

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1240291  
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: \_\_\_\_\_

1240291

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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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**INVOICE**

DATE	INVOICE #
10/14/2014	5186

<b>BILL TO</b>
SANDRIDGE ENERGY, INC. ATTN: PURCHASING MANAGER 123 ROBERT S. KERR AVENUE OKLAHOMA CITY, OK 73102

<b>REMIT TO</b>
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
HARPER	10/8/2014	3782	LARIAT #40	CAROTHERS 3206 2-34H	Due on rec...
Description					
DRILLED 90' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 90' OF 20" CONDUCTOR PIPE FURNISHED WELDER AND MATERIALS FURNISHED 9 YARDS OF 10 SACK GROUT FOR CONDUCTOR HOLE FURNISHED 4 YARDS OF 10 SACK GROUT FOR MOUSE HOLE DRILL MOUSE HOLE FURNISHED 80' OF 16" CONDUCTOR PIPE  TOTAL BID \$18,000.00					
<b>Sales Tax (6.5%)</b>					\$271.18
<b>TOTAL</b>					\$18,271.18

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 4393</b>	TICKET DATE <b>10/27/14</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Bridge Exploration &amp; Produc</b>	CUSTOMER REP <b>Rex Roghair</b>	
LEASE NAME <b>Carothers 3206</b>	Well No. <b>2-34H</b>	JOB TYPE <b>Surface</b>	EMPLOYEE NAME <b>John Hall</b>	

EMP NAME <b>John Hall</b>	<b>0</b>				
<b>Roy Morris</b>					
<b>Flo Helkena</b>					
<b>0.00</b>					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At **0**  
 Bottom Hole Temp. **80** Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth **700**

Date	Called Out	On Location	Job Started	Job Completed
	<b>10/27/2014</b>	<b>10/27/2014</b>	<b>10/27/2014</b>	<b>10/27/2014</b>
Time	<b>130pm</b>	<b>500am</b>	<b>1030am</b>	<b>100pm</b>

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

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		<b>36#</b>	<b>9 5/8"</b>		<b>Surface</b>	<b>656</b>	<b>1,500</b>
Liner							
Liner							
Tubing			<b>0</b>				
Drill Pipe							
Open Hole				<b>12 1/4"</b>	<b>Surface</b>	<b>651</b>	<b>Shots/Ft.</b>
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	<b>8.33</b>	
Spacer type	Fresh Water BBL.	<b>10</b>	<b>8.33</b>
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	
<b>10/27</b>	<b>8.0</b>	<b>10/27</b>	<b>2.5</b>	<b>Surface</b>
<b>Total</b>	<b>8.0</b>	<b>Total</b>	<b>2.5</b>	

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

Pressures			
MAX	<b>2,000 PSI</b>	AVG.	<b>300 psi</b>
Average Rates in BPM			
MAX	<b>6 BPM</b>	AVG	<b>5 bpm</b>
Cement Left in Pipe			
Feet	<b>46</b>	Reason	<b>SHOE JOINT</b>

Cement Data				W/Rq.	Yield	Lbs/Gal
Stage	Sacks	Cement	Additives			
<b>1</b>	<b>180</b>	<b>TEX Lite Premium Plus 65</b>	<b>(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - 0.2% X-Air</b>	<b>11.11</b>	<b>2.01</b>	<b>12.40</b>
<b>2</b>	<b>165</b>	<b>Premium Plus (Class C)</b>	<b>2% Calcium Chloride - 1/4pps Cello-Flake</b>	<b>6.32</b>	<b>1.32</b>	<b>14.80</b>
<b>3</b>	<b>*100</b>	<b>Premium Plus (Class C)</b>	<b>*2% Calcium Chloride on side to use if necessary</b>	<b>*6.32</b>	<b>*1.32</b>	<b>*14.8</b>

Summary			
Preflush Breakdown	Type: _____	MAXIMUM _____	12,000 PSI
	Lost Returns-#	NO/FULL	
	Actual TOC	SURFACE	
Average	Bump Plug PSI:	900	
ISIP _____	5 Min. _____	10 Min. _____	15 Min. _____
Preflush:	BBI	<b>10.00</b>	Type: <b>Fresh Water</b>
Load & Bkdn:	Gal - BBI	<b>N/A</b>	Pad:Bbl -Gal <b>N/A</b>
Excess /Return	BBI	<b>40</b>	Calc.Disp Bbl <b>47</b>
Calc. TOC:		<b>SURFACE</b>	Actual Disp. <b>47.00</b>
Final Circ. PSI:		<b>300</b>	Disp:Bbl <b>47.00</b>
Cement Slurry BBI		<b>103.1</b>	
Total Volume	BBI	<b>160.10</b>	

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



7303 N. Highway 81  
Duncan, OK 73533

# Invoice

Date:	Invoice #:
11/6/2014	0000017764

Phone # (580) 255-3111

Bill To
Sandridge Exploration & Production 123 Robert S Kerr Ave Oklahoma City, OK 73102-6406

Description of Work
HARPER, COUNTY KS AFE DC14259 API 15-077-22100-01-00
Job Type: Kick off plug(plug back, Balanced Plug)

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK4418	Net 30	11/1/2014	12/6/2014	AFE DC14259	CAROTHERS 3206 2-34H

Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount
ML001	Pickup Mileage	UNTML	100	4.26	426.00	40.00%	-170.40	255.60
ML002	Pump Truck/Heavy Vehicle Mileage	UNTML	100	7.32	732.00	40.00%	-292.80	439.20
ML003	Bulk Cement Delivery/Return	MILE	838	2.95	2,472.10	40.00%	-988.84	1,483.26
MX001	Bulk Material Mixing Service Charge	SCF	358	3.27	1,170.66	40.00%	-468.26	702.40
CT005	Pump Charge 4001-5000'	4-HRS	1	4,312.44	4,312.44	40.00%	-1,724.98	2,587.46
CT015	Pump Charge Additional Hours	UNTHRS	6	588.06	3,528.36	40.00%	-1,411.34	2,117.02
ML014	Fuel Surcharge *	JOB	1	653.40	653.40	40.00%	-261.36	392.04
AE014	Environmental Fee*	JOB	1	228.69	228.69	40.00%	-91.48	137.21
PC003	Employee/Supervisor Retention/perdiem	PR/MAN	1	1,306.80	1,306.80	55.00%	-718.74	588.06
JM001	Data Acquisition System	JOB	1	1,437.48	1,437.48	40.00%	-574.99	862.49
AE017	Swage, 4 1/2" - 13 3/8"	DAY	1	457.38	457.38	40.00%	-182.95	274.43
AE007	1" to 2" valves	JOB	1	424.71	424.71	40.00%	-169.88	254.83
CP002	H (Premium Cement) (94 lbs/ft3)	94SACK	355	30.80	10,934.01	40.00%	-4,373.60	6,560.41
CP004	CF-37 (Dispersant)	LBS	133	13.55	1,802.15	40.00%	-720.86	1,081.29

Subtotal Amount	29,886.18
Sales Tax	469.96
Discount Amount	-12,150.48
Payment/Credit Amount	0.00
<b>Total Net Amount</b>	<b>18,205.66</b>

Contact: Sandridge Exploration & Production

# O-TEX PUMPING LLC

Service Location Fairview, Oklahoma  
 Service Address 601 Industrial Blvd 73737

Service Date: 11/1/2014  
 Customer Sandridge Exploration & Production  
 Address: City St  
 Customer Rep Luiz Garza  
 Phone 281-840-6625

