



Confidentiality Requested:

Yes No

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: _____

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: Yes No

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Gabriel 3305 1-36H
Doc ID	1193463

All Electric Logs Run

Boresight
Prizm
Mud
Induction
Nuclear

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Gabriel 3305 1-36H
Doc ID	1193463

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9052-9165	1500 gals 15% HCl, 5762 bbls sw, TLTR 5945 bbls	
5	8753-8958	1500 gals 15% HCl, 5632 bbls sw, TLTR 11747 bbls	
5	8416-8685	1500 gals 15% HCl, 5656 bbls sw, TLTR 17403 bbls	
5	7998-8348	1500 gals 15% HCl, 6038 bbls sw, TLTR 23604 bbls	
5	7624-7898	1500 gals 15% HCl, 5824 bbls sw, TLTR 29561 bbls	
5	7188-7494	1500 gals 15% HCl, 5530 bbls sw, TLTR 35345 bbls	
5	6822-7118	1500 gals 15% HCl, 5727 bbls sw, TLTR 41161 bbls	
5	6430-6743	1500 gals 15% HCl, 5540 bbls sw, TLTR 46772 bbls	
5	6158-6368	1500 gals 15% HCl, 5363 bbls sw, TLTR 52196 bbls	
5	5710-6060	1500 gals 15% HCl, 5590 bbls sw, TLTR 57838 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Gabriel 3305 1-36H
Doc ID	1193463

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5334-5604	1500 gals 15% HCl, 6485 bbls sw, TLTR 64361 bbls	
5	4963-5100	2016 gals 15% HCl, 4085 bbls sw, TLTR 68446 bbls	

Section 25
33S 5W

Section 30
33S 4W

BHL: 9289'
-97.805168 37.138714

370' FNL

845' FEL

Bottom Perf: 9052'
-97.805134 37.138122

Harper County
Section 36
33S 5W

Sumner County
Section 31
33S 4W

Top Perf: 4963'
-97.804598 37.127058

GABRIEL 3305 1-36H

Miss Entry: 4384'
-97.804843 37.125591

Section 1
34S 5W

Section 6
34S 4W



Actual Bottom-Hole Location of Gabriel 3305 1-36H
Harper County, Kansas
T&R: 33S 5W
Section: 36, 845' FEL & 370' FNL
-97.805168 37.138714

1 in = 667 ft

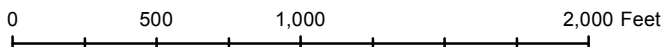


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Naomi Martinez

Draft Date: 3/7/2014

Drawing Name/Number:

Addendum_Gabriel 3306 1-36Hc.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Summary of Changes

Lease Name and Number: Gabriel 3305 1-36H

API/Permit #: 15-077-21979-01-00

Doc ID: 1193463

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	03/06/2014	03/11/2014
Save Link	../kcc/detail/operatorEditDetail.cfm?docID=1192356	../kcc/detail/operatorEditDetail.cfm?docID=1193463

Summary of Attachments

Lease Name and Number: Gabriel 3305 1-36H

API: 15-077-21979-01-00

Doc ID: 1193463

Correction Number: 1

Attachment Name

As Drilled Plat



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1192356
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

CONFIDENTIAL 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: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Gabriel 3305 1-36H
Doc ID	1192356

All Electric Logs Run

Boresight
Prizm
Mud
Induction
Nuclear

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Gabriel 3305 1-36H
Doc ID	1192356

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Form	ACO1 - Well Completion
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Well Name	Gabriel 3305 1-36H
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Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
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5	4963-5100	2016 gals 15% HCl, 4085 bbls sw, TLTR 68446 bbls	



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

TICKET

TICKET NUMBER: WY-158-1
 TICKET DATE: 11/06/2013

ELECTRONIC

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

YARD: WY WAYNOKA OK
 LEASE: Gabriel 3305
 WELL#: 1-36H
 RIG #: Unit 310
 Co/St: HARPER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
11/5-6/2013 DRILLED 30" CONDUCTOR HOLE			
11/5-6/2013 20" CONDUCTOR PIPE (.250 WALL)			
11/5-6/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
11/5-6/2013 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
11/5-6/2013 DRILLED 20" MOUSE HOLE (PER FOOT)			
11/5-6/2013 16" CONDUCTOR PIPE (.250 WALL)			
11/5-6/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
11/5-6/2013 WELDING SERVICES FOR PIPE & LIDS			
11/5-6/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
11/5-6/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
11/5-6/2013 8 YDS OF 10 SACK GROUT			
11/5-6/2013 TAXABLE ITEMS			6,530.00
11/5-6/2013 BID - TAXABLE ITEMS			11,970.00
11/5-6/2013 HOLE COVER			
		Sub Total:	18,500.00
		Tax HARPER COUNTY (6.15 %):	401.60
		TICKET TOTAL:	\$ 18,901.60

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

Approved Signature _____

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 3198597	Quote #:	Sales Order #: 900891322
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Gabriel 3305	Well #: 1-36H	API/UWI #: 15-077-21979	
Field:	City (SAP): BLUFF CITY	County/Parish: Harper	State: Kansas
Legal Description: Section 36 Township 33S Range 5W			
Contractor: UNIT		Rig/Platform Name/Num: 310	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FRENCH, JEREMY		Srvc Supervisor: DAVIS, ROBERT	MBU ID Emp #: 458886

