



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1211249
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: _____

1211249

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
--	---

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	George 3406 1-9H
Doc ID	1211249

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	4954-4956	Frac-see rep[ort	
5	5058-5060		
5	5130-5132		
5	5328-5330		
5	5404-5406		
5	5496-5498		
5	5553-5555		
5	5602-5604		
5	5696-5698		
5	5760-5762		
5	5820-5822		
5	5883-5885		
5	5946-5948		
5	6029-6031		
5	6121-6123		
5	6200-6202		
5	6282-6284		
5	6376-6378		
5	6460-6462		
5	6530-6532		
5	6608-6610		
5	6684-6686		
5	6752-6754		
5	6829-6831		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	George 3406 1-9H
Doc ID	1211249

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6882-6884		
5	6962-6964		
5	7022-7024		
5	7110-7112		
5	7180-7182		
5	7220-7222		
5	7322-7324		
5	7424-7426		
5	7518-7520		
5	7602-7604		
5	7698-7700		
5	7814-7816		
5	7915-7917		
5	7969-7971		
5	8048-8050		
5	8107-8109		
5	8166-8168		
5	8220-8222		
5	8284-8286		
5	8339-8341		
5	8396-8398		
5	8468-8470		
5	8530-8532		
5	8618-8620		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	George 3406 1-9H
Doc ID	1211249

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8710-8712		
5	8780-8782		
5	8868-8870		
5	8941-8943		
5	8994-8996		
5	9073-9075		
5	9160-9162		
5	9224-9226		
5	9300-9302		
5	9392-9394		

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/18/2014
Job End Date:	4/19/2014
State:	Kansas
County:	Harper
API Number:	15-077-21965-00-00
Operator Name:	SandRidge Energy
Well Name and Number:	George 3406 1-9H
Longitude:	-97.97897000
Latitude:	37.12358000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,554
Total Base Water Volume (gal):	2,289,966
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	95.52889	
Sand, Brown (40/70)	Baker Hughes	Proppant					
			Crystalline Silica: Quartz (SiO2)	14808-60-7	100.00000	2.93842	
HCl, 10.1 - 15%	Baker Hughes	Acidizing					
			Water	7732-18-5	85.00000	0.74004	SmartCare Product
			Hydrochloric Acid	7647-01-0	15.00000	0.13060	SmartCare Product
Preferred Garnet RC 40/70	Baker Hughes	Proppant					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	0.51946	
			Castor Oil	8001-79-4	5.00000	0.02597	
NE-900, tote	Baker Hughes	Non-emulsifier					
			Methanol	67-56-1	30.00000	0.01323	SmartCare Product
			Nonyl phenyl polyethylene glycol ether	9016-45-9	10.00000	0.00441	SmartCare Product
FRW-15DX	Baker Hughes	Friction Reducer					
			Anionic Water-Soluble Polymer	Trade Secret	100.00000	0.01729	
Scaletrol 7208, 330 gl tote	Baker Hughes	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00761	
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	0.00753	SmartCare Product
Ferotrol 300L (Totes)	Baker Hughes	Iron Control					
			Citric Acid	77-92-9	60.00000	0.00284	SmartCare Product
CI-27 (260 gal tote)	Baker Hughes	Corrosion Inhibitor					
			Methanol	67-56-1	60.00000	0.00040	
			Fatty Acids	Trade Secret	30.00000	0.00020	
			Polyoxyalkylenes	Trade Secret	30.00000	0.00020	
			Thiourea Polymer	68527-49-1	30.00000	0.00020	
			Propargyl Alcohol	107-19-7	10.00000	0.00007	
			Olefin	Trade Secret	5.00000	0.00003	
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
		Other Chemicals					
			Water	7732-18-5		0.03766	
			Copolymer	Trade Secret		0.01764	
			Copolymer of Acrylamide and Sodium Acrylate	25987-30-8		0.00301	
			Hydrotreated Light Distillate	64742-47-8		0.00226	
			Diethylene Glycol	111-46-6		0.00127	
			Sorbitan Monooleate	1338-43-8		0.00038	
			Nonyl Phenol Ethoxylate	127087-87-0		0.00038	
			Sodium Chloride	7647-14-5		0.00000	
			Formaldehyde	50-00-0		0.00000	
			Polyacrylate	Trade Secret			
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9			
			Calcium Chloride	10043-52-4			
			Potassium Chloride	7447-40-7			

