



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1105557  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1105557

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Turner 3406 2-7H
Doc ID	1105557

All Electric Logs Run

Boresight
Density
Induction
Mud Log

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Turner 3406 2-7H
Doc ID	1105557

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8624-9044	4312 bbls water, 36 bbls acid, 75M lbs sd, 4348 TLTR	
5	8099-8529	4230 bbls water, 36 bbls acid, 75M lbs sd, 8887 TLTR	
5	7574-7996	4222 bbls water, 36 bbls acid, 75M lbs sd, 13403 TLTR	
5	7122-7441	4215 bbls water, 36 bbls acid, 75M lbs sd, 17803 TLTR	
5	6552-6982	4206 bbls water, 36 bbls acid, 75M lbs sd, 22300 TLTR	
5	6017-6447	4198 bbls water, 36 bbls acid, 75M lbs sd, 26638 TLTR	
5	5470-5912	4189 bbls water, 36 bbls acid, 75M lbs sd, 31020 TLTR	
5	4948-5376	4181 bbls water, 36 bbls acid, 75M lbs sd, 35336 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Turner 3406 2-7H
Doc ID	1105557

### 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	22	20	75	100	Mid-Continent Conductor grout	10	none
Surface	12.25	9.63	36	790	O-Tex Lite Premium Plus 65/ Premium Plus (Class C)	375	(6% gel) 2% Calcium Chloride, 1/4 pps Cello-Flake, .5% C-41P
Intermediate	8.75	7	26	5167	50/50 Poz Premium/ Premium	300	4% gel, .4% C-12, /1% C-37, /5% C-41P, 2 lb/sk Phenoseal
Production	6.12	4.5	11.6	9152	50/50 Premium Poz	500	(4% gel) .4% C12, .1% C37, .5% C-41P, 2 lb/sk Phenoseal

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

December 21, 2012

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

Re: ACO1  
API 15-077-21891-01-00  
Turner 3406 2-7H  
SE/4 Sec.07-34S-06W  
Harper 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

# Mid-Continent Conductor, LLC

# Invoice

P.O. Box 1570  
Woodward, OK 73802  
Phone: (580)254-5400  
Fax: (580)254-3242

Date	Invoice #
11/15/2012	1560

<b>Bill To</b> SandRidge Energy, Inc. Attn: Purchasing Mgr. 123 Robert S. Kerr Avenue Oklahoma City, OK. 73102
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Ordered By	Terms	Date of Service	Lease Name/Legal Desc.	Drilling Rig
Joe Turner	Net 45	11/15/2012	Turner 3406 2-7H, Harper Cnty, KS	Lariat 39

Item	Quantity	Description
Conductor Hole	90	Drilled 90 ft. conductor hole
20" Pipe	90	Furnished 90 ft. of 20 inch conductor pipe
Mouse Hole	80	Drilled 80 ft. mouse hole
16" Pipe	80	Furnished 80 ft. of 16 inch mouse hole pipe
Cellar Hole	1	Drilled 6' X 6' cellar hole
6' X 6' Tinhorn	1	Furnished and set 6' X 6' tinhorn
Mud and Water	1	Furnished mud and water
Transport Truck - Conductor	1	Transport mud and water to location
Grout & Trucking	10	Furnished grout and trucking to location
Welder & Materials	1	Furnished welder and materials
Dirt Removal	1	Furnished labor and equipment for dirt removal
Cover Plate	1	Furnished cover plates
Permits	1	Permits

AFE Number: DC12545  
 Well Name: Turner 3406 2-7H  
 Code: 850-010  
 Amount: 15900.00  
 Co. Man: Dave Montoya  
 Co. Man Sig: [Signature]  
 Notes: 11-03-12

<b>Subtotal</b>	\$15,950.00
<b>Sales Tax (0.0%)</b>	\$0.00
<b>Total</b>	<b>\$15,950.00</b>

