



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
-----------------------------------	-----------------	---

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 SWGPS 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: _____



1168897

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: 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: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Thyme 3419 2-5H
Doc ID	1168897

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9443-9577	1500 gals 15% HCL, 2792 bbls of Fresh Slickwater, Running TLTR= 2828 bbls	
5	9098-9375	1500 gals 15% HCL, 4333 bbls of Fresh Slickwater, Running TLTR= 7358 bbls	
5	8738-9040	1500 gals 15% HCL, 4275 bbls of Fresh Slickwater, Running TLTR= 11746 bbls	
5	8411-8691	1500 gals 15% HCL, 4250 bbls of Fresh Slickwater, Running TLTR= 15996 bbls	
5	8018-8340	1500 gals 15% HCL, 4266 bbls of Fresh Slickwater, Running TLTR= 24614 bbls	
5	7621-7873	1500 gals 15% HCL, 4341 bbls of Fresh Slickwater, Running TLTR= 29100 bbls	
5	7208-7512	1500 gals 15% HCL, 4214 bbls of Fresh Slickwater, Running TLTR= 33406 bbls	
5	6738-7018	1500 gals 15% HCL, 4370 bbls of Fresh Slickwater, Running TLTR= 37855 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Thyme 3419 2-5H
Doc ID	1168897

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6373-6640	1500 gals 15% HCL, 4191 bbls of Fresh Slickwater, Running TLTR= 42113 bbls	
5	6013-6300	1500 gals 15% HCL, 4363 bbls of Fresh Slickwater, Running TLTR= 46536 bbls	
5	5432-5850	1500 gals 15% HCL, 4099 bbls of Fresh Slickwater, Running TLTR= 50684 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Thyme 3419 2-5H
Doc ID	1168897

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	30	20	75	120	Basin Services 10 Sack Grout	12	none
Surface	12.25	9.63	36	889	O-Tex Lite Premium Plus 65/ Premium Plus (Class C)	480	(6% gel) 2% calcium Chloride, 1/4 pps Cello-Flake, .5% C-41P
Intermediate	8.75	7	26	5882	50/50 Poz Premium/ Premium	310	4% gel, .4% FL-17, .2% C-51, .1% C-20, .1% C-37, .5% C-41P
Liner	6.13	4.5	11.6	9684	50/50 Premium Poz	480	4% gel, .4% FL-17, .2% C-51, .1% C-20, .1% C-37, .5% C-41P

Summary of Changes

Lease Name and Number: Thyme 3419 2-5H

API/Permit #: 15-033-21715-01-00

Doc ID: 1168897

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	09/04/2013	11/19/2013
Contractor Name	Lariat Services, Inc.	Lariat Services, Inc. dba Chaparral Supply, Hondo Heavy Haul
Save Link	../../../../kcc/detail/operatorE ditDetail.cfm?docID=11 43036	../../../../kcc/detail/operatorE ditDetail.cfm?docID=11 68897
Well Type	SLOW	GAS



CONFIDENTIAL

WELL COMPLETION FORM

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

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
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
--	---

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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Thyme 3419 2-5H
Doc ID	1143036

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9443-9577	1500 gals 15% HCL, 2792 bbls of Fresh Slickwater, Running TLTR= 2828 bbls	
5	9098-9375	1500 gals 15% HCL, 4333 bbls of Fresh Slickwater, Running TLTR= 7358 bbls	
5	8738-9040	1500 gals 15% HCL, 4275 bbls of Fresh Slickwater, Running TLTR= 11746 bbls	
5	8411-8691	1500 gals 15% HCL, 4250 bbls of Fresh Slickwater, Running TLTR= 15996 bbls	
5	8018-8340	1500 gals 15% HCL, 4266 bbls of Fresh Slickwater, Running TLTR= 24614 bbls	
5	7621-7873	1500 gals 15% HCL, 4341 bbls of Fresh Slickwater, Running TLTR= 29100 bbls	
5	7208-7512	1500 gals 15% HCL, 4214 bbls of Fresh Slickwater, Running TLTR= 33406 bbls	
5	6738-7018	1500 gals 15% HCL, 4370 bbls of Fresh Slickwater, Running TLTR= 37855 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Thyme 3419 2-5H
Doc ID	1143036

