



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1097490  
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: \_\_\_\_\_



1097490

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> _____
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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	Campbell 2-17
Doc ID	1097490

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Campbell 2-17
Doc ID	1097490

Tops

Name	Top	Datum
Base Anhydrite	2525	+512
Heebner	3969	-932
Lansing	4009	-972
Muncie Creek	4158	-1121
Stark Shale	4242	-1205
Hushpuckney	4276	-1239
Pawnee	4443	-1406
Cherokee Shale	4524	-1487
Johnson	4570	-1533
Mississippian	4622	-1585

# Geologist's Report WellSight Systems

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

Well Name: SHAKESPEARE OIL COMPANY, INC. CAMPBELL #2-17  
Location: 1180' FSL&1010'FEL(approx.NW NW SE SE) of Section 17-T13S-R32W  
License Number: API#15-109-21097 Region: Logan County, Kansas  
Spud Date: August 30, 2012 Drilling Completed: September 10,2012  
Surface Coordinates: N.A.

Bottom Hole N.A.  
Coordinates:  
Ground Elevation (ft): 3027 K.B. Elevation (ft): 3037  
Logged Interval (ft): 3700 To: 4700 Total Depth (ft): RTD 4700 LTD 4700  
Formation: Mississippi  
Type of Drilling Fluid: Chemical

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

## Operator

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

## Geologist

Name: Richard S.(Steve) Davis Jr.  
Company: Consulting Petroleum Geologist  
Address: 221 N. Market, Suite 268  
Wichita, Kansas 67202  
Cell 316-772-6479 Home 316-686-1193 Office 316-267-9115

Formation	E-Log	Sample
Anhydrite	2502 + 535	N.A.
B/Anhydrite	2526 + 511	N.A.
Topeka	3806 - 769	3807
Heebner	3970 - 933	3970
Lansing	4010 - 973	4013
Muncie Creek	4158 - 1121	4160
Stark	4243 -1206	4244
BKC	4313 -1276	4316
Pawnee	4443 -1406	4444
Cherokee Shale	4525 -1488	4526
Johnson Zone	4570 -1533	4570
Mississippi	4622 -1585	4622

## Drilling Information

Drilling Contractor: Val Energy, Inc. Rig #7

Casing: Surface: 8 5/8" @ 254'  
 Production: 5 1/2"

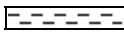

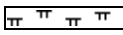

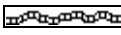


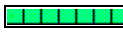

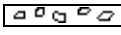




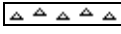




Electrical Surveys: Weatherford, DIL, CNL/CDL & MEL

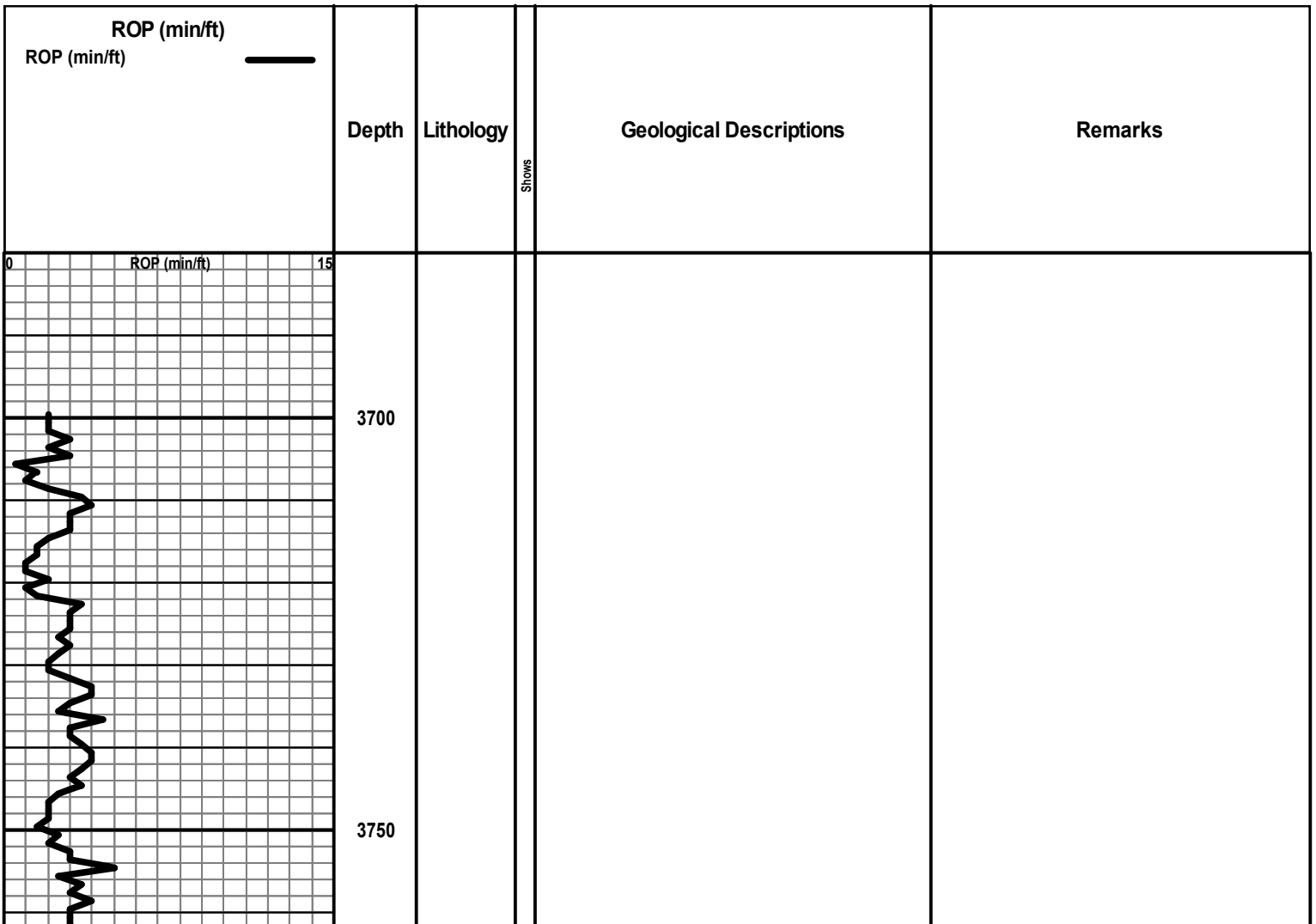
Bit Record: Bit 1: 12 1/4" JZ RT out(254') ftg(254') hrs(2 3/4), Bit 2: JZ QX28 out(4700') ftg(4446') hrs(135 1/4)

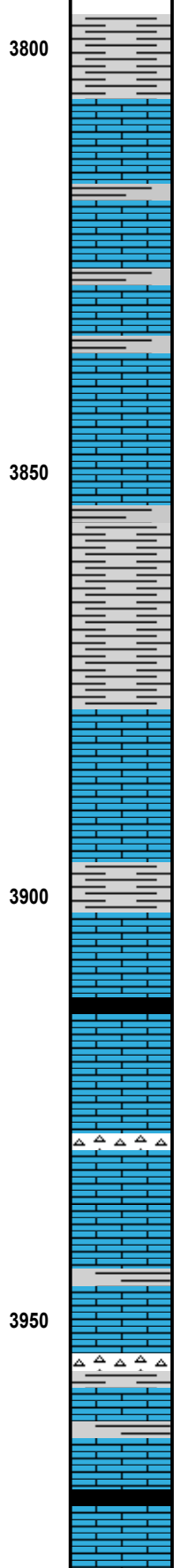
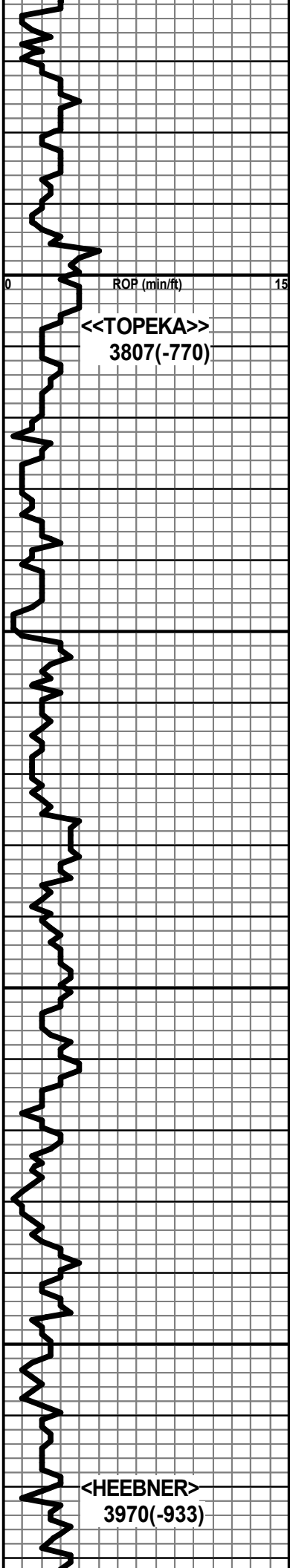
**Daily Penetration:**