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 2193</b>	TICKET DATE <b>12/04/12</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Bridge Exploration &amp; Produc</b>	CUSTOMER REP <b>0</b>	
LEASE NAME <b>Turner 3406</b>	Well No. <b>2-7H</b>	JOB TYPE <b>Surface</b>	EMPLOYEE NAME <b>NATHAN COTTA</b>	

EMP NAME	<b>NATHAN COTTA</b>	<b>FRANK</b>				
	<b>ARTHOR S.</b>					
	<b>VONTREY</b>					
	<b>JAMES K.</b>					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_

Packer Type \_\_\_\_\_ Set At **0**

Bottom Hole Temp. **80** Pressure \_\_\_\_\_

Retainer Depth \_\_\_\_\_ Total Depth **800**

	Called Out	On Location	Job Started	Job Completed
Date	<b>12.5.12</b>	<b>12.6.12</b>	<b>12.6.12</b>	<b>12.6.12</b>
Time	<b>2200</b>	<b>600</b>	<b>1155</b>	<b>1330</b>

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		36#	9 5/8"		Surface		1,500
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			12 1/4"		Surface	800	Shots/Ft.
Perforations							
Perforations							
Perforations							

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

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
12.6.12	7.0	12.6.12	1.0	Surface
Total	7.0	Total	1.0	

Pressures			
MAX	1,500 PSI	AVG	300
Average Rates in BPM			
MAX	6 BPM	AVG	5
Cement Left in Pipe			
Feet	42	Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	275	TEX Lite Premium Plus 66	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	100	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 Breakdown	Type: _____	MAXIMUM _____	Lost Returns-N _____	Actual TOC _____	Bump Plug PSI: _____
Average	5 Min. _____	10 Min. _____	15 Min. _____	Final Circ. _____	Cement Slurry: _____
				PSI: _____	BBI _____
				Load & Bkdn: _____	Gal - BBI _____
				Excess /Return _____	BBI _____
				Calc. TOC: _____	SURFACE _____
				Final Circ. _____	PSI: _____
				Cement Slurry: _____	BBI _____
				Total Volume _____	BBI _____
					10.00 _____
					N/A _____
					20 _____
					58 _____
					57.60 _____
					57.60 _____

CUSTOMER REPRESENTATIVE \_\_\_\_\_ SIGNATURE \_\_\_\_\_



<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 2209</b>	TICKET DATE <b>12/11/12</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Sandridge Exploration &amp; Production</b>	CUSTOMER REP <b>David Montoya</b>	
LEASE NAME <b>Turner 3406</b>	Well No. <b>2-7H</b>	JOB TYPE <b>Intermediate</b>	EMPLOYEE NAME <b>Matt Wilsonn</b>	

EMP NAME	<b>Matt Wilson</b>				

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_

Packer Type \_\_\_\_\_ Set At **3,722'**

Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_

Retainer Depth \_\_\_\_\_ Total Depth **5,167'**

Date	Called Out	On Location	Job Started	Job Completed
	<b>12/12/2012</b>	<b>12/12/2012</b>	<b>12/12/2012</b>	<b>12/12/2012</b>
Time	<b>7:00 am</b>	<b>9:00 am</b>	<b>11:15 am</b>	<b>1:00 pm</b>

Tools and Accessories		
Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	1	IR
HEAD	1	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data							
	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		26#	7"		Surface	5,173	5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 3/4"		Surface	5,167	Shots/Ft.
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	<b>9</b> Lb/Gal
Disp. Fluid	Fresh Water	Density	<b>8.33</b> Lb/Gal
Spacer type	resh Water	BBL.	<b>20</b> 8.33
Spacer type	Caustic	BBL.	<b>10</b> 8.40
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	In	
NE Agent	Gal.	In	
Fluid Loss	Gal/Lb	In	
Gelling Agent	Gal/Lb	In	
Fric. Red.	Gal/Lb	In	
MISC.	Gal/Lb	In	
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
<b>12/12</b>	<b>4.0</b>	<b>12/12</b>	<b>4.0</b>	Intermediate
Total	<b>4.0</b>	Total	<b>4.0</b>	

