



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1224433  
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: \_\_\_\_\_

1224433

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<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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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Carson 4-25
Doc ID	1224433

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Carson 4-25
Doc ID	1224433

Tops

Name	Top	Datum
Base Anhydrite	2452	+654
Heebner	3974	-868
Lansing	4016	-910
Muncie Creek	4200	-1094
Stark Shale	4298	-1192
Hushpuckney	4342	-1236
Pawnee	4519	-1413
L. Cherokee Shale	4600	-1494
Johnson	4644	-1538
Mississippian	4780	-1674





# SHAKESPEARE OIL COMPANY, INC.

## CARSON #4-25

2530' FNL & 2180' FWL of Section 25-T16S-R34W  
SCOTT COUNTY, KANSAS  
API#15-171-21084-00-00

### Geologist's Report

### WellSight Systems

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Carson #4-25  
API: 15-171-21084-00-00  
Location: 2530' FNL & 2180' FWL of Section 25-T16S-R34W  
License Number: KLN# 7311  
Spud Date: 8/25/2014  
Surface Coordinates: 2530' FNL & 2180' FWL (SW SE SE NW)  
Bottom Hole Coordinates: Vertical Test  
Ground Elevation (ft): 3094  
Logged Interval (ft): RTD To: 3750  
Formation: Mississippi  
Type of Drilling Fluid: Chemical (Displacement complete @ 3518')

Region: Scott County, Kansas  
Drilling Completed: Pence East Field 5 1/2"

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

### Operator

Company: Shakespeare Oil Company, Inc. KLN# 7311  
Address: 202 W Main  
Salem, IL 62881

### Geologist

Name: Richard S.(Steve) Davis Jr.  
Company: Petroleum Geologist  
Address: 212 N. Market, Suite 268  
Wichita, Kansas 67202

### FORMATION TOPS

Formation	Sample	E-Log	KB	3106	Formation	Sample	E-Log	Datum
			Datum	Datum				
Anhydrite	2432	2432	+674	Hushpuckney	4344	4342	-1236	
B/Anhydrite	2453	2452	+654	Lansing L	4352	4352	-1246	
Topeka	3801	3802	-696	BKC	4387	4388	-1282	
Heebner	3976	3974	-868	Marmaton	4438	4436	-1330	
Toronto	3995	3993	-887	Pawnee	4522	4521	-1415	
Lansing	4018	4016	-910	Fort Scott	4573	4572	-1466	
Lansing D	4135	4130	-1024	Cherokee Sh	4603	4600	-1494	
Muncie Creek	4202	4200	-1094	Johnson	4646	4643	-1537	
Lansing H	4212	4210	-1104	Mississippi	4781	4779	-1673	
Lansing I	4242	4240	-1134	Total Depth	4880	4876	-1770	
Lansing J	4275	4277	-1171					
Stark	4299	4297	-1191					
Lansing K	4307	4307	-1201					

#### DAILY PENETRATION: 7:00 AM

Date	Depth	Activity
08/25/14	0	MIRU & Spud
08/26	265	WOC
08/27	1532	Drlg
08/28	2470	Drlg
08/29	3127	Drlg
08/30	3614	Drlg
08/31	4110	Drlg
09/01	4465	DST #1
09/02	4495	Drlg
09/03	4791	Drlg
09/04	4880	Run 5 1/2"

#### CONTRACTOR:

Southwind Drilling, Rig #70

Toolpusher: Sam Staggs

#### MUD:

Mud Co (displacement complete @ 3518')

Tony Maestas

**DRILL STEM TESTING: Trilobite Testing Inc.**

**Mike Roberts**

**ELECTRIC LOG: Weatherford**

Jeff Randle

(DIL, CDL/CNL, PE & MEL)

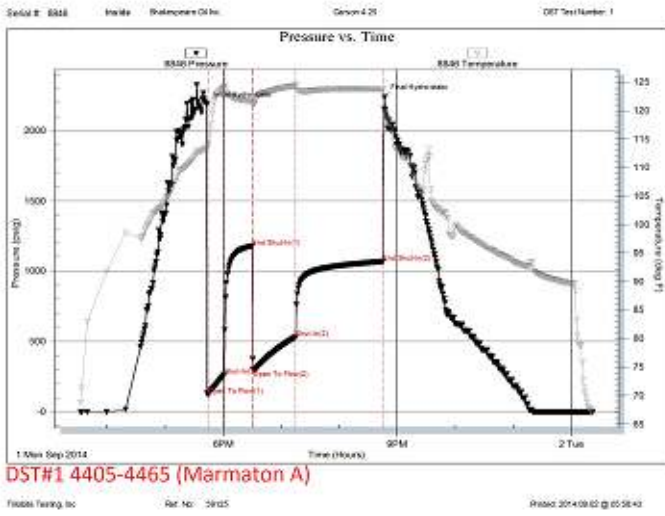
#### CASING RECORD:

Surface: 8 5/8" @ 265' w/190 sx

Production: 5 1/2"

#### BIT RECORD:

Bit No./Size	Make/Type	Out	Ftg	Hrs
#1/ 12 1/4"	RTC/RT	265	265	2 1/2
#2/ 7 7/8"	RTC/S52P	4880	4615	141 3/4