## FIELD RECEIPT

Phone number 580-227-2727

Project Number: SOK 4418

Well Name: Carothers 3206  
 Well Number: 2-34H  
 County: Harper  
 State: Kansas  
 API # 15-077-22100-01-00  
 AFE # DC14259  
 PERMIT #

JOB TYPE Kickoff Plug  
 CASING SIZE Serv. Sup.  
 Louis Arney  
 Page 1 of 1

REF #	DESCRIPTION	U OF MEAS.	UNIT PRICE	QUAN	GROSS	%DISC	Pump #	disc	NET
ML001	Pickup Mileage	per mile/ per Unit	4.26	100.0	\$426.00	40%	314302A-Single	\$170.40	\$255.60
ML002	Pump Truck/Heavy Vehicle Mileage	per mile/ per Unit	7.32	100.0	\$732.00	40%	Pump 2 #	\$292.80	\$439.20
ML003	Bulk Cement Delivery/Return	per Ton-Mile	2.95	838.0	\$2,472.10	40%		\$988.84	\$1,483.26
MX001	Bulk Material Mixing Service Charge	per cuft	3.27	358.0	\$1,170.66	40%		\$468.26	\$702.40
CT005	Pump Charge 4001-5000'	(per 4 hrs)	4,312.44	1.0	\$4,312.44	40%		\$1,724.98	\$2,587.46
CT015	Fuel Charge Additional Hours	per hour/per unit	588.06	6.0	\$3,528.36	40%		\$1,411.34	\$2,117.02
ML014	Environmental Fee *	per unit per job	653.40	1.0	\$653.40	40%		\$261.36	\$392.04
AE014	Employee/Supervisor Retention/perdiem	per job	228.69	1.0	\$228.69	40%		\$91.48	\$137.21
PC003	Data Acquisition System	Per Job	1,306.80	1.0	\$1,306.80	55%		\$718.74	\$588.06
JM001	Swage, 4 1/2" - 13 3/8"	Per day	1,437.48	1.0	\$1,437.48	40%		\$574.99	\$862.49
AE017	1" to 2" valves	per job	457.38	1.0	\$457.38	40%		\$182.95	\$274.43
AE007	H (Premium Cement) (94 lbs/ft3)	per job	424.71	1.0	\$424.71	40%		\$169.88	\$254.83
CP002	CF-37 (Dispersant)	per sk	30.80	355.0	\$10,934.00	40%		\$4,373.60	\$6,560.40
CP004		per lb	13.55	133.0	\$1,802.15	40%		\$720.86	\$1,081.29
								\$12,150.49	\$17,735.68

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.  
 Customer Authorized Agent:

RECEIVED NOV 9 5 2014

# O-TEX PUMPING LLC

Service Location Fairview, Oklahoma  
 Service Address 601 Industrial Blvd 73737

Service Date: 11/1/2014  
 Customer Address: Sandridge Exploration & Production  
 City St  
 Customer Rep Luiz Garza  
 Phone 281-840-6625

## FIELD RECEIPT

Phone number 580-227-2727

Project Number: SOK 4418

Well Name: Carothers 3206  
 Well Number: 2-34H  
 County: Harper  
 State: Kansas  
 API # 15-077-22100-01-00  
 PERMIT # DC14259

Job Type Surface  
 Serv. Sup. 0  
 Page 1 of 1

REF #	DESCRIPTION	U OF MEAS.	UNIT PRICE	QUAN	GROSS	%DISC	Pump #		NET
							disc	Pump 2 #	
ML001	Pickup Mileage	per mile/ per Unit	4.26	100.0	\$426.00	40%	\$170.40	0	\$255.60
ML002	Pump Truck/Heavy Vehicle Mileage	per mile/ per Unit	7.32	100.0	\$732.00	40%	\$292.80	0	\$439.20
ML003	Bulk Cement Delivery/Return	per Ton-Mile	2.95	838.0	\$2,472.10	40%	\$988.84		\$1,483.26
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CT005	Pump Charge 4001-5000'	(per 4 hrs)	4,312.44	1.0	\$4,312.44	40%	\$1,724.98		\$2,587.46
CT015	Pump Charge Additional Hours	per hour/per unit	588.06	6.0	\$3,528.36	40%	\$1,411.34		\$2,117.02
ML014	Fuel Surcharge *	per unit per job	653.40	1.0	\$653.40	40%	\$261.36		\$392.04
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PC003	Employee/Supervisor Retention/perdiem	per job	1,306.80	1.0	\$1,306.80	55%	\$718.74		\$588.06
JM001	Data Acquisition System	Per Job	1,437.48	1.0	\$1,437.48	40%	\$574.99		\$862.49
AE017	Swage, 4 1/2" - 13 3/8"	Per day	457.38	1.0	\$457.38	40%	\$182.95		\$274.43
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CP004	CF-37 (Dispersant)	per lb	13.55	133.0	\$1,802.15	40%	\$720.86		\$1,081.29
							\$29,886.17	\$12,150.49	\$17,735.68

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.  
 Customer Authorized Agent:

AFE Number: DC14259  
 Well Name: Carothers 32062-34H  
 Code: 830-210  
 Amount: \$17,735.68  
 Co. Man: Luis Garza  
 Co. Man Sig: *[Signature]*  
 Notes:



# SERVICE ORDER CONTRACT

Customer Name Sandridge Exploration & Production Ticket Number SOK 4418

Lease & Well Number Carothers 3206 2-34H Date 11/1/2014

As consideration, The Above Named customer Agrees:

O-TEX Pumping L.L.C. shall not be responsible for and customer shall secure O-TEX pumping against any liability for damage to property of customer and of the well owner (if different from customer), unless caused by the willful misconduct or gross negligence of O-TEX pumping, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.

O-TEX makes no guarantee to the effectiveness of the products, supplies, or materials, nor of the results of any treatment or services. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, O-TEX personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others except where due to O-TEX gross negligence or willful misconduct in the preparation or furnishing it.

Invoices payable NET 30 days following the date on the invoice.

Upon customers default in payment of the customers account by the last day of the month following the month in which the invoice is dated.

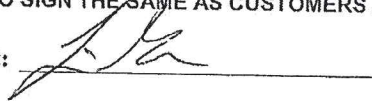
Customer agrees to pay interest thereon after at the highest lawful contract rate applicable but never to exceed 18% per annum in the event it becomes necessary to employ an attorney to enforce collection of said account.

Customer agrees to pay all collection costs and attorney fees in the amount of 25% of the unpaid account.

Service order: I authorize work to begin per service instructions in accordance with terms and conditions printed on this form and represent that I have authority to accept and sign this order.