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DAVIS, ROBERT T	4	458886	OTTO, STEVEN Byron	4	505532	STOOPS, LEVI Keith	4	523378

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11-11-2013	4	4						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top Bottom	Called Out	11 - Nov - 2013	11:00 CST
Form Type BHST	On Location	11 - Nov - 2013	17:00 CST
Job depth MD 550. ft Job Depth TVD 550. ft	Job Started	11 - Nov - 2013	19:30 CST
Water Depth Wk Ht Above Floor 6. ft	Job Completed	11 - Nov - 2013	20:20 CST
Perforation Depth (MD) From To	Departed Loc	11 - Nov - 2013	22:30 CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
12.25" Open Hole				12.25				80.	550.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	550.		
Preset Conductor	Unknown		20.	19.124	94.			.	80.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	
Stage Tool										Centralizers			


Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	

Stage/Plug #: 1

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water		10.00	bbl	8.33	.0	.0	.0	
2	Lead Cement	EXTENDACEM (TM) SYSTEM (452981)	190.0	sacks	12.4	2.12	11.68		11.68
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.681 Gal	FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	150.0	sacks	15.6	1.2	5.32		5.32
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5.319 Gal	FRESH WATER							
4	Displacement			bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement	40	Shut In: Instant		Lost Returns	0	Cement Slurry	104	Pad	
Top Of Cement	0	5 Min		Cement Returns	50	Actual Displacement	35	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	149
Rates									
Circulating		Mixing	6	Displacement	6	Avg. Job			6
Cement Left In Pipe	Amount	42 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					
									

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 3198597	Quote #:	Sales Order #: 900891322
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Gabriel 3305	Well #: 1-36H	API/UWI #: 15-077-21979	
Field:	City (SAP): BLUFF CITY	County/Parish: Harper	State: Kansas
Legal Description: Section 36 Township 33S Range 5W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: UNIT		Rig/Platform Name/Num: 310	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FRENCH, JEREMY		Srvc Supervisor: DAVIS, ROBERT	MBU ID Emp #: 458886

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/11/2013 11:00							ON LOCATION @ 1700
Safety Meeting	11/11/2013 13:00							HES, DISCUSS ROUTS AND STOPS
Depart from Service Center or Other Site	11/11/2013 13:30							
Arrive At Loc	11/11/2013 17:00							RUNNING 9 5/8 36# CASING
Other	11/11/2013 17:10							MEET WITH CUSTOMER TO GO OVER NUMBERS
Safety Meeting	11/11/2013 17:30							HES, WATCH FOR PINCH POINTS, TEAM LIFT, USE TAG LINES WHEN NEEDED
Rig-Up Equipment	11/11/2013 18:00							
Other	11/11/2013 18:30							WAIT ON CASING AND CIRC WELL
Safety Meeting	11/11/2013 19:00							ALL ON LOCATION
Test Lines	11/11/2013 19:34							@ 3000 PSI
Pump Spacer	11/11/2013 19:35		4	10			57.0	FRESH WATER
Pump Lead Cement	11/11/2013 19:43		6	72			117.0	EXTENDACEM, 190 SKS @ 12.4#, YEILD @ 2.12, GAL/SK @ 11.68, HOC-350.8-TOL-0
Pump Tail Cement	11/11/2013 19:56		4	32			96.0	SWIFTCEM, 150 SKS @ 15.6#, YEILD @ 1.2, GAL/SK @ 5.32, HOT-207, TOT-350.8
Shutdown	11/11/2013 20:04							

Sold To #: 305021

Ship To #: 3198597

Quote #:

Sales Order #: 900891322

SUMMIT Version: 7.3.0106

Monday, November 11, 2013 09:25:00

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Plug	11/11/2013 20:06							TOP PLUG
Pump Displacement	11/11/2013 20:07		6	30			224.0	FRESH WATER
Other	11/11/2013 20:14		3	10			230.0	SLOW RATE LAST 20 BBL
Bump Plug	11/11/2013 20:15		3				350.0	500 OVER, BUMPED @ 350 TOOK TO 1180
Check Floats	11/11/2013 20:19							FLOATS HELD 1/2 BBL BACK
End Job	11/11/2013 20:20							50 BBLs OF CEMENT RETURNS TO SURFACE
Safety Meeting	11/11/2013 20:30							HES, WATCH FOR PINCH POINTS, TEAM LIFT, USE TAG LINES WHEN NEEDED
Rig-Down Equipment	11/11/2013 21:00							
Safety Meeting	11/11/2013 21:30							HES, DISCUSS ROUTS AND STOPS
Depart Location for Service Center or Other Site	11/11/2013 22:00							THANKS FOR CALLING HALLIBURTON. ROBERT DAVIS AND CREW

HALLIBURTON

REGULATORY DEPT
SANDRIDGE ENERGY

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 3198597	Quote #:	Sales Order #: 900890265
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Gabriel 3305	Well #: 1-36H	API/UWI #: 15-077-21979	
Field:	City (SAP): BLUFF CITY	County/Parish: Harper	State: Kansas
Legal Description: Section 36 Township 33S Range 5W			
Contractor: *UNIT DRILLING*		Rig/Platform Name/Num: 310	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: FRENCH, JEREMY		Srvc Supervisor: OSBORN, JAMES	MBU ID Emp #: 518950