**Rock Types**

**LITHOLOGY**

- Anhy
- Bent
- Brec
- Cht
- Clyst

- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst

- Meta
- Mrlst
- Salt
- Shale
- Shcol
- Shgy

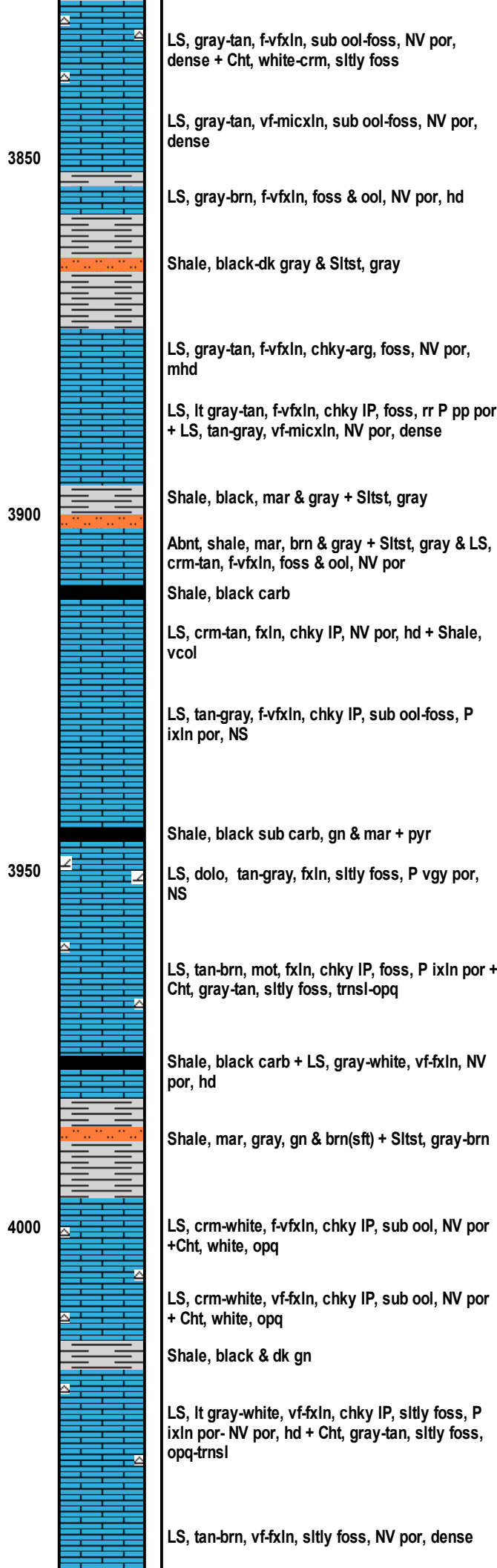
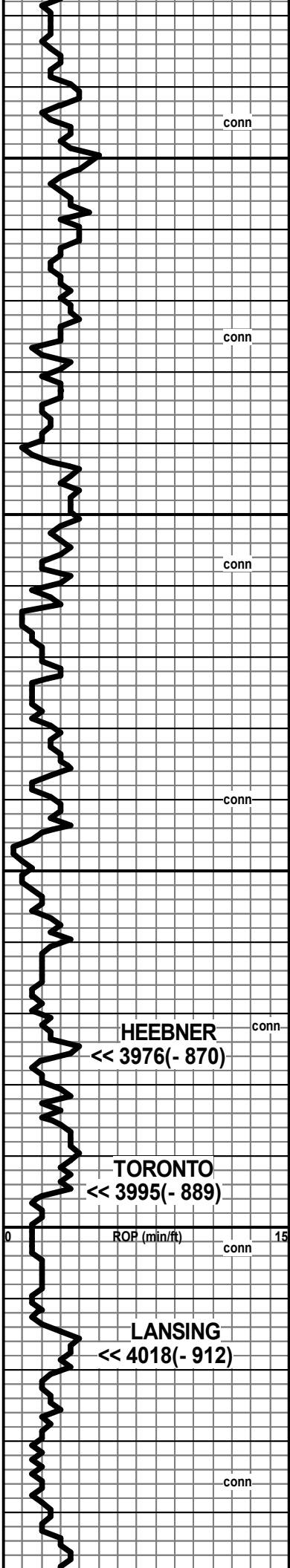
- Slst
- Ss
- Till

- Spotted
- Ques
- Dead

- OIL SHOW**
- Even

ROP (min/ft) ROP (min/ft)	Depth	Lithology	Geological Descriptions	Remarks
0 15	3750			Vis 45 Wt 8.7 Fil 8.0 PH 10.5 Chl 3,700 LCM 2# 8/30/14 @ 3646'
0 15	3800		LS, gray-tan, fxl, chky, ool & foss, P ipart por, sft, NS	
			Shale, black, gray & mar	
			LS, crm-gray, f-vfxln, foss, chky, P ixln por, sft, NS	
			LS, crm-tan, fxl, chky, foss-ool, P ipart por, NS	





LS, gray-tan, f-vfxln, sub ool-foss, NV por, dense + Cht, white-crm, sltly foss

LS, gray-tan, vf-micln, sub ool-foss, NV por, dense

LS, gray-brn, f-vfxln, foss & ool, NV por, hd

Shale, black-dk gray & Slstst, gray

LS, gray-tan, f-vfxln, chky-arg, foss, NV por, mhd

LS, lt gray-tan, f-vfxln, chky IP, foss, rr P pp por + LS, tan-gray, vf-micln, NV por, dense

Shale, black, mar & gray + Slstst, gray

Abnt, shale, mar, brn & gray + Slstst, gray & LS, crm-tan, f-vfxln, foss & ool, NV por

Shale, black carb

LS, crm-tan, fxln, chky IP, NV por, hd + Shale, vcol

LS, tan-gray, f-vfxln, chky IP, sub ool-foss, P ixln por, NS

Shale, black sub carb, gn & mar + pyr

LS, dolo, tan-gray, fxln, sltly foss, P vgy por, NS

LS, tan-brn, mot, fxln, chky IP, foss, P ixln por + Cht, gray-tan, sltly foss, trnsi-opq

Shale, black carb + LS, gray-white, vf-fxln, NV por, hd

Shale, mar, gray, gn & brn(sft) + Slstst, gray-brn

LS, crm-white, f-vfxln, chky IP, sub ool, NV por + Cht, white, opq

LS, crm-white, vf-fxln, chky IP, sub ool, NV por + Cht, white, opq

Shale, black & dk gn

LS, lt gray-white, vf-fxln, chky IP, sltly foss, P ixln por- NV por, hd + Cht, gray-tan, sltly foss, opq-trnsi