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

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

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

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



BASIN SERVICES, LLC
 P O BOX 4268
 ABILENE, TX 79608-4268
 Phone # (325)690-0053
 Fax # (325)698-0055

TICKET

TICKET NUMBER: WY-239-1
 TICKET DATE: 02/28/2014

ELECTRONIC

SANDRIDGE ENERGY
 ***** BILL IN ADP!! *****
 123 ROBERT S KERR AVE
 OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK
 LEASE: George 3406
 WELL#: 1-9H
 RIG #: Unit 9
 Co/St: HARPER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
2/26-28/2014 DRILLED 30" CONDUCTOR HOLE			
2/26-28/2014 20" CONDUCTOR PIPE (.250 WALL)			
2/26-28/2014 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
2/26-28/2014 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
2/26-28/2014 DRILLED 20" MOUSE HOLE (PER FOOT)			
2/26-28/2014 16" CONDUCTOR PIPE (.250 WALL)			
2/26-28/2014 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
2/26-28/2014 WELDING SERVICES FOR PIPE & LIDS			
2/26-28/2014 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
2/26-28/2014 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
2/26-28/2014 26 YDS OF 10 SACK GROUT			
2/26-28/2014 TAXABLE ITEMS			6,360.00
2/26-28/2014 BID - TAXABLE ITEMS			10,890.00
		Sub Total:	17,250.00
		Tax HARPER COUNTY (6.15 %):	391.14
		TICKET TOTAL:	<u>\$ 17,641.14</u>

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

Approved Signature _____

JOB SUMMARY			PROJECT NUMBER SOK 3465	TICKET DATE 03/05/14
COUNTY Harper	State Kansas	COMPANY Dridge Exploration & Produc	CUSTOMER REP Ronnie Hagood	
LEASE NAME George 3406	Well No. 1-9H	JOB TYPE Surface	EMPLOYEE NAME marcos quintana	

EMP NAME					
marcos quintana	0				
wallece berry					
nate cotta					
0.00					

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 80 Pressure _____

Retainer Depth _____ Total Depth 650'

Date	Called Out 3/5/2014	On Location 3/5/2014	Job Started 3/5/2014	Job Completed 3/5/2014
Time	300	627	1220	1312

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#	9"		Surface	650'	1,500
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			12 1/4"		Surface	650'	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	WBM	Density	9	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal
Spacer type	Fresh Water	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		

Hours On Location

Date	Hours	Date	Hours	Description of Job
3/5	6.0	3/5	2.0	Surface
Total	6.0	Total	2.0	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Pressures

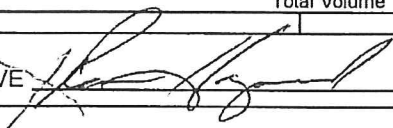
MAX	1,500 PSI	AVG	350PSI
Average Rates in BPM			
MAX	6 BPM	AVG	4
Cement Left in Pipe			
Feet	46	Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	190	EX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	11.11	2.01	12.40
2	130	Premium Plus (Class C)	2% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80
3	*100	Premium Plus (Class C)	*2% Calcium Chloride on side to use if necessary	*6.32	*1.32	*14.8

Summary

Preflush Breakdown	Type: _____	MAXIMUM	1,500 PSI	Preflush:	BBI	10.00	Type: Fresh Water
	Lost Returns-n	NO/FULL		Load & Bkdn:	Gal - BBI	N/A	Pad:Bbl -Gal N/A
	Actual TOC	SURFACE		Excess /Return BBI		43	Calc. Disp Bbl 44
Average	Bump Plug PSI:	800		Calc. TOC:		SURFACE	Actual Disp. 43.00
ISIIP	5 Min.	10 Min.	15 Min.	Final Circ. PSI:		300	Disp:Bbl
				Cement Slurry:	BBI	98.6	
				Total Volume	BBI	151.58	