**I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.**

Customer Authorized Agent: \_\_\_\_\_





7303 N. Highway 81  
Duncan, OK 73533

# Invoice

Date:	Invoice #:
11/11/2014	0000017888

Phone # (580) 255-3111

Bill To
Sandridge Exploration & Production 123 Robert S Kerr Ave Oklahoma City, OK 73102-6406

Description of Work
HARPER, COUNTY KS AFE DC14259 API 15-077-22100-01-00
Job Type: Intermediate

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK4453	Net 30	11/8/2014	12/11/2014	AFE DC14259	CAROTHERS 3206 2-34H

Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount
ML001	Pickup Mileage	UNTMIL	100	4.26	426.00	60.00%	-255.60	170.40
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	100	7.32	732.00	60.00%	-439.20	292.80
ML003	Bulk Cement Delivery/Return	MILE	754	2.95	2,224.30	60.00%	-1,334.58	889.72
MX001	Bulk Material Mixing Service Charge	SCF	353	3.27	1,154.31	60.00%	-692.59	461.72
CC006	Pump Charge 5001-6000'	4-HRS	1	4,671.81	4,671.81	60.00%	-2,803.09	1,868.72
CC015	Pump Charge Additional Hours	UNTHRS	4	588.06	2,352.24	35.00%	-823.28	1,528.96
ML014	Fuel Surcharge *	JOB	1	653.40	653.40	100.00%	-653.40	0.00
AE014	Environmental Fee*	JOB	1	228.69	228.69	100.00%	-228.69	0.00
PC003	Employee/Supervisor Retention/perdiem	PR/MAN	4	1,306.80	5,227.20	90.00%	-4,704.48	522.72
JM001	Data Acquisition System	JOB	1	1,437.48	1,437.48	60.00%	-862.49	574.99
AE003	Circulation Equipment( 40' of equipment)	JOB	1	1,633.50	1,633.50	60.00%	-980.10	653.40
AE002	Cement Head with manifold	JOB	1	1,176.12	1,176.12	60.00%	-705.67	470.45
LT005	Lab Testing - Thickening Time	EACH	2	326.70	653.40	0.00%	0.00	653.40
LT006	Lab Testing - Water Analysis	EACH	1	326.70	326.70	0.00%	0.00	326.70
CL011	7" Top Rubber Plug	EACH	1	203.28	203.28	35.00%	-71.15	132.13
CSB002	50/50 Poz With Premium	SACK	235	22.28	5,235.80	53.00%	-2,774.97	2,460.83
CP002	H (Premium Cement) (94 lbs/ft3)	94SACK	100	30.80	3,080.00	53.00%	-1,632.40	1,447.60
CP005	GEL	LBS	1,295	0.68	880.60	53.00%	-466.72	413.88
CPC29	FL-17 FLA	LBS	58	40.00	2,320.00	53.00%	-1,229.60	1,090.40
CP034	CF - 51 (Anti settling agent)	LBS	29	27.10	785.90	53.00%	-416.53	369.37
CP004	CF-37 (Dispersant)	LBS	20	13.55	271.00	53.00%	-143.63	127.37
CP013	CF - 20 (Lignosulfate Retarder) (below 2	LBS	74	13.55	1,002.70	53.00%	-531.43	471.27
CPC43	X-Air P (Antifoam)	LBS	58	8.80	510.40	53.00%	-270.51	239.89

Subtotal Amount	*****
Sales Tax	*****
Discount Amount	*****
Payment/Credit Amount	*****
Total Net Amount	*****

Contact: Sandridge Exploration & Production



7303 N. Highway 81  
Duncan, OK 73533

# Invoice

Date:	Invoice #:
11/11/2014	0000017888

Phone # (580) 255-3111

Bill To
Sandridge Exploration & Production 123 Robert S Kerr Ave Oklahoma City, OK 73102-6406

Description of Work
HARPER, COUNTY KS AFE DC14259 API 15-077-22100-01-00
Job Type: Intermediate

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK4453	Net 30	11/8/2014	12/11/2014	AFE DC14259	CAROTHERS 3206 2-34H

Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount

Contact: Sandridge Exploration & Production	<b>Subtotal Amount</b>	37,186.83
	<b>Sales Tax</b>	415.29
	<b>Discount Amount</b>	-22,020.11
	<b>Payment/Credit Amount</b>	0.00
	<b>Total Net Amount</b>	15,582.01

11-10-17  
P

# O-TEX PUMPING LLC

Service Location Fairview, Oklahoma  
 Service Address 601 Industrial Blvd 73737

Service Date: 11/8/2014  
 Customer Sandridge Exploration & Production  
 Address: City St  
 Customer Rep Luis Garza  
 Phone 281-840-6625

## FIELD RECEIPT

Phone number 580-227-2727

Project Number: SOK 4453

Well Name: Carothers 3206  
 Well Number: 2-34H  
 County: Harper  
 State: Kansas  
 API #: 15-077-22100-01-00  
 AFE #: DC14259  
 PERMIT #

Job Type Intermediate  
 Serv. Sup. Arthur Setzer  
 Page 1 of 1

REF #	DESCRIPTION	U OF MEAS.	UNIT PRICE	QUAN	GROSS	%DISC	disc	NET
ML001	Pickup Mileage	per mile/ per Unit	4.26	100.0	\$426.00	60%	\$255.60	\$170.40
ML002	Pump Truck/Heavy Vehicle Mileage	per mile/ per Unit	7.32	100.0	\$732.00	60%	\$439.20	\$292.80
ML003	Bulk Cement Delivery/Return	per Ton-Mile	2.95	754.0	\$2,224.30	60%	\$1,334.58	\$889.72
MX001	Bulk Material Mixing Service Charge	per cuft	3.27	353.0	\$1,154.31	60%	\$692.59	\$461.72
CC006	Pump Charge 5001-6000'	(per 4 hrs)	4,671.81	1.0	\$4,671.81	60%	\$2,803.09	\$1,868.72
CC015	Pump Charge Additional Hours	per hour/per unit	588.06	4.0	\$2,352.24	35%	\$823.28	\$1,528.96
ML014	Fuel Surcharge *	per unit perjob	653.40	1.0	\$653.40	100%	\$653.40	\$0.00
AE014	Environmental Fee*	per job	228.69	1.0	\$228.69	100%	\$228.69	\$0.00
PC003	Employee/Supervisor Retention/perdiem	per job	1,306.80	4.0	\$5,227.20	90%	\$4,704.48	\$522.72
JM001	Data Acquisition System	Per Job	1,437.48	1.0	\$1,437.48	60%	\$862.49	\$574.99
AE003	Circulation Equipment( 40' of equipment)	per job	1,633.50	1.0	\$1,633.50	60%	\$980.10	\$653.40
AE000	Circulating hose (replacement)	per hose	1,375.00	-	\$0.00	0%	\$0.00	\$0.00
AE002	Cement Head with manifold	per job	1,176.12	1.0	\$1,176.12	60%	\$705.67	\$470.45
LT005	Lab Testing - Thickening Time	per test	326.70	2.0	\$653.40	0%	\$0.00	\$653.40
LT006	Lab Testing - Water Analysis	per test	326.70	1.0	\$326.70	0%	\$0.00	\$326.70
CL011	7" Top Rubber Plug	Each	203.28	1.0	\$203.28	35%	\$71.15	\$132.13
CSB002	50/50 Poz with Premium (Includes 2% Gel)	per sk	22.28	235.0	\$5,235.80	53%	\$2,774.97	\$2,460.83
CP002	H (Premium Cement) (94 lbs/ft3)	per sk	30.80	100.0	\$3,080.00	53%	\$1,632.40	\$1,447.60
CP005	GEL	per lb	0.68	1,295.0	\$880.60	53%	\$466.72	\$413.88
CPC29	FL-17 Fluid Loss Additive 80-140F	per lb	40.00	58.0	\$2,320.00	53%	\$1,229.60	\$1,090.40
CP034	CF-51 (Anti setting agent)	per lb	27.10	29.0	\$785.90	53%	\$416.53	\$369.37
CP004	CF-37 (Dispersant)	per lb	13.55	20.0	\$271.00	53%	\$143.63	\$127.37
CP013	CF -20 (Lignosulfate Retarder) (below 220')	per lb	13.55	74.0	\$1,002.70	53%	\$531.43	\$471.27
CPC43	X-Air (Powder Defoamer)	per lb	8.80	58.0	\$510.40	53%	\$270.51	\$239.89
					\$37,186.83		\$22,020.11	\$15,166.72