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
APPLEBEE, SCOTT Joy	8	521237	OSBORN, JAMES David	8	518950	Stinnett, Mark	8	502278

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/19/2013	8	2						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top Bottom	Called Out	19 - Nov - 2013	04:00 CST
Form Type	On Location	19 - Nov - 2013	08:00 CST
Job depth MD 5289. ft	Job Started	19 - Nov - 2013	12:47 CST
Water Depth	Job Completed	08 - Nov - 2013	13:54 CST
Perforation Depth (MD) From To	Departed Loc	19 - Nov - 2013	15:15 CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
8.75" Open Hole				8.75				550.	5267.		
7" Intermediate Casing	Unknown	1151	7.	6.276	26.	LTC	P-110	.	5267.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	550.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	7	1	hes
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	7	1	hes
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

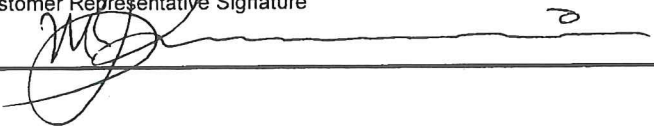
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbf/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

Stage/Plug #: 1

HALLIBURTON

Cementing Job Summary

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	HES Supplied Gel Water		30.00	bbl	8.33	.0	.0	.0		
	1.66 lbm/bbl	CAUSTIC SODA BEADS, 50 LB SK (100003650)								
	10 lbm/bbl	AQUAGEL - 100 LB BAG (101252566)								
2	Lead Cement	ECONOCEM (TM) SYSTEM (452992)	170.0	sacks	13.6	1.53	7.46		7.46	
	0.4 %	HALAD(R)-9, 50 LB (100001617)								
	2 %	BENTONITE, BULK (100003682)								
	7.459 Gal	FRESH WATER								
3	Tail Cement	HALCEM (TM) SYSTEM (452986)	190.0	sacks	15.6	1.18	5.2		5.2	
	0.4 %	HALAD(R)-9, 50 LB (100001617)								
	5.197 Gal	FRESH WATER								
4	Displacement		0.00	bbl	8.33	.0	.0	.0		
Calculated Values			Pressures			Volumes				
Displacement	198	Shut In: Instant		Lost Returns	0	Cement Slurry	85	Pad		
Top Of Cement	2195	5 Min		Cement Returns	0	Actual Displacement	198	Treatment		
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job		
Rates										
Circulating		Mixing		Displacement		Avg. Job				
Cement Left In Pipe	Amount	84 ft	Reason	Shoe Joint						
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID			
The Information Stated Herein Is Correct				Customer Representative Signature						



The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 3198597	Quote #:	Sales Order #: 900890265
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Gabriel 3305	Well #: 1-36H	API/UWI #: 15-077-21979	
Field:	City (SAP): BLUFF CITY	County/Parish: Harper	State: Kansas
Legal Description: Section 36 Township 33S Range 5W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: *UNIT DRILLING*	Rig/Platform Name/Num: 310		
Job Purpose: Cement Intermediate Casing			Ticket Amount:
Well Type: Development Well	Job Type: Cement Intermediate Casing		
Sales Person: FRENCH, JEREMY	Srvc Supervisor: OSBORN, JAMES	MBU ID Emp #: 518950	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/19/2013 04:00							
Pre-Convoy Safety Meeting	11/19/2013 05:30							discuss route and safe driving
Depart from Service Center or Other Site	11/19/2013 05:35							
Arrive At Loc	11/19/2013 08:30							
Assessment Of Location Safety Meeting	11/19/2013 08:35							check location for possible safety concerns, locate water supply, muster point and smoking area, go over job numbers with company man
Wait on Customer or Customer Sub-Contractor Equip	11/19/2013 08:45							customer running casing, rigging down casing crew
Pre-Rig Up Safety Meeting	11/19/2013 09:00							discuss task at hand and safe work actions
Rig-Up Equipment	11/19/2013 09:10							
Pre-Job Safety Meeting	11/19/2013 12:40							discuss job parameters with al hands and discuss safety concerns and issues
Pressure Test	11/19/2013 12:45							test hes lines to 5000 psi
Pump Spacer	11/19/2013 12:47		5	30	30		220.0	pump 30 bbl gel caustic spacer
Pump Lead Cement	11/19/2013 12:57		5	46	46		241.0	pump 170sks of cement mixed @ 13.6 totalling 46.32bbl
Pump Tail Cement	11/19/2013 13:10		5	39	39		160.0	pump 190sks of cement mixed @ 15.6 totalling 39.93bbl

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Plug	11/19/2013 13:20							
Pump Displacement	11/19/2013 13:24		6	198	198		400.0	pump 198bbl of rig supplied fresh water
Bump Plug	11/19/2013 13:51						600.0	bumped plug @ 600psi took 500 over to 1151psi
Check Floats	11/19/2013 13:54						1151.0	floats held 1 bbl back to truck when released
Pre-Rig Down Safety Meeting	11/19/2013 14:05							discuss task to be done and safe work actions
Rig-Down Equipment	11/19/2013 14:20							
Pre-Convoy Safety Meeting	11/19/2013 15:15							discuss route to be taken and safe driving
Depart from Service Center or Other Site	11/19/2013 15:30							