CUSTOMER REPRESENTATIVE  SIGNATURE

JOB SUMMARY			PROJECT NUMBER SOK 3532	TICKET DATE 03/20/14
COUNTY Harper	State Kansas	COMPANY Sandridge Exploration & Production	CUSTOMER REP Don Waight	
LEASE NAME George 3406	Well No. 1-9H	JOB TYPE Intermediate	EMPLOYEE NAME Eric Parsons	

EMP NAME					
Eric Parsons					
Arthur Setzer					
David Thomas					
Paul Thomas					

Form. Name _____ Type: _____

Packer Type _____ Set At **0**

Bottom Hole Temp. **155** Pressure _____

Retainer Depth _____ Total Depth **5337**

Date	Called Out	On Location	Job Started	Job Completed
		3/20/2014	3/20/2014	3/20/2014
Time		6:00pm	8:30pm	10:30pm

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	
Casing		26#	7"		Surface
Liner					
Liner					
Tubing			0		
Drill Pipe					
Open Hole			8 3/4"		Surface
Perforations					5,337
Perforations					Shots/Ft.
Perforations					

Materials			
	WBM	Density	Lb/Gal
Mud Type	Fresh Water	8.33	
Disp. Fluid	resh Wate	20	8.33
Spacer type	BBL.		
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 **80% Collapse Press. (4,968 PSI)**

Other _____

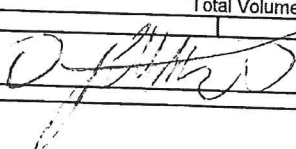
Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
3/20	4.0	3/20	2.0	Intermediate
Total	4.0	Total	2.0	

Pressures	
MAX	5.000 PSI
AVG	300
Average Rates in BPM	
MAX	8 BPM
AVG	4
Cement Left in Pipe	
Feet	86
Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	250	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.2% C-20 - 0.1% C-37 - 0.4% C-41P	6.93	1.43	13.60
2	100	Premium	0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P	5.19	1.19	15.60
3	0	0		0	0.00	0.00

Summary					
Preflush Breakdown	Type: _____	MAXIMUM	5.000 PSI	Preflush: BBI	30.00
	Lost Returns-N	NO/FULL		Load & Bkdn: Gal - BBI	N/A
	TOC LEAD	2.105		Excess /Return BBI	N/A
	Bump Plug PSI:	1.620		TOC TAIL	4.478
Average	10 Min	15 Min		Final Circ. PSI:	940
.SIP	5 Min.			Cement Slurry: BBI	84.9
				Total Volume BBI	313.90