Date	Spud
8-31	254
9-01	1090
9-02	2670
9-03	3350
9-04	3870
9-05	4060
9-06	4114
9-07	4242
9-08	4434
9-09	4557
9-10	4700 RTD

### Rock Types

 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Sltst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till





3800 Shale, gray, black & rust

LS, brown-gray, fxln, foss-ool, chky IP, F-P por, NS

LS, crm-white, fxln, foss-ool, chky, P mold por + Shale gray-black

3850 LS gray-off white, fxln, foss-ool, P-ipart por, NS + shale gray, black, green & rust

Most Shale, gray, green, rust & black, silty

LS, gray-tan, vf-micro xln, dense, NV por

3900 Shale, gray, black & green

LS, gray-tan, vf-micro xln, sltly foss, NV por, dense

Shale, black, sub carb

● LS, crm-white, fxln, sltly foss, P vgy por & P ixln por, SS scummy res oil, spt'd stn, spt'd dull fluor, N odor

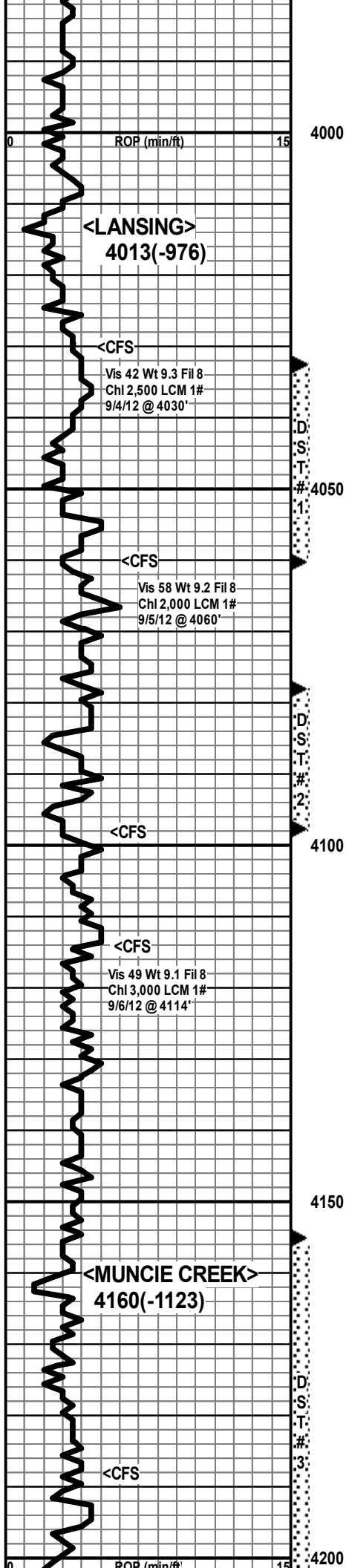
LS, gray-white, chky, NV por, dense + Cht, white & gray, opq

Abnt shale, gray, black & rust + LS AA

3950 LS, brown-gray, fxln, foss, arg, NV por + Cht, gray, opq & abnt Shale, gray, black, green & rust

Shale, black, carb

LS, gray-tan, vfxln, dense, NV por + Shale vari-col



Shale black, gray, green & rust

LS, crm-tan, f-vfxln, chky, sltly foss & ool, NV por + few pcs Cht, white, opq

Shale, black, green & gray  
LS, crm-tan, fxln, ool-sltly ool, chky IP, P pool & P vgy por, SSFO, spt'd stn, spt'd fluor, V fnt odor

LS, tan-off white, f-vfxln, chky IP, NV por, most dense

Shale dk gray & green

LS, tan-gray, f-vfxln, foss & ool IP, F-P mold por & P ixln por, S-FSFO, spt'd-unf stn, F spt'd-unf fluor, fnt odor

LS, gray-brown, vf-micro xln, dense + LS white-crm, fxln, foss & sltly ool, chky, NV por (few pc's w/show from above?)

LS AA + Shale gray, black, green & rust

LS, gray-brown, vf-fxln some crs, foss & ool, F-P ipart por & P ixln por, S-FSFO, spt'd-unf stn (some asph), spt'd fluor, F odor

LS, gray-crm, f-vfxln, foss & ool, P ipart por, VSSFO, rare spt'd stn, dull fluor, N odor

LS, crm-white, fxln, chky, sltly foss & ool, NV por + Cht, crm-gray, sub ool

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

LS AA + LS, tan-brown, vfxln, sltly foss, NV por, dense w/inc Shale, gray, black & rust

Shale, black, carb

LS, tan-crm, f-mxln, sltly foss, P vgy por & P ixln por, S-FSFO, spt'd-unf lt stn, spt'd fluor, G odor

LS, crm-white, f-vfxln, sltly foss, chky IP, NV por, dense + Shale gray, green & rust

**Strap & Survey @ 4060**  
Strap .43 short & Survey 1/4\*

**DST #1 4032 - 4060**

(Lansing B)  
15-30-45-90  
BLOW:  
IF BOB 2 min  
ISI BOB 12 min  
FF BOB 4 min  
FSI Built to 10" in 18 min  
RECOVERY: 1,800' GIP  
1,030' GO  
(10%g 90%o, gravity 38 API)  
124' SW&MCGO  
(10%g 80%o 2%w 8%  
62' SW&MCGO  
(10%g 40%o 10%w 40%  
1,216' TOTAL FLUID  
IHP 1998  
IFP 62-200  
ISIP 1189  
FFP 189-461  
FSIP 1184  
FHP 1916 BHT 120 F

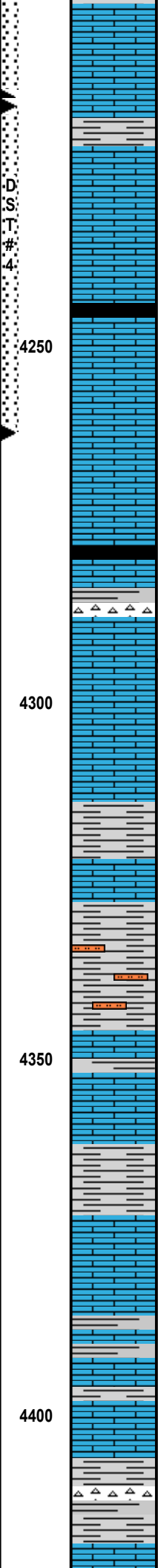
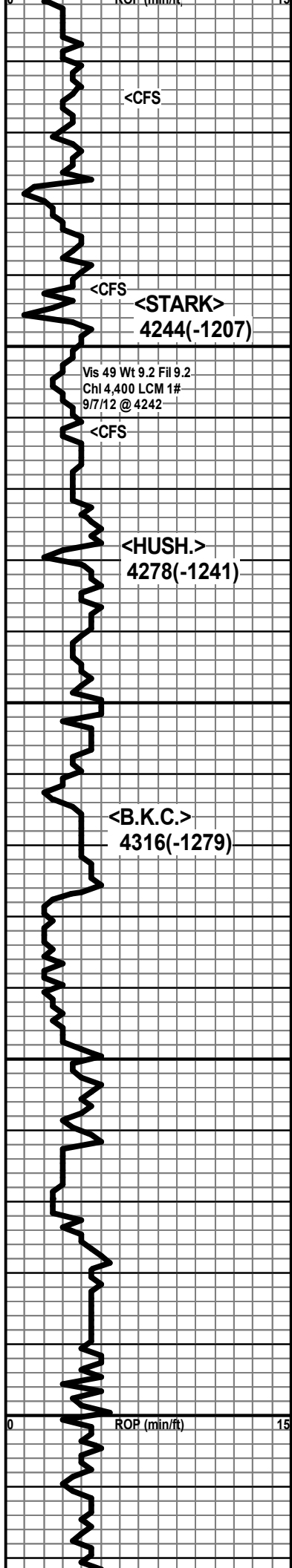
**DST #2 4078 - 4098**