Sold To # : 305021

Ship To # : 3198597

Quote # :

Sales Order # : 900890265

SUMMIT Version: 7.3.0106

Tuesday, November 19, 2013 02:46:00



Company: SandRidge
 Well: Gabriel 3305 1-36H
 Location: Harper County KS
 Rig: Unit 310

Job Number: 5939820
 Magnetic Decl.: 4.34
 Grid Corr.: 0.43
 Total Grid Corr.: 3.91

Calculation Method Minimum Curvature
 Proposed Azimuth 358.7
 Depth Reference _____
 Tie Into: _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Tie In Coordinates														
Tie In	0	0.00	0.00	N 0.0 E	0	0	0	0 N	0 W					
MWD	0	0.00	0.00	N 0.0 E	0	0.00	0.00	0.00 N	0.00 E	0.00	0.00	#DIV/0!	#DIV/0!	#DIV/0!
MWD	18	0.00	0.00	N 0.0 E	18	18.00	0.00	0.00 N	0.00 E	0.00	0.00	0.00	0.00	0.00
MWD	250	0.50	82.46	N 82.5 E	232	250.00	0.11	0.13 N	1.00 E	1.01	82.46	0.22	0.22	35.54
MWD	549	0.50	82.46	N 82.5 E	299	548.99	0.39	0.48 N	3.59 E	3.62	82.46	0.00	0.00	0.00
MWD	611	0.66	82.46	N 82.5 E	62	610.98	0.46	0.56 N	4.21 E	4.25	82.46	0.26	0.26	0.00
MWD	642	0.65	135.92	S 44.1 E	31	641.98	0.35	0.45 N	4.51 E	4.53	84.25	1.90	-0.03	172.45
MWD	673	0.69	154.86	S 25.1 E	31	672.98	0.05	0.16 N	4.71 E	4.72	88.06	0.72	0.13	61.10
MWD	705	1.10	169.90	S 10.1 E	32	704.97	-0.43	0.32 S	4.85 E	4.86	93.75	1.47	1.28	47.00
MWD	736	1.41	173.78	S 6.2 E	31	735.97	-1.10	0.99 S	4.94 E	5.04	101.32	1.04	1.00	12.52
MWD	767	1.83	180.98	S 1.0 W	31	766.95	-1.98	1.86 S	4.98 E	5.31	110.53	1.50	1.35	23.23
MWD	798	2.16	183.87	S 3.9 W	31	797.94	-3.05	2.94 S	4.93 E	5.74	120.83	1.11	1.06	9.32
MWD	829	2.52	188.09	S 8.1 W	31	828.91	-4.31	4.20 S	4.79 E	6.37	131.23	1.29	1.16	13.61
MWD	860	3.11	194.66	S 14.7 W	31	859.87	-5.79	5.69 S	4.48 E	7.24	141.75	2.17	1.90	21.19
MWD	892	3.82	198.62	S 18.6 W	32	891.81	-7.62	7.54 S	3.92 E	8.50	152.50	2.34	2.22	12.38
MWD	954	5.06	205.34	S 25.3 W	62	953.63	-12.01	11.97 S	2.09 E	12.15	170.08	2.17	2.00	10.84
MWD	1017	6.33	215.63	S 35.6 W	63	1016.32	-17.27	17.30 S	1.12 W	17.34	183.70	2.58	2.02	16.33
MWD	1079	6.76	225.91	S 45.9 W	62	1077.91	-22.48	22.62 S	5.73 W	23.33	194.22	2.01	0.69	16.58
MWD	1141	7.08	231.11	S 51.1 W	62	1139.46	-27.29	27.56 S	11.33 W	29.79	202.34	1.13	0.52	8.39
MWD	1203	7.10	230.93	S 50.9 W	62	1200.99	-31.97	32.37 S	17.27 W	36.69	208.09	0.05	0.03	-0.29
MWD	1265	6.73	230.16	S 50.2 W	62	1262.54	-36.58	37.11 S	23.04 W	43.68	211.83	0.62	-0.60	-1.24
MWD	1328	7.46	233.47	S 53.5 W	63	1325.06	-41.24	41.91 S	29.16 W	51.06	214.83	1.33	1.16	5.25
MWD	1390	8.15	233.58	S 53.6 W	62	1386.48	-46.09	46.92 S	35.93 W	59.09	217.45	1.11	1.11	0.18
MWD	1452	7.59	230.42	S 50.4 W	62	1447.90	-51.15	52.13 S	42.62 W	67.34	219.27	1.14	-0.90	-5.10
MWD	1515	7.77	229.28	S 49.3 W	63	1510.33	-56.44	57.56 S	49.06 W	75.63	220.44	0.37	0.29	-1.81
MWD	1579	7.24	228.39	S 48.4 W	64	1573.78	-61.79	63.06 S	55.35 W	83.91	221.27	0.85	-0.83	-1.39
MWD	1642	6.88	226.39	S 46.4 W	63	1636.31	-66.90	68.30 S	61.05 W	91.61	221.79	0.69	-0.57	-3.17
MWD	1705	7.21	230.26	S 50.3 W	63	1698.83	-71.90	73.43 S	66.82 W	99.29	222.30	0.92	0.52	6.14
MWD	1768	6.92	232.57	S 52.6 W	63	1761.35	-76.59	78.27 S	72.88 W	106.94	222.96	0.64	-0.46	3.67
MWD	1832	6.96	230.60	S 50.6 W	64	1824.88	-81.26	83.07 S	78.94 W	114.59	223.54	0.38	0.06	-3.08
MWD	1895	7.28	232.50	S 52.5 W	63	1887.40	-85.97	87.92 S	85.05 W	122.33	224.05	0.63	0.51	3.02
MWD	1958	6.70	229.56	S 49.6 W	63	1949.93	-90.65	92.74 S	91.02 W	129.94	224.46	1.08	-0.92	-4.67
MWD	2022	6.57	227.61	S 47.6 W	64	2013.50	-95.41	97.63 S	96.56 W	137.31	224.69	0.41	-0.20	-3.05
MWD	2085	6.74	225.70	S 45.7 W	63	2076.08	-100.30	102.64 S	101.87 W	144.61	224.78	0.44	0.27	-3.03