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6373-6640	1500 gals 15% HCL, 4191 bbls of Fresh Slickwater, Running TLTR= 42113 bbls	
5	6013-6300	1500 gals 15% HCL, 4363 bbls of Fresh Slickwater, Running TLTR= 46536 bbls	
5	5432-5850	1500 gals 15% HCL, 4099 bbls of Fresh Slickwater, Running TLTR= 50684 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Thyme 3419 2-5H
Doc ID	1143036

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	30	20	75	120	Basin Services 10 Sack Grout	12	none
Surface	12.25	9.63	36	889	O-Tex Lite Premium Plus 65/ Premium Plus (Class C)	480	(6% gel) 2% calcium Chloride, 1/4 pps Cello-Flake, .5% C-41P
Intermediate	8.75	7	26	5882	50/50 Poz Premium/ Premium	310	4% gel, .4% FL-17, .2% C-51, .1% C-20, .1% C-37, .5% C-41P
Liner	6.13	4.5	11.6	9684	50/50 Premium Poz	480	4% gel, .4% FL-17, .2% C-51, .1% C-20, .1% C-37, .5% C-41P

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

May 29, 2013

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

Re: ACO1
API 15-033-21715-01-00
Thyme 3419 2-5H
NE/4 Sec.05-34S-19W
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



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

INVOICE

INVOICE NO.: 202
 INVOICE DATE: 06/24/2013

SANDRIDGE ENERGY
 123 ROBERT S KERR AVE
 OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK
 LEASE: Thyme
 WELL#: 3419 2-5H
 RIG #: Lariat 45
 Co/St: COMANCHE, KS

Tkt # WY-20-1 05/11/2013

DESCRIPTION	FOOTAGE	QUANTITY	RATE	AMOUNT
5/11/2013 DRILLED 30" CONDUCTOR HOLE				
5/11/2013 20" CONDUCTOR PIPE (.250 WALL)				
5/11/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING				
5/11/2013 DRILL & INSTALL 6' X 6' CELLAR TINHORN				
5/11/2013 DRILLED 20" MOUSE HOLE (PER FOOT)				
5/11/2013 16" CONDUCTOR PIPE (.250 WALL)				
5/11/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE				
5/11/2013 WELDING SERVICES FOR PIPE & LIDS				
5/11/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE				
5/11/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)				
5/11/2013 12 YARDS 10 SACK GROUT				6,545.00
5/11/2013 TAXABLE ITEMS				14,705.00
5/11/2013 BID + TAXABLE ITEMS				
			Sub Total:	21,250.00
			Tax COMANCHE COUNTY (6.3 %):	412.34
			PLEASE PAY THIS AMOUNT:	<u>\$ 21,662.34</u>

JOB SUMMARY			PROJECT NUMBER SOK 2687	TICKET DATE 05/16/13
COUNTY Commanche	State Kansas	COMPANY Bridge Exploration & Produc	CUSTOMER REP Tommy Whitlow	
LEASE NAME Thyme 3419	Well No. 2-5H	JOB TYPE Surface	EMPLOYEE NAME ROBERT BURRIS	

EMP NAME	
Robert Burris	Vontray
0.00	
Frank Reeves	
Cheryl Newton	

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 80 Pressure _____

Retainer Depth _____ Total Depth 900'

Date	Called Out	On Location	Job Started	Job Completed
	5/16/2013	5/16/2013	5/16/2013	5/16/2013
Time	13:30	16:00	15:46	16:52

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
Casing		36#	9 5/8"		Surface	917
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12 1/4"		Surface	910
Perforations						Shots/Ft.
Perforations						
Perforations						

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

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
5/16	4.0	5/16	1.0	Surface
Total	4.0	Total	1.0	

Pressures			
MAX	1,500 PSI	AVG	275
Average Rates in BPM			
MAX	6 BPM	AVG	4.5
Cement Left in Pipe			
Feet	47	Reason:	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	300	EX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	180	Premium Plus (Class C)	2% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80
3	0	0		0	0.00	0.00

