

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1247216
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: _____

1247216

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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	Powers 2722 3-2H
Doc ID	1247216

Tops

Name	Top	Datum
Base Anhydrite	2553	
Base Heebner Shale Marker	4147	
Top Lansing Limestone Group	4257	
Top Cherokee Shale Marker (OK)	4656	
Top Fort Scott Limestone	4866	
Top Cherokee Shale Marker (KS)	4902	
Top Morrow Unconformity	5058	
Top Mississippi Unconformity	5116	



INVOICE

DATE	INVOICE #
12/9/2014	5325

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	Start Date	End Date	Work Order	Rig Number	LEASE NAME	Terms
FORD, KS	12/6/2014		3878	LARIAT 20	POWERS 2722 3-2H	Due on rec...

Description	
DRILLED 100' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 100' OF 20" CONDUCTOR PIPE FURNISHED MUD, WATER, AND TRUCKING FURNISHED WELDER AND MATERIALS FURNISHED 10 YARDS OF 10 SACK GROUT FOR CONDUCTOR HOLE FURNISHED 4 YARDS OF 10 SACK GROUT FOR MOUSE HOLE FURNISHED GROUT PUMP DRILL MOUSE HOLE FURNISHED 80' OF 16" CONDUCTOR PIPE TOTAL BID \$21,000.00	

Sales Tax (7.8%)	\$349.59
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TOTAL	\$21,349.59
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ALLIED OIL & GAS SERVICES, LLC 063738

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Great Bend KS

DATE <u>12-29-14</u>	SEC <u>2</u>	TWP. <u>27</u>	RANGE <u>22</u>	CALLED OUT	ON LOCATION <u>8:45 PM</u>	JOB START <u>11:00 AM</u>	JOB FINISH <u>12:00 PM</u>
LEASE <u>Powers 2722</u>		WELL # <u>3-2H</u>	LOCATION <u>Ford KS N to Ridge Rd 1/4 E to CR126</u>		COUNTY <u>Ford</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>5 North To Marshall Rd 1/2 East south into</u>				

CONTRACTOR Lariat 20 OWNER _____

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D.	CEMENT
CASING SIZE <u>9 5/8</u>	DEPTH <u>1280</u>	AMOUNT ORDERED <u>445 SXS 2% Gyp seal + 2% Sms + 2% CC + 1/4 flo seal</u>
TUBING SIZE	DEPTH	<u>130 SXS CLASS A 2% Gel + 2% CC + 1/4 flo seal</u>
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PRES. MAX	MINIMUM	COMMON <u>130 SXS @ 17.90 2327.00</u>
MEAS. LINE	SHOE JOINT	POZMIX @ _____
CEMENT LEFT IN CSG. <u>46.30</u>		GEL <u>5 SXS @ 23.40 117.00</u>
PERFS.		CHLORIDE <u>15 SXS @ 64.00 960.00</u>
DISPLACEMENT <u>95.36 Fresh H2O</u>		ASC @ <u>25.90</u>

EQUIPMENT	445 Allied mult Density cement @ 25.90 <u>11,525.50</u>
	Flo seal: 145 LBS @ <u>2.97 430.65</u>
	Materials Total <u>15360.15</u>
	Disc 30% <u>4608.05</u>

PUMP TRUCK CEMENTER <u>Kevin Eddy</u>	
# <u>597</u> HELPER <u>Toriano Allen</u>	
BULK TRUCK	
# <u>870/844</u> DRIVER <u>Ben Newell</u>	
BULK TRUCK	
# <u>609/239</u> DRIVER <u>Kevin Weighaus</u>	
# <u>366</u> DRIVER <u>Dustin Chambers</u>	
pump	

REMARKS:
On location / Held safety meeting / Rig up
Rig ran 1280ft of 9 5/8 casing. Brake circ w/
Rig mud. Hook To Head and Pressure Test 2000
PSI. Pump SA Head - mix 445 SXS 2% Gyp + 2%
Sms + 2% CC + 1/4 flo. mix 130 SXS CLASS A +
2% Gel + 2% CC + 1/4 flo. Shut Down Release
Plug. Displace 95.36 BBLs Fresh H2O. Land Plug
@ 800 PSI. Release Plug Held. Cement Did
Circ. Rig Down