(Lansing D-E)  
15-30-45-90  
BLOW:  
IF BOB 5 min  
ISI built to 2 1/4"  
FF BOB 7 min.  
FSI built to 5"  
RECOVERY: 1860' GIP  
206'GO  
(5%g 95%o, gravity 36 API)  
124' GO  
(25%g 75%o)  
62' MCGO  
(30%g 40%o 30%  
392' TOTAL FLUID  
IHP1997  
IFP 29-63  
ISIP1216  
FFP 70-172  
FSIP 1224  
FHP 1902 BHT 120 F

**DST #3 4155-4215**

(Lansing H & I)  
15-30-45-90  
BLOW:  
IF BOB 11 min  
ISI built to 1"  
FF BOB 15 min  
FSI built to 5"  
RECOVERY: 990' GIP  
72'GO





LS, tan-gray, f-vfxln, foss, chky-chty IP, F-P pp por & F-P vgy por, F-GSFO, spt'd-unf stn & fluor, G-odor

LS, tan-gray, vfxln, chky IP, sub ool, NV por

Shale, gray-black & green

LS, crm-off white, fxl, ool & foss, F-P ipart por & F-P vgy por, S-FSFO, spt'd stn & fluor, fnt oor

Shale, black, carb

LS, tan-gray, f-vfxln, ool, P iool por & P ool mold por, SSFO, spt'd lt stn, dull spt'd fluor, strong odor + LS, brown-gray, vf-micro xln, dense

Shale, black, carb

LS gray-brown, vfxln, sltly foss, dense NV por + shale, gray, green & black+ Cht tan opq

LS, brown-gray, vf-fxl, few foss frag, P vgy-pp por, dense, VSSFO, spt'd asph stn, dull spt'd fluor, V fnt odor

LS, tan-gray, vf-micro xln, sub-ool, dense, NV por

Shale, gray, black, gray & rust

LS, gray-tan, vfxln, dense, NV por+Shale AA

Shale, brown-rust, silty, hard to wash

LS, gray-white, fxl, chky, sltly foss, NVpor

LS, gray, vf-micro xln, dense, NV por

Shale, gray, black & green

LS, crm-off white, vf-fxl, sltly foss w/ brown shale incl, NV por

LS, gray, yellow-dis colo, f-vfxln, sub ool, arg, NV por + Shale gray, black, green & gray

Shale AA w/inc LS, white-crm, chky, NV por

Shale, gray, green, rust & black + few pc's Cht, pink

LS, white-crm, fxl, chky, NV por + Shale, gray,

(10%g 90%o, gravity 38 API)  
 124' SW&OCGM  
 (25%g 18%o 2%w 55%o)  
 124' OCMW  
 (5%o 75%w 20%o)  
 320' TOTAL FLUID  
 IHP 2021  
 IFP 46-86  
 ISIP 1140  
 FFP 91-169  
 FSIP 1141  
 FHP 1971 BHT 117 F

**DST #4 4216-4262**  
 (Lansing J & K)  
 15-30-45-90  
 BLOW:  
 IF built to 4 1/2"  
 FF built to 9 1/2"  
 (No return ISI or FSI)  
 RECOVERY:  
 15' GO  
 (5%g 95%o, gravity 37 API)  
 125' OCGM  
 (10%g 5%o 85%o)  
 140' TOTAL FLUID  
 IHP 2066  
 IFP 21-39  
 ISIP 988  
 FFP 47-78  
 FSIP 948  
 FHP 2040 BHT 117 F

Vis 49 Wt 9.2 Fil 9.2  
 Chl 4,400 LCM 1#  
 9/7/12 @ 4242

<CFS

<CFS  
 <STARK>  
 4244(-1207)

<CFS  
 <HUSH.>  
 4278(-1241)

<CFS  
 <B.K.C.>  
 4316(-1279)

ROP (min/ft)

4250

4300

4350

4400

D.S.T.  
 #. 4.

Vis 48 Wt 9.2 Fil 7.2  
Chl 4,500 LCM 1#  
9/8/12 @ 4434

<PAWNEE>  
4444(-1407)

4450

green, black & rust

Abnt shale, vari colo + LS brown-gray, micro xln, dense

Shale, black, carb

LS, tan-brown, fxln, sltly ool-foss, NV por, few pc's w/spt'd edge stn, NSFO, N odor + flood Cht, gray-tan, opq

LS, tan-crm, f-vfxln, sltly foss, dense, NV por + Cht gray, opq sltly fos

Shale, black, carb

LS, tan-brown, f-mxln, sltly foss, NV por, few pc's with spt'd asph stn, NSFO + Cht gray-brown opq + Shale vari colo

Shale, black, carb

LS, brown-gray, f-vfxln, ool, F-P iool por, S-FSFO, few pc's spt'd stn & dull fluor, fnt odor + Cht brown-gray, opq

LS, tan-crm, fxln, sltly foss & ool, chky-dense, NV por

Shale, black, carb

LS, f-vfxln, brown-gray, foss & ool, F-P mold por & P ipart por, SSFO, spt'd res stn, dull spt'd fluor, fnt odor

LS, brown-gray, vfxln, sltly foss & ool, dense, NV por + Shale black, gray & green

LS, brown-gray, vf-micro xln, sltly foss, dense, NV por + Shale black, gray & green

LS, brown-tan & gray, f-vfxln, dense, sltly foss, P-F vgy por & P ixln por, F-GSFO, spt'd - unf dk stn, spt'd dull fluor, G odor

LS w/ show AA, most LS, gray - tan, fxln, ool & foss IP, NV por+ LS brown, vf-micro xln, dense

LS, gray-tan, fxln, sltly chky, NV por

AA w/inc Shale, rust-red, green, turq, black & gray + few clus SS, geen-white, f-vfgrn, sub rd, well sort, calc, fri - comp, P ig por, NS

SS, white-gray, f-mgrn, mod sort, fri, F-G ig por, NS, most Shale vari colo AA

LS, white-gray, fxln, V sdy vf-fgrn, chky IP, NV por

LS, white-gray, f-vfxln, sdy, chkv IP, NV por+ LS

Vis 47 Wt 9.1 Fil 9.6  
Chl 4,000 LCM1#  
9/9/12 @ 4584

<JOHNSON>  
4570(-1533)

4550

4550

4550

4550

4550

4550

4600

<CFS>  
ROP (min/ft)

<MISS.>  
4622(-1585)

**DST#5 4468-4520**  
(Myric Station & Fort Scott)

15-30-45-60

BLOW:

IF built to 2 1/4"

FF built to 2 1/2"

(No return ISI or FSI)

RECOVERY:

100' M w/ scum of oil

IHP 2233

IFP 21-33

ISIP 291

FFP 43-59

FSIP 172

FHP 2143 BHT 119 F

**DST #6 4545-4594**  
(Johnson Zone)

BLOW:

IF BOB 11 min

ISI no return

FF BOB 10 min

FSI built to 3"

RECOVERY: 124' GIP

196' MCGO

(10% g 80% o 10% m)

124' MCGO

(15%g 70%o 15%m)