Summary					
Preflush	_____	Type:	_____	Preflush:	BBI 10.00
Breakdown	_____	MAXIMUM	1,500 PSI	Load & Bkdn:	Gal - BBI N/A
	_____	Lost Returns-N	NO/FULL	Excess /Return	BBI 20
	_____	Actual TOC	SURFACE	Calc. TOC:	SURFACE
Average	_____	Bump Plug PSI:	1,000	Final Circ.	PSI: 450
ISIP	5 Min. _____	10 Min _____	15 Min _____	Cement Slurry:	BBI 140.0
				Total Volume	BBI 215.00

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

JOB SUMMARY			PROJECT NUMBER SOK 2698	TICKET DATE 05/22/13
COUNTY Comanche	State Kansas	COMPANY Sandridge Exploration & Production	CUSTOMER REP Tommy Whitlow	
LEASE NAME Thyme 3419	Well No. 2-5H	JOB TYPE Intermediate	EMPLOYEE NAME L. ARNEY	

EMP NAME L. ARNEY	B. ARMER				
M. QUINTANA					
D. TEWELL					
V. WATKINS					

Form. Name _____ Type: _____

Packer Type _____ Set At **4,416**

Bottom Hole Temp. **155** Pressure _____

Retainer Depth _____ Total Depth **5920**

Date	Called Out 5/22/2013	On Location 5/22/2013	Job Started 5/22/2013	Job Completed 5/22/2013
Time	1100	1400	1833	2030

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

New/Used		Weight	Size	Grade	From	To	Max. Allow
Casing		26#	7"		Surface		5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 1/4"		Surface	5,920	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.	20 8.33
Spacer type	Caustic	BBL.	10 8.40
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	ln	
NE Agent	Gal.	ln	
Fluid Loss	Gal/Lb	ln	
Gelling Agent	Gal/Lb	ln	
Fric. Red.	Gal/Lb	ln	
MISC.	Gal/Lb	ln	
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
5/22	6.0	5/22	2.0	Intermediate
Total	6.0	Total	2.0	

Pressures			
MAX	5,000 PSI	AVG.	400
Average Rates in BPM			
MAX	8 BPM	AVG	5
Cement Left in Pipe			
Feet	88'	Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	210	50/50 POZ PREMIUM	4% Gel - 0.4% FL-17 - 0.2% C-51 - 0.1% C-20 - 0.1% C-37 - 0.5% C-41P	6.77	1.44	13.60
2	100	Premium	0.4% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P	5.20	1.18	15.60
3	0	0		0	0.00	0.00
				0	0.00	0.00

Summary							
Preflush	10	Type:	Caustic	Preflush:	BBL	30.00	Type: 10ppg Barite Spacer
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn:	Gal - BBI	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBI	N/A	Calc. Disp Bbl 222
		Actual TOC		Calc. TOC:		1.5227 / L 3218	Actual Disp. 220.00
Average		Bump Plug PSI:	1,200	Final Circ.	PSI:	660	Disp:Bbl
ISP	5 Min.	10 Min.	15 Min.	Cement Slurry:	BBI	75.0	
				Total Volume	BBI	325.00	

CUSTOMER REPRESENTATIVE Bill Jordan SIGNATURE

JOB SUMMARY			PROJECT NUMBER SOK 2711	TICKET DATE 05/27/13
COUNTY Comanche	State Kansas	COMPANY Bridge Exploration & Produc	CUSTOMER REP Bill Barrett	
LEASE NAME Thyme 3419	Well No. 2-5H	JOB TYPE Liner	EMPLOYEE NAME ROBERT BURRIS	

EMP NAME Robert Burris	BRETT AMERY				
MIKE HALL					
Cheryl Newton					
WALLACE BERRY					

Form. Name _____ Type: _____

Packer Type _____ Set At **5,882'**

Bottom Hole Temp. **150** Pressure _____

Retainer Depth _____ Total Depth **9,684'**

Date	Called Out	On Location	Job Started	Job Completed
	5/27/2013	5/27/2013	5/27/2013	5/27/2013
Time	14:00	16:00	17:57	21:20