LS, tan-brn, vf-fxln, sltly foss, NV por, dense

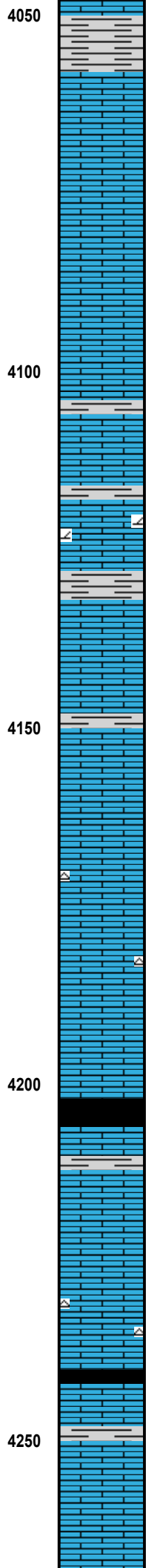
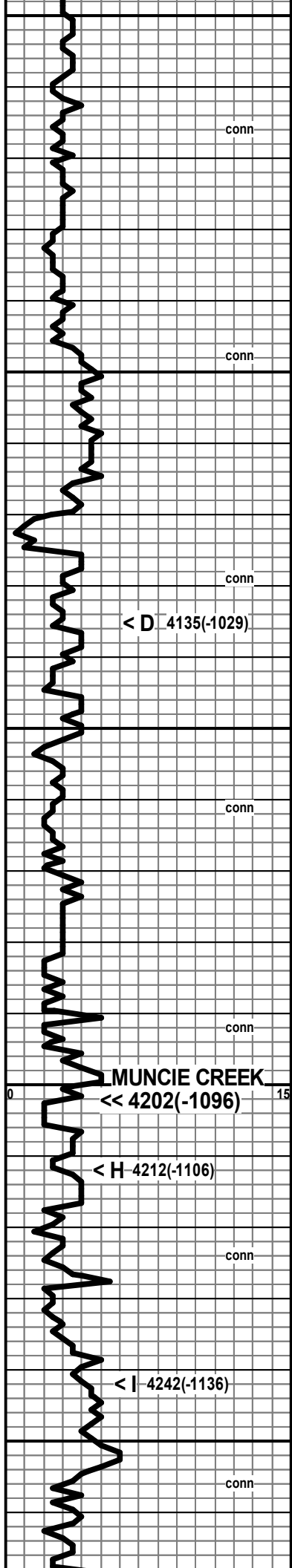
Vis 50 Wt 9.0

**HEEBNER** conn  
<< 3976(- 870)

**TORONTO** conn  
<< 3995(- 889)

**LANSING** conn  
<< 4018(- 912)

ROP (min/ft) conn 15



Shale, black, mar & grn

LS, crm-tan, f-vfxln, sub ool, rr P oom por, spt'd gils stn, NSFO, N odor

LS, crm-white, f-vfxln, sltly foss, NV por, dense

LS, tan-lt gray, f-vfxln, foss & ool, rr P pp-vgy por & P iool por, VSSFO, spt'd stn, N fluor, N odor

LS, crm-white, vf-micxln, NV por, dense

LS, gray-tan, micxln, NV por, dense + LS, crm-tan, vf-fxln, sub ool-foss, NV por, dense

LS, dolo, tan-brn, vf-fxln, P ixln por, NS

Shale, gray, black, mar & gn

LS, tan-lt gray, vf-micxln, NV por, dense + LS, crm-brn, f-mxln, sltly foss, P ixln por, NS

Shale, black, dk gray & mar

LS, crm-white, vf-micxln, sub ool-foss, NV por, chky IP-dense

LS, lt gray-white, vf-micxln, chty, NV por, dense

LS, brn-tan, mot, f-vfxln, foss, NV por, dense + Shale, gray, gn, brn & mar

LS, gray-tan, f-vfxln, foss & ool, F-P vgy por, NS

Shale, black carb

LS, lt gray-brn, vf-micxln, NV por, dense

LS, brn-gray, f-vfxln, chky IP, foss, P pp-vgy por, mhd, VSSFO, spt'd stn, spt'd dull fluor, N odor

LS, crm-tan, fxln, ool & foss, P ixln por & P vgy por, NS + Cht, tan-gray, trnsl-opq

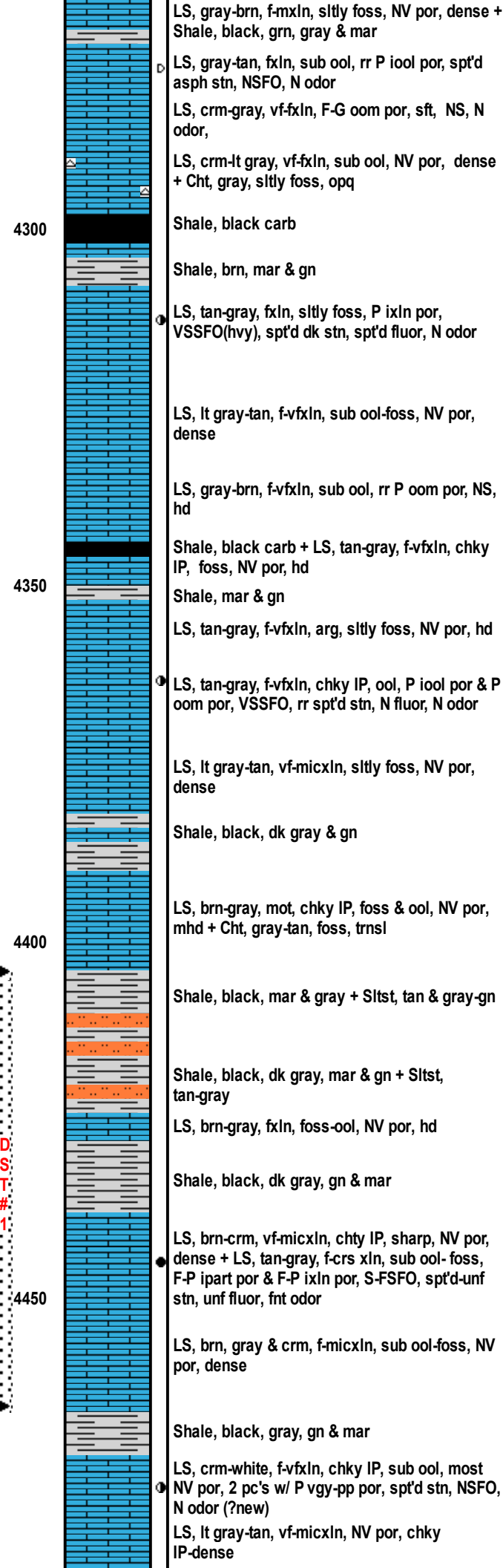
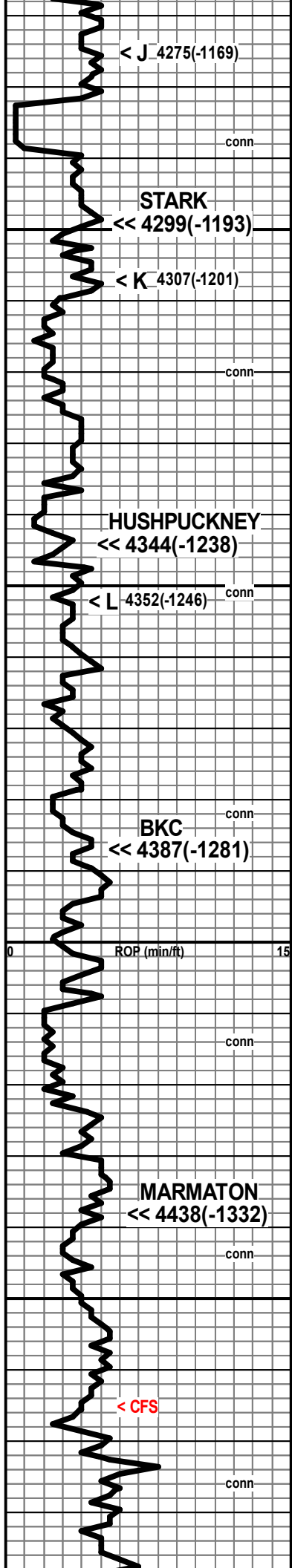
Shale, black carb