Pressures			
MAX	<b>5,000 PSI</b>	AVG	<b>800</b>
Average Rates in BPM			
MAX	<b>8 BPM</b>	AVG	<b>6</b>
Cement Left in Pipe			
Feet	<b>84</b>	Reason	<b>SHOE JOINT</b>

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
<b>1</b>	<b>200</b>	<b>50/50 POZ PREMIUM</b>	<b>4% Gel - 0.4% C-12 - 0.1% C-37 - 0.5% C-41P - 2 lb/sk Phenoseal</b>	<b>6.77</b>	<b>1.44</b>	<b>13.60</b>
<b>2</b>	<b>100</b>	<b>Premium</b>	<b>0.4% C-12 - 0.1% C-37</b>	<b>5.20</b>	<b>1.18</b>	<b>16.60</b>
<b>3</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0.00</b>	<b>0.00</b>

Summary					
Preflush	<b>10</b>	Type:	Caustic	Preflush:	BBI <b>30.00</b> Type: <b>WEIGHTED SP.</b>
Breakdown		MAXIMUM	<b>5,000 PSI</b>	Load & Bkdn:	Gal - BBI <b>N/A</b> Pad:Bbl -Gal <b>N/A</b>
		Lost Returns-N	<b>NO/FULL</b>	Excess /Return	BBI <b>N/A</b> Calc.Disp Bbl <b>195</b>
		Actual TOC		Calc. TOC:	<b>3,291</b> Actual Disp. <b>195.00</b>
Average		Bump Plug PSI:		Final Circ. PSI:	<b>2,000</b> Disp:Bbl
tsip	5 Min.	10 Min	15 Min	Cement Slurry: BBI	<b>72.0</b>
				Total Volume	BBI <b>297.00</b>

CUSTOMER REPRESENTATIVE Harold Roller SIGNATURE \_\_\_\_\_

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 2236</b>	TICKET DATE <b>12/18/12</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Bridge Exploration &amp; Produc</b>	CUSTOMER REP <b>Harold Roller</b>	
LEASE NAME <b>Turner 3406</b>	Well No. <b>2-7H</b>	JOB TYPE <b>Liner</b>	EMPLOYEE NAME <b>Matt Wilson</b>	

EMP NAME							
<b>Matt Wilson</b>		0.00					
Jared Green							
Emmit Brock							
David Thomas							

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_

Packer Type \_\_\_\_\_ Set At **5,167**

Bottom Hole Temp. **160** Pressure \_\_\_\_\_

Retainer Depth \_\_\_\_\_ Total Depth **9152**

Date	Called Out <b>12/18/2012</b>	On Location <b>12/18/2012</b>	Job Started <b>12/18/2012</b>	Job Completed <b>12/18/2012</b>
Time	<b>1:00 am</b>	<b>7:00 am</b>	<b>9:33am</b>	<b>12:00 pm</b>

Tools and Accessories

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

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		11.6	4 1/2		4680	9,149	
Liner Tool					4,669	4,692	
Drill Pipe			4		3,720	4,669	
HWDP			4		2,340	3,720	
Drill Pipe			4		surface	3,720	
Open Hole			6 1/8"		Surface	9,152	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

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

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
12/18	6.0	12/18		Liner
Total	6.0	Total	0.0	

Pressures

MAX	3,500 PSI	AVG.	300
Average Rates in BPM		MAX	6 BPM
AVG		AVG	5
Cement Left in Pipe		Feet	88
Reason		SHOE JOINT	

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	500	50/50 Premium Poz	(4%Gel) -.4% C12 -.1% C37 - 0.5% C-41P - 2 Lb/Sk Phenoseal	6.77	1.44	13.60
2	0	0		0	0.00	0.00
3	0	0		0	0.00	0.00

Summary

Preflush Breakdown	10-	Type: Caustic	Preflush: BBI	20.00	Type: 8.59#SPACER
		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 110
		Actual TOC 4.697'	Calc. TOC: 4.100		Actual Disp. 110.00
Average		Bump Plug PSI: _____	Final Circ. PSI: 580		Disp:Bbl _____
ISIP	5 Min.	10 Min. _____	Cement Slurry: BBI	128.0	
		15 Min. _____	Total Volume BBI	258.00	