DEPTH OF JOB <u>1280</u>	<u>2213.75</u>
PUMP TRUCK CHARGE	
EXTRA FOOTAGE @	
MILEAGE Heavy vehicle 40m @ <u>7.70</u>	<u>308.00</u>
MANIFOLD HEAD @ <u>275.00</u>	<u>275.00</u>
AFE Number <u>14345</u>	
Well Name: <u>POWERS 2722 3-2H</u>	
Code: <u>216</u>	
Amount: <u>16,160.36</u>	
Co. Map: <u>Robert White</u>	
Co. Man Sig.: <u>Robert White</u>	

CHARGE TO: SANDridge

STREET _____

CITY _____ STATE _____

Notes: _____

<u>THANK you!</u>	Rubber Plug 1 @ <u>184.86 184.86</u>
	@ _____
	@ _____
	@ _____
	@ _____
	@ _____
	30/30/30/
	TOTAL <u>184.86</u>
	Disc 30% <u>55.46</u>

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.

SALES TAX (If Any) _____

TOTAL CHARGES 23,086.23

DISCOUNT 6925.87 IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE \$16,160.36



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 147940
Invoice Date: Dec 29, 2014
Page: 1

Voice: (817) 546-7282
Fax: (817) 246-3361

Federal Tax I.D.#: 20-8651475

Bill To:
SandRidge Energy Accounts Payable P O Box 1748 Oklahoma City, OK 73102

Customer ID	Field Ticket #	Payment Terms	
SandR	63738	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Dec 29, 2014	1/28/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Powers 2722 #3-2H AFE #DC14335		
130.00	CEMENT MATERIALS	Class A Common	17.90	2,327.00
5.00	CEMENT MATERIALS	Gel	23.40	117.00
15.00	CEMENT MATERIALS	Chloride	64.00	960.00
445.00	CEMENT MATERIALS	Multi Density Cement	25.90	11,525.50
145.00	CEMENT MATERIALS	Flo Seal	2.97	430.65
642.93	CEMENT SERVICE	Cubic Feet Charge	2.48	1,594.47
1,143.84	CEMENT SERVICE	Ton Mileage Charge	2.60	2,973.98
1.00	CEMENT SERVICE	Surface	2,213.75	2,213.75
40.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
1.00	EQUIPMENT SALES	9-5/8 Rubber Plug	184.86	184.86
1.00	CEMENT SUPERVISOR	Kevin Eddy		
1.00	OPERATOR ASSISTANT	Toriano Allen		
1.00	EQUIPMENT OPERATOR	Ben Newell		
1.00	OPERATOR ASSISTANT	Kevin Weighous		
1.00	EQUIPMENT OPERATOR	Dustin Chambers		
1.00	JOB DISCOUNT	Job Discount if paid within terms	6,925.87	-6,925.87

Subtotal	16,160.34
Sales Tax	1,212.52
Total Invoice Amount	17,372.86
Payment/Credit Applied	
TOTAL	17,372.86

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$

ONLY IF PAID ON OR BEFORE
 Jan 28, 2015



SandRidge Energy
Power #2722 3-2H
Ford 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 Power #2722 3-2 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

21 Bbls (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 215 of fresh water. The plug bumped and pressured up to 1350 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.

Stage 1							
INTERVAL:		9515 - 9500					
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71			4
Acid	gelled 15% NE-Fe HCl	20	1500	36			2
Pad	20# Linear Gel	20	3000	71			4
Acid	gelled 15% NE-Fe HCl	20	1500	36			2
Flush	Fresh Water	20	5209	124			6
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7			0
Spot Acid	Fresh Water	20	3173	76			4
TOTAL			17,681	421	0		21.0

Note: flush volumes may be adjusted slightly based on actual set depths. Flush acid with one wellbore volume and then spot 300 gals of acid to the tools at the end of each stage.