LS, brn-crm-gray, mot, f-vfxln, sub ool-foss, NV por, hd

LS, crm-tan, f-mxln, gran, chky IP, foss-sub ool, F-P ixln por & F-P vgy por, mhd, S-FSFO, spt'd dk stn, dull fluor, fnt odor

Vis 50 Wt 9.2 Fil 9.6 PH 10  
 Chl 8,500 LCM 2#  
 8/31/14 @ 4118

Vis 51 Wt 9.3 LCM 2#

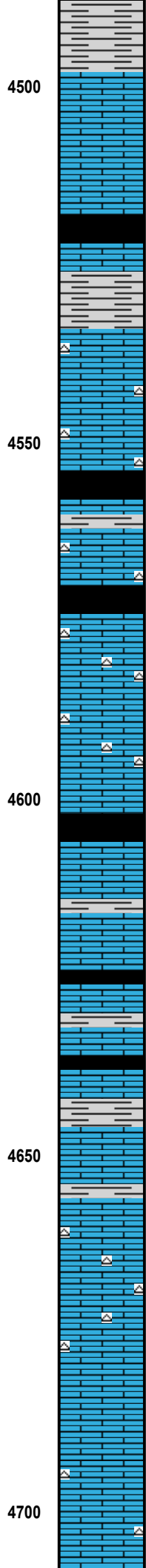
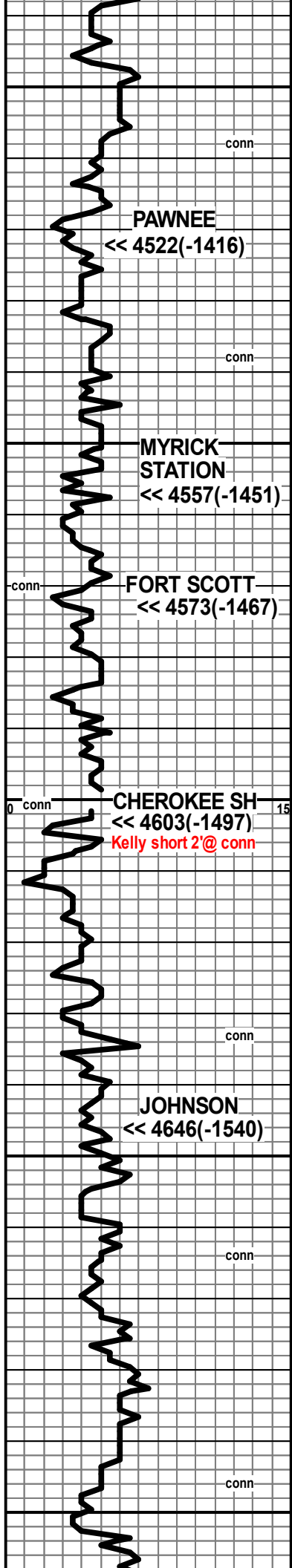


Jet @ 4288'

Following 20 stand short trip prior to DST #1, still pulled tight after CTCH. Ran another 10 stand short trip & CTCH prior to tripping out of hole w/ bit.

PIPE STRAP & SURVEY @ 4465'  
Strap 1.81' short to board  
Survey 1 1/2 deg

**DST#1 4404 - 4465**  
(Marmaton A)  
15 30 45 90  
BLOW:  
IF BOB in 2 min  
ISI 8" return  
FF BOB in 1 min  
FSI 2" return  
RECOVERY: 620' GIP  
930' GCO (30%g 70%o)  
434' MCGO (20%g 60%o 20%m)  
1,364' TOTAL FLUID (Gr 36)  
IHP 2184  
IFP 120 - 260  
ISIP 1178  
FFP 298-529  
FSIP 1065  
FHP 2236 BHT 122 deg F  
Vis 50 Wt 9.4 Fil 9.6 PH 9.0  
Chl 8,000 LCM 1#  
9/01/14 @ 4465