CUSTOMER REPRESENTATIVE Harold Roller SIGNATURE

Directional Survey Calculations	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
									-250	5486	4598	810
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-250	5486	4598	810
BHL	9152	89.80	178.30	4658.93	-4936.89	195.03	4940.72	0.00	4690	549	4783	681
Miss Entry	4928	75.08	179.28	4614.88	-722.10	42.49	723.26	3.94	473	4764	4639	777
Top Perf	4948	76.09	179.57	4619.78	-741.49	42.68	742.63	4.02	492	4745	4639	777
Bottom Perf	9044	90.05	179.04	4658.66	-4828.94	192.10	4832.73	1.54	4582	657	4780	682

Survey Points	NW Corner XY Coord	X	Y	Surface XY	X	Y	m	
							North Line slope	0.0160813
	SW Corner XY Coord	2139919	150880		2144506	156377	East Line slope	-0.013341
	NE Corner XY Coord	2145319	156140				South Line slope	0.0023766
	SE Corner XY Coord	2145389	150893				West Line slope	-0.0019331

	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
									-250	5486	4598	810
	0	0.0	0	0	0	0	0	0	-250	5486	4598	810
	933	1.00	159.10	932.95	-8	3	7.72	0.11	-242	5478	4601	807
	1394	0.70	171.10	1393.90	-14	5	14.34	0.08	-236	5472	4602	805
	1868	0.50	131.00	1867.88	-18	7	18.64	0.10	-232	5468	4604	803
	2343	0.20	338.60	2342.87	-19	8	19.28	0.14	-231	5467	4606	802
	2818	0.30	60.40	2817.87	-18	9	17.93	0.07	-232	5469	4606	801
	3293	0.30	128.50	3292.86	-18	11	18.17	0.07	-232	5468	4608	799
	3673	1.60	175.90	3672.81	-24	12	24.13	0.37	-226	5462	4610	798
	3703	1.70	177.70	3702.79	-24	12	24.99	0.38	-225	5462	4610	798
	3735	2.00	167.90	3734.78	-26	12	26.02	1.36	-224	5461	4610	798
	3767	4.30	167.00	3766.73	-27	13	27.75	7.19	-223	5459	4610	798
	3798	6.80	169.10	3797.58	-30	13	30.71	8.09	-220	5456	4611	797
	3830	9.00	170.90	3829.27	-35	14	35.07	6.92	-215	5452	4612	796
	3862	11.00	170.30	3860.79	-40	15	40.58	6.26	-210	5446	4612	795
	3893	12.30	173.00	3891.15	-46	16	46.81	4.55	-204	5440	4613	795
	3925	13.30	179.00	3922.35	-53	16	53.89	5.19	-197	5433	4614	794
	3957	13.20	179.10	3953.50	-61	16	61.22	0.32	-189	5425	4614	794
	3988	16.30	180.50	3983.48	-68	16	69.10	10.07	-181	5418	4614	794
	4020	19.60	181.20	4013.91	-78	16	78.95	10.33	-171	5408	4614	795
	4051	22.60	180.80	4042.83	-89	16	90.08	9.69	-160	5397	4614	795
	4083	25.50	179.80	4072.05	-103	16	103.11	9.15	-147	5384	4613	795
	4115	28.30	180.50	4100.59	-117	16	117.57	8.81	-133	5369	4613	795
	4146	30.00	181.00	4127.66	-132	16	132.65	5.54	-118	5354	4613	796
	4178	31.60	181.20	4155.14	-148	15	149.00	5.01	-101	5338	4613	796
	4210	33.40	181.50	4182.13	-166	15	166.15	5.65	-84	5320	4612	797
	4241	35.20	182.20	4207.74	-183	14	183.57	5.94	-67	5303	4612	798