Company: SandRidge
 Well: Gabriel 3305 1-36H
 Location: Harper County KS
 Rig: Unit 310

Job Number: 5939820
 Magnetic Decl.: 4.34
 Grid Corr.: 0.43
 Total Grid Corr.: 3.91

Calculation Method Minimum Curvature
 Proposed Azimuth 358.7
 Depth Reference _____
 Tie Into: _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
MWD	2148	6.32	227.25	S 47.3 W	63	2138.67	-105.12	107.58 S	107.06 W	151.77	224.86	0.72	-0.67	2.46
MWD	2211	6.34	230.09	S 50.1 W	63	2201.28	-109.59	112.16 S	112.28 W	158.70	225.03	0.50	0.03	4.51
MWD	2275	6.37	232.13	S 52.1 W	64	2264.89	-113.91	116.61 S	117.79 W	165.75	225.29	0.36	0.05	3.19
MWD	2338	7.12	234.55	S 54.6 W	63	2327.45	-118.18	121.02 S	123.73 W	173.07	225.63	1.27	1.19	3.84
MWD	2401	7.54	238.03	S 58.0 W	63	2389.94	-122.48	125.47 S	130.42 W	180.97	226.11	0.97	0.67	5.52
MWD	2465	7.51	235.58	S 55.6 W	64	2453.39	-126.91	130.06 S	137.43 W	189.21	226.58	0.50	-0.05	-3.83
MWD	2528	7.27	236.34	S 56.3 W	63	2515.86	-131.29	134.59 S	144.14 W	197.21	226.96	0.41	-0.38	1.21
MWD	2591	6.77	233.78	S 53.8 W	63	2578.39	-135.55	139.00 S	150.46 W	204.84	227.27	0.94	-0.79	-4.06
MWD	2654	6.44	231.54	S 51.5 W	63	2640.97	-139.81	143.39 S	156.22 W	212.05	227.45	0.66	-0.52	-3.56
MWD	2717	5.78	235.39	S 55.4 W	63	2703.62	-143.69	147.39 S	161.60 W	218.72	227.63	1.23	-1.05	6.11
MWD	2780	4.60	234.11	S 54.1 W	63	2766.36	-146.86	150.67 S	166.25 W	224.37	227.81	1.88	-1.87	-2.03
MWD	2875	2.90	238.74	S 58.7 W	95	2861.15	-150.22	154.15 S	171.39 W	230.52	228.03	1.82	-1.79	4.87
MWD	2970	1.53	247.88	S 67.9 W	95	2956.08	-151.88	155.88 S	174.62 W	234.08	228.25	1.48	-1.44	9.62
MWD	3002	0.91	246.58	S 66.6 W	32	2988.07	-152.12	156.14 S	175.25 W	234.72	228.30	1.94	-1.94	-4.06
MWD	3065	1.01	244.67	S 64.7 W	63	3051.06	-152.54	156.58 S	176.21 W	235.73	228.38	0.17	0.16	-3.03
MWD	3160	0.36	293.84	N 66.2 W	95	3146.05	-152.75	156.81 S	177.24 W	236.66	228.50	0.86	-0.68	51.76
MWD	3255	0.22	140.90	S 39.1 E	95	3241.05	-152.77	156.83 S	177.40 W	236.79	228.52	0.59	-0.15	-160.99
MWD	3350	0.58	122.48	S 57.5 E	95	3336.05	-153.18	157.23 S	176.88 W	236.66	228.37	0.40	0.38	-19.39
MWD	3445	0.50	154.07	S 25.9 E	95	3431.05	-153.82	157.87 S	176.29 W	236.65	228.16	0.32	-0.08	33.25
MWD	3540	0.33	113.61	S 66.4 E	95	3526.04	-154.32	158.35 S	175.86 W	236.65	228.00	0.35	-0.18	-42.59
MWD	3634	0.26	198.97	S 19.0 W	94	3620.04	-154.63	158.66 S	175.68 W	236.72	227.92	0.43	-0.07	90.81
MWD	3729	0.29	122.05	S 58.0 E	95	3715.04	-154.97	158.99 S	175.55 W	236.84	227.83	0.36	0.03	-80.97
MWD	3793	0.66	350.38	N 9.6 W	64	3779.04	-154.69	158.71 S	175.47 W	236.60	227.87	1.37	0.58	356.77
MWD	3824	1.88	354.16	N 5.8 W	31	3810.03	-154.01	158.03 S	175.56 W	236.21	228.01	3.94	3.94	12.19
MWD	3856	3.32	349.94	N 10.1 W	32	3842.00	-152.57	156.59 S	175.77 W	235.41	228.30	4.54	4.50	-13.19
MWD	3888	5.11	350.81	N 9.2 W	32	3873.91	-150.24	154.28 S	176.16 W	234.17	228.79	5.60	5.59	2.72
MWD	3919	6.50	350.13	N 9.9 W	31	3904.75	-147.14	151.18 S	176.68 W	232.54	229.45	4.49	4.48	-2.19
MWD	3983	9.87	353.77	N 6.2 W	64	3968.09	-138.09	142.16 S	177.90 W	227.72	231.37	5.32	5.27	5.69
MWD	4015	12.08	358.53	N 1.5 W	32	3999.51	-132.01	136.08 S	178.28 W	224.28	232.65	7.46	6.91	14.88
MWD	4046	14.84	3.25	N 3.3 E	31	4029.65	-124.80	128.88 S	178.14 W	219.87	234.12	9.58	8.90	15.23
MWD	4078	17.24	6.37	N 6.4 E	32	4060.40	-116.02	120.07 S	177.38 W	214.20	235.91	7.97	7.50	9.75
MWD	4110	20.05	9.34	N 9.3 E	32	4090.72	-105.92	109.94 S	175.96 W	207.49	238.00	9.27	8.78	9.28
MWD	4141	22.75	10.60	N 10.6 E	31	4119.58	-94.83	98.81 S	174.00 W	200.10	240.41	8.83	8.71	4.06
MWD	4173	25.72	10.96	N 11.0 E	32	4148.76	-81.99	85.90 S	171.54 W	191.85	243.40	9.29	9.28	1.13
MWD	4204	28.32	11.24	N 11.2 E	31	4176.37	-68.24	72.09 S	168.83 W	183.57	246.88	8.40	8.39	0.90