Shale, black, gray, gn & mar

4500  
 LS, tan-gray, f-vfxln, sub ool-foss, NV por, dense

conn

LS, crm-white, fxln, chky IP, foss & ool, rr P vgy por, NS

**PAWNEE**  
 << 4522(-1416)

Shale, black carb + pyr

LS, tan-lt gray, vf-micxln, sub ool, NV por

Shale, black, gray & gn

LS, gray-brn, vf-micxln, sub ool-foss, NV por + Cht, tan-gray, sltly foss, trnsl

4550  
 LS, brn-gray, fxln, chky IP, ool, rr P vgy por, NS, most NV por, dense + Cht, brn-dk gray, sltly foss, trnsl-opq

**MYRICK STATION**  
 << 4557(-1451)

Shale, black carb

LS, crm-gray, fxln, chky IP, foss & ool, NV por, rr spt'd edge stn, NSFO, N odor + Cht, brn-gray, opq-trnsl & Shale, vcol

conn

**FORT SCOTT**  
 << 4573(-1467)

Shale, black carb

LS, brn-gray, fxln, arg, ool, NV por + Cht, gray-brn, opq

LS, brn-tan, f-vfxln, ool, rr P iool por, SS scummy res oil, ? spt'd stn, N fluor, N odor + Cht, gray-tan, ool, opq-trnsl

4600  
 LS, brn-gray, vf-micxln, sub ool-foss, NV por, dense

0 conn

**CHEROKEE SH**  
 << 4603(-1497)  
 Kelly short 2' @ conn

15

Shale, black carb

LS, off white-tan, vfxln, chky, NV por, sft + Shale, black, gray, gn & mar

LS, crm-tan, f-vfxln, chky IP, sltly foss, rr P vgy por, NS + Shale, vcol

Shale, black carb

LS, dk brn-gray, vf-micxln, sltly foss, NV por dense + Shale, gray-gn, silty

conn

Shale, black carb + LS, tan-gray, vf-micxln, sltly foss, NV por, dense

Shale, black, gray, gn & mar

4650  
 LS, gray-brn, micxln, chty, sub ool-foss, NV por, dense

**JOHNSON**  
 << 4646(-1540)

Shale, gray-gn, black & mar

LS, crm-tan, fxln, chky, sub ool-foss, few pc's P vgy por, VSSFO, spt'd lt stn, spt'd dull fluor, N odor + Cht, tan, trnsl

conn

LS, brn-tan, vf-micxln, chty IP, NV por, dense + Cht, tan-gray, sltly foss, trnsl

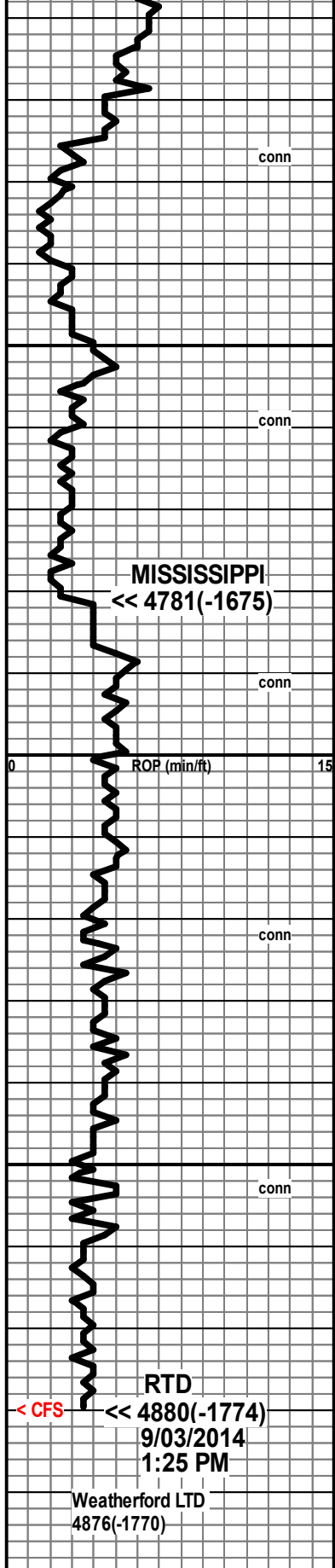
LS, brn-tan, vf-micxln, chky IP, sltly foss, NV por + LS, br-tan-gray, vf-micxln, chty, NV por, dense

4700  
 LS, crm-gray, f-vfxln, chky IP, sub ool-foss, rr P pp por w/ spt'd edge stn, NSFO, N fluor, N odor + LS, tan-brn, vf-micxln, chty, NV por, dense & Cht, gray-tan, foss, trnsl

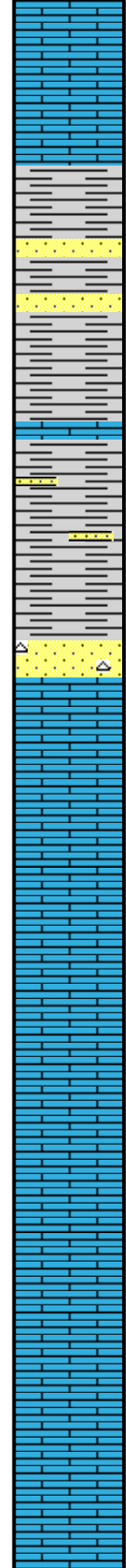
Jet @ 4570

CFS 30" @ 4604 for engine repair

Vis 52 Wt 9.2



4750  
4800  
4850  
4900



LS, crm-gray, fxl, chky IP, foss-ool, NV por, hd

Shale, gray, black & gn

Shale, gray, black & gn + SS, white, vfgrn, rd, well sort, fri-comp, F ig por, NS

Shale & SS AA + Inc LS, tan-brn, vfxln, sltly foss, NV por, dense

Most Shale, black, gn, gray & mar + few clus SS, white, sltly glauc, vfgrn, rd, well sort, comp, P ig por, NS

Most vcol shale AA + few clus SS, clr qtz, f-crs grn, sub rd-sub ang, P sort, fri, F ig por, NS + Cht, pink-orng, trnsl

LS, crm-gray, fxl, chky IP, sub ool-sdy, f-mgrn, NV por, hd

LS, crm-white, f-vfxln, chky IP, ool w/ few qtz grns, NV por + LS, tan-gray, vf-micxln, chty IP, NV por, dense

LS, gray-tan, f-micxln, ool-foss, NV por, dense

LS, crm-off white, vf-micxln, sub ool-foss, NV por, dense + LS, gray-tan, micxln, NV por, dense

LS, gray-tan, f-mxln, sub ool-foss, NV por, dense + LS, tan-gray, vf-micxln, chty, NV por, dense

LS, tan-lt gray, vf-micxln, chty IP, sub ool, NV por, hd

LS, gray-white, fxl, chky IP, ool, f-mgrn, NV por, dense + LS, gray-white, micxln, sharp, NV por, dense

Most, LS, gray-off white, chty, vf-micxln, sharp, NV por

Vis 60 Wt 9.3 Fil 9.6 PH 10.0  
Chl 8,500 LCM 1#  
9/03/14 @ 4765

Survey @ 4880,  
Shor trip 20 stands prior to tripping out for logs.