CUSTOMER REPRESENTATIVE *Don Waight* SIGNATURE

JOB SUMMARY				PROJECT NUMBER	TICKET DATE	
COUNTY	State	COMPANY		SOK 3513	03/15/14	
Harper	Kansas	Bridge Exploration & Produc		CUSTOMER REP	Ronnie Hagood	
LEASE NAME	Well No.	JOB TYPE		EMPLOYEE NAME	LOUIS ARNEY	
George 3406	1-9H	Plug Job				
EMP NAME						
Louis Arney	0					
VONTRAY						
David Thomas						
Danny Tewell						
Form. Name _____ Type: _____						
Packer Type _____		Set At _____ 0				
Bottom Hole Temp. 130°		Pressure _____				
Retainer Depth _____		Total Depth _____ 0				
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				
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						
Well Data						
Date	Called Out	On Location	Job Started	Job Completed		
	3/14/2014	3/15/2014	3/15/2014	3/15/2014		
Time	1700	0000	0318	0530		
Casing	New/Used	Weight	Size	Grade	From To Max. Allow	
Liner		0.0	0		Surface 1,500	
Liner						
Tubing			4"			
Drill Pipe						
Open Hole			8 3/4"	Surface	5,000 Shots/Ft.	
Perforations						
Perforations						
Perforations						
Hours On Location						
Date	Location	Hours				
3/15		5.5				
Operating Hours						
Date	Hours					
3/15	1.5					
Description of Job						
Plug Job						
Total	5.5	Total	1.5			
Pressures						
MAX	1,500 PSI	AVG.	100			
Average Rates in BPM						
MAX	6 BPM	AVG	2			
Cement Left in Pipe						
Feet	Reason SHOE JOINT					
Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	255	Premium H	0.5% C-37			
2	0	0		3.77	0.99	17.00
3	0	0		0	0.00	0.00
				0	0.00	0.00
Summary						
Preflush Breakdown	Type:	MAXIMUM	1,500 PSI	Preflush: BBI	10.00	Type: Fresh Water
	Lost Returns-N	NO/FULL		Load & Bkdn: Gal - BBI	N/A	Pad: Bbl - Gal N/A
	Actual TOC	SURFACE		Excess /Return BBI		Calc. Disp Bbl 49
Average	Bump Plug PSI:			Calc. TOC:		Actual Disp. 48.00
'SIP 5 Min.	10 Min	15 Min		Final Circ. PSI:	150	Disp: Bbl
				Cement Slurry: BBI	45.0	
				Total Volume BBI	103.00	
CUSTOMER REPRESENTATIVE 						
SIGNATURE						

Company: Sandridge
Well Name: George 3406 1-9H
Legals: Sec: 4 Township: 34S Range: 6W
County/State: Harper County KS
Rig Name: Unit 9

Customer Rep	Position	Directional Driller	MWD Operator
		John Sartori	Jerry Wilkins
		Bill Wright	