Company: SandRidge
 Well: Gabriel 3305 1-36H
 Location: Harper County KS
 Rig: Unit 310

Job Number: 5939820
 Magnetic Decl.: 4.34
 Grid Corr.: 0.43
 Total Grid Corr.: 3.91

Calculation Method Minimum Curvature
 Proposed Azimuth 358.7
 Depth Reference _____
 Tie Into: _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
MWD	4236	30.80	12.00	N 12.0 E	32	4204.21	-52.85	56.63 S	165.64 W	175.06	251.13	7.84	7.75	2.38
MWD	4267	33.55	11.79	N 11.8 E	31	4230.44	-36.78	40.47 S	162.24 W	167.22	255.99	8.88	8.87	-0.68
MWD	4299	36.14	12.05	N 12.1 E	32	4256.70	-18.99	22.59 S	158.47 W	160.07	261.89	8.11	8.09	0.81
MWD	4330	39.06	11.98	N 12.0 E	31	4281.26	-0.58	4.09 S	154.53 W	154.58	268.48	9.42	9.42	-0.23
MWD	4362	42.36	11.92	N 11.9 E	32	4305.51	19.73	16.33 N	150.21 W	151.09	276.20	10.31	10.31	-0.19
MWD	4394	45.27	11.55	N 11.6 E	32	4328.60	41.31	38.02 N	145.71 W	150.58	284.62	9.13	9.09	-1.16
MWD	4425	47.99	11.01	N 11.0 E	31	4349.89	63.31	60.12 N	141.30 W	153.56	293.05	8.87	8.77	-1.74
MWD	4457	50.97	9.64	N 9.6 E	32	4370.68	87.13	84.04 N	136.95 W	160.68	301.54	9.86	9.31	-4.28
MWD	4488	53.45	9.18	N 9.2 E	31	4389.67	111.20	108.21 N	132.94 W	171.42	309.14	8.09	8.00	-1.48
MWD	4520	55.68	9.18	N 9.2 E	32	4408.22	136.84	133.95 N	128.78 W	185.82	316.13	6.97	6.97	0.00
MWD	4552	58.02	9.84	N 9.8 E	32	4425.72	163.15	160.37 N	124.36 W	202.94	322.21	7.51	7.31	2.06
MWD	4583	60.24	9.86	N 9.9 E	31	4441.63	189.25	186.58 N	119.80 W	221.74	327.30	7.16	7.16	0.06
MWD	4615	63.13	10.46	N 10.5 E	32	4456.80	216.86	214.31 N	114.83 W	243.14	331.82	9.18	9.03	1.88
MWD	4647	65.60	10.17	N 10.2 E	32	4470.65	245.12	242.69 N	109.67 W	266.32	335.68	7.76	7.72	-0.91
MWD	4678	68.04	9.93	N 9.9 E	31	4482.85	273.06	270.75 N	104.70 W	290.29	338.86	7.90	7.87	-0.77
MWD	4710	69.22	9.10	N 9.1 E	32	4494.51	302.33	300.14 N	99.77 W	316.29	341.61	4.41	3.69	-2.59
MWD	4774	72.59	7.56	N 7.6 E	64	4515.44	361.94	359.97 N	91.02 W	371.30	345.81	5.74	5.27	-2.41
MWD	4806	75.49	7.76	N 7.8 E	32	4524.24	392.33	390.46 N	86.92 W	400.02	347.45	9.08	9.06	0.63
MWD	4837	78.14	8.12	N 8.1 E	31	4531.31	422.12	420.35 N	82.75 W	428.42	348.86	8.62	8.55	1.16
MWD	4869	80.65	7.41	N 7.4 E	32	4537.20	453.18	451.51 N	78.50 W	458.29	350.14	8.14	7.84	-2.22
MWD	4932	84.42	5.83	N 5.8 E	63	4545.38	515.03	513.55 N	71.31 W	518.48	352.10	6.48	5.98	-2.51
MWD	4995	85.65	6.45	N 6.5 E	63	4550.84	577.27	575.95 N	64.59 W	579.56	353.60	2.18	1.95	0.98
MWD	5059	86.74	6.52	N 6.5 E	64	4555.08	640.54	639.40 N	57.38 W	641.97	354.87	1.71	1.70	0.11
MWD	5122	87.63	6.53	N 6.5 E	63	4558.18	702.87	701.92 N	50.23 W	703.71	355.91	1.41	1.41	0.02
MWD	5185	88.52	6.03	N 6.0 E	63	4560.29	765.29	764.50 N	43.34 W	765.73	356.76	1.62	1.41	-0.79
MWD	5265	90.15	5.53	N 5.5 E	80	4561.22	844.67	844.09 N	35.29 W	844.82	357.61	2.13	2.04	-0.63
MWD	5346	89.91	4.44	N 4.4 E	81	4561.18	925.18	924.78 N	28.25 W	925.21	358.25	1.38	-0.30	-1.35
MWD	5409	89.69	4.18	N 4.2 E	63	4561.40	987.88	987.60 N	23.51 W	987.88	358.64	0.54	-0.35	-0.41
MWD	5504	89.20	3.20	N 3.2 E	95	4562.32	1082.51	1082.40 N	17.40 W	1082.54	359.08	1.15	-0.52	-1.03
MWD	5536	89.04	2.98	N 3.0 E	32	4562.81	1114.42	1114.35 N	15.67 W	1114.46	359.19	0.85	-0.50	-0.69
MWD	5631	89.85	0.49	N 0.5 E	95	4563.73	1209.27	1209.29 N	12.80 W	1209.36	359.39	2.76	0.85	-2.62
MWD	5726	91.23	359.65	N 0.4 W	95	4562.84	1304.24	1304.28 N	12.68 W	1304.35	359.44	1.70	1.45	-0.88
MWD	5790	89.88	359.45	N 0.6 W	64	4562.22	1368.22	1368.28 N	13.19 W	1368.34	359.45	2.13	-2.11	-0.31
MWD	5821	89.63	358.94	N 1.1 W	31	4562.35	1399.22	1399.27 N	13.62 W	1399.34	359.44	1.83	-0.81	-1.65
MWD	5917	89.45	358.61	N 1.4 W	96	4563.12	1495.22	1495.25 N	15.67 W	1495.33	359.40	0.39	-0.19	-0.34



Company: SandRidge
 Well: Gabriel 3305 1-36H
 Location: Harper County KS
 Rig: Unit 310

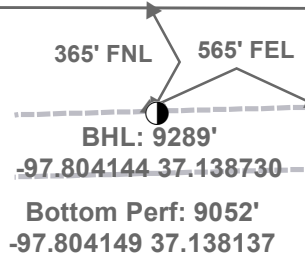
Job Number: 5939820
 Magnetic Decl.: 4.34
 Grid Corr.: 0.43
 Total Grid Corr.: 3.91