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	

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		11.6	4 1/2"		5622	9,684'	
Liner Tool							
HWDP					3,875	5,622	
Drill Pipe			3 1/2"		SURFACE	3,875	
Drill Collars							
Open Hole			6 1/8"		Surface	9,684'	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	FRESH WATER	8.33	
Spacer type	BARITE BBL.	15	10.00
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		Operating Hours		Description of Job
Date	Hours	Date	Hours	
5/27	5.5	5/27	1.1	Liner
Total	5.5	Total	1.1	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Pressures	
MAX 5000 PSI	AVG 675
Average Rates in BPM	
MAX 6 BPM	AVG 4
Cement Left in Pipe	
Feet 92	Reason SHOE JOINT

Cement Data		Additives			18:57		
Stage	Sacks	Cement	W/Rq.	Yield	Lbs/Gal		
1	480	50/50 Premium Poz	6.77	1.44	13.60	4% Gel - 0.4% FL-17 - 0.2% C-51 - 0.1% C-20 - 0.1% C-37 - 0.5% C-41P	
2	0	0	0	0.00	0.00		
3	0	0	0	0.00	0.00		

Summary							
Preflush	10-	Type:	Caustic	Preflush:	BBI	20.00	Type: 10ppg Barite Space
Breakdown		MAXIMUM	3,500 PSI	Load & Bkdn:	Gal - BBI	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBI	N/A	Calc. Disp Bbl 113
		Actual TOC	4.536	Calc. TOC:		4.536	Actual Disp. 113.00
Average		Bump Plug PSI:	1,700	Final Circ.	PSI:	700	Disp:Bbl
15: F	5 Min.	10 Min	15 Min	Cement Slurry:	BBI	120.5	
				Total Volume	BBI	253.54	

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____



Standard Wellpath Report
Sandridge
Sec 5 - 34S - 19W, Kansas
Comanche County
Wellbore: Thyme 3419 2-5H (Actual)

Wellbore

Name	Created	Last Revised
Thyme 3419 2-5H (Actual)	10-May-2013	4-Jun-2013

Well

Name	Government ID	Last Revised
Thyme 3419 2-5H		10-May-2013

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Thyme 3419 2-5H	166111.0000	1736380.0000	N37 7 9.6810	W99 24 14.7095	247.99S	1979.94W

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Comanche County	1738360.0000	166359.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 5 - 34S - 19W	1738360.0000	166359.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

