Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1090256

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 # 34192
Name: SandRidge Exploration and Production LLC
Address 1: 123 ROBERT S. KERR AVE
Address 2:
City: OKLAHOMA CITY State: OK Zip: 73102 + 6406
Contact Person: Tiffany Golay
Phone: (405) 429-6543
CONTRACTOR: License # 34464
Name: Lariat Services, Inc.
Wellsite Geologist: Kathy Gentry
Purchaser: DCp Midstream, LP (gas) NCRA (oil)

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 #:

6/15/2012	8/8/2012	8/12/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-033-21647-01-00
Spot Description:
N2 - N2 - NW - NW Sec. 12 Twp. 34 S. R. 20 ☐ East ☑ West
200 Feet from ☑ North / ☐ South Line of Section
660 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Comanche
Lease Name: Sally 3420 Well #: 1-12H
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1792 Kelly Bushing: 1812
Total Vertical Depth: 9999 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 700 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: 28000 ppm Fluid volume: 1100 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Gray Mud Disposal
Lease Name: Unnamed License #: 00000
Quarter SW Sec. 15 Twp. 24 S. R. 7 ☐ East ☑ West
County: Garfield, OK Permit #: 323003

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: 10/12/2012
☑ **Confidential Release Date:** 10/12/2014
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 10/15/2012

1090256

Operator Name: SandRidge Exploration and Production LLC Lease Name: Sally 3420 Well #: 1-12H

Sec. 12 Twp. 34 S. R. 20 ☐ East ☑ West County: Comanche

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	Depth
Attached	Attached	Attached	Attached

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

Date of First, Resumed Production, SWD or ENHR. 9/16/2012

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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sally 3420 1-12H
Doc ID	1090256

All Electric Logs Run

Final Boresight
CML Impulse Shuttle Compact Array Induction Log
ML 5 in DM Final
CML Impulse Shuttle Compensated Photo-Density Compensated Neutron Log

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sally 3420 1-12H
Doc ID	1090256

Tops

Name	Top	Datum
Base Heebner Shale Marker	4177	
Lansing Ls/Shale Group	4362	
Big Lime	4939	
Oswego Ls Group	4951	
Cherokee Shale Marker	5036	
Miss Unconformity	5143	
Miss 'Layered, Bedded, Karsted'	5163	
Mississippi 'Solid'	5176	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sally 3420 1-12H
Doc ID	1090256

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	11658-12060	4415 bbls water, 36 bbls acid, 75M lbs sd, 4451 TLTR	
5	11239-11601	4358 bbls water, 36 bbls acid, 75M lbs sd, 9096 TLTR	
5	10813-11107	4315 bbls water, 36 bbls acid, 75M lbs sd, 13657 TLTR	
5	10341-10715	4258 bbls water, 36 bbls acid, 74M lbs sd, 17951 TLTR	
5	9892-10239	4265 bbls water, 36 bbls acid, 75M lbs sd, 22252 TLTR	
5	9533-9804	4246 bbls water, 36 bbls acid, 74M lbs sd, 26070 TLTR	
5	9081-9443	4276 bbls water, 36 bbls acid, 76M lbs sd, 30382 TLTR	
5	8542-8910	4240 bbls water, 36 bbls acid, 75M lbs sd, 35921 TLTR	
5	8048-8456	4350 bbls water, 36 bbls acid, 75M lbs sd, 40418 TLTR	
5	7658-7980	4273 bbls water, 36 bbls acid, 75M lbs sd, 44727 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sally 3420 1-12H
Doc ID	1090256

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	7188-7500	4260 bbls water, 36 bbls acid, 75M lbs sd, 49023 TLTR	
5	6723-7080	4216 bbls water, 36 bbls acid, 75M lbs sd, 53275 TLTR	
5	6343-6670	4202 bbls water, 36 bbls acid, 76M lbs sd, 57869 TLTR	
5	5916-6220	4277 bbls water, 36 bbls acid, 75M lbs sd, 62591 TLTR	
5	5390-5761	4144 bbls water, 36 bbls acid, 74M lbs sd, 66819 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sally 3420 1-12H
Doc ID	1090256

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	32	20	75	120	Express Energy Services grout	14	none
Surface	12.25	9.63	36	700	O-Tex Lite Premium Plus 65, Premium Plus (Class C)	670	(6% Gel) 2% Calcium Chloride, 1/4 pps Cello-Flake, .5% C-41P
Intermediate	8.75	7	26	5620	50/50 POZ Premium/ Premium	260	4% Gel, .4% C-12, .1% C37, .5% C-41P, 1 lb/sk Phenoseal
Liner	6.12	4.5	11.6	9999	50/50 Premium Poz	710	(4% gel) .4% C12, .1% C37, .5% C-41P, 2 lb/sk Pheonoseal

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

August 10, 2012

Tiffany Golay
SandRidge Exploration and Production LLC
123 ROBERT S. KERR AVE
OKLAHOMA CITY, OK 73102-6406