Sidetrack Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
TieInPoint	4313.00	31.60	147.70	4157.23	-144.64	925.39	324.54	8.96	0	0	98.88	936.63
Survey	4375.00	29.10	154.40	4210.74	-171.98	940.59	354.35	6.78	4.03	10.81	100.36	956.18
Survey	4406.00	30.90	160.00	4237.60	-186.26	946.57	369.53	10.73	5.81	18.06	101.13	964.72
Survey	4438.00	32.60	163.00	4264.81	-202.23	951.90	386.23	7.25	5.31	9.37	101.99	973.14
Survey	4469.00	35.10	166.00	4290.55	-218.87	956.50	403.46	9.70	8.06	9.68	102.89	981.22
Survey	4501.00	37.80	168.60	4316.29	-237.41	960.67	422.45	9.72	8.44	8.12	103.88	989.57
Survey	4533.00	40.90	170.30	4341.03	-257.35	964.37	442.73	10.26	9.69	5.31	104.94	998.12
Survey	4564.00	43.90	171.90	4363.92	-278.00	967.60	463.61	10.28	9.68	5.16	106.03	1006.74
Survey	4596.00	46.90	173.20	4386.39	-300.59	970.54	486.34	9.81	9.37	4.06	107.21	1016.02
Survey	4627.00	50.30	174.60	4406.89	-323.71	973.01	509.49	11.48	10.97	4.52	108.40	1025.44
Survey	4659.00	53.80	175.50	4426.56	-348.84	975.18	534.55	11.16	10.94	2.81	109.68	1035.70
Survey	4690.00	57.00	176.60	4444.16	-374.30	976.93	559.86	10.73	10.32	3.55	110.96	1046.18
Survey	4722.00	59.20	176.70	4461.07	-401.41	978.52	586.75	6.88	6.87	0.31	112.30	1057.65
Survey	4754.00	61.70	178.20	4476.85	-429.22	979.75	614.25	8.81	7.81	4.69	113.66	1069.64
Survey	4786.00	64.80	179.30	4491.25	-457.79	980.37	642.38	10.16	9.69	3.44	115.03	1081.99
Survey	4817.00	68.60	179.40	4503.51	-486.25	980.69	670.35	12.26	12.26	0.32	116.37	1094.62
Survey	4849.00	71.90	179.50	4514.33	-516.36	980.98	699.92	10.32	10.31	0.31	117.76	1108.58
Survey	4880.00	75.40	180.20	4523.05	-546.10	981.06	729.09	11.50	11.29	2.26	119.10	1122.81
Survey	4912.00	78.20	180.40	4530.36	-577.26	980.90	759.61	8.77	8.75	0.63	120.48	1138.15
Survey	4944.00	81.80	180.90	4535.91	-608.76	980.54	790.41	11.35	11.25	1.56	121.83	1154.14
Survey	4975.00	84.20	181.70	4539.69	-639.52	979.84	820.43	8.15	7.74	2.58	123.13	1170.07
Survey	5007.00	86.00	182.10	4542.42	-671.38	978.78	851.45	5.76	5.63	1.25	124.45	1186.91
Survey	5039.00	87.50	182.00	4544.24	-703.31	977.64	882.53	4.70	4.69	0.31	125.73	1204.34
Survey	5071.00	87.80	182.20	4545.55	-735.26	976.47	913.62	1.13	0.94	0.62	126.98	1222.33
Survey	5103.00	88.30	182.10	4546.64	-767.22	975.27	944.71	1.59	1.56	0.31	128.19	1240.88
Survey	5135.00	88.50	182.30	4547.53	-799.18	974.04	975.80	0.88	0.63	0.63	129.37	1259.94
Survey	5167.00	88.90	182.00	4548.26	-831.15	972.84	1006.90	1.56	1.25	0.94	130.51	1279.54
Survey	5198.00	89.00	182.10	4548.82	-862.12	971.73	1037.04	0.46	0.32	0.32	131.58	1299.04
Survey	5230.00	89.40	182.20	4549.27	-894.10	970.53	1068.16	1.29	1.25	0.31	132.65	1319.60
Survey	5277.00	89.80	182.20	4549.60	-941.06	968.73	1113.84	0.85	0.85	0.00	134.17	1350.57
Survey	5335.00	90.30	182.10	4549.55	-999.02	966.55	1170.23	0.88	0.86	0.17	135.95	1390.06
Survey	5367.00	90.30	181.80	4549.38	-1031.00	965.46	1201.36	0.94	0.00	0.94	136.88	1412.47
Survey	5462.00	89.80	181.50	4549.30	-1125.96	962.72	1293.91	0.61	0.53	0.32	139.47	1481.42
Survey	5555.00	89.20	181.10	4550.11	-1218.93	960.61	1384.63	0.78	0.65	0.43	141.76	1551.95
Survey	5647.00	88.40	180.70	4552.04	-1310.90	959.17	1474.51	0.97	0.87	0.43	143.81	1624.34
Survey	5738.00	89.30	180.50	4553.87	-1401.88	958.22	1563.51	1.01	0.99	0.22	145.65	1698.07
Survey	5831.00	90.10	180.10	4554.36	-1494.88	957.73	1654.58	0.96	0.86	0.43	147.35	1775.36
Survey	5923.00	89.90	179.50	4554.36	-1586.88	958.05	1744.83	0.69	0.22	0.65	148.88	1853.66
Survey	6015.00	91.30	178.50	4553.40	-1678.86	959.66	1835.32	1.87	1.52	1.09	150.25	1933.78
Survey	6108.00	90.90	178.10	4551.61	-1771.80	962.41	1926.97	0.61	0.43	0.43	151.49	2016.31
Survey	6201.00	90.70	178.50	4550.31	-1864.75	965.17	2018.63	0.48	0.22	0.43	152.63	2099.73
Survey	6294.00	90.40	178.40	4549.42	-1957.71	967.68	2110.26	0.34	0.32	0.11	153.70	2183.81