--

Comments

FINAL Surveys; MD 9684 is a projection to bit @ TD



Standard Wellpath Report
Sandridge
Sec 5 - 34S - 19W, Kansas
Comanche County
Wellbore: Thyme 3419 2-5H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1736380.00	166111.00
1148.00	0.71	297.180	1147.97	3.25N	6.33W	0.06	-3.23	1736373.67	166114.25
1424.00	0.80	319.210	1423.95	5.49N	9.11W	0.11	-5.46	1736370.89	166116.49
1885.00	0.71	308.100	1884.91	9.69N	13.46W	0.04	-9.64	1736366.54	166120.69
2265.00	1.10	303.300	2264.86	13.14N	18.36W	0.10	-13.08	1736361.64	166124.14
2740.00	0.80	304.490	2739.79	17.52N	24.90W	0.06	-17.44	1736355.10	166128.52
3214.00	0.40	304.710	3213.77	20.34N	28.99W	0.08	-20.24	1736351.01	166131.34
3689.00	0.31	74.110	3688.76	21.64N	29.12W	0.14	-21.53	1736350.88	166132.64
4164.00	0.40	344.280	4163.76	23.58N	28.33W	0.11	-23.48	1736351.67	166134.58
4354.00	0.31	344.370	4353.75	24.72N	28.65W	0.05	-24.62	1736351.35	166135.72
4386.00	0.31	345.780	4385.75	24.88N	28.69W	0.02	-24.78	1736351.31	166135.89
4417.00	1.19	255.880	4416.75	24.89N	29.03W	3.97	-24.79	1736350.97	166135.89
4449.00	3.00	202.300	4448.73	24.03N	29.67W	7.77	-23.93	1736350.33	166135.03
4481.00	5.61	184.190	4480.64	21.70N	30.10W	9.10	-21.59	1736349.90	166132.70
4512.00	8.22	177.710	4511.41	17.97N	30.12W	8.77	-17.86	1736349.88	166128.97
4544.00	10.69	172.690	4542.97	12.74N	29.65W	8.13	-12.64	1736350.35	166123.74
4576.00	13.08	170.880	4574.29	6.22N	28.70W	7.56	-6.12	1736351.30	166117.22
4607.00	15.38	172.070	4604.33	1.32S	27.58W	7.48	1.41	1736352.42	166109.68
4639.00	17.72	171.410	4635.00	10.34S	26.26W	7.34	10.43	1736353.74	166100.66
4671.00	19.89	173.080	4665.29	20.56S	24.88W	6.99	20.64	1736355.12	166090.44
4702.00	22.18	171.980	4694.23	31.59S	23.43W	7.50	31.67	1736356.57	166079.41
4734.00	23.99	172.200	4723.66	44.01S	21.70W	5.66	44.09	1736358.30	166066.98
4766.00	25.72	172.600	4752.70	57.35S	19.93W	5.43	57.42	1736360.07	166053.65
4797.00	27.62	175.510	4780.40	71.18S	18.50W	7.44	71.25	1736361.50	166039.82
4829.00	29.30	177.180	4808.53	86.40S	17.53W	5.81	86.46	1736362.47	166024.60
4861.00	31.42	178.110	4836.14	102.56S	16.87W	6.79	102.62	1736363.13	166008.44
4892.00	33.01	177.880	4862.37	119.07S	16.29W	5.14	119.13	1736363.71	165991.92
4924.00	34.51	177.880	4888.97	136.84S	15.63W	4.69	136.90	1736364.37	165974.15
4956.00	36.01	177.180	4915.10	155.30S	14.83W	4.85	155.35	1736365.16	165955.70
4987.00	37.30	177.710	4939.97	173.79S	14.01W	4.28	173.83	1736365.99	165937.21
5019.00	39.28	177.180	4965.09	193.59S	13.13W	6.27	193.64	1736366.87	165917.40
5051.00	41.41	178.370	4989.47	214.29S	12.33W	7.08	214.34	1736367.67	165896.70
5082.00	43.39	178.370	5012.36	235.19S	11.73W	6.39	235.23	1736368.27	165875.81
5114.00	44.72	179.070	5035.36	257.43S	11.24W	4.43	257.47	1736368.76	165853.56