Re: ACO1
API 15-033-21647-01-00
Sally 3420 1-12H
NW/4 Sec.12-34S-20W
Comanche County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Tiffany Golay

Express ENERGY SERVICES
P O BOX 843971
DALLAS, TX 75284
Phone # (713)625-7400
Fax # (713)625-7403

TICKET

TICKET NUMBER: 8052-49-1
TICKET DATE: 06/15/2012

ELECTRONIC

SANDRIDGE ENERGY
ODESSA REGION
P.O. BOX 1748
OKLAHOMA CITY, OK 73101-1748

Yard: 8052 OKLAHOMA ELK CITY RATHOLE
Lease: Sally 3420
Well#: 1-12H
Contractor: Lariate
Rig#: 38
Co/St: COMANCHE, KS
Sales Person: EXPRESS ENERGY SERVICES OPERATING

For questions, please call 713-625-7498.

DESCRIPTION	QUANTITY		RATE	AMOUNT
6/15/2012 30" Main Hole (per ft)	120.00	FT		
6/15/2012 Provide Conductor Pipe for Main Hole - 20" (per ft)	120.00	FT	45.000	5,400.00
6/15/2012 20" Mouse Hole (per ft)	75.00	EA		
6/15/2012 Provide Conductor Pipe for Main Hole - 16" (per ft)	75.00	FT	20.000	1,500.00
6/15/2012 Drill 75" hole for cellar (per ft)	6.00	FT		
6/15/2012 72" diameter tin horn for cellar (per ft)	6.00	FT	125.000	750.00
6/15/2012 Site Preparation - Location Cleanup	1.00	HR		
6/15/2012 Running Pipe on Main Hole (100-120ft)	1.00	EA		
6/15/2012 Running Pipe on Deep Mouse Hole	1.00	EA		
6/15/2012 Welding Services (per hour)	1.00	HR		
6/15/2012 Lids for end of pipe	3.00	EA	150.000	450.00
6/15/2012 Cement to grout pipe in hole	14.00	YD	200.000	2,800.00
6/15/2012 Furnish grout pump	1.00	EA		
6/15/2012 Drilling Mud for Hole Stability	1.00	JOB	1,200.000	1,200.00
6/15/2012 NON TAXABLE SERVICES	1.00		14,800.000	14,800.00

Sub Total:	26,900.00
Tax Comanche KS (6.3 %):	782.30
TICKET TOTAL:	$ 27,682.30

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

Approved Signature _____

AFE Number: _____
Well Name: _____
Code: _____
Amount: _____
Co. Man: _____
Co. Man Sig.: _____
Notes: _____

AFE Number: DC-12233
Well Name: Sally 1-12H
Code: 850-010
Amount: $27,682.30
Co. Man: Lawrence Rogers
Co. Man Sig.: [signature]
Notes: _____

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK1654	07/19/12

COUNTY	State	COMPANY	CUSTOMER REP
Comanche	Kansas	dridge Exploration & Produc	FELIX ORTIZ

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
SALLY	1420 1-12	Surface	Robert Burris

EMP NAME							
Robert Burris		0					
Bryan Douglas							
Emmit Brock							
Jessie McClain							

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 80 Pressure _____

Retainer Depth _____ Total Depth 1050

	Called Out	On Location	Job Started	Job Completed
Date	7/19/2012	7/19/2012	7/19/2012	7/20/2012
Time	13:30	17:45	22:56	09:00

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size Grade	From	To	Max. Allow
Casing		36.0	9 5/8	Surface	705	1,500
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			17 1/2"	Surface	710	Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials

Mud Type	WBM	Density 9	Lb/Gal	
Disp. Fluid	Fresh Water	Density 8.33	Lb/Gal	
Spacer type	resh Wate	BBL. 10		8.33
Spacer type		BBL.		
Acid Type		Gal.	%	
Acid Type		Gal.	%	
Surfactant		Gal.	In	
NE Agent		Gal.	In	
Fluid Loss		Gal/Lb	In	
Gelling Agent		Gal/Lb	In	
Fric. Red.		Gal/Lb	In	
MISC.		Gal/Lb	In	
Perfpac Balls		Qty.		
Other				
Other				
Other				
Other				
Other				

Hours On Location

Date	Hours
7/19	16.0
Total	16.0

Operating Hours

Date	Hours
7/20	2.5
Total	2.5

Description of Job

Surface

Pressures

MAX 1,500 PSI AVG. 325

Average Rates in BPM

MAX 6 BPM AVG 5

Cement Left in Pipe

Feet 46 Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	310	TEX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	160	Premium Plus (Class C)	1% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80
3	200	Premium Plus (Class C)	2% Calcium Chloride on side to use if necessary	5.20	1.18	15.60