Sidetrack Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	6385.00	91.20	177.80	4548.15	-2048.65	970.70	2200.00	1.10	0.88	0.66	154.65	2266.99
Survey	6477.00	90.70	177.60	4546.62	-2140.56	974.39	2290.83	0.59	0.54	0.22	155.52	2351.90
Survey	6568.00	90.90	178.20	4545.35	-2231.49	977.72	2380.63	0.69	0.22	0.66	156.34	2436.28
Survey	6661.00	91.80	178.50	4543.16	-2324.42	980.40	2472.26	1.02	0.97	0.32	157.13	2522.72
Survey	6753.00	91.70	178.20	4540.35	-2416.34	983.04	2562.89	0.34	0.11	0.33	157.86	2608.65
Survey	6844.00	92.60	177.90	4536.94	-2507.22	986.13	2652.59	1.04	0.99	0.33	158.53	2694.18
Survey	6938.00	91.70	178.60	4533.41	-2601.11	989.00	2745.20	1.21	0.96	0.74	159.18	2782.79
Survey	7033.00	91.80	178.30	4530.51	-2696.03	991.57	2838.75	0.33	0.11	0.32	159.81	2872.59
Survey	7096.00	90.00	178.20	4529.52	-2758.99	993.49	2900.85	2.86	2.86	0.16	160.20	2932.41
Survey	7127.00	89.00	177.70	4529.79	-2789.97	994.60	2931.44	3.61	3.23	1.61	160.38	2961.95
Survey	7222.00	90.10	178.00	4530.54	-2884.90	998.16	3025.21	1.20	1.16	0.32	160.91	3052.70
Survey	7317.00	90.40	178.60	4530.13	-2979.86	1000.98	3118.85	0.71	0.32	0.63	161.43	3143.49
Survey	7412.00	89.80	177.90	4529.96	-3074.81	1003.88	3212.51	0.97	0.63	0.74	161.92	3234.54
Survey	7506.00	91.10	178.00	4529.22	-3168.75	1007.24	3305.26	1.39	1.38	0.11	162.37	3324.98
Survey	7600.00	90.60	178.40	4527.83	-3262.69	1010.19	3397.93	0.68	0.53	0.43	162.80	3415.50
Survey	7695.00	89.80	177.90	4527.49	-3357.64	1013.26	3491.62	0.99	0.84	0.53	163.21	3507.20
Survey	7791.00	87.80	178.60	4529.50	-3453.57	1016.19	3586.24	2.21	2.08	0.73	163.60	3599.97
Survey	7886.00	87.30	178.70	4533.56	-3548.46	1018.43	3679.70	0.54	0.53	0.11	163.99	3691.72
Survey	7982.00	88.90	180.00	4536.74	-3644.39	1019.51	3773.96	2.15	1.67	1.35	164.37	3784.31
Survey	8076.00	88.90	180.80	4538.54	-3738.37	1018.85	3865.95	0.85	0.00	0.85	164.75	3874.72
Survey	8171.00	89.90	180.80	4539.53	-3833.35	1017.52	3958.80	1.05	1.05	0.00	165.13	3966.10
Survey	8202.00	90.50	180.00	4539.43	-3864.35	1017.31	3989.15	3.23	1.94	2.58	165.25	3996.01
Survey	8265.00	89.40	180.60	4539.48	-3927.35	1016.98	4050.84	1.99	1.75	0.95	165.48	4056.89
Survey	8328.00	90.40	179.90	4539.59	-3990.35	1016.71	4112.55	1.94	1.59	1.11	165.71	4117.84
Survey	8360.00	90.50	179.90	4539.34	-4022.35	1016.76	4143.93	0.31	0.31	0.00	165.81	4148.87
Survey	8454.00	90.80	178.30	4538.27	-4116.33	1018.24	4236.35	1.73	0.32	1.70	166.11	4240.40
Survey	8549.00	89.10	178.20	4538.35	-4211.28	1021.14	4330.00	1.79	1.79	0.11	166.37	4333.31
Survey	8644.00	90.40	178.30	4538.76	-4306.23	1024.04	4423.66	1.37	1.37	0.11	166.62	4426.32
Survey	8708.00	91.40	178.10	4537.75	-4370.19	1026.05	4486.75	1.59	1.56	0.31	166.79	4489.02
Survey	8740.00	91.10	177.50	4537.06	-4402.16	1027.28	4518.34	2.10	0.94	1.88	166.86	4520.43
Survey	8834.00	93.70	178.20	4533.12	-4496.00	1030.80	4611.02	2.86	2.77	0.74	167.09	4612.65
Survey	8898.00	92.90	178.70	4529.44	-4559.87	1032.53	4673.98	1.47	1.25	0.78	167.24	4675.31
Survey	8961.00	90.80	178.50	4527.41	-4622.81	1034.07	4735.98	3.35	3.33	0.32	167.39	4737.05
Survey	8992.00	89.00	178.00	4527.46	-4653.80	1035.02	4766.55	6.03	5.81	1.61	167.46	4767.51
Survey	9024.00	88.30	177.60	4528.21	-4685.77	1036.25	4798.13	2.52	2.19	1.25	167.53	4798.98
Survey	9056.00	87.30	177.40	4529.44	-4717.71	1037.64	4829.72	3.19	3.12	0.62	167.60	4830.47
Survey	9087.00	87.30	177.00	4530.90	-4748.64	1039.16	4860.34	1.29	0.00	1.29	167.66	4861.01
Survey	9118.00	87.90	177.50	4532.20	-4779.58	1040.64	4890.96	2.52	1.94	1.61	167.72	4891.56
Survey	9213.00	87.60	178.00	4535.93	-4874.43	1044.37	4984.68	0.61	0.32	0.53	167.91	4985.06
Survey	9308.00	88.50	178.20	4539.16	-4969.32	1047.52	5078.32	0.97	0.95	0.21	168.10	5078.53
Survey	9402.00	89.40	178.60	4540.89	-5063.27	1050.14	5170.94	1.05	0.96	0.43	168.28	5171.02
Survey	9452.00	87.80	177.90	4542.11	-5113.23	1051.67	5220.22	3.49	3.20	1.40	168.38	5220.26
PrjCalcPnt	9500	87.8	177.9	4543.95	-5161.16	1053.43	5267.55	0	0	0	168.46	5267.57