320' TOTAL FLUID

IHP 2254

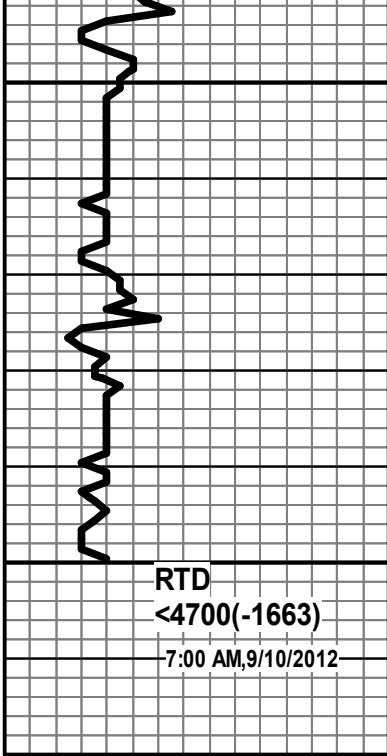
IFP 40-94

FSIP 1085

FFP 114-178

FSIP 958

FHP 2173



4650

LS, tan-gray, f-vfxln, ool-sltly sdy, chky IP NV por

LS, crm-white, fxlIn, sdy & sltly ool, chky IP, NV por

LS, crm-gray, fxlIn sdy & ool, NV por + LS, tan-gray, f-vfxln, dense, sltly sdy, NV por

LS AA w/inc Shale, vari colo, ? slough

LS, tan-gray, f-vfxln, ool-sltly sdy, chky IP NV por

4700

RTD  
<4700(-1663)  
-7:00 AM,9/10/2012

Survey @ 4700, 1/4

PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 132573  
Invoice Date: Aug 30, 2012  
Page: 1



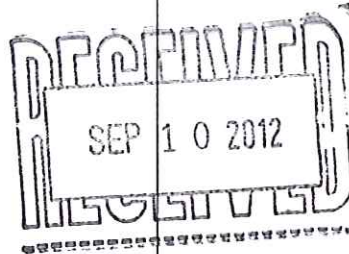
<b>Bill To:</b>
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Shak	Campbell #2-17	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Aug 30, 2012	9/29/12

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Class A Common	16.25	2,762.50
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
183.49	SER	Cubic Feet	2.10	385.32
125.54	SER	Ton Mileage	2.35	295.04
1.00	SER	Surface	1,125.00	1,125.00
15.00	SER	Pump Truck Mileage	7.00	105.00
15.00	SER	Light Vehicle Mileage	4.00	60.00
1.00	CEMENTER	Dustin Chambers		
1.00	EQUIP OPER	Joshua Isaac		
1.00	EQUIP OPER	Daniel Casper		

INT

Surface  
10502-5



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

\$ 1029.14

ONLY IF PAID ON OR BEFORE  
Sep 24, 2012

Subtotal	5,145.81
Sales Tax	247.69
Total Invoice Amount	5,393.50
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,393.50</b>

DW

# ALLIED OIL & GAS SERVICES, LLC 053787

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

*Green Bank*

DATE <i>6-30-12</i>	SEC. <i>17</i>	TWP. <i>13</i>	RANGE <i>32</i>	CALLED OUT	ON LOCATION	JOB START <i>12:30</i>	JOB FINISH <i>1:30 AM</i>
LEASE <i>Campbell</i>	WELL.# <i>2-17</i>	LOCATION <i>Scott City 32 N 26 S 17 W</i>		COUNTY <i>Logan</i>		STATE <i>KS</i>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR *Vul Energy Reg# 7*  
TYPE OF JOB *Surface*  
HOLE SIZE *12 1/4* T.D.  
CASING SIZE *4 5/8* DEPTH *253.98*  
TUBING SIZE DEPTH  
DRILL PIPE *4 1/2* DEPTH  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT  
CEMENT LEFT IN CSG. *156*  
PERFS.  
DISPLACEMENT *15,226 bbls Freshwater*

OWNER  
CEMENT  
AMOUNT ORDERED *170 SKS CLASS A 31CC 2/gal*

EQUIPMENT  
PUMP TRUCK CEMENTER *Rosario Chambers*  
# *798* HELPER *Josh Esaal*  
BULK TRUCK  
# *344-170* DRIVER *Dan Casper*  
BULK TRUCK  
# DRIVER

COMMON	<i>170</i>	@	<i>16.25</i>	<i>2,762.50</i>
POZMIX		@		
GEL	<i>3</i>	@	<i>21.25</i>	<i>63.75</i>
CHLORIDE	<i>6</i>	@	<i>58.20</i>	<i>349.20</i>
ASC		@		
HANDLING	<i>183.49</i>	@	<i>2.10</i>	<i>385.32</i>
MILEAGE	<i>8.37 x 15 x</i>		<i>2.35</i>	<i>295.95</i>

### REMARKS:

*Break circulation with Reg mud  
Pump 5 bbls freshwater & hard  
Wgt, 170 SKS Class A 31cc 2/gal  
Displace 15,226 bbls freshwater  
Cement did circulate  
Plug Down 1:30 AM 6-31-12  
Pdg Down*

TOTAL		<i>3,855.81</i>		
SERVICE				
DEPTH OF JOB	<i>253</i>			
PUMP TRUCK CHARGE				<i>1125.00</i>
EXTRA FOOTAGE		@		
MILEAGE	<i>Hum 15</i>	@	<i>7.00</i>	<i>105.00</i>
MANIFOLD	<i>Hum 15</i>	@	<i>4.00</i>	<i>60.00</i>

CHARGE TO: *Shakespeare Oil Co.*  
STREET  
CITY STATE ZIP

TOTAL *1290.00*

### PLUG & FLOAT EQUIPMENT

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.

	@			
	@			
	@			
	@			
	@			

TOTAL

PRINTED NAME *X. Joshua Villarreal*  
SIGNATURE *X. Joshua Villarreal*

SALES TAX (if Any) *244.68*  
TOTAL CHARGES *5,145.81*  
DISCOUNT *20* *1029.16* IF PAID IN 30 DAYS

*Thank You !!*



PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 132676  
Invoice Date: Sep 11, 2012  
Page: 1



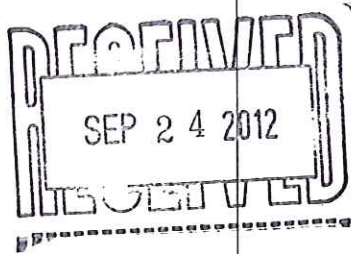
<b>Bill To:</b>
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Shak	Campbell #2-17	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Sep 11, 2012	10/11/12

Quantity	Item	Description	Unit Price	Amount
5.00	MAT	Gel	23.40	117.00
240.00	MAT	ASC	20.90	5,016.00
1,200.00	MAT	Gilsonite	0.98	1,176.00
169.00	MAT	CD-31	10.30	1,740.70
23.00	MAT	Salt	26.35	606.05
12.00	MAT	WFR-2	58.70	704.40
309.56	SER	Cubic Feet	2.48	767.71
215.03	SER	Ton Mileage	2.60	559.10
1.00	SER	Production Casing	2,765.75	2,765.75
16.00	SER	Pump Truck Mileage	7.70	123.20
1.00	SER	Manifold & Head Rental	275.00	275.00
16.00	SER	Light Vehicle Mileage	4.40	70.40
1.00	SER	Rotating Head -- No Charge		
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Chris Helpingstine		

INT

Production  
10502-5  
jk



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

\$ 2923.47

ONLY IF PAID ON OR BEFORE  
Oct 6, 2012

Subtotal	13,921.31
Sales Tax	730.09
Total Invoice Amount	14,651.40
Payment/Credit Applied	
<b>TOTAL</b>	<b>14,651.40</b>

DW

# ALLIED OIL & GAS SERVICES, LLC 058763

Federal Tax I.D.# 20-5976804

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

SERVICE POINT:  
Oakley, Ky

DATE <u>9/11/12</u>	SEC. <u>17</u>	TWP. <u>13</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30am</u>	JOB FINISH <u>8:30am</u>
LEASE <u>Campbell</u>	WELL # <u>2-17</u>	LOCATION <u>Oakley 13.5 2W 11-3</u>		COUNTY <u>Wingo</u>	STATE <u>KY</u>		
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR York

TYPE OF JOB Production

HOLE SIZE 2 7/8" T.D.