Summary

Preflush		Type:		Preflush:	BBl	10.00	Type: Fresh Water
Breakdown		MAXIMUM	1,500 PSI	Load & Bkdn:	Gal - BBl	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBl		Calc.Disp Bbl
		Actual TOC	SURFACE	Calc. TOC:		SURFACE	Actual Disp. 51.00
Average		Bump Plug PSI:	950	Final Circ.	PSI:	400	Disp:Bbl 51.00
ISIP	5 Min.	10 Min	15 Min	Cement Slurry:	BBl	107.0	
				Total Volume	BBl	168.00	

CUSTOMER REPRESENTATIVE _____

SIGNATURE

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK1690	07/26/12

COUNTY	State	COMPANY	CUSTOMER REP
COMANCHE	KANSAS	Sandridge Exploration & Production	Roger

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
SALLY	1420 1-12I	Intermediate	Eric parsons

EMP NAME							
Eric parsons		0					
Arthur Setzar							
Rocky Anthis							
Frank reeves							

Form. Name _____ Type: _____

Packer Type _____ Set At 4300'

Bottom Hole Temp. 155 Pressure _____

Retainer Depth _____ Total Depth 5670'

	Called Out	On Location	Job Started	Job Completed
Date	7/26/2012	7/26/2012	7/27/2012	7/27/2012
Time		9:30pm	12:30am	2:45am

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		26#	7"		Surface	5,599	5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 3/4"		Surface	5670'	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	WBM	Density 9	Lb/Gal	
Disp. Fluid	Fresh Water	Density 8.33	Lb/Gal	
Spacer type	resh Wate	BBL. 20		8.33
Spacer type	Caustic	BBL. 10		8.40
Acid Type		Gal.	%	
Acid Type		Gal.	%	
Surfactant		Gal.	In	
NE Agent		Gal.	In	
Fluid Loss		Gal/Lb	In	
Gelling Agent		Gal/Lb	In	
Fric. Red.		Gal/Lb	In	
MISC.		Gal/Lb	In	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Hours On Location

Date	Hours
7/26	4.0
Total	4.0

Operating Hours

Date	Hours
7/26	2.0
Total	2.0

Description of Job

Intermediate

Pressures

MAX 5,000 PSI AVG. 200

Average Rates in BPM

MAX 8 BPM AVG 4

Cement Left in Pipe

Feet 92 Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	160	50/50 POZ PREMIUM	4% Gel - 0.4% C-12 - 0.1% C-37 - 0.5% C-41P - 1 lb/sk Phenoseal	6.77	1.44	13.60
2	100	Premium	0.4% C-12 - 0.1% C-37	5.20	1.18	15.60
3	0	0	0	0.00	0.00	0.00

Summary

Preflush	10	Type:	Fresh water	Preflush:	BBl	30.00	Type: WEIGHTED SP.
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn:	Gal - BBl	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBl	N/A	Calc.Disp Bbl 211
		Actual TOC	4,040	Calc. TOC:		4,051	Actual Disp. 210.00
Average		Bump Plug PSI:	1,250	Final Circ.	PSI:	700	Disp:Bbl
ISIP _____	5 Min. _____	10 Min _____	15 Min _____	Cement Slurry:	BBl	62.0	
				Total Volume	BBl	302.00	

CUSTOMER REPRESENTATIVE _____

SIGNATURE

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK1745	08/[illegible]712

COUNTY	State	COMPANY	CUSTOMER REP
COMANCHE	KANSAS	dridge Exploration & Produc	FELIX ORTIZ JR

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
SALLY	420 1-12	Liner	Larry Kirchner Jr.

EMP NAME		EMP NAME		EMP NAME		EMP NAME	
Larry Kirchner Jr.		Cheryl Newton					
John Hall							
Wallace Berry							
Robert Stonehocker							

Form. Name _____ Type: _____

Packer Type _____ Set At 5,620

Bottom Hole Temp. 160 Pressure _____

Retainer Depth _____ Total Depth 12182

	Called Out	On Location	Job Started	Job Completed
Date	8/10/2012	8/10/2012	8/10/2012	8/10/2012
Time	7:00AM	12:00PM	1:15PM	3:45PM

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	Weatherford
Insert Float Val	0	
Centralizers	0	
Top Plug	0	
HEAD	0	
Limit clamp	0	
Weld-A	0	
Texas Pattern Guide Shoe	0	
Cement Basket	0	

Well Data

	New/Used	Weight	Size Grade	From	To	Max. Allow
Casing	New	11.6	4 1/2	5,200	12,183	3,500
Liner Tool						3,500
HWDP				5,200	1,380	3,500
Drill Pipe			3 1/2"	Surface	1,380'	3,500
Drill Collars						3,500
Open Hole			6 1/8"	Surface	12,183	Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials

Mud Type	WBM	Density 9.1	Lb/Gal	
Disp. Fluid	Fresh Water	Density 8.33	Lb/Gal	
Spacer type	resh Wate	BBL. 20		8.33
Spacer type	Caustic	BBL. 10		8.40
Acid Type		Gal.	%	
Acid Type		Gal.	%	
Surfactant		Gal.	In	
NE Agent		Gal.	In	
Fluid Loss		Gal/Lb	In	
Gelling Agent		Gal/Lb	In	
Fric. Red.		Gal/Lb	In	
MISC.		Gal/Lb	In	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Hours On Location

Date	Hours
8/10	3.8
Total	3.8

Operating Hours

Date	Hours
8/10	2.0
Total	2.0

Description of Job

Liner

Pressures

MAX 3,500 PSI AVG. 500

Average Rates in BPM

MAX 6 BPM AVG 4

Cement Left in Pipe

Feet Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	710	50/50 Premium Poz	(4%Gel) - .4% C12 - .1% C37 - 0.5% C-41P - 2 Lb/Sk Phenoseal	6.77	1.44	13.60
2	0	0	PUMP TIME +/- 3 HRS 20 MINS	0.00	0.00	0.00
3	0	0	0	0.00	0.00	0.00

Summary

Preflush		Type:		Preflush:	BBl	30.00	Type: 8.59#SPACER
Breakdown		MAXIMUM		Load & Bkdn:	Gal - BBl	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBl	N/A	Calc.Disp Bbl 139
		Actual TOC		Calc. TOC:		4,700'	Actual Disp. 137.00
Average		Bump Plug PSI:		Final Circ.	PSI:	1,000	Disp:Bbl
ISIP _____	5 Min. _____	10 Min _____	15 Min _____	Cement Slurry:	BBl	182.0	
				Total Volume	BBl	349.00	

CUSTOMER REPRESENTATIVE _____ SIGNATURE

SandRidge Energy

Comanche County (KS27S)
Sec 12-T34S-R20W
Sally 3420 1-21H

Wellbore #1

Survey: Survey #1

Standard Survey Report

09 August, 2012

Wolverine Directional, LLC

Survey Report

Company:	SandRidge Energy	**Local Co-ordinate Reference:**	Well Sally 3420 1-21H
Project:	Comanche County (KS27S)	**TVD Reference:**	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 12-T34S-R20W	**MD Reference:**	WELL @ 0.0ft (Original Well Elev)
Well:	Sally 3420 1-21H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 2003.21 Single User Db

Design	Wellbore #1			
Audit Notes:				
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.0	0.0	0.0	180.21

Survey Program **Date** 2012/08/09

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
769.0	12,182.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Vertical Section (ft)**	**Dogleg Rate (°/100ft)**	**Build Rate (°/100ft)**	**Turn Rate (°/100ft)**
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
769.0	0.50	208.00	769.0	-3.0	-1.6	3.0	0.07	0.07	0.00
First MWD Survey									
1,043.0	0.80	199.80	1,043.0	-5.8	-2.8	5.8	0.11	0.11	-2.99
1,328.0	0.50	260.00	1,328.0	-7.9	-4.7	7.9	0.25	-0.11	21.12
1,805.0	1.20	221.80	1,804.9	-12.0	-10.1	12.0	0.18	0.15	-8.01
2,091.0	1.30	212.90	2,090.8	-16.9	-13.8	17.0	0.08	0.03	-3.11
2,376.0	0.00	274.70	2,375.8	-19.7	-15.6	19.7	0.46	-0.46	0.00
2,662.0	0.00	268.20	2,661.8	-19.7	-15.6	19.7	0.00	0.00	0.00
2,948.0	0.40	291.30	2,947.8	-19.3	-16.5	19.4	0.14	0.14	0.00
3,231.0	1.20	26.60	3,230.8	-16.3	-16.1	16.3	0.46	0.28	33.67
3,517.0	0.70	39.50	3,516.7	-12.3	-13.6	12.3	0.19	-0.17	4.51
3,802.0	0.70	48.00	3,801.7	-9.8	-11.2	9.8	0.04	0.00	2.98
3,898.0	0.30	185.40	3,897.7	-9.6	-10.8	9.7	0.98	-0.42	143.13
3,992.0	0.60	171.80	3,991.7	-10.3	-10.8	10.4	0.34	0.32	-14.47
4,088.0	0.60	206.30	4,087.7	-11.3	-10.9	11.3	0.37	0.00	35.94
4,183.0	0.30	173.00	4,182.7	-12.0	-11.1	12.0	0.41	-0.32	-35.05
4,247.0	0.40	200.00	4,246.7	-12.4	-11.2	12.4	0.30	0.16	42.19
4,277.0	0.40	198.80	4,276.7	-12.6	-11.3	12.6	0.03	0.00	-4.00
4,309.0	1.00	178.50	4,308.7	-12.9	-11.3	13.0	2.00	1.88	-63.44
4,341.0	3.00	180.30	4,340.7	-14.1	-11.3	14.1	6.25	6.25	5.63
4,372.0	5.70	182.10	4,371.6	-16.4	-11.3	16.5	8.72	8.71	5.81
4,404.0	8.30	182.50	4,403.4	-20.3	-11.5	20.4	8.13	8.13	1.25
4,436.0	10.60	182.30	4,434.9	-25.6	-11.7	25.6	7.19	7.19	-0.63
4,468.0	13.20	181.30	4,466.2	-32.2	-11.9	32.2	8.15	8.13	-3.13
4,499.0	15.80	182.80	4,496.2	-39.9	-12.2	40.0	8.47	8.39	4.84
4,531.0	18.30	183.40	4,526.8	-49.3	-12.7	49.3	7.83	7.81	1.88
4,563.0	20.00	182.80	4,557.1	-59.8	-13.3	59.8	5.35	5.31	-1.88
4,595.0	21.20	181.00	4,587.0	-71.0	-13.7	71.1	4.24	3.75	-5.63
4,627.0	22.50	179.40	4,616.7	-82.9	-13.7	83.0	4.47	4.06	-5.00
4,658.0	25.00	179.30	4,645.1	-95.4	-13.5	95.4	8.07	8.06	-0.32
4,690.0	26.80	180.20	4,673.9	-109.4	-13.5	109.4	5.76	5.63	2.81
4,722.0	28.70	180.60	4,702.2	-124.3	-13.6	124.3	5.97	5.94	1.25
4,753.0	29.60	180.90	4,729.3	-139.4	-13.8	139.4	2.94	2.90	0.97
4,785.0	31.50	180.00	4,756.8	-155.6	-13.9	155.7	6.11	5.94	-2.81
4,817.0	33.50	178.90	4,783.8	-172.8	-13.7	172.9	6.52	6.25	-3.44
4,849.0	35.20	177.40	4,810.2	-190.9	-13.2	190.9	5.93	5.31	-4.69
4,881.0	37.70	177.90	4,836.0	-209.9	-12.4	209.9	7.87	7.81	1.56
4,912.0	39.80	179.40	4,860.1	-229.3	-11.9	229.3	7.42	6.77	4.84