	4273	37.50	180.90	4233.51	-202	14	202.49	7.58	-48	5284	4611	799
	4305	40.10	180.00	4258.45	-222	14	222.52	8.31	-28	5264	4611	799
	4336	42.40	179.20	4281.75	-243	14	242.94	7.61	-7	5243	4611	799
	4368	44.90	178.40	4304.91	-265	14	265.02	8.00	15	5221	4612	799
	4400	46.80	177.60	4327.20	-288	15	287.98	6.20	38	5198	4612	798
	4463	50.90	177.20	4368.64	-335	17	335.41	6.53	85	5151	4614	797
	4526	51.30	176.60	4408.20	-384	20	384.43	0.98	134	5102	4617	795
<b>Top of Tangent @ 4473'</b>	4558	51.10	175.80	4428.26	-409	22	409.37	2.05	159	5077	4619	794
	4589	50.50	175.00	4447.85	-433	24	433.37	2.78	183	5053	4620	792
	4621	50.10	174.80	4468.29	-457	26	457.97	1.34	208	5029	4623	790
	4653	49.40	173.90	4488.97	-482	28	482.35	3.06	232	5004	4625	788
	4684	50.90	173.50	4508.83	-505	31	506.10	4.94	256	4981	4627	786
<b>Btm of Tangent @ 4673'</b>	4716	53.90	173.80	4528.35	-530	34	531.39	9.40	281	4956	4630	783
	4748	57.10	175.10	4546.48	-557	36	557.72	10.55	307	4929	4633	781
	4779	61.00	176.50	4562.42	-583	38	584.28	13.16	334	4903	4635	780
	4811	65.00	177.50	4576.94	-612	40	612.79	12.81	362	4874	4636	778
	4843	68.60	178.20	4589.54	-641	41	642.20	11.43	392	4845	4637	778
	4874	71.90	178.50	4600.02	-670	42	671.37	10.68	421	4816	4638	777
	4906	74.80	179.00	4609.19	-701	42	702.01	9.19	451	4785	4638	777
	4937	75.20	179.40	4617.21	-731	43	731.94	1.79	481	4755	4639	777
	4969	77.80	179.90	4624.68	-762	43	763.04	8.27	513	4724	4639	777
	5001	80.50	180.10	4630.70	-793	43	794.43	8.46	544	4693	4639	778
	5032	81.30	179.90	4635.61	-824	43	825.01	2.66	575	4662	4639	778
	5064	82.80	179.90	4640.03	-856	43	856.68	4.69	606	4630	4639	778
	5096	85.10	179.80	4643.40	-887	43	888.47	7.19	638	4599	4639	779
	5127	87.80	179.80	4645.32	-918	43	919.39	8.71	669	4568	4639	779
	5142	88.80	179.90	4645.77	-933	43	934.37	6.70	684	4553	4639	779
	5206	89.90	179.90	4646.49	-997	43	998.31	1.72	748	4489	4639	780
	5269	89.50	179.00	4646.82	-1060	44	1061.27	1.56	811	4426	4639	780
	5361	88.90	178.90	4648.11	-1152	45	1153.24	0.66	903	4334	4641	780
	5453	89.60	177.10	4649.31	-1244	49	1245.22	2.10	995	4242	4644	778
	5545	91.50	175.40	4648.43	-1336	55	1337.19	2.77	1087	4150	4650	773
	5637	91.10	176.90	4646.34	-1428	61	1429.13	1.69	1179	4058	4656	768
	5729	90.70	177.10	4644.90	-1520	66	1521.12	0.49	1271	3966	4660	764
	5821	92.10	178.30	4642.65	-1612	69	1613.08	2.00	1363	3874	4664	762
	5913	87.20	178.30	4643.21	-1704	72	1705.05	5.33	1455	3782	4666	760
	5944	87.40	178.60	4644.67	-1734	73	1736.01	1.16	1486	3751	4667	760
	6005	88.30	179.60	4646.96	-1795	74	1796.94	2.20	1547	3690	4668	760
	6097	90.90	181.70	4647.60	-1887	73	1888.79	3.63	1638	3599	4667	762

Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)				
								FNL	FSL	FWL	FEL
6189	89.80	180.70	4647.04	-1979	71	1980.60	1.62	1730	3507	4665	765
6220	90.00	181.30	4647.09	-2010	70	2011.54	2.04	1761	3476	4664	766
6281	88.90	180.40	4647.68	-2071	70	2072.44	2.33	1822	3415	4663	768
6373	88.80	179.40	4649.53	-2163	70	2164.34	1.09	1914	3323	4663	769
6465	88.40	179.10	4651.77	-2255	71	2256.27	0.54	2006	3231	4664	769
6557	89.70	178.30	4653.30	-2347	73	2348.24	1.66	2098	3139	4666	768
6588	90.00	178.70	4653.38	-2378	74	2379.24	1.61	2129	3108	4667	768
6649	89.90	177.90	4653.43	-2439	76	2440.23	1.32	2190	3047	4668	767
6681	89.70	177.30	4653.55	-2471	77	2472.23	1.98	2222	3015	4670	766
6744	89.70	177.30	4653.88	-2534	80	2535.23	0.00	2285	2952	4673	764
6839	89.70	176.80	4654.37	-2629	85	2630.22	0.53	2380	2857	4677	760
6934	89.40	176.30	4655.12	-2724	90	2725.20	0.61	2475	2762	4683	756
7029	85.70	173.50	4659.18	-2818	99	2819.99	4.88	2570	2668	4691	749
7060	85.70	173.80	4661.50	-2849	102	2850.83	0.97	2601	2637	4694	746
7124	87.70	174.70	4665.19	-2913	109	2914.62	3.43	2664	2573	4701	740
7155	88.40	174.80	4666.24	-2943	112	2945.56	2.28	2695	2542	4704	738
7187	89.50	175.30	4666.83	-2975	114	2977.52	3.78	2727	2510	4706	735
7219	89.00	175.10	4667.25	-3007	117	3009.49	1.68	2759	2479	4709	733
7250	88.40	174.60	4667.95	-3038	120	3040.45	2.52	2790	2448	4712	731
7275	89.20	174.00	4668.48	-3063	122	3065.41	4.00	2815	2423	4714	728
7307	89.90	173.90	4668.73	-3095	126	3097.34	2.21	2847	2391	4717	725
7339	90.70	174.00	4668.56	-3127	129	3129.28	2.52	2879	2359	4721	723
7370	91.50	174.70	4667.96	-3157	132	3160.22	3.43	2910	2328	4724	720
7402	93.10	175.20	4666.68	-3189	135	3192.16	5.24	2941	2296	4726	717
7434	93.50	175.30	4664.84	-3221	138	3224.08	1.29	2973	2265	4729	715
7465	92.20	175.20	4663.30	-3252	140	3255.02	4.21	3004	2234	4731	713
7497	93.50	175.40	4661.71	-3284	143	3286.96	4.11	3036	2202	4734	711
7528	94.60	175.80	4659.52	-3315	145	3317.86	3.77	3067	2171	4736	709
7560	95.10	175.70	4656.81	-3346	147	3349.73	1.59	3099	2139	4739	707
7592	94.40	175.70	4654.16	-3378	150	3381.60	2.19	3131	2107	4741	705
7623	93.90	176.70	4651.92	-3409	152	3412.51	3.60	3162	2077	4743	703
7655	92.90	176.70	4650.02	-3441	154	3444.45	3.12	3193	2045	4745	702
7687	91.70	177.20	4648.74	-3473	155	3476.42	4.06	3225	2013	4746	701
7718	90.50	178.00	4648.14	-3504	157	3507.42	4.65	3256	1982	4748	700
7750	88.00	178.60	4648.56	-3536	158	3539.41	8.03	3288	1950	4748	699
7782	85.80	178.60	4650.29	-3568	158	3571.36	6.88	3320	1918	4749	699
7813	85.40	178.70	4652.67	-3599	159	3602.26	1.33	3351	1887	4750	699
7845	85.40	178.40	4655.23	-3631	160	3634.15	0.93	3383	1855	4751	698
7908	88.00	177.90	4658.86	-3693	162	3697.04	4.20	3446	1792	4753	697
7940	90.00	177.70	4659.42	-3725	163	3729.03	6.28	3478	1760	4754	696
8003	90.30	177.40	4659.25	-3788	166	3792.03	0.67	3541	1697	4756	694
8035	90.00	177.60	4659.17	-3820	167	3824.03	1.13	3573	1665	4758	693
8098	90.30	178.10	4659.01	-3883	170	3887.03	0.93	3636	1602	4760	692
8130	89.80	178.10	4658.98	-3915	171	3919.03	1.56	3668	1570	4761	691
8193	90.30	178.10	4658.92	-3978	173	3982.02	0.79	3731	1507	4763	690
8225	91.10	177.80	4658.53	-4010	174	4014.02	2.67	3763	1475	4764	689
8288	90.50	178.00	4657.65	-4073	176	4077.01	1.00	3826	1412	4766	688
8320	90.40	178.60	4657.40	-4105	177	4109.01	1.90	3858	1380	4767	687
8383	90.20	178.00	4657.07	-4168	179	4172.00	1.00	3921	1318	4769	686
8415	90.40	178.50	4656.90	-4200	180	4204.00	1.68	3953	1286	4770	686
8446	90.00	178.80	4656.80	-4231	181	4234.99	1.61	3984	1255	4770	685
8478	89.20	178.80	4657.02	-4263	182	4266.98	2.50	4016	1223	4771	685
8510	89.10	178.20	4657.49	-4295	182	4298.98	1.90	4048	1191	4772	685
8573	89.50	177.70	4658.26	-4358	185	4361.97	1.02	4111	1128	4774	683
8605	89.80	178.40	4658.46	-4390	186	4393.97	2.38	4143	1096	4775	683
8668	88.90	178.60	4659.17	-4453	187	4456.95	1.46	4206	1033	4776	682
8700	88.80	178.60	4659.82	-4485	188	4488.94	0.31	4238	1001	4777	682
8763	89.30	178.60	4660.86	-4548	190	4551.92	0.79	4301	938	4778	681
8858	90.50	179.80	4661.03	-4643	191	4646.88	1.79	4396	843	4780	681
8953	91.20	179.90	4659.62	-4738	191	4741.79	0.74	4491	748	4780	682
9048	90.00	179.00	4658.62	-4833	192	4836.73	1.58	4586	653	4780	682
9080	89.80	178.30	4658.68	-4865	193	4868.73	2.28	4618	621	4781	682
9152	89.80	178.30	4658.93	-4937	195	4940.72	0.00	4690	549	4783	681