Stage 2							
INTERVAL:		9299 - 9284					
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71			4
Acid	gelled 15% NE-Fe HCl	20	1200	29			1
Pad	20# Linear Gel	20	3000	71			4
Acid	gelled 15% NE-Fe HCl	20	1500	36			2
Flush	Fresh Water	20	3394	81			4
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7			0
Spot Acid	Fresh Water	20	3094	74			4
TOTAL			15,487	369	0		18.4

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 3							
INTERVAL:		9035 - 9020					
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71			4
Acid	gelled 15% NE-Fe HCl	20	1200	29			1
Pad	20# Linear Gel	20	3000	71			4
Acid	gelled 15% NE-Fe HCl	20	1500	36			2
Flush	Fresh Water	20	3297	79			4
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7			0
Spot Acid	Fresh Water	20	2997	71			4
TOTAL			15,295	364	0		18.2

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 4							
INTERVAL:		9000 - 8985					
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71			4
Acid	gelled 15% NE-Fe HCl	20	1200	29			1
Pad	20# Linear Gel	20	3000	71			4
Acid	gelled 15% NE-Fe HCl	20	1500	36			2
Flush	Fresh Water	20	3284	78			4
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7			0
Spot Acid	Fresh Water	20	2984	71			4
TOTAL			15,269	364	0		18.2

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 5							
INTERVAL:		8955 - 8940					
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71			4
Acid	gelled 15% NE-Fe HCl	20	1200	29			1
Pad	20# Linear Gel	20	3000	71			4
Acid	gelled 15% NE-Fe HCl	20	1500	36			2
Flush	Fresh Water	20	3268	78			4
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7			0
Spot Acid	Fresh Water	20	2968	71			4
TOTAL			15,236	363	0		18.1

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 6							
INTERVAL:		8885		- 8870			
	Fluid	Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	3242	77		4	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2942	70		4	
TOTAL			15,185	362	0	18.1	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 7							
INTERVAL:		8830		- 8815			
	Fluid	Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	3222	77		4	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2922	70		3	
TOTAL			15,145	361	0	18.0	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 8							
INTERVAL:		8640		- 8625			
	Fluid	Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	3153	75		4	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2853	68		3	
TOTAL			15,006	357	0	17.9	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 9							
INTERVAL:		8575		- 8560			
	Fluid	Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	3129	75		4	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2829	67		3	
TOTAL			14,959	356	0	17.8	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 10							
INTERVAL:		8435 - 8420					
	Fluid	Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	3078	73		4	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2778	66		3	
TOTAL			14,856	354	0	17.7	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 11							
INTERVAL:		8385 - 8370					
	Fluid	Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	3060	73		4	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2760	66		3	
TOTAL			14,820	353	0	17.6	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 12							
INTERVAL:		8156 - 8141					
	Fluid	Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2976	71		4	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2676	64		3	
TOTAL			14,652	349	0	17.4	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 13							
INTERVAL:		8113 - 8098					
	Fluid	Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2961	70		4	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2661	63		3	
TOTAL			14,621	348	0	17.4	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 14							
INTERVAL:		7972 - 7957					
	Fluid	Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2909	69		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2609	62		3	
TOTAL			14,518	346	0	17.3	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 15							
INTERVAL:		7930		- 7915			
	Fluid	Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2894	69		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2594	62		3	
TOTAL			14,487	345	0	17.2	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 16							
INTERVAL:		7740		- 7725			
	Fluid	Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2824	67		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2524	60		3	
TOTAL			14,349	342	0	17.1	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 17							
INTERVAL:		7610		- 7595			
	Fluid	Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2777	66		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2477	59		3	
TOTAL			14,254	339	0	17.0	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 18							
INTERVAL:		7511		- 7496			
	Fluid	Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2741	65		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2441	58		3	
TOTAL			14,181	338	0	16.9	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 19							
INTERVAL:		7375		- 7360			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2691	64		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2391	57		3	
TOTAL			14,082	335	0	16.8	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 20							
INTERVAL:		7335		- 7320			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2676	64		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2376	57		3	
TOTAL			14,053	335	0	16.7	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 21							
INTERVAL:		7237		- 7222			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2641	63		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2341	56		3	
TOTAL			13,981	333	0	16.6	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 22							
INTERVAL:		7115		- 7100			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2596	62		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2296	55		3	
TOTAL			13,892	331	0	16.5	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 23							
INTERVAL:		6990	-	6975			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2550	61		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2250	54		3	
TOTAL			13,801	329	0	16.4	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 24							
INTERVAL:		6900	-	6885			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2517	60		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2217	53		3	
TOTAL			13,735	327	0	16.4	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 25							
INTERVAL:		6820	-	6805			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2488	59		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2188	52		3	
TOTAL			13,677	326	0	16.3	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 26							
INTERVAL:		6720	-	6705			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2452	58		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2152	51		3	
TOTAL			13,603	324	0	16.2	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 27							
INTERVAL:		6675		- 6660			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2435	58		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2135	51		3	
TOTAL			13,571	323	0	16.2	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 28							
INTERVAL:		6604		- 6589			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2409	57		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2109	50		3	
TOTAL			13,519	322	0	16.1	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 29							
INTERVAL:		6515		- 6500			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2377	57		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2077	49		2	
TOTAL			13,454	320	0	16.0	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 30							
INTERVAL:		6452		- 6437			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2354	56		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2054	49		2	
TOTAL			13,408	319	0	16.0	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 31							
INTERVAL:		6402	-	6387			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2336	56		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	2036	48		2	
TOTAL			13,371	318	0	15.9	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 32							
INTERVAL:		6258	-	6243			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2283	54		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	1983	47		2	
TOTAL			13,266	316	0	15.8	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 33							
INTERVAL:		6165	-	6150			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2249	54		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	1949	46		2	
TOTAL			13,198	314	0	15.7	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 34							
INTERVAL:		6133	-	6118			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2237	53		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	1937	46		2	
TOTAL			13,175	314	0	15.7	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 35							
INTERVAL:		6048		- 6033			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2206	53		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	1906	45		2	
TOTAL			13,113	312	0	15.6	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 36							
INTERVAL:		5895		- 5880			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2150	51		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	1850	44		2	
TOTAL			13,001	310	0	15.5	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 37							
INTERVAL:		5810		- 5795			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2119	50		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	1819	43		2	
TOTAL			12,939	308	0	15.4	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:

Stage 38							
INTERVAL:		5765		- 5750			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	2103	50		3	
Spot Acid	Gelled 15% NE-Fe HCl	20	300	7		0	
Spot Acid	Fresh Water	20	1803	43		2	
TOTAL			12,906	307	0	15.4	

Unset tools and move to the next interval. Repeat setting procedure and stimulate interval as follows:



AFE #: DC14335

Stage 39							
INTERVAL:		5697	-	5682			
Fluid		Rate	Vol, gal	Vol, bbl	Prop, lbs	Time, min	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1200	29		1	
Pad	20# Linear Gel	20	3000	71		4	
Acid	gelled 15% NE-Fe HCl	20	1500	36		2	
Flush	Fresh Water	20	3117	74		4	
TOTAL			11,817	281	0	14.1	

TOTAL FRAC JOB VOLUMES: 5,571 bbls 20# LG 4775 bbls fresh water 117,000 gals 15% HCl

Sandridge Energy

Ford County (NAD-27)

Sec 02-T27S-R22W

Powers 2722 3-2H 1L

Wellbore #1

Survey: Drillright MWD Surveys

Standard Survey Report

22 January, 2015

DrillRight

Survey Report

Company: Sandridge Energy	Local Co-ordinate Reference: Well Powers 2722 3-2H 1L
Project: Ford County (NAD-27)	TVD Reference: KB @ 2395.0usft
Site: Sec 02-T27S-R22W	MD Reference: KB @ 2395.0usft
Well: Powers 2722 3-2H 1L	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: EDM 5000.1 Single User Db

Project Ford County (NAD-27)		
Map System: US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)		
Map Zone: Kansas South 1502		

Site Sec 02-T27S-R22W			
Site Position:	Northing: 385,712.00 usft	Latitude:	37° 43' 11.275 N
From: Map	Easting: 1,651,441.00 usft	Longitude:	99° 42' 18.325 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence:	-0.74 °

Well Powers 2722 3-2H 1L			
Well Position	+N/-S 0.0 usft	Northing: 390,617.20 usft	Latitude: 37° 43' 59.925 N
	+E/-W 0.0 usft	Easting: 1,652,661.09 usft	Longitude: 99° 42' 3.927 W
Position Uncertainty	0.0 usft	Wellhead Elevation: 0.0 usft	Ground Level: 2,377.0 usft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/11/2014	5.32	65.47	51,805

Design Wellbore #1					
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth:	0.0		
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	152.37	