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.  
 Customer Authorized Agent:

RS  
11-9

Project Number: SOK 4453

**FIELD RECEIPT**  
580-227-2727

Number: DC14759  
Name: Carothers 3206 2-34H  
Phone number  
830-370  
601 Industrial Blvd 73737

Service Date: 11/8/2014  
Customer Address: Sandridge Exploration & Production  
City: Wichita  
St: KS  
Customer Rep: Luis Garza  
Phone: 281-840-6625

Well Name: Carothers 3206  
Well Number: 2-34H  
County: Harper  
State: Kansas  
API #: 15-077-22100-01-00  
AFE #: DC14259  
PERMIT #

Job Type: Intermediate  
Serv. Sup.: Arthur Setzer  
Page 1 of 1

REF #	DESCRIPTION	U OF MEAS.	UNIT PRICE	QUAN	GROSS	%DISC	disc	NET
ML001	Pickup Mileage	per mile/ per Unit	4.26	100.0	\$426.00	60%	\$255.60	\$170.40
ML002	Pump Truck/Heavy Vehicle Mileage	per mile/ per Unit	7.32	100.0	\$732.00	60%	\$439.20	\$292.80
ML003	Bulk Cement Delivery/Return	per Ton-Mile	2.95	777.0	\$2,292.15	60%	\$1,375.29	\$916.86
MX001	Bulk Material Mixing Service Charge	per cuft	3.27	353.0	\$1,154.31	60%	\$692.59	\$461.72
CC006	Pump Charge 5001-6000'	(per 4 hrs)	4,671.81	1.0	\$4,671.81	60%	\$2,803.09	\$1,868.72
CC015	Pump Charge Additional Hours	per hour/per unit	588.06	4.0	\$2,352.24	35%	\$823.28	\$1,528.96
ML014	Fuel Surcharge *	per unit per job	653.40	1.0	\$653.40	100%	\$653.40	\$0.00
AE014	Environmental Fee*	per job	228.69	1.0	\$228.69	100%	\$228.69	\$0.00
PC003	Employee/Supervisor Retention/perdiem	per job	1,306.80	4.0	\$5,227.20	90%	\$4,704.48	\$522.72
JM001	Data Acquisition System	Per Job	1,437.48	1.0	\$1,437.48	60%	\$862.49	\$574.99
AE003	Circulation Equipment( 40' of equipment)	per job	1,633.50	1.0	\$1,633.50	60%	\$980.10	\$653.40
AE000	Circulating hose (replacement)	per hose	1,375.00	-	\$0.00	0%	\$0.00	\$0.00
AE002	Cement Head with manifold	per job	1,176.12	1.0	\$1,176.12	60%	\$705.67	\$470.45
LT005	Lab Testing - Thickening Time	per test	326.70	2.0	\$653.40	0%	\$0.00	\$653.40
LT006	Lab Testing - Water Analysis	per test	326.70	1.0	\$326.70	0%	\$0.00	\$326.70
CL011	7" Top Rubber Plug	Each	203.28	1.0	\$203.28	35%	\$71.15	\$132.13
CSB002	50/50 Poz with Premium (Includes 2% Gel)	per sk	22.28	235.0	\$5,235.80	53%	\$2,774.97	\$2,460.83
CP002	H (Premium Cement) (94 lbs/ft3)	per sk	30.80	100.0	\$3,080.00	53%	\$1,632.40	\$1,447.60
CP005	GEL	per lb	0.68	1,295.0	\$880.60	53%	\$466.72	\$413.88
CPC29	FL-17 Fluid Loss Additive 80-140F	per lb	40.00	58.0	\$2,320.00	53%	\$1,229.60	\$1,090.40
CP034	CF - 51 (Anti setting agent)	per lb	27.10	29.0	\$785.90	53%	\$416.53	\$369.37
CP004	CF-37 (Dispersant)	per lb	13.55	20.0	\$271.00	53%	\$143.63	\$127.37
CP013	CF - 20 (Lignosulfate Retarder) (below 220')	per lb	13.55	74.0	\$1,002.70	53%	\$531.43	\$471.27
CPC43	X-Air (Powder Defoamer)	per lb	8.80	58.0	\$510.40	53%	\$270.51	\$239.89
CP009	CF-41 (Foam Preventer)	per gal	86.06	2.0	\$172.12	53%	\$91.22	\$80.90
					\$37,426.80		\$22,152.04	\$15,274.76

Pump 1 # A245548-Serva  
Pump 2 # 0

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.  
Customer Authorized Agent:

# SERVICE ORDER CONTRACT

Customer Name Sandridge Exploration & Production Ticket Number SOK 4453  
Lease & Well Number Carothers 3206 2-34H Date 11/8/2014

As consideration, The Above Named customer Agrees:

O-TEX Pumping L.L.C. shall not be responsible for and customer shall secure O-TEX pumping against any liability for damage to property of customer and of the well owner (if different from customer), unless caused by the willful misconduct or gross negligence of O-TEX pumping, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.

O-TEX makes no guarantee to the effectiveness of the products, supplies, or materials, nor of the results of any treatment or services. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, O-TEX personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others except where due to O-TEX gross negligence or willful misconduct in the preparation or furnishing it.

Invoices payable NET 30 days following the date on the invoice.

Upon customers default in payment of the customers account by the last day of the month following the month in which the invoice is dated.

Customer agrees to pay interest thereon after at the highest lawful contract rate applicable but never to exceed 18% per annum in the event it becomes necessary to employ an attorney to enforce collection of said account.

Customer agrees to pay all collection costs and attorney fees in the amount of 25% of the unpaid account.

Service order: I authorize work to begin per service instructions in accordance with terms and conditions printed on this form and represent that I have authority to accept and sign this order.

**I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I  
AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.**

Customer Authorized Agent: \_\_\_\_\_



8) Frac the MISSISSIPPI (Stage 1) as follows using the chemical concentrations below:

	Surfactant (gpt)	ClO <sub>2</sub> (ppm)	Scale Inhibitor (gpt)
Archer/Cimarron	0	2-3	0.1

NOTE: Pump FR as required to obtain minimum rate of 75 bpm. DO NOT EXCEED 0.75 gal/1000 concentration of FR without prior discussion with engineer.

STAGE 1								
Port @ 9,658'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	750	18					0.9
Slickwater	100	14100	335					3.4
Slickwater	100	16800	400	40/70	0.25	Genoa	4200	4.0
Slickwater	100	4200	100					1.0
Slickwater	100	16800	400	40/70	0.50	Genoa	8400	4.0
Slickwater	100	4200	100					1.0
Slickwater	100	16800	400	40/70	0.75	Genoa	12600	4.0
Slickwater	100	4200	100					1.0
Slickwater	100	16800	400	40/70	1.00	Genoa	16800	4.0
Slickwater	100	13342	318					3.2
<b>TOTAL</b>		<b>107,992</b>	<b>2,571</b>				<b>42,000</b>	<b>26.4</b>

Frac the MISSISSIPPI (Stage 2) as follows:  
 Drop 2.000" ball. Reduce rate to 5-10bpm as +/- 214 bbls (50 bbls before ball seats),  
 264.7 bbls to sleeve

STAGE 2								
Port @ 9,469'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	750	18					0.9
Slickwater	100	9600	228					2.3
Slickwater	100	11600	276	40/70	0.25	Genoa	2900	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11400	271	40/70	0.50	Genoa	5700	2.7
Slickwater	100	2850	68					0.7
Slickwater	100	11333	270	40/70	0.75	Genoa	8500	2.7
Slickwater	100	2833	67					0.7
Slickwater	100	11400	271	40/70	1.00	Genoa	11400	2.7
Slickwater	100	13219	315					3.1
<b>TOTAL</b>		<b>77,886</b>	<b>1,854</b>				<b>28,500</b>	<b>19.3</b>