**SHAKESPEARE OIL CO.**  
**CARSON #4-25**  
**Section 25-T16S-R34W**  
**2530' FNL & 2180' FWL**  
**SCOTT CO., KANSAS**  
**API#15-171-21084-00-00**

Weatherford LTD  
4876(-1770)

RTD  
4880(-1774)  
9/03/2014  
1:25 PM

< CFS

				
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**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Inc.  
 202 West Main St  
 Salem IL 62881  
 ATTN: Steve Davis

**25-16s-34w Scott Co**  
**Carson 4-25**  
 Job Ticket: 59125 **DST#: 1**  
 Test Start: 2014.09.01 @ 15:32:15

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 17:43:45 Tester: Mike Roberts  
 Time Test Ended: 00:22:15 Unit No: 65  
 Interval: **4404.00 ft (KB) To 4465.00 ft (KB) (TVD)** Reference Elevations: 3106.00 ft (KB)  
 Total Depth: 4465.00 ft (KB) (TVD) 3094.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 12.00 ft

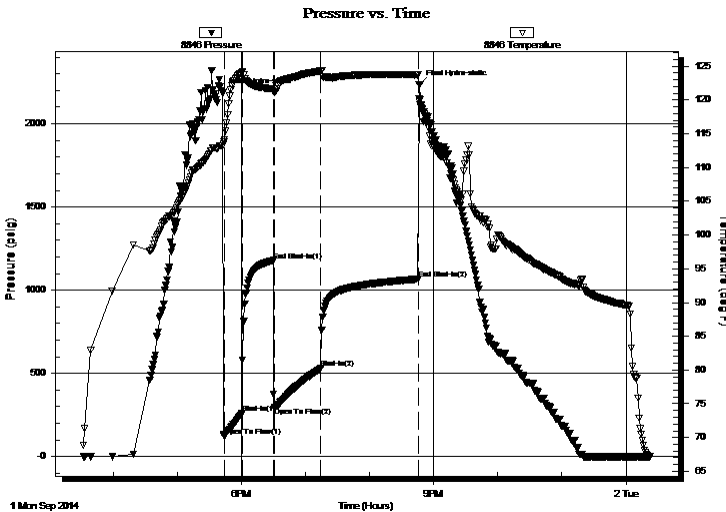
## Serial #: 8846

Inside

Press @ Run Depth: 529.28 psig @ 4407.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.09.01 End Date: 2014.09.02 Last Calib.: 2014.09.02  
 Start Time: 15:32:15 End Time: 00:22:15 Time On Btm: 2014.09.01 @ 17:42:30  
 Time Off Btm: 2014.09.01 @ 20:47:00

TEST COMMENT: IF:BOB in 2 min.  
 IS:Return blow built to 8"  
 FF:BOB in 1 min.  
 FS:Return blow built to 2"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.31	113.17	Initial Hydro-static
2	121.30	113.77	Open To Flow (1)
19	260.68	124.07	Shut-In(1)
48	1178.28	121.62	End Shut-In(1)
49	298.72	121.11	Open To Flow (2)
92	529.28	124.29	Shut-In(2)
183	1065.32	123.71	End Shut-In(2)
185	2236.80	119.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP=620 ft.	0.00
930.00	gco 30%g 70%o	13.05
434.00	mcgo 20%m 20%g 60%o	6.09

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Inc.

**25-16s-34w Scott Co**

202 West Main St  
Salem IL 62881

**Carson 4-25**

Job Ticket: 59125

**DST#: 1**

ATTN: Steve Davis

Test Start: 2014.09.01 @ 15:32:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP=620 ft.	0.000
930.00	gco 30%g 70%o	13.045
434.00	mcgo 20%m 20%g 60%o	6.088

Total Length: 1364.00 ft      Total Volume: 19.133 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 36 @ 60