Calculation Method Minimum Curvature
 Proposed Azimuth 358.7
 Depth Reference _____
 Tie Into: _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
MWD	6011	90.62	358.78	N 1.2 W	94	4563.06	1589.22	1589.22 N	17.81 W	1589.32	359.36	1.26	1.24	0.18
MWD	6107	87.22	358.01	N 2.0 W	96	4564.87	1685.18	1685.15 N	20.50 W	1685.28	359.30	3.63	-3.54	-0.80
MWD	6202	88.59	357.45	N 2.6 W	95	4568.34	1780.10	1780.01 N	24.26 W	1780.18	359.22	1.56	1.44	-0.59
MWD	6297	89.51	357.35	N 2.6 W	95	4569.92	1875.07	1874.90 N	28.57 W	1875.12	359.13	0.97	0.97	-0.11
MWD	6392	90.80	357.39	N 2.6 W	95	4569.66	1970.04	1969.80 N	32.93 W	1970.07	359.04	1.36	1.36	0.04
MWD	6486	91.88	357.40	N 2.6 W	94	4567.46	2063.99	2063.67 N	37.20 W	2064.01	358.97	1.15	1.15	0.01
MWD	6581	91.39	357.56	N 2.4 W	95	4564.75	2158.93	2158.54 N	41.38 W	2158.94	358.90	0.54	-0.52	0.17
MWD	6676	88.03	357.44	N 2.6 W	95	4565.23	2253.89	2253.44 N	45.52 W	2253.90	358.84	3.54	-3.54	-0.13
MWD	6771	87.69	357.11	N 2.9 W	95	4568.78	2348.79	2348.26 N	50.03 W	2348.80	358.78	0.50	-0.36	-0.35
MWD	6866	89.32	357.06	N 2.9 W	95	4571.26	2443.72	2443.11 N	54.86 W	2443.72	358.71	1.72	1.72	-0.05
MWD	6960	89.42	356.86	N 3.1 W	94	4572.29	2537.67	2536.97 N	59.85 W	2537.67	358.65	0.24	0.11	-0.21
MWD	7055	88.46	356.72	N 3.3 W	95	4574.05	2632.60	2631.80 N	65.17 W	2632.61	358.58	1.02	-1.01	-0.15
MWD	7150	88.86	355.90	N 4.1 W	95	4576.27	2727.49	2726.58 N	71.28 W	2727.51	358.50	0.96	0.42	-0.86
MWD	7245	89.94	356.18	N 3.8 W	95	4577.27	2822.38	2821.34 N	77.84 W	2822.42	358.42	1.17	1.14	0.29
MWD	7298	89.63	356.28	N 3.7 W	53	4577.47	2875.33	2874.23 N	81.32 W	2875.38	358.38	0.61	-0.58	0.19
MWD	7362	89.75	356.01	N 4.0 W	64	4577.81	2939.27	2938.08 N	85.63 W	2939.33	358.33	0.46	0.19	-0.42
MWD	7457	89.41	357.75	N 2.3 W	95	4578.51	3034.21	3032.94 N	90.80 W	3034.29	358.29	1.87	-0.36	1.83
MWD	7552	90.28	359.44	N 0.6 W	95	4578.77	3129.21	3127.90 N	93.12 W	3129.29	358.29	2.00	0.92	1.78
MWD	7647	91.11	358.99	N 1.0 W	95	4577.61	3224.20	3222.89 N	94.43 W	3224.27	358.32	0.99	0.87	-0.47
MWD	7742	90.22	358.30	N 1.7 W	95	4576.51	3319.19	3317.85 N	96.67 W	3319.26	358.33	1.19	-0.94	-0.73
