	226.30	5133.50	-1253.44	-1198.47	1733.99	0.61	0.32	0.53	223.72	1734.20
Survey	6648.00	90.70	226.40	5132.24	-1319.70	-1267.93	1829.94	0.15	0.10	0.10	223.85	1830.10
Survey	6744.00	90.80	226.00	5130.98	-1386.14	-1337.21	1925.89	0.43	0.10	0.42	223.97	1926.01
Survey	6839.00	91.40	225.50	5129.16	-1452.42	-1405.25	2020.86	0.82	0.63	0.53	224.05	2020.95
Survey	6935.00	90.00	225.10	5127.99	-1519.94	-1473.48	2116.85	1.52	1.46	0.42	224.11	2116.92
Survey	7030.00	90.50	224.70	5127.58	-1587.23	-1540.54	2211.84	0.67	0.53	0.42	224.14	2211.91
Survey	7126.00	92.10	223.30	5125.40	-1656.27	-1607.20	2307.81	2.21	1.67	1.46	224.14	2307.88
Survey	7222.00	91.80	224.80	5122.13	-1725.23	-1673.91	2403.75	1.59	0.31	1.56	224.14	2403.83
Survey	7317.00	92.30	225.80	5118.73	-1792.01	-1741.39	2498.68	1.18	0.53	1.05	224.18	2498.75
Survey	7413.00	91.70	226.60	5115.38	-1858.41	-1810.64	2594.58	1.04	0.62	0.83	224.25	2594.63
Survey	7509.00	91.60	227.10	5112.62	-1924.04	-1880.65	2690.47	0.53	0.10	0.52	224.35	2690.50
Survey	7604.00	90.90	228.10	5110.55	-1988.08	-1950.79	2785.32	1.28	0.74	1.05	224.46	2785.33
Survey	7700.00	90.60	228.20	5109.29	-2052.12	-2022.29	2881.12	0.33	0.31	0.10	224.58	2881.12
Survey	7796.00	91.40	228.70	5107.61	-2115.78	-2094.12	2976.88	0.98	0.83	0.52	224.71	2976.89
Survey	7892.00	92.00	228.10	5104.76	-2179.49	-2165.88	3072.63	0.88	0.62	0.63	224.82	3072.66
Survey	7925.00	92.00	227.90	5103.61	-2201.56	-2190.39	3105.56	0.61	0.00	0.61	224.85	3105.59
PrjCalcPnt	7984	92	227.9	5101.55	-2241.09	-2234.14	3164.42	0	0	0	224.91	3164.47

Day # 1 - From January 28, 2014 00:00 to January 28, 2014 23:59

Company: Sandridge	Customer Rep	Position	Directional Driller	MWD Operator
Well Name: Donald M Todd 3318 3-12H			Bill Sneed	Tommy Lewis
Legals: Sec: 12 Township: 33S Range: 18W			Rob Ellis	
County/State: Comanche County KS				
Rig Name: Horizon 4				

Daily Totals			Drilling Parameters			Mud Record		BHA Items
Start Depth:	0	Rotate Ftg:	0	WOB:	0	Weight:	0	
End Depth:	0	Rotary Hrs:	0	Press On:	0	Visc:	0	
Total Drilled:	0	Avg Rot ROP:	0	Press Off:	0	Chlorides:		
Below Rot. Hrs:	0	Circ Hours:	0	GPM:	0	YP:		
Avg Total ROP:	0	Rotary Hrs%:	0	SPM:	0	PV:		
Slide Footage:	0	Slide Hrs%:	0	Rot. RPM:	0 - 0	PH:		
Slide Hours:	0	Rotary Ftg%:	0	Mot. RPM:	0 - 0	Gas:		
Avg Slide ROP:	0	Slide Ftg%:	0			Sand:		
						WL:		
						Solid:		
						BHT°:		
						Flow T°:		
						Oil %:		
						LCM:		

Casing		
Size	Lb/ft	Set Depth

Bit Record							
Name	SN	Bit Type	IADC#	MFR	TFA	Jets	GPM

Assembly Totals									
BH A	Motor SN	Slide Ftg.	Slide Hrs.	Rot Ftg.	Rot Hrs.	Circ Hrs.	D & C Hrs	BHA Ftg.	Avg ROP

Weather			
Weather Time/Job Time	Temp	Wind Speed	Weather Notes

Day # 1 Breakdown								
Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	Misc. Data
00:00	23:59	23:59:00				0 OTHER		Notes: Stand By

Sandridge

Location Kansas Installation Comanche County
 Field Sec 12 - 33S - 18W Well Donald M Todd 3318 3-12H

Installation Data

Name	Latitude	Longitude	Northing	Easting
Comanche County	N37 10 4E 35	W99 14 10 15	187524 00	1785519 00

Slot Data

Name	North [ft]	East [ft]	Latitude	Longitude	Northing	Easting
Donald M Todd 3318 3-12H	2600 19 ft	2564 17 E	N37 11 12 26	W99 13 35 72	190194 23	1785083 21