Serial #: 8846

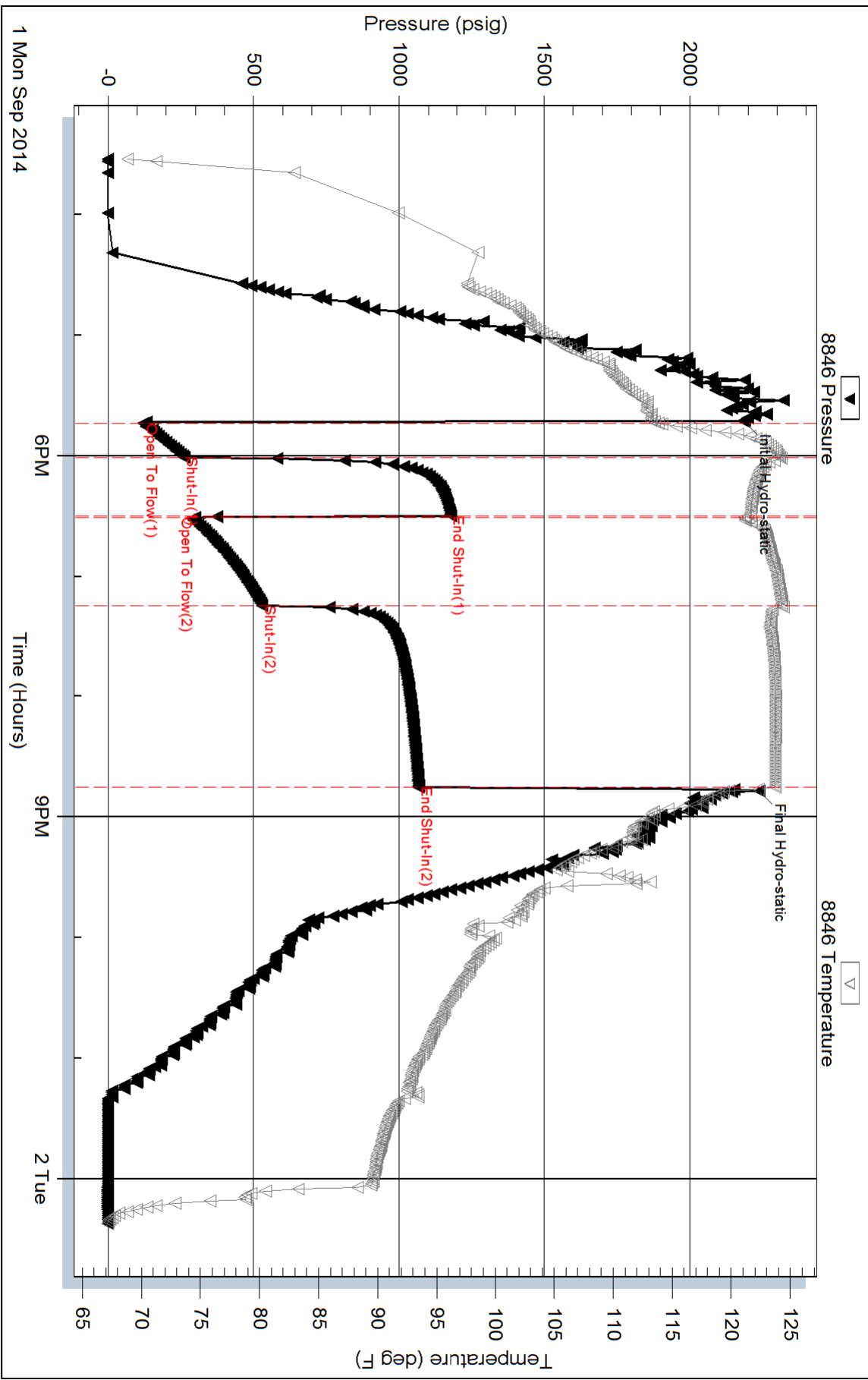
Inside

Shakespeare Oil Inc.

Carson 4-25

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 59125

Printed: 2014.09.02 @ 05:58:43



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 145351  
Invoice Date: Aug 26, 2014  
Page: 1

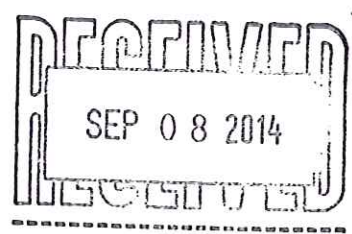
Voice: (817) 546-7282  
Fax: (817) 246-3361

<b>Bill To:</b>
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

Customer ID	Field Ticket #	Payment Terms	
Shak	64081	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 26, 2014	9/25/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	<u>Carson #4-25</u>		
190.00	CEMENT MATERIALS	Class A Common	17.90	3,401.00
357.00	CEMENT MATERIALS	Gel	0.50	178.50
536.00	CEMENT MATERIALS	Chloride	1.10	589.60
205.45	CEMENT SERVICE	Cubic Feet Charge	2.48	509.52
422.10	CEMENT SERVICE	Ton Mileage Charge	2.75	1,160.78
1.00	CEMENT SERVICE	Surface ✓	1,512.25	1,512.25
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

INT



ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 2,042.78

ONLY IF PAID ON OR BEFORE

Sep 25, 2014

Subtotal	8,171.15
Sales Tax	339.78
Total Invoice Amount	8,510.93
Payment/Credit Applied	
<b>TOTAL</b>	<b>8,510.93</b>

DW  
10502-5  
KW





# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 145492  
Invoice Date: Sep 4, 2014  
Page: 1

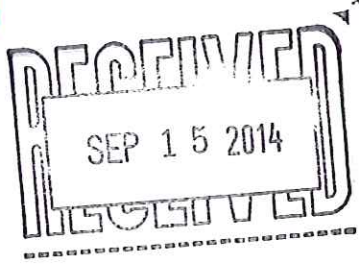
Voice: (817) 546-7282  
Fax: (817) 246-3361

<b>Bill To:</b>
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

Customer ID	Field Ticket #	Payment Terms	
Shak	64090	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Sep 4, 2014	10/4/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Carson #4-25		
165.00	CEMENT MATERIALS	ASC	23.50	3,877.50
825.00	CEMENT MATERIALS	Gilsonite	0.98	808.50
842.00	CEMENT MATERIALS	Salt	0.68	572.56
116.00	CEMENT MATERIALS	CD-31	7.73	896.68
25.00	CEMENT MATERIALS	Defoamer	3.50	87.50
12.00	CEMENT MATERIALS	Mud Clean	41.09	493.08
214.72	CEMENT SERVICE	Cubic Feet Charge	2.48	532.51
417.60	CEMENT SERVICE	Ton Mileage Charge	2.75	1,148.40
1.00	CEMENT SERVICE	Production casing ✓	2,765.75	2,765.75
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

INT



ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 3,000.49

ONLY IF PAID ON OR BEFORE Oct 4, 2014

Subtotal	12,001.98
Sales Tax	548.97
Total Invoice Amount	12,550.95
Payment/Credit Applied	
<b>TOTAL</b>	<b>12,550.95</b>

DW  
10502-5  
KW

# ALLIED OIL & GAS SERVICES, LLC 064090

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakley, TX

DATE <u>9-4-14</u>	SEC. <u>25</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>10:30am</u>	JOB START <u>11:30pm</u>	JOB FINISH <u>2:13pm</u>
LEASE <u>Carson</u>	WELL.# <u>4-25</u>	LOCATION <u>Pence 2E, 1 1/2 S, E. 40</u>	COUNTY <u>Scott</u>	STATE <u>TX</u>			
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Southwing 20  
 TYPE OF JOB Production  
 HOLE SIZE 7 1/8 T.D. 48801  
 CASING SIZE 5 7/8 DEPTH 48761  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL port collar DEPTH 23801  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 45.95'  
 CEMENT LEFT IN CSG. 45.25'  
 PERFS.  
 DISPLACEMENT 114.27