MWD	7837	90.15	359.03	N 1.0 W	95	4576.20	3414.19	3412.82 N	98.89 W	3414.26	358.34	0.77	-0.07	0.77
MWD	7932	91.26	359.21	N 0.8 W	95	4575.04	3509.18	3507.80 N	100.34 W	3509.24	358.36	1.18	1.17	0.19
MWD	8027	91.02	359.88	N 0.1 W	95	4573.15	3604.15	3602.78 N	101.10 W	3604.20	358.39	0.75	-0.25	0.71
MWD	8122	90.59	359.78	N 0.2 W	95	4571.81	3699.12	3697.77 N	101.38 W	3699.16	358.43	0.46	-0.45	-0.11
MWD	8217	90.71	359.26	N 0.7 W	95	4570.73	3794.10	3792.76 N	102.18 W	3794.14	358.46	0.56	0.13	-0.55
MWD	8312	88.77	357.84	N 2.2 W	95	4571.16	3889.10	3887.72 N	104.58 W	3889.13	358.46	2.53	-2.04	-1.49
MWD	8407	89.32	357.09	N 2.9 W	95	4572.75	3984.06	3982.62 N	108.78 W	3984.10	358.44	0.98	0.58	-0.79
MWD	8502	89.23	356.28	N 3.7 W	95	4573.95	4078.99	4077.45 N	114.27 W	4079.05	358.39	0.86	-0.09	-0.85
MWD	8597	89.69	355.85	N 4.1 W	95	4574.84	4173.89	4172.22 N	120.79 W	4173.97	358.34	0.66	0.48	-0.45
MWD	8692	89.14	357.31	N 2.7 W	95	4575.81	4268.81	4267.04 N	126.46 W	4268.92	358.30	1.64	-0.58	1.54
MWD	8786	89.26	357.55	N 2.4 W	94	4577.13	4362.78	4360.94 N	130.67 W	4362.90	358.28	0.29	0.13	0.26
MWD	8881	89.60	357.56	N 2.4 W	95	4578.07	4457.76	4455.85 N	134.73 W	4457.88	358.27	0.36	0.36	0.01
MWD	8976	88.86	357.65	N 2.4 W	95	4579.35	4552.73	4550.76 N	138.70 W	4552.87	358.25	0.78	-0.78	0.09
MWD	9071	88.43	358.08	N 1.9 W	95	4581.60	4647.69	4645.66 N	142.24 W	4647.84	358.25	0.64	-0.45	0.45
MWD	9166	87.84	358.46	N 1.5 W	95	4584.69	4742.64	4740.57 N	145.10 W	4742.79	358.25	0.74	-0.62	0.40

Section 25
33S 5W

Section 30
33S 4W



Harper County
Section 36
33S 5W

Sumner County
Section 31
33S 4W



GABRIEL 3305 1-36H

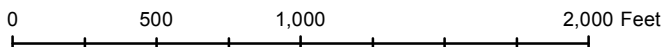
Section 1
34S 5W

Section 6
34S 4W



Actual Bottom-Hole Location of Gabriel 3305 1-36H
Harper County, Kansas
T&R: 33S 5W
Section: 36, 565' FEL & 365' FNL
-97.804004 37.125473

1 in = 667 ft



● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

Draftsman:

Naomi Martinez

Draft Date: 3/4/2014

Drawing Name/Number:

Addendum_Gabriel 3306 1-36H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502