5146.00	44.50	178.680	5058.14	279.90S	10.79W	1.10	279.94	1736369.21	165831.09
5177.00	44.41	177.580	5080.27	301.60S	10.09W	2.50	301.63	1736369.91	165809.39
5209.00	44.41	177.880	5103.13	323.97S	9.20W	0.66	324.00	1736370.80	165787.02
5240.00	44.32	177.970	5125.29	345.64S	8.41W	0.35	345.66	1736371.59	165765.35
5272.00	44.32	177.880	5148.19	367.98S	7.61W	0.20	368.00	1736372.39	165743.01
5304.00	44.19	177.800	5171.11	390.29S	6.76W	0.44	390.32	1736373.24	165720.69
5335.00	43.88	177.180	5193.39	411.82S	5.82W	1.71	411.84	1736374.18	165699.17
5367.00	43.70	175.770	5216.49	433.92S	4.46W	3.10	433.94	1736375.54	165677.06
5399.00	43.31	175.370	5239.70	455.89S	2.76W	1.49	455.89	1736377.24	165655.10
5430.00	44.98	176.390	5261.95	477.42S	1.21W	5.85	477.42	1736378.79	165633.57
5462.00	48.52	175.900	5283.87	500.67S	0.36E	11.12	500.67	1736380.36	165610.31
5493.00	52.72	175.370	5303.53	524.56S	2.19E	13.61	524.55	1736382.19	165586.43
5525.00	57.09	175.990	5321.93	550.66S	4.15E	13.75	550.64	1736384.15	165560.32
5557.00	61.11	176.870	5338.36	578.06S	5.86E	12.78	578.03	1736385.86	165532.92
5588.00	64.21	177.880	5352.59	605.56S	7.12E	10.41	605.53	1736387.12	165505.42
5620.00	66.51	179.870	5365.93	634.64S	7.68E	9.14	634.61	1736387.68	165476.34
5652.00	68.98	181.810	5378.05	664.25S	7.25E	9.54	664.22	1736387.25	165446.73
5683.00	71.10	183.700	5388.64	693.35S	5.84E	8.92	693.33	1736385.84	165417.63
5715.00	73.40	182.600	5398.39	723.78S	4.17E	7.90	723.76	1736384.17	165387.20
5747.00	75.78	182.290	5406.89	754.60S	2.85E	7.50	754.58	1736382.85	165356.38
5778.00	78.22	182.470	5413.87	784.77S	1.60E	7.89	784.76	1736381.60	165326.20
5810.00	80.78	181.980	5419.70	816.21S	0.38E	8.14	816.21	1736380.38	165294.76
5828.00	82.28	181.900	5422.35	834.00S	0.22W	8.34	834.00	1736379.78	165276.97
5926.00	87.98	182.380	5430.67	931.54S	3.87W	5.84	931.55	1736376.13	165179.43
6018.00	90.81	181.500	5431.64	1023.47S	6.98W	3.22	1023.49	1736373.01	165087.49
6111.00	92.80	181.500	5428.71	1116.39S	9.42W	2.14	1116.42	1736370.58	164994.57
6203.00	92.18	180.970	5424.71	1208.28S	11.40W	0.89	1208.32	1736368.60	164902.68
6295.00	92.00	180.000	5421.36	1300.22S	12.18W	1.07	1300.25	1736367.82	164810.74
6387.00	91.91	179.070	5418.22	1392.16S	11.43W	1.02	1392.19	1736368.57	164718.80
6478.00	90.10	179.470	5416.62	1483.13S	10.27W	2.04	1483.16	1736369.73	164627.82
6570.00	88.51	179.470	5417.74	1575.12S	9.42W	1.73	1575.14	1736370.58	164535.83
6662.00	89.70	178.900	5419.17	1667.10S	8.11W	1.43	1667.12	1736371.89	164443.85
6754.00	90.99	179.210	5418.62	1759.08S	6.60W	1.44	1759.09	1736373.40	164351.87
6846.00	88.69	179.300	5418.88	1851.07S	5.40W	2.50	1851.07	1736374.60	164259.88
6938.00	88.51	178.900	5421.13	1943.03S	3.95W	0.48	1943.03	1736376.05	164167.91
7030.00	89.62	180.180	5422.63	2035.01S	3.22W	1.84	2035.01	1736376.78	164075.93