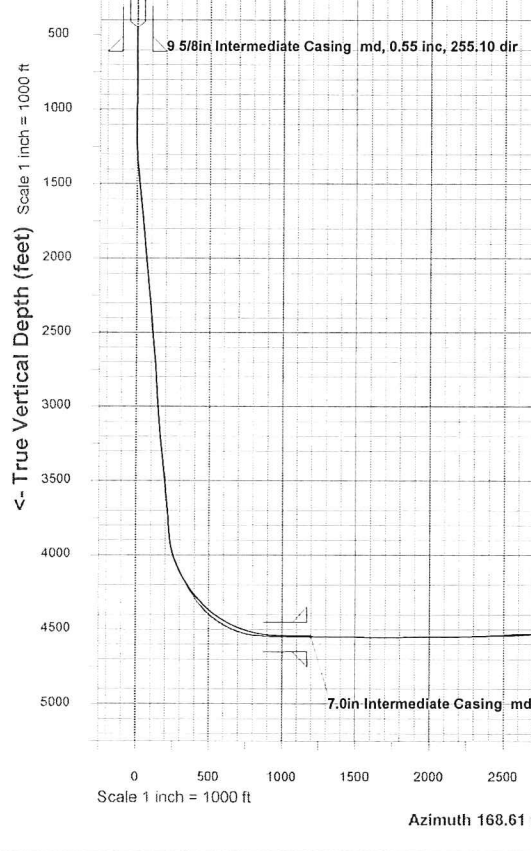
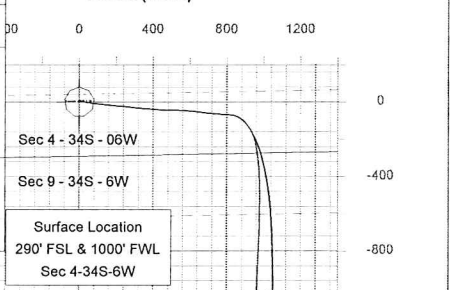
Sandridge