Frac the MISSISSIPPI (Stage 3) as follows:  
 Drop 2.063" ball. Reduce rate to 5-10bpm as +/- 212 bbls (50 bbls before ball seats),  
 262.5 bbls to sleeve

STAGE 3								
Port @ 9,323'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9800	232					2.3
Slickwater	100	11600	276	40/70	0.25	Genoa	2900	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	0.50	Genoa	5800	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	0.75	Genoa	8700	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	1.00	Genoa	11600	2.8
Slickwater	100	13124	312					3.1
<b>TOTAL</b>		<b>78,524</b>	<b>1,868</b>				<b>29,000</b>	<b>19.2</b>

0

Frac the MISSISSIPPI (Stage 4) as follows:  
 Drop 2.125" ball. Reduce rate to 5-10bpm as +/- 210 bbls (50 bbls before ball seats).  
 260.2 bbls to sleeve

STAGE 4								
Port @ 9,179 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9800	231					2.3
Slickwater	100	11600	276	40/70	0.25	Genoa	2900	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	0.50	Genoa	5800	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	0.75	Genoa	8700	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11500	274	40/70	1.00	Genoa	11500	2.7
Slickwater	100	13030	310					3.1
<b>TOTAL</b>		<b>78,330</b>	<b>1,863</b>				<b>28,900</b>	<b>19.1</b>

0

Frac the MISSISSIPPI (Stage 5) as follows:  
 Drop 2.188" ball. Reduce rate to 5-10bpm as +/- 207 bbls (50 bbls before ball seats).  
 258.0 bbls to sleeve

STAGE 5								
Port @ 9,033 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	10000	237					2.4
Slickwater	100	12000	286	40/70	0.25	Genoa	3000	2.9
Slickwater	100	3000	71					0.7
Slickwater	100	11800	281	40/70	0.50	Genoa	5900	2.8
Slickwater	100	2950	70					0.7
Slickwater	100	11867	283	40/70	0.75	Genoa	8900	2.8
Slickwater	100	2967	71					0.7
Slickwater	100	11800	281	40/70	1.00	Genoa	11800	2.8
Slickwater	100	12935	308					3.1
<b>TOTAL</b>		<b>79,819</b>	<b>1,899</b>				<b>29,600</b>	<b>19.5</b>

0

Frac the MISSISSIPPI (Stage 6) as follows:  
 Drop 2.250" ball. Reduce rate to 5-10bpm as +/- 205 bbls (50 bbls before ball seats).  
 255.8 bbls to sleeve

STAGE 6								
Port @ 8,892 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9400	224					2.2
Slickwater	100	11200	267	40/70	0.25	Genoa	2800	2.7
Slickwater	100	2800	67					0.7
Slickwater	100	11200	267	40/70	0.50	Genoa	5600	2.7
Slickwater	100	2800	67					0.7
Slickwater	100	11200	267	40/70	0.75	Genoa	8400	2.7
Slickwater	100	2800	67					0.7
Slickwater	100	11200	267	40/70	1.00	Genoa	11200	2.7
Slickwater	100	12844	306					3.1
<b>TOTAL</b>		<b>75,944</b>	<b>1,808</b>				<b>28,000</b>	<b>18.6</b>

0



Frac the MISSISSIPPI (Stage 7) as follows:

Drop 2.313" ball. Reduce rate to 5-10bpm as +/- 203 bbls (50 bbls before ball seats).

253.6 bbls to sleeve

STAGE 7								
Port @ 8,750 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9600	228					2.3
Slickwater	100	11600	276	40/70	0.25	Genoa	2900	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11400	271	40/70	0.50	Genoa	5700	2.7
Slickwater	100	2850	68					0.7
Slickwater	100	11333	270	40/70	0.75	Genoa	8500	2.7
Slickwater	100	2833	67					0.7
Slickwater	100	11400	271	40/70	1.00	Genoa	11400	2.7
Slickwater	100	12751	304					3.0
<b>TOTAL</b>		<b>77,168</b>	<b>1,837</b>				<b>28,500</b>	<b>18.8</b>

0

Frac the MISSISSIPPI (Stage 8) as follows:

Drop 2.375" ball. Reduce rate to 5-10bpm as +/- 201 bbls (50 bbls before ball seats).

251.5 bbls to sleeve

STAGE 8								
Port @ 8,617 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9300	220					2.2
Slickwater	100	11200	267	40/70	0.25	Genoa	2800	2.7
Slickwater	100	2800	67					0.7
Slickwater	100	11000	262	40/70	0.50	Genoa	5500	2.6
Slickwater	100	2750	65					0.7
Slickwater	100	10933	260	40/70	0.75	Genoa	8200	2.6
Slickwater	100	2733	65					0.7
Slickwater	100	10900	260	40/70	1.00	Genoa	10900	2.6
Slickwater	100	12664	302					3.0
<b>TOTAL</b>		<b>74,781</b>	<b>1,779</b>				<b>27,400</b>	<b>18.3</b>

0

Frac the MISSISSIPPI (Stage 9) as follows:

Drop 2.438" ball. Reduce rate to 5-10bpm as +/- 199 bbls (50 bbls before ball seats).

249.3 bbls to sleeve

STAGE 9								
Port @ 8,472 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	10000	236					2.4
Slickwater	100	12000	286	40/70	0.25	Genoa	3000	2.9
Slickwater	100	3000	71					0.7
Slickwater	100	11800	281	40/70	0.50	Genoa	5900	2.8
Slickwater	100	2950	70					0.7
Slickwater	100	11733	279	40/70	0.75	Genoa	8800	2.8
Slickwater	100	2933	70					0.7
Slickwater	100	11800	281	40/70	1.00	Genoa	11800	2.8
Slickwater	100	12570	299					3.0
<b>TOTAL</b>		<b>79,287</b>	<b>1,886</b>				<b>29,500</b>	<b>19.3</b>

0

Sleeve 10 will not be shifted  
 Remove 2.500" ball from set.  
 0.0 bbls to sleeve

STAGE 10								
Port @ 8,327 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
<b>Omit</b>								
<b>TOTAL</b>		0	0				0	0.0

Frac the MISSISSIPPI (Stage 11) as follows:  
 Drop 2.563" ball. Reduce rate to 5-10bpm as +/- 194 bbls (50 bbls before ball seats).  
 244.8 bbls to sleeve

STAGE 11								
Port @ 8,185 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9800	231					2.3
Slickwater	100	11600	276	40/70	0.25	Genoa	2900	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	0.50	Genoa	5800	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	0.75	Genoa	8700	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11500	274	40/70	1.00	Genoa	11500	2.7
Slickwater	100	12383	295					2.9
<b>TOTAL</b>		77,683	1,847				28,900	18.9

Frac the MISSISSIPPI (Stage 12) as follows:  
 Drop 2.625" ball. Reduce rate to 5-10bpm as +/- 192 bbls (50 bbls before ball seats).  
 242.6 bbls to sleeve

STAGE 12								
Port @ 8,040 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9800	232					2.3
Slickwater	100	11600	276	40/70	0.25	Genoa	2900	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	0.50	Genoa	5800	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	0.75	Genoa	8700	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	1.00	Genoa	11600	2.8
Slickwater	100	12289	293					2.9
<b>TOTAL</b>		77,689	1,848				29,000	19.0