Wolverine Directional, LLC

Survey Report

Company:	SandRidge Energy	**Local Co-ordinate Reference:**	Well Sally 3420 1-21H
Project:	Comanche County (KS27S)	**TVD Reference:**	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 12-T34S-R20W	**MD Reference:**	WELL @ 0.0ft (Original Well Elev)
Well:	Sally 3420 1-21H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,944.0	42.10	179.70	4,884.3	-250.2	-11.8	250.3	7.21	7.19	0.94
4,976.0	44.70	179.60	4,907.6	-272.2	-11.6	272.3	8.13	8.13	-0.31
5,007.0	48.00	179.90	4,928.9	-294.6	-11.5	294.7	10.67	10.65	0.97
5,039.0	50.40	179.70	4,949.9	-318.9	-11.5	318.9	7.51	7.50	-0.63
5,071.0	51.10	179.60	4,970.1	-343.6	-11.3	343.7	2.20	2.19	-0.31
5,103.0	51.00	178.90	4,990.2	-368.5	-11.0	368.6	1.73	-0.31	-2.19
5,135.0	50.60	178.70	5,010.4	-393.3	-10.5	393.4	1.34	-1.25	-0.63
5,166.0	50.50	178.80	5,030.1	-417.3	-9.9	417.3	0.41	-0.32	0.32
5,198.0	50.40	178.00	5,050.5	-441.9	-9.2	442.0	1.95	-0.31	-2.50
5,230.0	49.80	177.70	5,071.0	-466.5	-8.3	466.5	2.01	-1.88	-0.94
5,262.0	50.60	178.10	5,091.5	-491.0	-7.4	491.0	2.68	2.50	1.25
5,293.0	53.30	177.80	5,110.6	-515.4	-6.5	515.4	8.74	8.71	-0.97
5,325.0	56.30	178.70	5,129.1	-541.5	-5.8	541.6	9.65	9.38	2.81
5,357.0	60.70	179.20	5,145.8	-568.8	-5.3	568.8	13.81	13.75	1.56
5,389.0	64.90	180.30	5,160.4	-597.3	-5.1	597.3	13.48	13.13	3.44
5,420.0	68.30	181.30	5,172.7	-625.7	-5.5	625.7	11.36	10.97	3.23
5,452.0	71.30	181.60	5,183.8	-655.7	-6.3	655.8	9.42	9.38	0.94
5,484.0	73.60	181.50	5,193.4	-686.2	-7.1	686.3	7.19	7.19	-0.31
5,516.0	75.70	181.00	5,201.9	-717.1	-7.8	717.1	6.73	6.56	-1.56
5,547.0	78.30	181.20	5,208.9	-747.3	-8.4	747.3	8.41	8.39	0.65
5,579.0	82.20	180.90	5,214.3	-778.8	-9.0	778.8	12.22	12.19	-0.94
5,616.0	85.70	181.10	5,218.2	-815.6	-9.6	815.6	9.47	9.46	0.54
5,697.0	88.00	179.60	5,222.6	-896.5	-10.1	896.5	3.39	2.84	-1.85
5,758.0	88.00	178.80	5,224.8	-957.4	-9.2	957.4	1.31	0.00	-1.31
5,850.0	89.80	178.10	5,226.5	-1,049.4	-6.7	1,049.4	2.10	1.96	-0.76
5,942.0	88.60	177.00	5,227.8	-1,141.3	-2.8	1,141.3	1.77	-1.30	-1.20
6,034.0	90.10	179.10	5,228.9	-1,233.2	0.3	1,233.2	2.80	1.63	2.28
6,126.0	90.50	178.90	5,228.4	-1,325.2	1.9	1,325.2	0.49	0.43	-0.22
6,219.0	89.80	178.90	5,228.1	-1,418.2	3.7	1,418.1	0.75	-0.75	0.00
6,311.0	88.60	178.60	5,229.4	-1,510.1	5.7	1,510.1	1.34	-1.30	-0.33
6,402.0	90.20	179.60	5,230.4	-1,601.1	7.1	1,601.1	2.07	1.76	1.10
6,494.0	89.90	179.20	5,230.3	-1,693.1	8.1	1,693.1	0.54	-0.33	-0.43
6,586.0	89.80	179.30	5,230.5	-1,785.1	9.3	1,785.0	0.15	-0.11	0.11
6,678.0	91.10	179.60	5,229.8	-1,877.1	10.2	1,877.0	1.45	1.41	0.33
6,774.0	90.40	179.20	5,228.6	-1,973.1	11.2	1,973.0	0.84	-0.73	-0.42
6,869.0	90.30	178.30	5,228.0	-2,068.0	13.3	2,068.0	0.95	-0.11	-0.95
6,965.0	90.80	180.60	5,227.1	-2,164.0	14.2	2,164.0	2.45	0.52	2.40
7,061.0	91.50	180.40	5,225.1	-2,260.0	13.4	2,259.9	0.76	0.73	-0.21
7,156.0	91.10	179.80	5,223.0	-2,355.0	13.2	2,354.9	0.76	-0.42	-0.63
7,252.0	90.30	181.00	5,221.8	-2,451.0	12.5	2,450.9	1.50	-0.83	1.25
7,348.0	90.10	180.70	5,221.5	-2,547.0	11.1	2,546.9	0.38	-0.21	-0.31
7,444.0	89.50	181.00	5,221.8	-2,642.9	9.7	2,642.9	0.70	-0.63	0.31
7,539.0	88.70	179.80	5,223.3	-2,737.9	9.0	2,737.9	1.52	-0.84	-1.26
7,660.0	90.00	180.10	5,224.7	-2,858.9	9.1	2,858.9	1.10	1.07	0.25
7,756.0	89.90	179.30	5,224.7	-2,954.9	9.6	2,954.9	0.84	-0.10	-0.83
7,851.0	89.60	182.60	5,225.2	-3,049.9	8.0	3,049.8	3.49	-0.32	3.47
7,946.0	89.60	182.10	5,225.8	-3,144.8	4.1	3,144.8	0.53	0.00	-0.53
8,042.0	89.60	182.30	5,226.5	-3,240.7	0.5	3,240.7	0.21	0.00	0.21
8,137.0	89.80	181.30	5,227.0	-3,335.7	-2.5	3,335.7	1.07	0.21	-1.05
8,233.0	89.60	180.40	5,227.5	-3,431.7	-4.0	3,431.7	0.96	-0.21	-0.94
8,328.0	87.80	181.30	5,229.6	-3,526.6	-5.4	3,526.6	2.12	-1.89	0.95
8,424.0	90.60	181.50	5,231.0	-3,622.6	-7.7	3,622.6	2.92	2.92	0.21
8,520.0	90.90	181.00	5,229.7	-3,718.6	-9.8	3,718.6	0.61	0.31	-0.52
8,615.0	88.00	180.70	5,230.6	-3,813.5	-11.2	3,813.5	3.07	-3.05	-0.32

Wolverine Directional, LLC

Survey Report

Company:	SandRidge Energy	**Local Co-ordinate Reference:**	Well Sally 3420 1-21H
Project:	Comanche County (KS27S)	**TVD Reference:**	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 12-T34S-R20W	**MD Reference:**	WELL @ 0.0ft (Original Well Elev)
Well:	Sally 3420 1-21H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 2003.21 Single User Db