WELL PROFILE DATA

Scale 1 inch = 800 ft
East (feet) ->

Location	Kansas		Slot	George 3406 1-9H		
Field	Sec 4 - 34S - 06W		Well	George 3406 1-9H		
Installation	George		Wellbore	George 3406 1-9H (PWB)		
Installation Data						
Name	Latitude	Longitude	Northing	Easting		
George	N37 6 32.84	W97 59 1.56	161523.00	2150549.00		
Coordinate System Kansas State Planes, Southern Zone						
Slot Data						
Name	North [ft]	East [ft]	Latitude	Longitude	Northing	Easting
George 3406 1-9H	306 99 N	995 97 E	N37 6 35.82	W97 58 49.25	161830.00	2151545.00
Elevation Data						
Slot - Mean Sea Level [ft]	Mean Sea Level - Mudline/Ground level [ft]		Slot - Mudline/Ground level [ft]			
18.00	0.00		18.00			

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
KOP	6477.00	90.70	177.60	4546.62	-2140.56	974.39	0.00	2290.80
Target Hold Section	6603.61	93.00	178.66	4542.53	-2267.03	978.52	2.00	2415.59
Target Drop w/ 2" BRN	6753.61	93.00	178.66	4534.68	-2416.78	982.02	0.00	2563.09
Target Hold Section	6893.61	90.20	178.66	4530.77	-2556.68	985.30	2.00	2700.87
T.D. & Target PBHL Geor	9536.50	90.20	178.67	4521.48	-5198.83	1046.97	0.00	5303.20

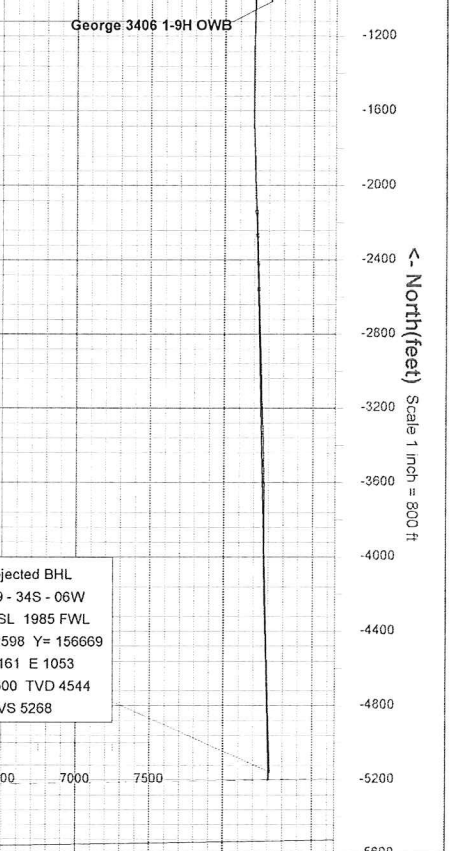


N
GRID

Created by admin
Date plotted 26-Mar-2014

Plot reference is George 3406 1-9H (PWB)
Ref well path is George 3406 1-9H (PWP#1)
Coordinates are in feet reference George 3406 1-9H
True Vertical Depths are reference George 3406 1-9H
Measured Depths are reference Slot
Plot North is aligned to GRID North

26 Feb 2014
IGRF Model (1900-2015) [Dip: 65.18 deg Field: 51679.9 nT]
Magnetic North is 4.34 deg East of True North
GRID North is 0.32 deg East of True North
To correct azimuth from True to GRID subtract 0.32 deg
To correct azimuth from Magnetic to GRID add 4.02 deg



Azimuth 168.61 with reference 0.00 N, 0.00 E from George 3406 1-9H