CASING SIZE 5 1/2" DEPTH 4699'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL PoEI Collar DEPTH 2420'

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 35'

CEMENT LBFT IN CSG. 35'

PERFS. \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

OWNER Same

CEMENT AMOUNT ORDERED 240 SK AGC 109050501

20 equal 5" Gilsonite 3/4" 190C D 31

50 bags - 12881 WFR-2

COMMON	①		
POZMIX	②		
GRL	③	5	23.40 117.00
CHLORIDE	④		
ASC	⑤	0.40 SK	2.00 5016.00
Gilsonite	⑥	120016	0.98 1176.00
ED 31	⑦	10216	10.20 1042.20
SUB	⑧	23	26.35 606.05
WFR-12	⑨	885	58.70 209.40
HANDLING	⑩	307.40 CF	2.48 767.21
MILBAGS	⑪	13.49	7.59 559.40
		TOTAL	10,586.96

EQUIPMENT

PUMP TRUCK CEMENTER Alan Ryan

# 402 HELPER Wayne McElghy

BULK TRUCK DRIVER Chris Helmsingline

# 404 DRIVER \_\_\_\_\_

REMARKS:

Arrive on site 7:30 AM. 15 SK

Arrival Hole Box 195 SK Down 5 1/2"

Washed. Re-plan plug w/ 11 1/2" BBL

w/ rebar 1/2" dia. total plug @ 1900'

Float held

From the Alan, Wayne, Chris

SERVICE

DEPTH OF JOB	4699'
PUMP TRUCK CHARGE	2765.75
EXTRA FOOTAGE	①
MILEAGE 16 miles	② 7.20 123.20
MANIFOLD Head	③ 2.55 255.00
Rotating Head 10 miles	④ 4.42 20.00
	⑤ n/c n/c
TOTAL	3234.35

CHARGE TO: Shale spere PM

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

	①		
	②		
	③		
	④		
	⑤		

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.

TOTAL

SALES TAX (if Any) 730.09

TOTAL CHARGES 13,921.31

DISCOUNT 2923.44 IF PAID IN 30 DAYS

PRINTED NAME \_\_\_\_\_

SIGNATURE [Signature]

21%



PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 132804  
Invoice Date: Sep 16, 2012  
Page: 1



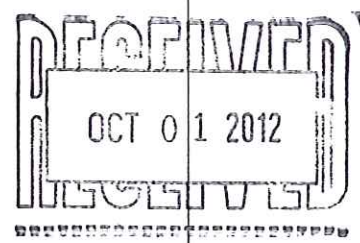
<b>Bill To:</b>
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Shak	Campbell #2-17	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Sep 16, 2012	10/16/12

Quantity	Item	Description	Unit Price	Amount
221.00	MAT	Class A Common	17.90	3,955.90
119.00	MAT	Pozmix	9.35	1,112.65
24.00	MAT	Gel	23.49	563.76
85.00	MAT	Flo Seal	2.97	252.45
566.33	SER	Cubic Feet	2.48	1,404.50
353.28	SER	Ton Mileage	2.60	918.55
1.00	SER	Port Collar	2,483.59	2,483.59
15.00	SER	Pump Truck Mileage	7.70	115.50
15.00	SER	Light Vehicle Mileage	4.40	66.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Jeremy Sterger		

INT

10502-5



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

\$ 2391.95

ONLY IF PAID ON OR BEFORE  
Oct 11, 2012

Subtotal	10,872.90
Sales Tax	459.01
Total Invoice Amount	11,331.91
Payment/Credit Applied	
<b>TOTAL</b>	<b>11,331.91</b>

DW



# ALLIED OIL & GAS SERVICES, LLC 058769

Federal Tax I.D.# 20-5976804

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

SERVICE POINT: DePuy K&S

DATE <u>9/16/12</u>	SEC. <u>17</u>	TWP. <u>13</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>10:30am</u>	JOB FINISH <u>12:00p</u>
LEASE <u>Chapell</u>	WELL # <u>2-17</u>	LOCATION <u>DePuy 13.5 2. New Saddle</u>	COUNTY <u>Logan</u>	STATE <u>KS</u>			
OLD OR (NEW) Circle one							

CONTRACTOR <u>Wild West</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Port Collar</u>	
HOLE SIZE _____ T.D. _____	CEMENT AMOUNT ORDERED <u>5005/6.65/35 @ 90</u>
CASING SIZE <u>5 1/2</u> DEPTH _____	<u>need 3405/65</u>
TUBING SIZE _____ DEPTH _____	<u>221 17 90 3955 90</u>
DRILL PIPE _____ DEPTH _____	<u>119 9 35 1112 35</u>
TOOL <u>Port Collar</u> DEPTH <u>2466</u>	<u>2.4 23 32 563 30</u>
PRES. MAX _____ MINIMUM _____	COMMON _____
MEAS. LINE _____ SHOE JOINT _____	POZMIX _____
CEMENT LEFT IN CSO. _____	GBL _____
PERFS. _____	CHLORIDE _____
DISPLACEMENT <u>9.0 H<sub>2</sub>O</u>	ASC _____
EQUIPMENT _____	<u>FloSeal 25lb @ 2 22 85 2 45</u>

PUMP TRUCK CEMENTER <u>Alan Ryan</u>	
<u>1 402</u> HELPER <u>Wayne Bloddy</u>	
BULK TRUCK _____	
<u>1 540</u> DRIVER <u>Terecy Stager</u>	
BULK TRUCK _____	
<u>1</u> DRIVER _____	

REMARKS:  
Port Collar 1250 - 1000 gpm TPA, 1/2" hole  
13.5 2. New Saddle 65/35 800 gal 14 FloSeal  
Displace 9.0 H<sub>2</sub>O - 16.0 - 16.0  
Close - Port 201 1250 - 1000 gpm 1 402  
Reverse Clean  
Cement did crackle  
Frank Young  
Alan Ryan  
Wayne Bloddy  
Terecy Stager

HANDLING <u>500 31 CF @ 2 48</u>	<u>1404 30</u>
MILBAGE <u>200 - 700/mile 23.55 700</u>	<u>918 25</u>
<u>25328</u>	TOTAL <u>822 57</u>

CHARGE TO: W. H. H. Co. (1)  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

DEPTH OF JOB _____	<u>2466 09</u>
PUMP TRUCK CHAROB _____	<u>2483 59</u>
EXTRA FOOTAGE _____	
MILBAGE <u>15 miles @ 5 20</u>	<u>780 00</u>
MANIFOLD _____	
<u>1.5 15 miles @ 4 40</u>	<u>66 00</u>
TOTAL <u>2665 09</u>	

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.

PLUG & FLOAT EQUIPMENT	
_____	①
_____	②
_____	③
_____	④
_____	⑤
TOTAL _____	

PRINTED NAME J. Cobb  
 SIGNATURE \_\_\_\_\_

SALES TAX (if Any) 458.98  
 TOTAL CHARGES 10,872.07 90  
 DISCOUNT 2391.95 IF PAID IN 30 DAYS

2290



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.  
 202 W Main St.  
 Salem, IL 62881  
 ATTN: Steve Davis

**17-13s-32w-Logan KS**

**Campbell #2-17**

Job Ticket: 50011

**DST#: 1**

Test Start: 2012.09.04 @ 23:28:24

## GENERAL INFORMATION:

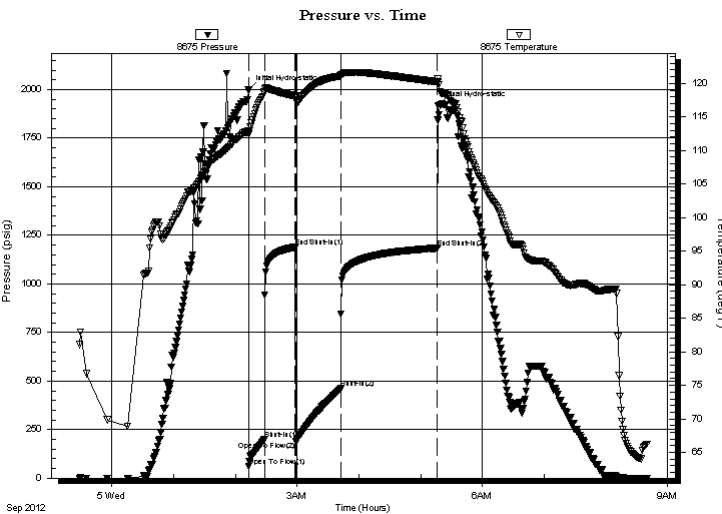
Formation: **LKC- "B"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:13:09  
 Time Test Ended: 08:39:39  
 Interval: **4032.00 ft (KB) To 4060.00 ft (KB) (TVD)**  
 Total Depth: 4060.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Tate Lang  
 Unit No: 46  
 Reference Elevations: 3037.50 ft (KB)  
 3027.00 ft (CF)  
 KB to GR/CF: 10.50 ft