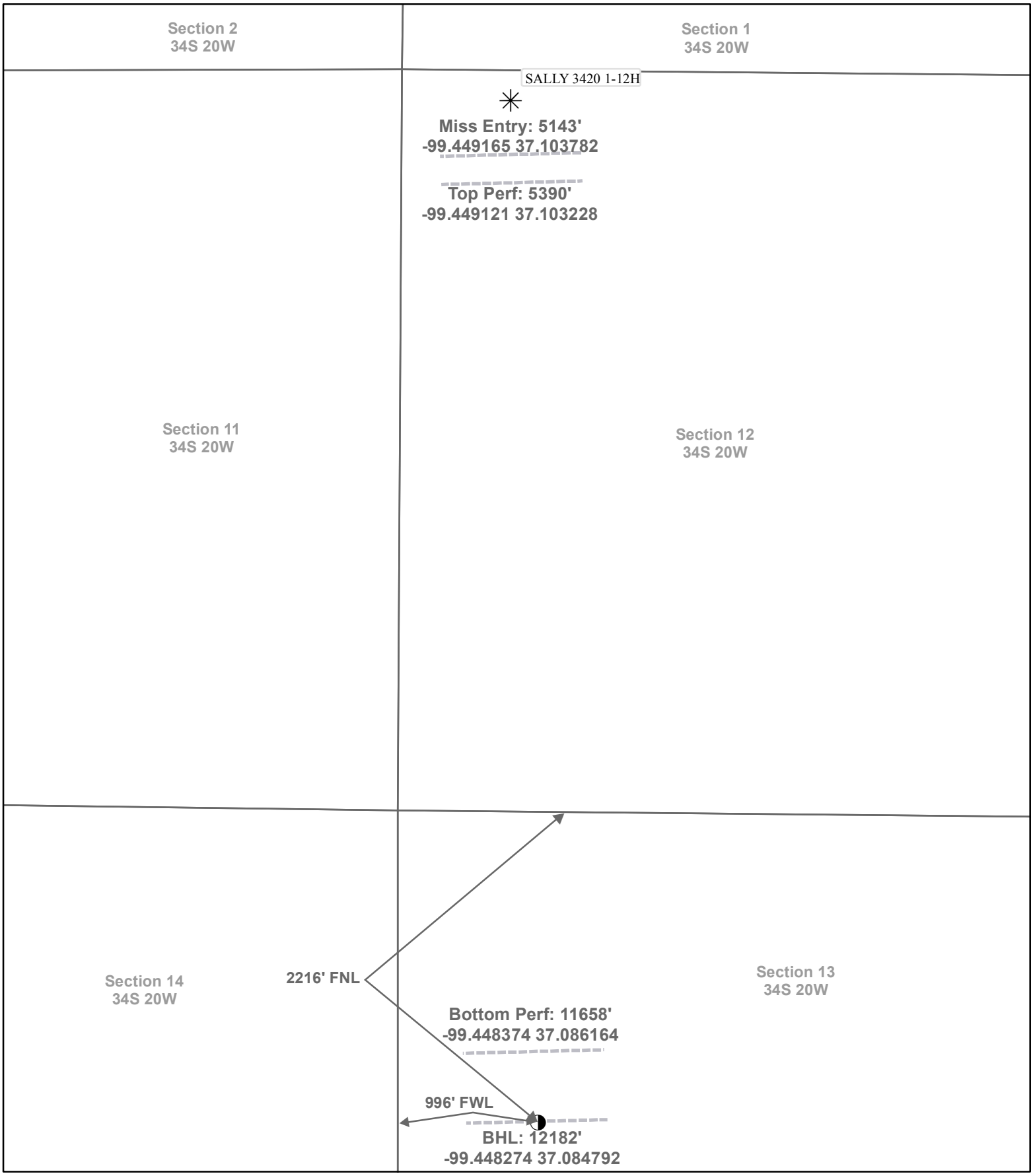
Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,711.0	86.50	180.40	5,235.2	-3,909.4	-12.1	3,909.4	1.59	-1.56	-0.31
8,807.0	88.30	180.80	5,239.6	-4,005.3	-13.1	4,005.3	1.92	1.88	0.42
8,902.0	90.20	180.50	5,240.8	-4,100.3	-14.2	4,100.3	2.02	2.00	-0.32
8,998.0	91.30	181.40	5,239.6	-4,196.3	-15.8	4,196.3	1.48	1.15	0.94
9,094.0	92.10	180.30	5,236.7	-4,292.2	-17.2	4,292.2	1.42	0.83	-1.15
9,190.0	90.70	180.10	5,234.4	-4,388.2	-17.6	4,388.2	1.47	-1.46	-0.21
9,285.0	91.10	180.30	5,232.9	-4,483.2	-17.9	4,483.2	0.47	0.42	0.21
9,381.0	88.70	179.60	5,233.1	-4,579.2	-17.8	4,579.2	2.60	-2.50	-0.73
9,477.0	88.90	179.90	5,235.1	-4,675.1	-17.4	4,675.2	0.38	0.21	0.31
9,573.0	90.00	178.50	5,236.0	-4,771.1	-16.0	4,771.1	1.85	1.15	-1.46
9,669.0	90.40	177.90	5,235.7	-4,867.1	-13.0	4,867.1	0.75	0.42	-0.63
9,764.0	89.70	178.20	5,235.6	-4,962.0	-9.8	4,962.0	0.80	-0.74	0.32
9,860.0	89.40	179.20	5,236.3	-5,058.0	-7.6	5,058.0	1.09	-0.31	1.04
9,956.0	89.70	179.30	5,237.1	-5,154.0	-6.4	5,154.0	0.33	0.31	0.10
10,051.0	90.00	178.70	5,237.3	-5,249.0	-4.7	5,248.9	0.71	0.32	-0.63
10,147.0	90.00	178.00	5,237.3	-5,344.9	-1.9	5,344.9	0.73	0.00	-0.73
10,243.0	91.60	180.40	5,236.0	-5,440.9	-0.6	5,440.9	3.00	1.67	2.50
10,338.0	90.80	181.10	5,234.0	-5,535.9	-1.8	5,535.8	1.12	-0.84	0.74