Survey Program		Date 1/22/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,344.0	9,748.0	Drillright MWD Surveys (Wellbore #1)	MWD	MWD - Standard

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,344.0	0.50	107.50	1,344.0	-1.8	5.6	4.2	0.04	0.04	0.00	
First Drillright MWD Surveys										
1,531.0	0.70	115.50	1,531.0	-2.5	7.4	5.6	0.12	0.11	4.28	
1,719.0	0.70	153.50	1,719.0	-4.0	9.0	7.7	0.24	0.00	20.21	
1,814.0	1.40	338.60	1,814.0	-3.5	8.8	7.1	2.21	0.74	-184.11	
1,908.0	2.60	328.30	1,907.9	-0.6	7.2	3.9	1.33	1.28	-10.96	
2,001.0	4.00	333.70	2,000.7	4.1	4.7	-1.5	1.54	1.51	5.81	
2,096.0	7.20	332.50	2,095.3	12.4	0.5	-10.7	3.37	3.37	-1.26	
2,191.0	9.60	333.60	2,189.2	24.8	-5.8	-24.6	2.53	2.53	1.16	
2,286.0	9.90	331.50	2,282.9	39.0	-13.2	-40.7	0.49	0.32	-2.21	

DrillRight

Survey Report

Company:	Sandridge Energy	Local Co-ordinate Reference:	Well Powers 2722 3-2H 1L
Project:	Ford County (NAD-27)	TVD Reference:	KB @ 2395.0usft
Site:	Sec 02-T27S-R22W	MD Reference:	KB @ 2395.0usft
Well:	Powers 2722 3-2H 1L	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
2,380.0	9.30	329.70	2,375.6	52.7	-20.9	-56.4	0.71	-0.64	-1.91	
2,474.0	7.00	322.40	2,468.6	63.8	-28.2	-69.6	2.68	-2.45	-7.77	
2,569.0	8.30	322.70	2,562.8	73.8	-35.9	-82.1	1.37	1.37	0.32	
2,664.0	8.50	322.90	2,656.7	84.9	-44.3	-95.7	0.21	0.21	0.21	
2,760.0	8.60	326.90	2,751.7	96.6	-52.5	-109.9	0.63	0.10	4.17	
2,854.0	8.50	327.30	2,844.6	108.3	-60.1	-123.8	0.12	-0.11	0.43	
2,948.0	8.40	325.40	2,937.6	119.8	-67.7	-137.5	0.32	-0.11	-2.02	
3,041.0	8.50	337.10	3,029.6	131.7	-74.3	-151.1	1.85	0.11	12.58	
3,136.0	8.50	338.80	3,123.6	144.7	-79.5	-165.1	0.26	0.00	1.79	
3,230.0	8.70	341.20	3,216.5	157.9	-84.4	-179.0	0.44	0.21	2.55	
3,325.0	8.30	340.20	3,310.5	171.2	-89.0	-192.9	0.45	-0.42	-1.05	
3,420.0	8.50	341.30	3,404.4	184.3	-93.6	-206.7	0.27	0.21	1.16	
3,514.0	8.40	340.40	3,497.4	197.3	-98.1	-220.3	0.18	-0.11	-0.96	