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

WELL PROFILE DATA

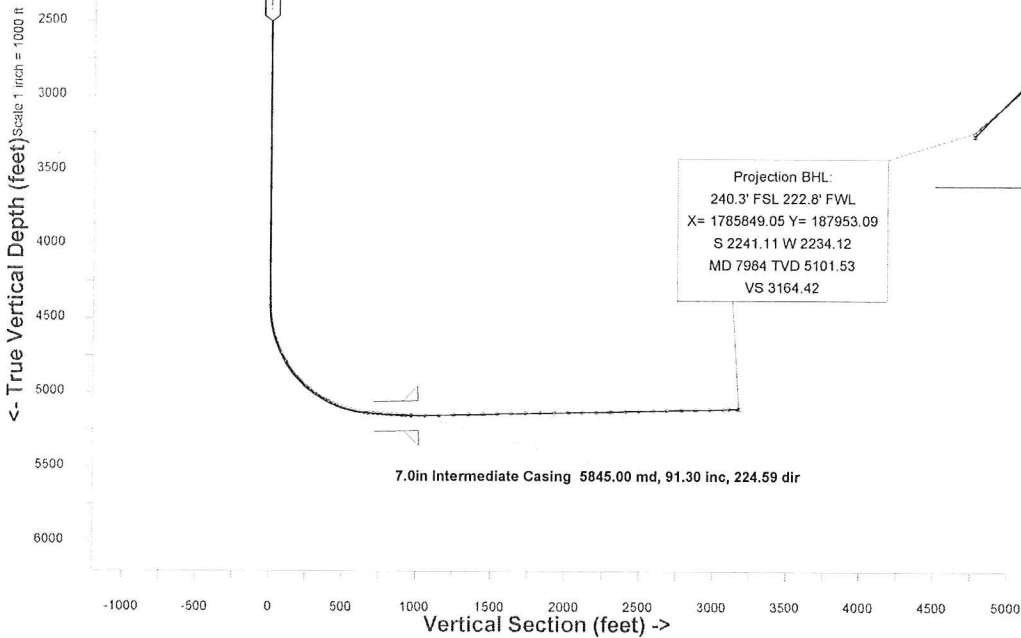
Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	0 00	0 00	224 60	0 00	0 00	0 00	0 00	-0 00
KOP	4419 88	0 00	224 60	4419 88	0 00	0 00	0 00	-0 00
Target Start 250' tang	5494 88	86 00	224 60	5134 33	-474 38	-467 80	8 00	666 24
Target End 250' tangen	5744 88	86 00	224 60	5151 77	-651 95	-642 91	0 00	915 63
Target Landing point @	5797 88	91 30	224 59	5153 02	-669 67	-660 10	10 00	968 60
T.D. & Target W Todd 33	6011 46	91 29	224 63	5103 00	-2265 20	-2234 18	0 00	3181 61

TARGET DATA

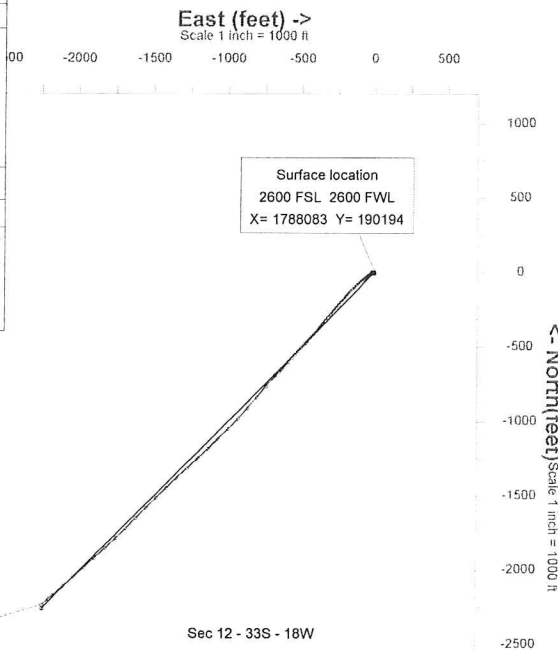
MD	Inc	Azi	TVD	North	East	Name	Position
6011 46	91 29	224 63	5103 00	-2265 20	-2234 18	W Todd 3318 3-12H - BHL	1785849 00 East 187929 00 North
5494 88	86 00	224 60	5134 33	-474 38	-467 80	Start 250' tangent @ 65°	1787615 40 East 189719 85 North
5744 88	86 00	224 60	5151 77	-651 95	-642 91	End 250' tangent @ 68°	1787440 29 East 189542 27 North
5797 88	91 30	224 59	5153 02	-669 67	-660 10	Landing point @ 91.3°	1787403 10 East 189504 55 North



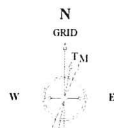
Target line 1/22/14
Target 5175 KBTVD @ 0 VS
91.3° @ 224.6 AZI Plane



Projection BHL:
 240.3' FSL 222.8' FWL
 X= 1785849.05 Y= 187953.09
 S 2241.11 W 2234.12
 MD 7984 TVD 5101.53
 VS 3164.42



Sec 12 - 33S - 18W



21-Jan-2014
 NRP Model [19-0-2015] Dip 45.11 deg Field 31659.3 mT
 Magnetic North is 5.14 deg East of True North
 GRID North is 0.45 deg West of True North
 To convert azimuth from True to GRID add 0.45 deg
 To convert azimuth from Magnetic to GRID add 5.60 deg

Created by: admc
 Date plotted: 18-Feb-2014
 Plot reference is Donald M Todd 3318 3-12H (FWB)
 Ref well path is W Todd 3318 3-12H (FAPFA1)
 Coordinates are in feet reference Donald M Todd 3318 3-12H
 True Vertical Depths are reference Donald M Todd 3318 3-12H
 Measured Depths are reference 5M
 Plot North is aligned to GRID North