## Serial #: 8675

Inside

Press @ Run Depth: 460.96 psig @ 4033.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.09.04 End Date: 2012.09.05 Last Calib.: 2012.09.05  
 Start Time: 23:28:39 End Time: 08:39:39 Time On Btm: 2012.09.05 @ 02:12:39  
 Time Off Btm: 2012.09.05 @ 05:17:09

**TEST COMMENT:** IF-B.O.B. 2 1/2 mins.  
 ISI-Bled Off For 5 mins. B.O.B. in 12 mins.  
 FF-B.O.B. 4 mins.  
 FSI-Bled Off FOR 5 mins. Strong Blow Built to 10 in. in 18 mins. Died Back to 1 in.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.46	112.94	Initial Hydro-static
1	62.33	112.42	Open To Flow (1)
16	199.73	118.74	Shut-In(1)
46	1189.46	118.08	End Shut-In(1)
46	189.08	117.62	Open To Flow (2)
90	460.96	121.08	Shut-In(2)
184	1183.91	120.19	End Shut-In(2)
185	1916.35	120.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1030.00	10%G 90%O	14.45
124.00	10%G 2%W 8%M 80%O	1.74
62.00	10%G 10%W 40%M 40%O	0.87
0.00	1800 G.I.P.	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co.

**17-13s-32w-Logan KS**

202 W Main St.  
Salem, IL 62881

**Campbell #2-17**

Job Ticket: 50011

**DST#: 1**

ATTN: Steve Davis

Test Start: 2012.09.04 @ 23:28:24

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1030.00	10%G 90%O	14.448
124.00	10%G 2%W 8%M 80%O	1.739
62.00	10%G 10%W 40%M 40%O	0.870
0.00	1800 G.I.P.	0.000

Total Length: 1216.00 ft

Total Volume: 17.057 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

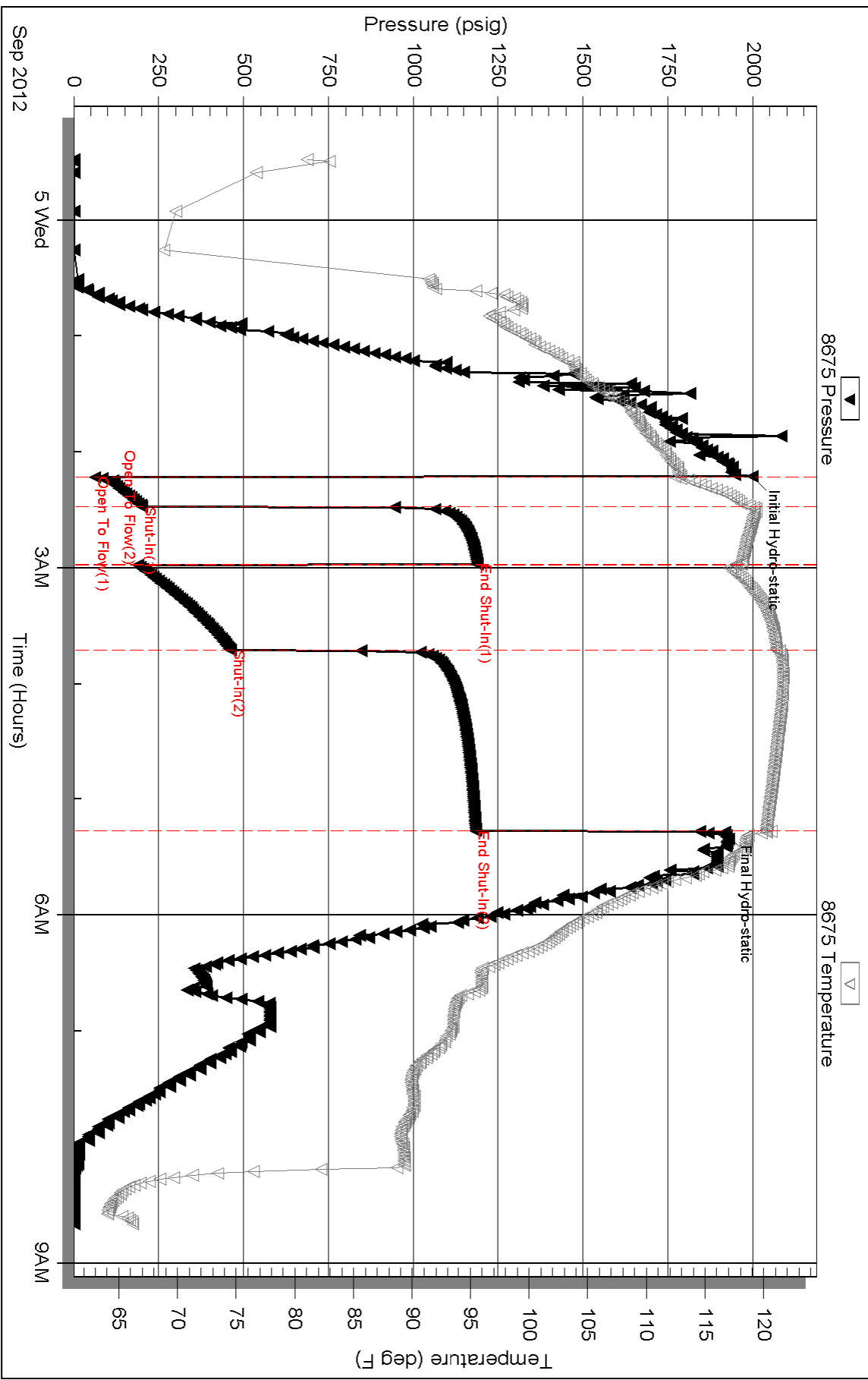
Inside

Shakespeare Oil Co.

Campbell #2-17

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50011

Printed: 2012.09.05 @ 16:35:11



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.  
202 W Main St.  
Salem, IL 62881  
ATTN: Steve Davis

**17-13s-32w-Logan KS**

**Campbell #2-17**

Job Ticket: 50012

**DST#: 2**

Test Start: 2012.09.05 @ 18:30:26

## GENERAL INFORMATION:

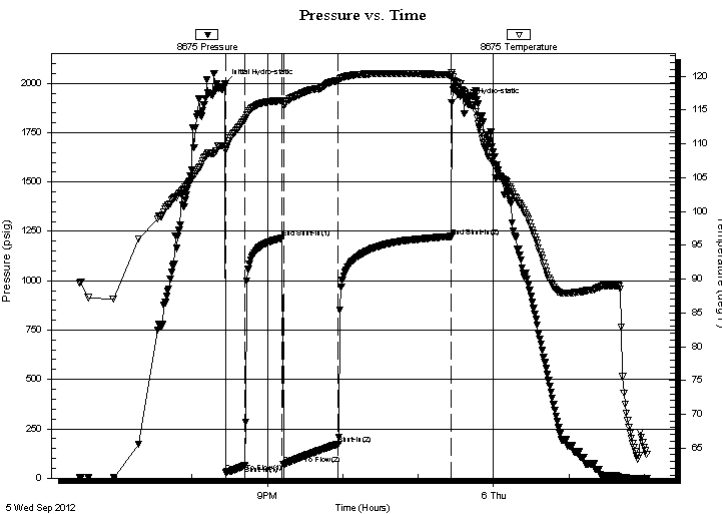
Formation: **LKC-"D&E"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:26:41  
 Time Test Ended: 02:02:26  
 Interval: **4078.00 ft (KB) To 4098.00 ft (KB) (TVD)**  
 Total Depth: 4098.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Tate Lang  
 Unit No: 46  
 Reference Elevations: 3037.50 ft (KB)  
 3027.00 ft (CF)  
 KB to GR/CF: 10.50 ft

## Serial #: 8675

Inside

Press @ Run Depth: 172.29 psig @ 4079.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.09.05 End Date: 2012.09.06 Last Calib.: 2012.09.06  
 Start Time: 18:30:41 End Time: 02:02:26 Time On Btm: 2012.09.05 @ 20:26:26  
 Time Off Btm: 2012.09.05 @ 23:26:41

**TEST COMMENT:** IF-B.O.B. 5min.  
 ISI-Bled Off For 5mins-Weak Surface Blow Built To 2 1/4ins. And Stayed  
 FF-B.O.B. 7mins.  
 FSI-Bled Off For 5mins.-Fair Surface Blow Built To 5ins. Died Back To 4ins. In 90mins.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1997.24	109.74	Initial Hydro-static
1	28.50	109.04	Open To Flow (1)
16	63.25	113.55	Shut-In(1)
46	1215.75	116.39	End Shut-In(1)
47	69.16	115.73	Open To Flow (2)
90	172.29	119.34	Shut-In(2)
180	1224.14	120.18	End Shut-In(2)
181	1901.74	120.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
206.00	5%G 95%O	2.89
124.00	25%G 75% O	1.74
62.00	30%G 30%M 40%O	0.87
0.00	1860 G.I.P.	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co.