Frac the MISSISSIPPI (Stage 13) as follows:  
 Drop 2.688" ball. Reduce rate to 5-10bpm as +/- 190 bbls (50 bbls before ball seats).  
 240.3 bbls to sleeve

STAGE 13								
Port @ 7,895 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9700	230					2.3
Slickwater	100	11600	276	40/70	0.25	Genoa	2900	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	0.50	Genoa	5800	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11467	273	40/70	0.75	Genoa	8600	2.7
Slickwater	100	2867	68					0.7
Slickwater	100	11500	274	40/70	1.00	Genoa	11500	2.7
Slickwater	100	12194	290					2.9
<b>TOTAL</b>		<b>77,228</b>	<b>1,838</b>				<b>28,800</b>	<b>18.9</b>

0

Frac the MISSISSIPPI (Stage 14) as follows:  
 Drop 2.750" ball. Reduce rate to 5-10bpm as +/- 188 bbls (50 bbls before ball seats).  
 238.1 bbls to sleeve

STAGE 14								
Port @ 7,752 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9300	221					2.2
Slickwater	100	11200	267	40/70	0.25	Genoa	2800	2.7
Slickwater	100	2800	67					0.7
Slickwater	100	11000	262	40/70	0.50	Genoa	5500	2.6
Slickwater	100	2750	65					0.7
Slickwater	100	11067	263	40/70	0.75	Genoa	8300	2.6
Slickwater	100	2767	66					0.7
Slickwater	100	11000	262	40/70	1.00	Genoa	11000	2.6
Slickwater	100	12101	288					2.9
<b>TOTAL</b>		<b>74,485</b>	<b>1,773</b>				<b>27,600</b>	<b>18.2</b>

0

Frac the MISSISSIPPI (Stage 15) as follows:  
 Drop 2.813" ball. Reduce rate to 5-10bpm as +/- 186 bbls (50 bbls before ball seats).  
 236.0 bbls to sleeve

STAGE 15								
Port @ 7,615 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9700	230					2.3
Slickwater	100	11600	276	40/70	0.25	Genoa	2900	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	0.50	Genoa	5800	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11467	273	40/70	0.75	Genoa	8600	2.7
Slickwater	100	2867	68					0.7
Slickwater	100	11500	274	40/70	1.00	Genoa	11500	2.7
Slickwater	100	12012	286					2.9
<b>TOTAL</b>		<b>77,045</b>	<b>1,834</b>				<b>28,800</b>	<b>18.8</b>

0

Frac the MISSISSIPPI (Stage 16) as follows:

Drop 2.875" ball. Reduce rate to 5-10bpm as +/- 183 bbls (50 bbls before ball seats).

233.8 bbls to sleeve

STAGE 16								
Port @ 7,471 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	10000	236					2.4
Slickwater	100	12000	286	40/70	0.25	Genoa	3000	2.9
Slickwater	100	3000	71					0.7
Slickwater	100	11800	281	40/70	0.50	Genoa	5900	2.8
Slickwater	100	2950	70					0.7
Slickwater	100	11733	279	40/70	0.75	Genoa	8800	2.8
Slickwater	100	2933	70					0.7
Slickwater	100	11700	279	40/70	1.00	Genoa	11700	2.8
Slickwater	100	11919	284					2.8
<b>TOTAL</b>		<b>78,535</b>	<b>1,868</b>				<b>29,400</b>	<b>19.2</b>

0

Frac the MISSISSIPPI (Stage 17) as follows:

Drop 2.938" ball. Reduce rate to 5-10bpm as +/- 181 bbls (50 bbls before ball seats).

231.5 bbls to sleeve

STAGE 17								
Port @ 7,326 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	10000	236					2.4
Slickwater	100	12000	286	40/70	0.25	Genoa	3000	2.9
Slickwater	100	3000	71					0.7
Slickwater	100	11800	281	40/70	0.50	Genoa	5900	2.8
Slickwater	100	2950	70					0.7
Slickwater	100	11733	279	40/70	0.75	Genoa	8800	2.8
Slickwater	100	2933	70					0.7
Slickwater	100	11700	279	40/70	1.00	Genoa	11700	2.8
Slickwater	100	11824	282					2.8
<b>TOTAL</b>		<b>78,440</b>	<b>1,865</b>				<b>29,400</b>	<b>19.1</b>

0

Frac the MISSISSIPPI (Stage 18) as follows:

Drop 3.000" ball. Reduce rate to 5-10bpm as +/- 179 bbls (50 bbls before ball seats).

229.3 bbls to sleeve

STAGE 18								
Port @ 7,183 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9700	230					2.3
Slickwater	100	11600	276	40/70	0.25	Genoa	2900	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	0.50	Genoa	5800	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11467	273	40/70	0.75	Genoa	8600	2.7
Slickwater	100	2867	68					0.7
Slickwater	100	11500	274	40/70	1.00	Genoa	11500	2.7
Slickwater	100	11731	279					2.8
<b>TOTAL</b>		<b>76,764</b>	<b>1,827</b>				<b>28,800</b>	<b>18.7</b>

0

Frac the MISSISSIPPI (Stage 19) as follows:  
 Drop 3.063" ball. Reduce rate to 5-10bpm as +/- 177 bbls (50 bbls before ball seats).  
 227.0 bbls to sleeve

STAGE 19								
Port @ 7,036 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	10000	237					2.4
Slickwater	100	12000	286	40/70	0.25	Genoa	3000	2.9
Slickwater	100	3000	71					0.7
Slickwater	100	11800	281	40/70	0.50	Genoa	5900	2.8
Slickwater	100	2950	70					0.7
Slickwater	100	11867	283	40/70	0.75	Genoa	8900	2.8
Slickwater	100	2967	71					0.7
Slickwater	100	11800	281	40/70	1.00	Genoa	11800	2.8
Slickwater	100	11635	277					2.8
<b>TOTAL</b>		<b>78,519</b>	<b>1,868</b>				<b>29,600</b>	<b>19.2</b>

0

Frac the MISSISSIPPI (Stage 20) as follows:  
 Drop 3.125" ball. Reduce rate to 5-10bpm as +/- 205 bbls (50 bbls before ball seats).  
 224.8 bbls to sleeve

STAGE 20								
Port @ 6,889 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	10000	237					2.4
Slickwater	100	12000	286	40/70	0.25	Genoa	3000	2.9
Slickwater	100	3000	71					0.7
Slickwater	100	11800	281	40/70	0.50	Genoa	5900	2.8
Slickwater	100	2950	70					0.7
Slickwater	100	11867	283	40/70	0.75	Genoa	8900	2.8
Slickwater	100	2967	71					0.7
Slickwater	100	11800	281	40/70	1.00	Genoa	11800	2.8
Slickwater	100	11540	275					2.7
<b>TOTAL</b>		<b>78,423</b>	<b>1,866</b>				<b>29,600</b>	<b>19.1</b>

0

Frac the MISSISSIPPI (Stage 21) as follows:  
 Drop 3.188" ball. Reduce rate to 5-10bpm as +/- 203 bbls (50 bbls before ball seats).  
 222.5 bbls to sleeve

STAGE 21								
Port @ 6,742 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9800	232					2.3
Slickwater	100	11600	276	40/70	0.25	Genoa	2900	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	0.50	Genoa	5800	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	0.75	Genoa	8700	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11600	276	40/70	1.00	Genoa	11600	2.8
Slickwater	100	11444	272					2.7
<b>TOTAL</b>		<b>76,844</b>	<b>1,828</b>				<b>29,000</b>	<b>18.8</b>

0

Frac the MISSISSIPPI (Stage 22) as follows:

Drop 3.250" ball. Reduce rate to 5-10bpm as +/- 201 bbls (50 bbls before ball seats).