3,609.0	8.20	338.10	3,591.4	210.2	-102.9	-233.9	0.41	-0.21	-2.42	
3,703.0	8.50	332.00	3,684.4	222.5	-108.7	-247.5	0.99	0.32	-6.49	
3,797.0	8.30	330.70	3,777.4	234.6	-115.3	-261.3	0.29	-0.21	-1.38	
3,892.0	8.50	330.00	3,871.4	246.6	-122.2	-275.1	0.24	0.21	-0.74	
3,985.0	8.40	330.70	3,963.4	258.5	-128.9	-288.8	0.15	-0.11	0.75	
4,079.0	8.40	332.70	4,056.4	270.6	-135.4	-302.5	0.31	0.00	2.13	
4,174.0	7.10	330.30	4,150.5	281.9	-141.5	-315.3	1.41	-1.37	-2.53	
4,205.0	5.80	330.80	4,181.3	284.9	-143.2	-318.8	4.20	-4.19	1.61	
4,237.0	3.40	323.00	4,213.2	287.1	-144.6	-321.4	7.73	-7.50	-24.38	
4,269.0	1.30	298.10	4,245.2	288.0	-145.5	-322.6	7.15	-6.56	-77.81	
4,300.0	1.60	183.40	4,276.2	287.7	-145.8	-322.5	7.89	0.97	-370.00	
4,331.0	3.60	159.90	4,307.1	286.4	-145.5	-321.2	7.18	6.45	-75.81	
4,363.0	5.70	153.20	4,339.0	284.0	-144.4	-318.6	6.77	6.56	-20.94	
4,395.0	8.00	151.40	4,370.8	280.6	-142.7	-314.8	7.22	7.19	-5.63	
4,426.0	10.20	151.40	4,401.4	276.3	-140.3	-309.9	7.10	7.10	0.00	
4,457.0	12.40	148.00	4,431.8	271.1	-137.2	-303.8	7.41	7.10	-10.97	
4,488.0	15.10	151.30	4,461.9	264.7	-133.5	-296.5	9.07	8.71	10.65	
4,520.0	17.40	153.50	4,492.6	256.8	-129.4	-287.5	7.44	7.19	6.88	
4,551.0	20.10	154.50	4,522.0	247.8	-125.0	-277.6	8.77	8.71	3.23	
4,583.0	22.80	154.50	4,551.8	237.3	-120.0	-265.9	8.44	8.44	0.00	
4,615.0	25.40	155.20	4,581.0	225.4	-114.5	-252.8	8.17	8.13	2.19	
4,647.0	27.90	155.60	4,609.6	212.4	-108.5	-238.5	7.83	7.81	1.25	
4,678.0	30.80	155.40	4,636.6	198.6	-102.2	-223.3	9.36	9.35	-0.65	
4,709.0	33.90	155.50	4,662.8	183.5	-95.3	-206.7	10.00	10.00	0.32	
4,741.0	36.40	155.20	4,689.0	166.7	-87.6	-188.4	7.83	7.81	-0.94	
4,772.0	39.00	154.70	4,713.5	149.6	-79.6	-169.4	8.44	8.39	-1.61	
4,803.0	41.40	153.60	4,737.2	131.6	-70.8	-149.4	8.07	7.74	-3.55	
4,835.0	43.70	152.40	4,760.7	112.3	-61.0	-127.8	7.62	7.19	-3.75	
4,866.0	45.40	153.50	4,782.8	92.9	-51.1	-106.0	6.02	5.48	3.55	
4,898.0	48.00	154.50	4,804.8	72.0	-40.9	-82.8	8.44	8.13	3.13	