OWNER Sams  
 CEMENT  
 AMOUNT ORDERED 165 sks ASC 10905027  
2 bags 54 gilsomite 175 lbs CD31  
15 lbs Detramer 1261 mud clean  
 COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC 165 sks @ 23.50 3877.50  
gilsomite 825 # @ .98 808.50  
salt 862 # @ .68 584.56  
CD-31 116 # @ 2.73 316.78  
Detramer 25 # @ 3.50 87.50  
mud clean 12661 @ 41.09 473.88  
11625.90 @ 2.25 @ \_\_\_\_\_  
 HANDLING 214.72 @ 2.48 532.51  
 MILEAGE 2.28 truck 45 x 2.25 1148.45

EQUIPMENT  
 PUMP TRUCK CEMENTER Larane Ecken  
 # 422 HELPER Wayne McHugh  
 BULK TRUCK Medina of TX  
 # 874/241 DRIVER Chris Medina  
 BULK TRUCK DRIVER

REMARKS:  
Mix 12661 used in casing  
Mix 165 sks cement  
Displaced with water  
land plug 18204. float held

Thank you

CHARGE TO: Shakespeare  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL \_\_\_\_\_  
 SERVICE  
 DEPTH OF JOB 48761  
 PUMP TRUCK CHARGE 2765.25  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE 45 @ 7.20 324.00  
 MANIFOLD head @ \_\_\_\_\_ 225.00  
MILD 45 @ 4.40 198.00  
 TOTAL 5,266.16  
(1316.54/258)

PLUG & FLOAT EQUIPMENT  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Doug Roberts  
 SIGNATURE \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 12,001.95  
 DISCOUNT 3,000.49/258 IF PAID IN 30 DAYS  
9,001.48 Net.





# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 145668

Invoice Date: Sep 10, 2014

Voice: (817) 546-7282

Page: 1

Fax: (817) 246-3361

<b>Bill To:</b>
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

Customer ID	Field Ticket #	Payment Terms	
Shak	63718	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Great Bend	Sep 10, 2014	10/10/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	<u>Carson #4-25</u>		
300.00	CEMENT MATERIALS	Cottonseed Hulls	0.99	297.00
500.00	CEMENT MATERIALS	60/40/8% Gel Blend	19.89	9,945.00
125.00	CEMENT MATERIALS	Flo Seal	2.97	371.25
508.33	CEMENT SERVICE	Cubic Feet Charge	2.48	1,260.66
1,010.70	CEMENT SERVICE	Ton Mileage Charge	2.75	2,779.43
1.00	CEMENT SERVICE	<u>Port Collar</u>	2,483.59	2,483.59
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	Charles Kinyon		
1.00	EQUIPMENT OPERATOR	Ben Newell		
1.00	EQUIPMENT OPERATOR	Daniel Casper		



10502-5  
KW

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 4,420.36

ONLY IF PAID ON OR BEFORE  
Oct 10, 2014

Subtotal	17,681.43
Sales Tax	864.98
Total Invoice Amount	18,546.41
Payment/Credit Applied	
<b>TOTAL</b>	<b>18,546.41</b>

# ALLIED OIL & GAS SERVICES, LLC 063718

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
great Bend

9-10-14 DATE	SEC 25	TWP 16	RANGE 34	CALLED OUT 6:00 am	ON LOCATION 9:30 am	JOB START 12:00 pm	JOB FINISH 1:00 pm
Custom LEASE	WELL # 4-25		LOCATION <u>pence E to eagle rd</u>		COUNTY <u>west</u>	STATE <u>KY</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			1 1/2 S E clats				

CONTRACTOR wild west  
TYPE OF JOB port collar  
HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_  
CASING SIZE 5 1/2 DEPTH \_\_\_\_\_  
TUBING SIZE 2 3/8 DEPTH 2391  
DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
TOOL port collar DEPTH 2391  
PRES. MAX 1200 MINIMUM \_\_\_\_\_  
MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
CEMENT LEFT IN CSG. \_\_\_\_\_  
PERFS. \_\_\_\_\_  
DISPLACEMENT H2O

OWNER Name  
CEMENT  
AMOUNT ORDERED 500 x 60140 8 1/2 gal 4 flr  
COMMON \_\_\_\_\_ @ \_\_\_\_\_  
POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
GEL \_\_\_\_\_ @ \_\_\_\_\_  
CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
ASE 300 Hulls \_\_\_\_\_ @ .99 297.00  
500 x 60140 + 8% @ 19.89 9,945.00  
410 125 @ 2.97 371.25  
Material Total 10,613.25  
Disc 25% 2,653.31  
Service  
300 H Pools @ \_\_\_\_\_  
HANDLING 508.33 @ 2.48 1,260.68  
MILEAGE 22.46 x 45 x 2.75 2,779.43

**EQUIPMENT**

PUMP TRUCK CEMENTER Charles Kingen  
# 366 HELPER Ben newell  
BULK TRUCK  
# 609-289 DRIVER Dan Casper  
BULK TRUCK  
# \_\_\_\_\_ DRIVER \_\_\_\_\_

**REMARKS:**

Rig ran 2391' 2 3/8 tubing pressure to 1200 # + held open port collar pump  
2. CBI H2O mix 100 at 2 1/2 300x Hulls  
mix 400 at 60140 8 1/2 gal 4 flr displac  
8 BBI H2O close port collar pressure to 1200H + held Ran 4 joints Reverse tubing clean  
Cement to surface

DEPTH OF JOB 2391  
PUMP TRUCK CHARGE 2,483.57  
EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
MILEAGE Hvm 45 @ 7.70 346.50  
MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_  
Hvm 45 @ 4.40 198.00

CHARGE TO: Shakespeare oil co  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 7,068.18  
Disc 25% 1,767.05

**PLUG & FLOAT EQUIPMENT**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

0% TOTAL 0

*Thank you!*  
To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 17,681.43  
25% 4,420.36 (25/25/0)  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
13,261.07

PRINTED NAME \_\_\_\_\_  
SIGNATURE [Signature]