220.3 bbls to sleeve

STAGE 22								
Port @ 6,599 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	10000	236					2.4
Slickwater	100	12000	286	40/70	0.25	Genoa	3000	2.9
Slickwater	100	3000	71					0.7
Slickwater	100	11800	281	40/70	0.50	Genoa	5900	2.8
Slickwater	100	2950	70					0.7
Slickwater	100	11733	279	40/70	0.75	Genoa	8800	2.8
Slickwater	100	2933	70					0.7
Slickwater	100	11700	279	40/70	1.00	Genoa	11700	2.8
Slickwater	100	11351	270					2.7
<b>TOTAL</b>		<b>77,968</b>	<b>1,854</b>				<b>29,400</b>	<b>19.0</b>

0

Frac the MISSISSIPPI (Stage 23) as follows:

Drop 3.313" ball. Reduce rate to 5-10bpm as +/- 199 bbls (50 bbls before ball seats).

218.0 bbls to sleeve

STAGE 23								
Port @ 6,451 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	10000	237					2.4
Slickwater	100	12000	286	40/70	0.25	Genoa	3000	2.9
Slickwater	100	3000	71					0.7
Slickwater	100	11800	281	40/70	0.50	Genoa	5900	2.8
Slickwater	100	2950	70					0.7
Slickwater	100	11867	283	40/70	0.75	Genoa	8900	2.8
Slickwater	100	2967	71					0.7
Slickwater	100	11800	281	40/70	1.00	Genoa	11800	2.8
Slickwater	100	11255	268					2.7
<b>TOTAL</b>		<b>78,138</b>	<b>1,859</b>				<b>29,600</b>	<b>19.1</b>

0

Frac the MISSISSIPPI (Stage 24) as follows:

Drop 3.375" ball. Reduce rate to 5-10bpm as +/- 197 bbls (50 bbls before ball seats).

215.7 bbls to sleeve

STAGE 24								
Port @ 6,308 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9700	229					2.3
Slickwater	100	11600	276	40/70	0.25	Genoa	2900	2.8
Slickwater	100	2900	69					0.7
Slickwater	100	11400	271	40/70	0.50	Genoa	5700	2.7
Slickwater	100	2850	68					0.7
Slickwater	100	11467	273	40/70	0.75	Genoa	8600	2.7
Slickwater	100	2867	68					0.7
Slickwater	100	11400	271	40/70	1.00	Genoa	11400	2.7
Slickwater	100	11161	266					2.7
<b>TOTAL</b>		<b>75,845</b>	<b>1,804</b>				<b>28,600</b>	<b>18.5</b>

0

Frac the MISSISSIPPI (Stage 25) as follows:

Drop 3.438" ball. Reduce rate to 5-10bpm as +/- 205 bbls (50 bbls before ball seats).

213.5 bbls to sleeve

STAGE 25								
Port @ 6,162'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	10000	236					2.4
Slickwater	100	12000	286	40/70	0.25	Genoa	3000	2.9
Slickwater	100	3000	71					0.7
Slickwater	100	11800	281	40/70	0.50	Genoa	5900	2.8
Slickwater	100	2950	70					0.7
Slickwater	100	11733	279	40/70	0.75	Genoa	8800	2.8
Slickwater	100	2933	70					0.7
Slickwater	100	11700	279	40/70	1.00	Genoa	11700	2.8
Slickwater	100	11066	263					2.6
<b>TOTAL</b>		<b>77,683</b>	<b>1,847</b>				<b>29,400</b>	<b>18.9</b>

0

Frac the MISSISSIPPI (Stage 26) as follows:

Drop 3.500" ball. Reduce rate to 5-10bpm as +/- 203 bbls (50 bbls before ball seats).

211.4 bbls to sleeve

STAGE 26								
Port @ 6,027'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	9300	220					2.2
Slickwater	100	11200	267	40/70	0.25	Genoa	2800	2.7
Slickwater	100	2800	67					0.7
Slickwater	100	11000	262	40/70	0.50	Genoa	5500	2.6
Slickwater	100	2750	65					0.7
Slickwater	100	10933	260	40/70	0.75	Genoa	8200	2.6
Slickwater	100	2733	65					0.7
Slickwater	100	11000	262	40/70	1.00	Genoa	11000	2.6
Slickwater	100	10978	261					2.6
<b>TOTAL</b>		<b>73,195</b>	<b>1,742</b>				<b>27,500</b>	<b>17.9</b>

0

Frac the MISSISSIPPI (Stage 27) as follows:

Drop 3.563" ball. Reduce rate to 5-10bpm as +/- 201 bbls (50 bbls before ball seats).

209.1 bbls to sleeve

STAGE 27								
Port @ 5,881'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	10000	236					2.4
Slickwater	100	12000	286	40/70	0.25	Genoa	3000	2.9
Slickwater	100	3000	71					0.7
Slickwater	100	11800	281	40/70	0.50	Genoa	5900	2.8
Slickwater	100	2950	70					0.7
Slickwater	100	11733	279	40/70	0.75	Genoa	8800	2.8
Slickwater	100	2933	70					0.7
Slickwater	100	11800	281	40/70	1.00	Genoa	11800	2.8
Slickwater	100	10883	259					2.6
<b>TOTAL</b>		<b>77,600</b>	<b>1,846</b>				<b>29,500</b>	<b>18.9</b>

0

Frac the MISSISSIPPI (Stage 28) as follows:  
 Drop 3.625" ball. Reduce rate to 5-10bpm as +/- 199 bbls (50 bbls before ball seats).  
 206.8 bbls to sleeve

STAGE 28								
Port @ 5,734 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	13100	311					3.1
Slickwater	100	15600	371	40/70	0.25	Genoa	3900	3.7
Slickwater	100	3900	93					0.9
Slickwater	100	15600	371	40/70	0.50	Genoa	7800	3.7
Slickwater	100	3900	93					0.9
Slickwater	100	15600	371	40/70	0.75	Genoa	11700	3.7
Slickwater	100	3900	93					0.9
Slickwater	100	15600	371	40/70	1.00	Genoa	15600	3.7
Slickwater	100	10788	257					2.6
<b>TOTAL</b>		<b>98,488</b>	<b>2,344</b>				<b>39,000</b>	<b>23.9</b>

0

Frac the MISSISSIPPI (Stage 29) as follows:  
 Drop 3.688" ball. Reduce rate to 5-10bpm as +/- 197 bbls (50 bbls before ball seats).  
 203.9 bbls to sleeve

STAGE 29								
Port @ 5,541 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	13000	309					3.1
Slickwater	100	15600	371	40/70	0.25	Genoa	3900	3.7
Slickwater	100	3900	93					0.9
Slickwater	100	15400	367	40/70	0.50	Genoa	7700	3.7
Slickwater	100	3850	92					0.9
Slickwater	100	15467	368	40/70	0.75	Genoa	11600	3.7
Slickwater	100	3867	92					0.9
Slickwater	100	15400	367	40/70	1.00	Genoa	15400	3.7
Slickwater	100	10662	254					2.5
<b>TOTAL</b>		<b>97,646</b>	<b>2,324</b>				<b>38,600</b>	<b>23.7</b>

0

Frac the MISSISSIPPI (Stage 30) as follows:  
 Drop 3.750" ball. Reduce rate to 5-10bpm as +/- 205 bbls (50 bbls before ball seats).  
 200.9 bbls to sleeve