**17-13s-32w-Logan KS**

202 W Main St.  
Salem, IL 62881

**Campbell #2-17**

Job Ticket: 50012

**DST#: 2**

ATTN: Steve Davis

Test Start: 2012.09.05 @ 18:30:26

## 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:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
206.00	5%G 95%O	2.890
124.00	25%G 75% O	1.739
62.00	30%G 30%M 40%O	0.870
0.00	1860 G.I.P.	0.000

Total Length: 392.00 ft

Total Volume: 5.499 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

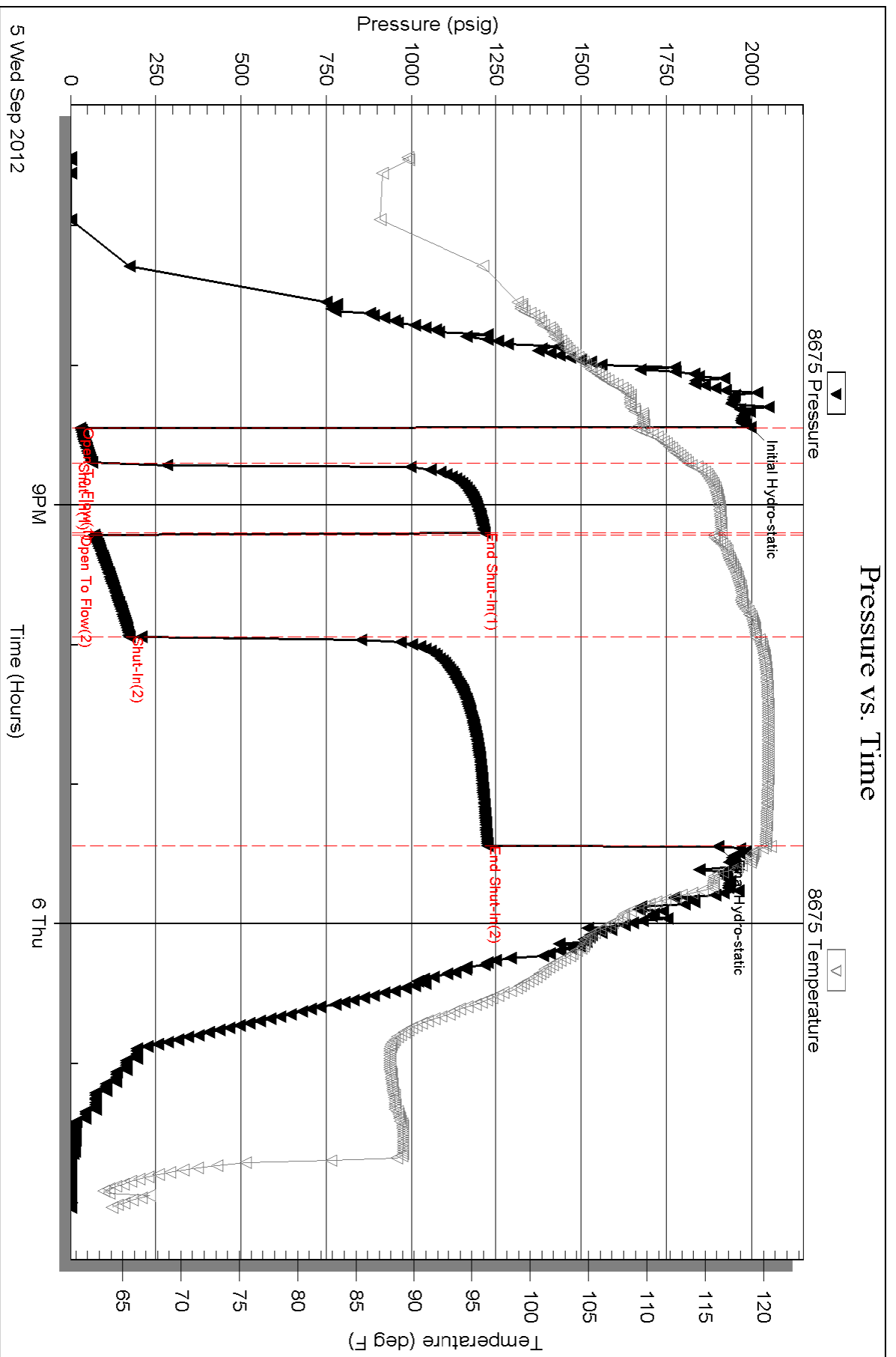
Serial #: 8675

Inside

Shakespeare Oil Co.

Campbell #2-17

DST Test Number: 2





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.  
202 W Main St.  
Salem, IL 62881  
ATTN: Steve Davis

**17-13s-32w-Logan KS**

**Campbell #2-17**

Job Ticket: 50013

**DST#: 3**

Test Start: 2012.09.06 @ 17:17:34

## GENERAL INFORMATION:

Formation: **LKC-"H&I"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:03:19  
 Time Test Ended: 00:52:34  
 Interval: **4155.00 ft (KB) To 4215.00 ft (KB) (TVD)**  
 Total Depth: 4215.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Tate Lang  
 Unit No: 46  
 Reference Elevations: 3037.50 ft (KB)  
 3027.00 ft (CF)  
 KB to GR/CF: 10.50 ft

## Serial #: 8675

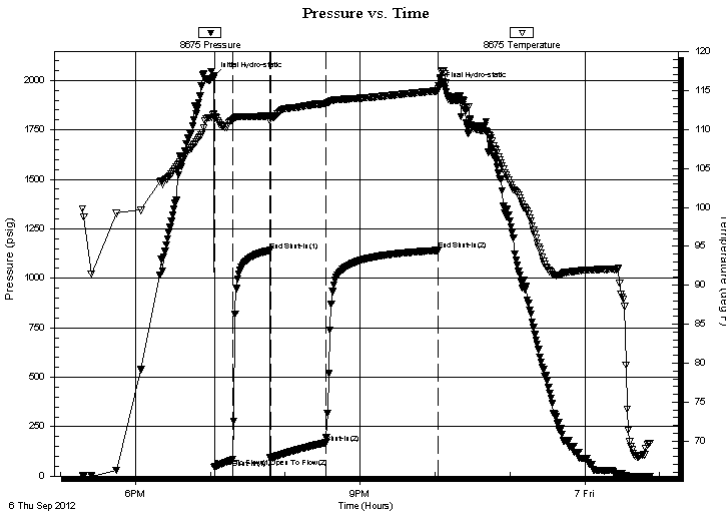
Inside

Press @ Run Depth: 168.56 psig @ 4192.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.09.06 End Date: 2012.09.07 Last Calib.: 2012.09.07  
 Start Time: 17:17:49 End Time: 00:52:34 Time On Btm: 2012.09.06 @ 19:03:04  
 Time Off Btm: 2012.09.06 @ 22:02:49

**TEST COMMENT:** IF-B.O.B. 11mins.  
 ISI-Bled Off For 5mins-Weak Surface Blow Built To 1in. And Stayed  
 FF-B.O.B. 15mins  
 FSI-Bled Off For 5mins.-Fair Surface Blow Built to 5ins. And Stayed

## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2021.25	112.01	Initial Hydro-static
1	45.62	111.35	Open To Flow (1)
15	86.04	111.23	Shut-In(1)
45	1140.22	111.77	End Shut-In(1)
45	90.88	111.49	Open To Flow (2)
90	168.56	113.32	Shut-In(2)
180	1141.17	114.98	End Shut-In(2)
180	1970.92	115.22	Final Hydro-static



## Recovery

Length (ft)	Description	Volume (bbl)
124.00	5%O 20%M 75%W	1.74
72.00	10%G 90%O	1.01
62.00	20%G 20%O 60%M	0.87
62.00	2%W 18%O 25%G 55%M	0.87
0.00	990' G.I.P.	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co.