Section 7  
34S 6W

TURNER 3406 5-7H

TURNER 3406 6-7H

TURNER 3406 1-7H

MYRA 3406 1-8H

Section 8  
34S 6W

TURNER 3406 2-7H

Miss Entry: 4928'  
-98.004782 37.093093

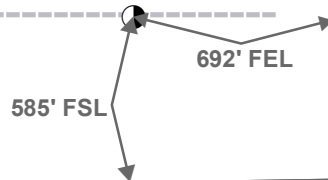
Top Perf: 4948'  
-98.004783 37.093007

Section 18  
34S 6W

Section 17  
34S 6W

Bottom Perf: 8624'  
-98.004359 37.083042

BHL: 9152'  
-98.004338 37.081539



Section 19  
34S 6W

Section 20  
34S 6W



**Actual Bottom-Hole Location of Turner 3406 2-7H**  
 Harper County, Kansas  
 T&R: 34S 6W  
 Section: 18, 692' FEL & 585' FSL  
 Long/Lat: -98.004338 37.081539

1 in = 667 ft

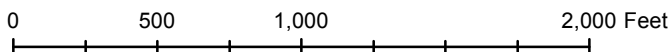


● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 3/5/2013

Drawing Name/Number:

Addendum\_Turner\_2-7H.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502

Remarks

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Tiffany Golay  
02/18/013 02:16 pm

Conductor weight= 106.5 lbs/ft

Tiffany Golay  
02/18/013 02:08 pm

TVD= 4,658'