DrillRight

Survey Report

Company:	Sandridge Energy	Local Co-ordinate Reference:	Well Powers 2722 3-2H 1L
Project:	Ford County (NAD-27)	TVD Reference:	KB @ 2395.0usft
Site:	Sec 02-T27S-R22W	MD Reference:	KB @ 2395.0usft
Well:	Powers 2722 3-2H 1L	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,929.0	51.70	154.50	4,824.7	50.6	-30.7	-59.1	11.94	11.94	0.00	
4,960.0	55.80	153.50	4,843.1	28.1	-19.8	-34.1	13.48	13.23	-3.23	
4,992.0	59.30	153.50	4,860.2	4.0	-7.7	-7.1	10.94	10.94	0.00	
5,023.0	61.40	153.50	4,875.6	-20.1	4.3	19.8	6.77	6.77	0.00	
5,055.0	62.10	153.30	4,890.7	-45.3	16.9	48.0	2.26	2.19	-0.63	
5,086.0	64.10	153.40	4,904.7	-70.0	29.3	75.7	6.46	6.45	0.32	
5,117.0	66.70	153.70	4,917.7	-95.3	41.9	103.8	8.43	8.39	0.97	
5,149.0	69.40	153.20	4,929.6	-121.8	55.1	133.5	8.56	8.44	-1.56	
5,181.0	71.60	152.80	4,940.3	-148.7	68.8	163.7	6.98	6.88	-1.25	
5,212.0	73.00	151.60	4,949.7	-174.8	82.6	193.2	5.83	4.52	-3.87	
5,243.0	73.70	151.30	4,958.6	-200.9	96.8	222.9	2.44	2.26	-0.97	
5,275.0	76.50	151.30	4,966.8	-228.0	111.7	253.8	8.75	8.75	0.00	
5,306.0	79.40	151.80	4,973.3	-254.7	126.1	284.1	9.49	9.35	1.61	
5,338.0	82.40	151.60	4,978.4	-282.5	141.1	315.7	9.40	9.38	-0.63	
5,370.0	85.30	151.60	4,981.8	-310.5	156.2	347.5	9.06	9.06	0.00	
5,401.0	86.80	151.00	4,983.9	-337.6	171.1	378.4	5.21	4.84	-1.94	
5,495.0	87.20	150.40	4,988.8	-419.5	217.0	472.3	0.77	0.43	-0.64	
5,589.0	87.60	150.50	4,993.1	-501.2	263.3	566.1	0.44	0.43	0.11	
5,615.0	88.00	149.60	4,994.1	-523.7	276.3	592.1	3.79	1.54	-3.46	
5,668.0	87.80	147.10	4,996.0	-568.8	304.1	644.9	4.73	-0.38	-4.72	
5,762.0	88.60	146.90	4,999.0	-647.6	355.2	738.4	0.88	0.85	-0.21	
5,857.0	90.30	147.70	4,999.9	-727.5	406.6	833.1	1.98	1.79	0.84	
5,952.0	90.80	149.10	4,999.0	-808.4	456.3	927.8	1.56	0.53	1.47	
6,046.0	93.00	151.20	4,995.9	-889.9	503.1	1,021.7	3.23	2.34	2.23	
6,137.0	92.10	154.80	4,991.8	-970.9	544.3	1,112.6	4.07	-0.99	3.96	
6,228.0	92.30	155.40	4,988.3	-1,053.3	582.6	1,203.4	0.69	0.22	0.66	
6,318.0	93.10	155.70	4,984.1	-1,135.2	619.8	1,293.2	0.95	0.89	0.33	
6,410.0	93.00	154.70	4,979.2	-1,218.6	658.4	1,384.9	1.09	-0.11	-1.09	
6,501.0	92.70	153.80	4,974.7	-1,300.4	697.9	1,475.8	1.04	-0.33	-0.99	
6,593.0	90.80	154.60	4,971.9	-1,383.2	737.9	1,567.7	2.24	-2.07	0.87	
6,683.0	90.10	154.00	4,971.2	-1,464.3	776.9	1,657.6	1.02	-0.78	-0.67	
6,774.0	87.70	154.00	4,972.9	-1,546.1	816.8	1,748.6	2.64	-2.64	0.00	
6,866.0	87.90	154.00	4,976.4	-1,628.7	857.1	1,840.5	0.22	0.22	0.00	
6,956.0	89.20	154.10	4,978.7	-1,709.6	896.5	1,930.4	1.45	1.44	0.11	
7,048.0	90.40	153.90	4,979.0	-1,792.3	936.8	2,022.3	1.32	1.30	-0.22	
7,139.0	91.50	153.70	4,977.5	-1,873.9	977.0	2,113.3	1.23	1.21	-0.22	
7,230.0	93.60	154.40	4,973.5	-1,955.7	1,016.7	2,204.2	2.43	2.31	0.77	
7,321.0	92.60	153.20	4,968.6	-2,037.2	1,056.9	2,295.0	1.72	-1.10	-1.32	
7,413.0	91.90	152.70	4,964.9	-2,119.1	1,098.7	2,386.9	0.93	-0.76	-0.54	
7,507.0	90.30	152.70	4,963.1	-2,202.6	1,141.8	2,480.9	1.70	-1.70	0.00	
7,601.0	90.90	152.40	4,962.2	-2,286.0	1,185.1	2,574.9	0.71	0.64	-0.32	
7,695.0	90.20	151.90	4,961.3	-2,369.1	1,229.0	2,668.9	0.92	-0.74	-0.53	
7,790.0	90.80	151.80	4,960.4	-2,452.9	1,273.8	2,763.9	0.64	0.63	-0.11	