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Thyme 3419 2-5H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 180.200 degrees
Bottom hole distance is 4688.65 Feet on azimuth 180.13 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 4-Jun-2013



Standard Wellpath Report
 Sandridge
 Sec 5 - 34S - 19W, Kansas
 Comanche County
 Wellbore: Thyme 3419 2-5H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
7121.00	90.50	180.570	5422.53	2126.01S	3.81W	1.06	2126.01	1736376.19	163984.93
7213.00	91.78	180.480	5420.70	2217.98S	4.65W	1.39	2217.99	1736375.35	163892.95
7305.00	91.30	180.480	5418.23	2309.95S	5.42W	0.52	2309.95	1736374.57	163800.98
7399.00	89.31	180.400	5417.73	2403.94S	6.15W	2.12	2403.94	1736373.85	163706.99
7494.00	89.40	180.790	5418.80	2498.93S	7.13W	0.42	2498.94	1736372.87	163612.00
7589.00	89.48	180.880	5419.73	2593.91S	8.52W	0.13	2593.93	1736371.48	163517.01
7684.00	90.01	180.880	5420.15	2688.90S	9.98W	0.56	2688.92	1736370.02	163422.02
7779.00	89.88	181.280	5420.24	2783.88S	11.77W	0.44	2783.91	1736368.23	163327.03
7874.00	90.99	181.100	5419.52	2878.86S	13.74W	1.18	2878.89	1736366.26	163232.06
7969.00	90.28	180.880	5418.47	2973.84S	15.38W	0.78	2973.87	1736364.62	163137.07
8064.00	90.81	179.870	5417.56	3068.83S	16.00W	1.20	3068.87	1736364.00	163042.08
8159.00	90.50	179.470	5416.48	3163.82S	15.46W	0.53	3163.85	1736364.54	162947.08
8254.00	90.10	180.090	5415.98	3258.82S	15.09W	0.78	3258.85	1736364.91	162852.08
8349.00	88.60	180.970	5417.06	3353.80S	15.97W	1.83	3353.84	1736364.03	162757.10
8444.00	89.62	180.970	5418.53	3448.78S	17.58W	1.07	3448.82	1736362.42	162662.12
8539.00	89.88	180.710	5418.95	3543.77S	18.97W	0.39	3543.81	1736361.03	162567.13
8634.00	90.50	180.000	5418.63	3638.76S	19.56W	0.99	3638.81	1736360.44	162472.13
8729.00	90.50	178.680	5417.80	3733.75S	18.46W	1.39	3733.79	1736361.53	162377.14
8824.00	89.88	179.870	5417.49	3828.74S	17.26W	1.41	3828.78	1736362.74	162282.14
8919.00	89.88	179.690	5417.69	3923.74S	16.90W	0.19	3923.77	1736363.10	162187.14
9013.00	90.50	179.870	5417.37	4017.74S	16.54W	0.69	4017.77	1736363.46	162093.14
9108.00	91.12	179.780	5416.03	4112.73S	16.25W	0.66	4112.76	1736363.75	161998.15
9203.00	89.62	179.600	5415.42	4207.72S	15.73W	1.59	4207.75	1736364.27	161903.15
9298.00	89.48	179.210	5416.16	4302.71S	14.75W	0.44	4302.74	1736365.25	161808.16
9393.00	88.38	178.680	5417.94	4397.68S	13.00W	1.29	4397.70	1736367.00	161713.19
9488.00	90.41	179.470	5418.94	4492.66S	11.46W	2.29	4492.67	1736368.54	161618.21
9635.00	90.81	179.780	5417.38	4639.64S	10.50W	0.34	4639.65	1736369.50	161471.22
9684.00	90.81	179.780	5416.68	4688.64S	10.31W	==>	4688.65	1736369.69	161422.22

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Thyme 3419 2-5H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 180.200 degrees
 Bottom hole distance is 4688.65 Feet on azimuth 180.13 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 4-Jun-2013



Standard Wellpath Report
Sandridge
Sec 5 - 34S - 19W, Kansas
Comanche County
Wellbore: Thyme 3419 2-5H (Actual)

Comments

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
9684.00	5416.68	4688.64S	10.31W	Projection to Bit @ TD

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Thyme 3419 2-5H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 180.200 degrees
Bottom hole distance is 4688.65 Feet on azimuth 180.13 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 4-Jun-2013

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/13/2013
Job End Date:	6/19/2013
State:	Kansas
County:	Comanche
API Number:	15-033-21715-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Thyme 3419 2-5H
Longitude:	-99.40400000
Latitude:	37.11930000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	5,417
Total Base Water Volume (gal):	1,928,416
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
C102	Bosque Disposal Systems, LLC	Oxidizer					
			Chlorine Dioxide	10049-04-4	15.00000	93.30935	
HCL 15%N	Heat Waves Hot Oil Service, LLC	Acid					
			Water	7732-18-5	91.00000	3.27011	
			Hydrogen Chloride	7647-01-0	36.00000	3.27011	
WSF 9020	Heat Waves Hot Oil Service, LLC	Detergent/Cleaner					
			Methanol	67-56-1	100.00000	0.01308	
			Nonylphenol Ethoxylate	009016-45-9	100.00000	0.01308	
			Isopropanol	67-63-0	100.00000	0.01308	
STIM 8900	Heat Waves Hot Oil Service, LLC	anti-sludge					
			Trade Secret	73296-89-6	100.00000	0.01308	
			Isopropanol	67-63-0	100.00000	0.01308	
			Ethylene Glycol	107-21-1	100.00000	0.01308	
Swell Ban	Heat Waves Hot Oil Service, LLC	Stimulation/ Drilling					
			Isopropanol	67-63-0	100.00000	0.00872	
			Quaternary Ammonium Chloride	68187-63-3	100.00000	0.00872	
			Methanol	67-56-1	100.00000	0.00872	