10,434.0	88.50	180.20	5,234.6	-5,631.8	-2.9	5,631.8	2.57	-2.40	-0.94
10,529.0	88.00	181.10	5,237.5	-5,726.8	-4.0	5,726.8	1.08	-0.53	0.95
10,625.0	87.10	181.10	5,241.6	-5,822.7	-5.9	5,822.7	0.94	-0.94	0.00
10,720.0	88.30	182.30	5,245.4	-5,917.6	-8.7	5,917.6	1.79	1.26	1.26
10,815.0	86.60	180.80	5,249.6	-6,012.4	-11.2	6,012.4	2.39	-1.79	-1.58
10,911.0	90.40	180.70	5,252.2	-6,108.4	-12.5	6,108.4	3.96	3.96	-0.10
11,006.0	90.20	181.10	5,251.7	-6,203.4	-14.0	6,203.4	0.47	-0.21	0.42
11,102.0	90.70	181.10	5,250.9	-6,299.3	-15.8	6,299.3	0.52	0.52	0.00
11,198.0	91.30	180.50	5,249.2	-6,395.3	-17.2	6,395.3	0.88	0.63	-0.63
11,294.0	91.30	180.70	5,247.1	-6,491.3	-18.2	6,491.3	0.21	0.00	0.21
11,390.0	91.30	180.80	5,244.9	-6,587.2	-19.4	6,587.3	0.10	0.00	0.10
11,486.0	89.90	179.30	5,243.9	-6,683.2	-19.5	6,683.3	2.14	-1.46	-1.56
11,581.0	89.80	179.40	5,244.1	-6,778.2	-18.4	6,778.2	0.15	-0.11	0.11
11,677.0	90.60	178.80	5,243.8	-6,874.2	-16.9	6,874.2	1.04	0.83	-0.63
Last MWD Survey									
12,182.0	90.60	178.80	5,238.5	-7,379.1	-6.4	7,379.0	0.00	0.00	0.00
Proj to TD - Sally 3420 1-12H PHBL									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
769.0	769.0	-3.0	-1.6	First MWD Survey
11,677.0	5,243.8	-6,874.2	-16.9	Last MWD Survey
12,182.0	5,238.5	-7,379.1	-6.4	Proj to TD