STAGE 30								
Port @ 5,353 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	13500	319					3.2
Slickwater	100	16000	381	40/70	0.25	Genoa	4000	3.8
Slickwater	100	4000	95					1.0
Slickwater	100	16000	381	40/70	0.50	Genoa	8000	3.8
Slickwater	100	4000	95					1.0
Slickwater	100	16000	381	40/70	0.75	Genoa	12000	3.8
Slickwater	100	4000	95					1.0
Slickwater	100	16000	381	40/70	1.00	Genoa	16000	3.8
Slickwater	100	10540	251					2.5
<b>TOTAL</b>		<b>100,540</b>	<b>2,392</b>				<b>40,000</b>	<b>24.4</b>

0

**TOTAL FRAC JOB VOLUMES:** 55,639 bbls 881,900 lbs, Prop  
**TOTAL VOLUMES w/ ball displacement:** 62,165 bbls - lbs, Garnet

- 9) Suck manifold and iron dry with vacuum truck. RDMO frac crew. ND wellhead isolation tool. Transfer bottoms to 2 frac tanks.





Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (deg)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
5398	87.8	7.7	4437.95	1010.23	6.21	997.43	7.50	4490	810	3952	1302
5494	88	13	4441.47	1104.57	23.44	1093.32	5.52	4396	904	3969	1284
5588	88.7	15.8	4444.18	1195.57	46.80	1186.92	3.07	4305	995	3992	1260
5683	89.2	18.8	4445.92	1286.25	75.04	1281.02	3.20	4215	1085	4020	1231
5777	90.7	24.6	4446.00	1373.54	109.78	1372.85	6.37	4129	1172	4054	1195
5872	91.9	29.4	4443.84	1458.14	152.89	1463.39	5.21	4045	1256	4097	1151
5964	92.5	29.2	4440.31	1538.31	197.88	1549.89	0.69	3966	1335	4142	1105
6055	89.8	29.9	4438.48	1617.45	242.74	1635.34	3.07	3887	1414	4186	1060
6146	88.4	30.3	4439.91	1696.17	288.37	1720.50	1.60	3810	1492	4231	1013
6237	91	29.9	4440.39	1774.89	334.01	1805.67	2.89	3732	1570	4277	967
6327	91.7	32.2	4438.27	1851.97	380.41	1889.34	2.67	3656	1646	4323	920
6418	89.4	29.7	4437.40	1930.00	427.20	1974.02	3.73	3579	1723	4369	872
6509	90.3	28.9	4437.63	2009.35	471.73	2059.63	1.32	3500	1802	4413	827
6600	89.5	29.2	4437.79	2088.90	515.92	2145.38	0.94	3422	1881	4457	782
6690	90.2	29	4438.03	2167.54	559.69	2230.16	0.81	3344	1959	4500	737
6781	91.3	28.9	4436.84	2247.16	603.74	2315.95	1.21	3265	2038	4544	692
6874	89.8	29.6	4435.95	2328.30	649.17	2403.47	1.78	3185	2118	4589	646
6965	91.3	28.6	4435.07	2407.81	693.43	2489.18	1.98	3106	2197	4633	601
7056	91.9	26.7	4432.53	2488.38	735.64	2575.61	2.19	3027	2277	4675	558
7147	91.8	19.8	4429.59	2571.89	771.52	2663.90	7.58	2944	2360	4710	521
7210	90.3	14.9	4428.43	2632.00	790.30	2726.28	8.13	2884	2419	4729	502
7305	90.9	10.1	4427.44	2724.71	810.85	2821.11	5.09	2792	2512	4749	481
7400	90.6	9.4	4426.20	2818.33	826.94	2916.10	0.80	2699	2605	4765	464
7495	91.4	8.3	4424.54	2912.18	841.55	3011.08	1.43	2605	2699	4779	448
7590	91.6	5.7	4422.05	3006.44	853.12	3105.95	2.74	2511	2793	4790	436
7685	90.8	2.8	4420.06	3101.14	860.16	3200.52	3.17	2417	2888	4797	428
7805	89.3	2.1	4419.96	3221.03	865.29	3319.61	1.38	2297	3007	4801	421
7899	91.1	1	4419.63	3314.99	867.83	3412.71	2.24	2203	3101	4803	418
7994	92.3	0.9	4416.81	3409.93	869.41	3506.61	1.27	2108	3196	4805	415
8089	92.7	359.7	4412.66	3504.84	869.90	3600.30	1.33	2013	3291	4805	414
8183	90.9	359.9	4409.71	3598.79	869.58	3692.91	1.93	1919	3385	4804	413
8277	87.9	359.9	4410.70	3692.77	869.41	3785.58	3.19	1825	3479	4803	413
8372	88.8	359.4	4413.43	3787.73	868.83	3879.14	1.08	1730	3574	4802	412
8467	89.3	358.9	4415.01	3882.70	867.42	3972.58	0.74	1635	3669	4800	413
8562	89.9	359	4415.67	3977.69	865.68	4065.98	0.64	1540	3764	4798	413
8656	89	359.2	4416.57	4071.67	864.21	4158.43	0.98	1446	3858	4796	414
8751	88.9	358.5	4418.31	4166.63	862.30	4251.78	0.74	1351	3953	4794	415
8847	89.5	0	4419.65	4262.61	861.04	4346.24	1.68	1255	4049	4792	415
8941	91.9	359.9	4418.51	4356.60	860.96	4438.93	2.56	1161	4143	4792	415
9036	90.3	0.9	4416.68	4451.57	861.62	4532.71	1.99	1066	4238	4792	413
9130	88	1.1	4418.08	4545.54	863.26	4625.67	2.46	972	4332	4793	410
9223	88.8	0.8	4420.67	4638.49	864.81	4717.60	0.92	879	4425	4794	407
9318	86.3	1.1	4424.73	4733.39	866.38	4811.45	2.65	784	4520	4795	405
9414	88.2	359.9	4429.34	4829.27	867.22	4906.16	2.34	689	4616	4796	404
9508	89.3	359	4431.39	4923.24	866.31	4998.69	1.51	595	4709	4795	404
9602	87.3	358.5	4434.18	5017.17	864.26	5091.00	2.19	501	4803	4792	405
9705	85.5	357.7	4440.65	5119.90	860.86	5191.77	1.91	398	4906	4788	407
9770	85.50	357.70	4445.75	5184.65	858.26	5255.20	0.00	333	4971	4785	409

Section 27  
32S 6W

Section 26  
32S 6W

BHL: 9770'  
-97.950438 37.224405  
Bottom Perf: 9658'  
-97.950415 37.224102

333' FNL  
409' FEL

Section 34  
32S 6W  
Harper County

Section 35  
32S 6W

Top Perf: 5353'  
-97.953102 37.212884

WESTFALL 3206 2-34H    WESTFALL 3306 1-3H



Miss Entry: 4679'  
-97.953074 37.211057

CAROTHERS 3206 2-34H

Section 3  
33S 6W



Section 2  
33S 6W



Actual Bottom-Hole Location of Carothers 3206 2-34H 1L  
T&R: 32S 6W  
Section: 34, 409' FEL & 333' FNL  
-97.950438 37.224405

1 in = 667 ft

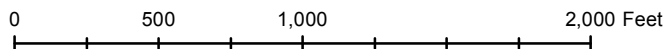


● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Dory Deines

Draft Date: 1/23/2015

Drawing Name/Number:

Addendum\_Carothers 3206 2-34H 1L.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502