DrillRight Survey Report

Company: Sandridge Energy	Local Co-ordinate Reference: Well Powers 2722 3-2H 1L
Project: Ford County (NAD-27)	TVD Reference: KB @ 2395.0usft
Site: Sec 02-T27S-R22W	MD Reference: KB @ 2395.0usft
Well: Powers 2722 3-2H 1L	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,885.0	89.80	151.40	4,959.9	-2,536.4	1,319.0	2,858.9	1.13	-1.05	-0.42	
7,980.0	89.50	150.80	4,960.5	-2,619.6	1,364.9	2,953.9	0.71	-0.32	-0.63	
8,074.0	90.20	150.80	4,960.8	-2,701.6	1,410.8	3,047.8	0.74	0.74	0.00	
8,169.0	89.60	149.90	4,960.9	-2,784.2	1,457.8	3,142.8	1.14	-0.63	-0.95	
8,263.0	90.60	150.20	4,960.8	-2,865.7	1,504.7	3,236.7	1.11	1.06	0.32	
8,358.0	91.30	149.60	4,959.2	-2,947.8	1,552.3	3,331.6	0.97	0.74	-0.63	
8,452.0	87.30	146.90	4,960.3	-3,027.7	1,601.8	3,425.3	5.13	-4.26	-2.87	
8,547.0	89.50	148.10	4,963.0	-3,107.8	1,652.8	3,519.9	2.64	2.32	1.26	
8,641.0	89.80	149.90	4,963.6	-3,188.4	1,701.2	3,613.7	1.94	0.32	1.91	
8,736.0	90.80	151.50	4,963.1	-3,271.2	1,747.7	3,708.7	1.99	1.05	1.68	
8,830.0	91.00	151.10	4,961.6	-3,353.7	1,792.8	3,802.7	0.48	0.21	-0.43	
8,924.0	92.10	152.50	4,959.0	-3,436.5	1,837.2	3,896.6	1.89	1.17	1.49	
9,019.0	92.00	151.40	4,955.6	-3,520.3	1,881.9	3,991.6	1.16	-0.11	-1.16	
9,113.0	92.40	153.00	4,952.0	-3,603.4	1,925.7	4,085.5	1.75	0.43	1.70	
9,209.0	90.40	152.40	4,949.7	-3,688.6	1,969.7	4,181.4	2.18	-2.08	-0.63	
9,302.0	90.90	152.50	4,948.6	-3,771.1	2,012.7	4,274.4	0.55	0.54	0.11	
9,396.0	91.50	151.50	4,946.7	-3,854.1	2,056.8	4,368.4	1.24	0.64	-1.06	
9,490.0	90.80	152.70	4,944.8	-3,937.1	2,100.8	4,462.4	1.48	-0.74	1.28	
9,584.0	91.30	152.00	4,943.1	-4,020.4	2,144.4	4,556.4	0.92	0.53	-0.74	
9,678.0	91.10	153.10	4,941.1	-4,103.8	2,187.7	4,650.4	1.19	-0.21	1.17	
Last Drillright MWD Surveys										
9,748.0	91.10	153.10	4,939.7	-4,166.2	2,219.4	4,720.3	0.00	0.00	0.00	
Projection at TD										

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,344.0	1,344.0	-1.8	5.6	First Drillright MWD Surveys
9,678.0	4,941.1	-4,103.8	2,187.7	Last Drillright MWD Surveys
9,748.0	4,939.7	-4,166.2	2,219.4	Projection at TD

Checked By: _____ Approved By: _____ Date: _____

Section 35
26S 22W

POWERS 2722 2-2H POWERS 2722 3-2H

POWERS 1-2H

Miss Entry: 5116'
-99.701334 37.733077

Top Perf: 5682'
-99.700355 37.731818

Section 2
27S 22W

Ford County

Bottom Perf: 9500'
-99.693630 37.722854

BHL: 9748'
-99.693185 37.722244

1818' FEL

915' FSL

Section 11
27S 22W



Actual Bottom-Hole Location of Powers 2722 3-2H
T&R: 27S 22W
Section: 2, 1818' FEL & 915' FSL
-99.693185 37.722244

1 in = 667 ft

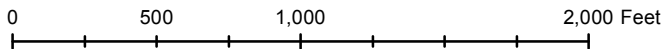


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Dory Deines

Draft Date: 3/25/2015

Drawing Name/Number:

Addendum_Powers 2722 3-2H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502