Checked By: _____ Approved By: _____ Date: _____



SANDRIDGE
THE POWER OF US

Actual BH Location

SandRidge Wells

Perf

Sections

Actual Bottom-Hole Location of Sally 3420 1-12H
Comanche County, Kansas
T&R: 34S 20W
Section: 13, 996' FWL & 2216' FNL
Long/Lat: -99.448274 37.084792

1 in = 908 ft

0 700 1,400 2,800 Feet

N

Draftsman: Aaron Birk	Draft Date: 9/29/2012
Drawing Name/Number: Addendum_Sally_3420_1-12H.mxd	
Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502	

Logo

Back to Well Completion

Sally 3420 1-12H (1090256)

Actions

View PDF
Delete
Edit
Certify & Submit
Request Confidentiality

Attachments

Two Year Confidentiality OPERATOR	View PDF Delete
Cement Reports OPERATOR	View PDF Delete
Directional Survey OPERATOR	View PDF Delete
As Drilled Plat OPERATOR	View PDF Delete

Add Attachment

Remarks

Remarks to KCC	

Add Remar

Remarks

Tiffany Golay 10/12/012 09:39 am	Additional Fluid Mgmt Info: 700 bbls hauled to West OK Disposal, Smith Estate: Well #1, 21-23N-21W, Woodward, OK, 35153206970000 AND 280 bbls hauled to Weinett Disposal LLC, NW/4 Section 1079 , Block 43, Lipscomb, TX, License No 10-0992
Tiffany Golay 08/10/012 11:09 am	TMD= 12.182