STIM-HIB 2590	Het Waves Hot Oil Service, LLC	Acid Inhibitor					
			Propargyl Alcohol	107-19-7	100.00000	0.00654	
			Trade Secret	NA	100.00000	0.00654	
			Isopropanol	67-63-0	100.00000	0.00654	
			Methanol	67-56-1	100.00000	0.00654	
Fe Ban L-2	Heat Waves Hot Oil Service, LLC	Iron Complexing Agent					
			Ethylene Glycol	107-21-1	20.00000	0.00654	
			Hydrochloric Acid	7647-01-0	100.00000	0.00654	
			Trade Secret	NA	100.00000	0.00654	
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.							
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ammonium chloride	12125-02-9	0.14045		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Methanol	67-56-1	0.01193		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-propenamid	79-06-1	0.00126		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Water (Including Mix Water Supplied by Client)*	NA			
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.00421		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium sulfocyanate	540-72-7	0.00730		

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.22472		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Trisodium ortho phosphate	7601-54-9	0.02672		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00494		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.00421		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Crystalline silica	14808-60-7	95.57547		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitol Tetraoleate	61723-83-9	0.00843		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Fatty acids, tall-oil	61790-12-3	0.00876		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.00562		

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Distillates (petroleum), hydrotreated light	64742-47-8	0.29494		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alkenes, C>10 a-	64743-02-8	0.00149		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Thiourea, polymer with formaldehyde and 1- phenylethanone	68527-49-1	0.00721		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethane-1,2-diol	107-21-1	0.00761		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Hydrogen chloride	7647-01-0	3.38834		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Potassium hydroxide	1310-58-3	0.00023		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Polyethylene glycol monohexyl ether	31726-34-8	0.11279		

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethoxylated oleic acid	9004-96-0	0.02809		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Propan-2-ol	67-63-0	0.00099		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium erythorbate	6381-77-7	0.02641		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitan monooleate	1338-43-8	0.02809		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-Propenoic acid, ammonium salt	10604-69-0	0.00688		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			C14 alpha olefin ethoxylate	84133-50-6	0.00421		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00335		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Prop-2-yn-1-ol	107-19-7	0.00224		

* 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)

Section 32
33S 19W

Section 33
33S 19W

THYME 3419 4-5H

THYME 3419 3-5H

THYME 3419 2-5H

THYME 3419 1-5H

Top Perf: 5432'
-99.404465 37.11807

Miss Entry: 5497'
-99.404452 37.11794

Comanche County

Section 5
34S 19W

Section 4
34S 19W

Bottom Perf: 9443'
-99.404366 37.107043
BHL: 9684'
-99.404356 37.106504

347' FSL

1930' FEL

Section 8
34S 19W

Section 9
34S 19W



Actual Bottom-Hole Location of Thyme 3419 2-5H
Comanche County, Kansas
T&R: 34S 19W
Section: 5, 1930' FEL & 347' FNL
-99.404356 37.106504

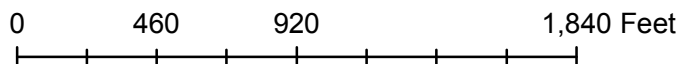
1 in = 631 ft



● Actual BH Location

* SandRidge Wells

--- Perf
□ Sections



Draftsman:

Aaron Birk

Draft Date: 9/3/2013

Drawing Name/Number:

Addendum_Thyme 3419 2-5H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Remarks

Tiffany Golay 08/14/013 08:03 am	Well has been temporarily shut it until commingle application is approved.
---	--

Additional Fluid Mgmt Info: 1560 bbls hauled to Lojo Disposal, SW/4 10-26N-15W, Woods, OK 35 bbls hauled to Gray Mud Disposal, SW/4 15-24S-7W, Garfield, OK 5880 bbls hauled to Guard, Inc., 23-22N-13W, Major, OK 140 bbls hauled to German #2, NE/4 28-29N-22W, Harper, OK 840 bbls hauled to Weinett Disposal, NW/4 Section 1079 Block 43, Lipscomb, TX 280 bbls hauled to West OK Disposal, 21-23N-21W, Woodward, OK