**17-13s-32w-Logan KS**

202 W Main St.  
Salem, IL 62881

**Campbell #2-17**

Job Ticket: 50013

**DST#: 3**

ATTN: Steve Davis

Test Start: 2012.09.06 @ 17:17:34

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	5%O 20%M 75%W	1.739
72.00	10%G 90%O	1.010
62.00	20%G 20%O 60%M	0.870
62.00	2%W 18%O 25%G 55%M	0.870
0.00	990' G.I.P.	0.000

Total Length: 320.00 ft

Total Volume: 4.489 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

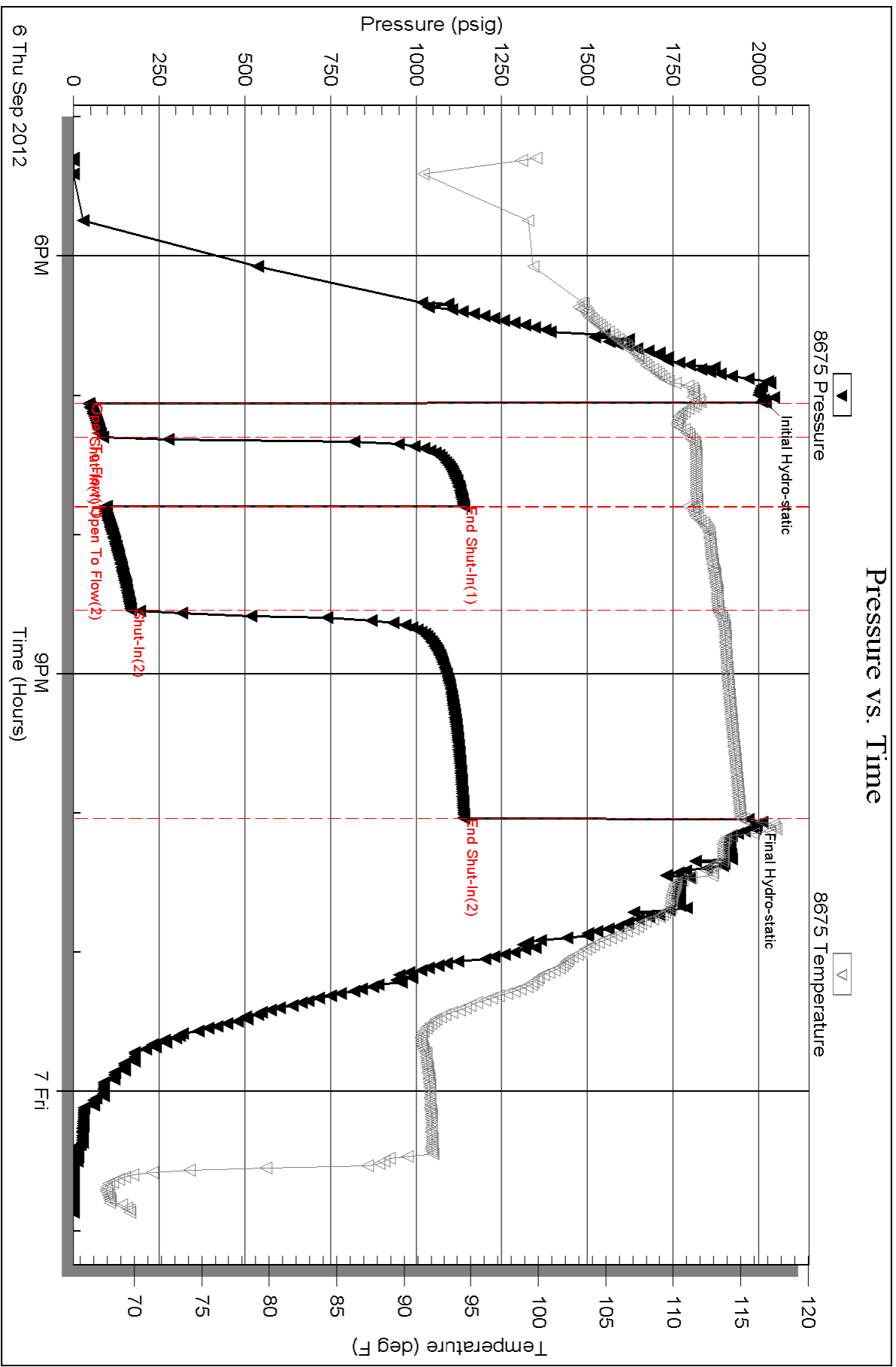
Serial #: 8675

Inside

Shakespeare Oil Co.

Campbell #2-17

DST Test Number: 3





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.

**17-13s-32w-Logan KS**

202 W Main St.  
Salem, IL 62881

**Campbell #2-17**

Job Ticket: 48884

**DST#: 4**

ATTN: Steve Davis

Test Start: 2012.09.07 @ 11:30:00

## GENERAL INFORMATION:

Formation: **Kansas City " J & K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:20:45

Time Test Ended: 18:21:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

**Interval: 4216.00 ft (KB) To 4262.00 ft (KB) (TVD)**

Reference Elevations: 3037.50 ft (KB)

Total Depth: 4262.00 ft (KB) (TVD)

3027.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.50 ft

**Serial #: 8650 Outside**

Press @ Run Depth: 78.30 psig @ 4217.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.07 End Date: 2012.09.07

Last Calib.: 2012.09.07

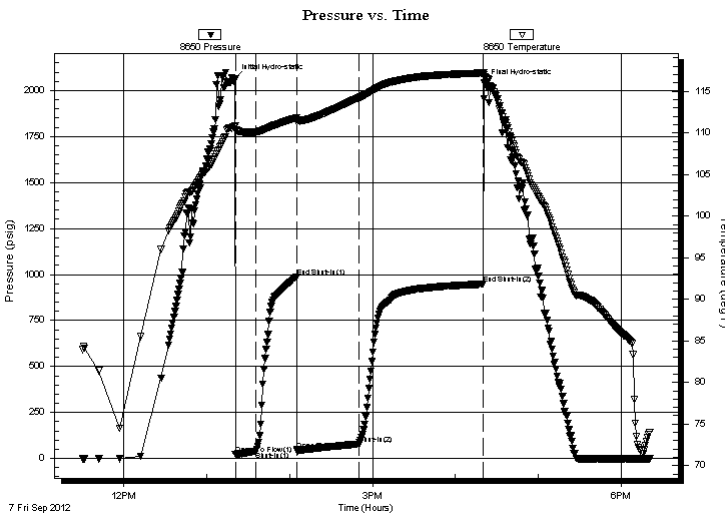
Start Time: 11:30:15 End Time: 18:21:00

Time On Btm: 2012.09.07 @ 13:20:30

Time Off Btm: 2012.09.07 @ 16:20:45

**TEST COMMENT:** Built to 4 1/2" blow  
No return blow  
Built to 9 1/2" blow  
No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2066.47	110.78	Initial Hydro-static
1	21.12	110.30	Open To Flow (1)
15	39.43	110.11	Shut-In(1)
45	987.65	111.80	End Shut-In(1)
45	46.82	111.28	Open To Flow (2)
90	78.30	114.20	Shut-In(2)
180	948.00	117.20	End Shut-In(2)
181	2040.14	116.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	ocgm 5%O 10%G 85%M	1.75
15.00	gco 5%G 95%O	0.21

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co.

**17-13s-32w-Logan KS**

202 W Main St.  
Salem, IL 62881

**Campbell #2-17**

Job Ticket: 48884

**DST#: 4**

ATTN: Steve Davis

Test Start: 2012.09.07 @ 11:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
125.00	ocgm 5%O 10%G 85%M	1.753
15.00	gco 5%G 95%O	0.210

Total Length: 140.00 ft

Total Volume: 1.963 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

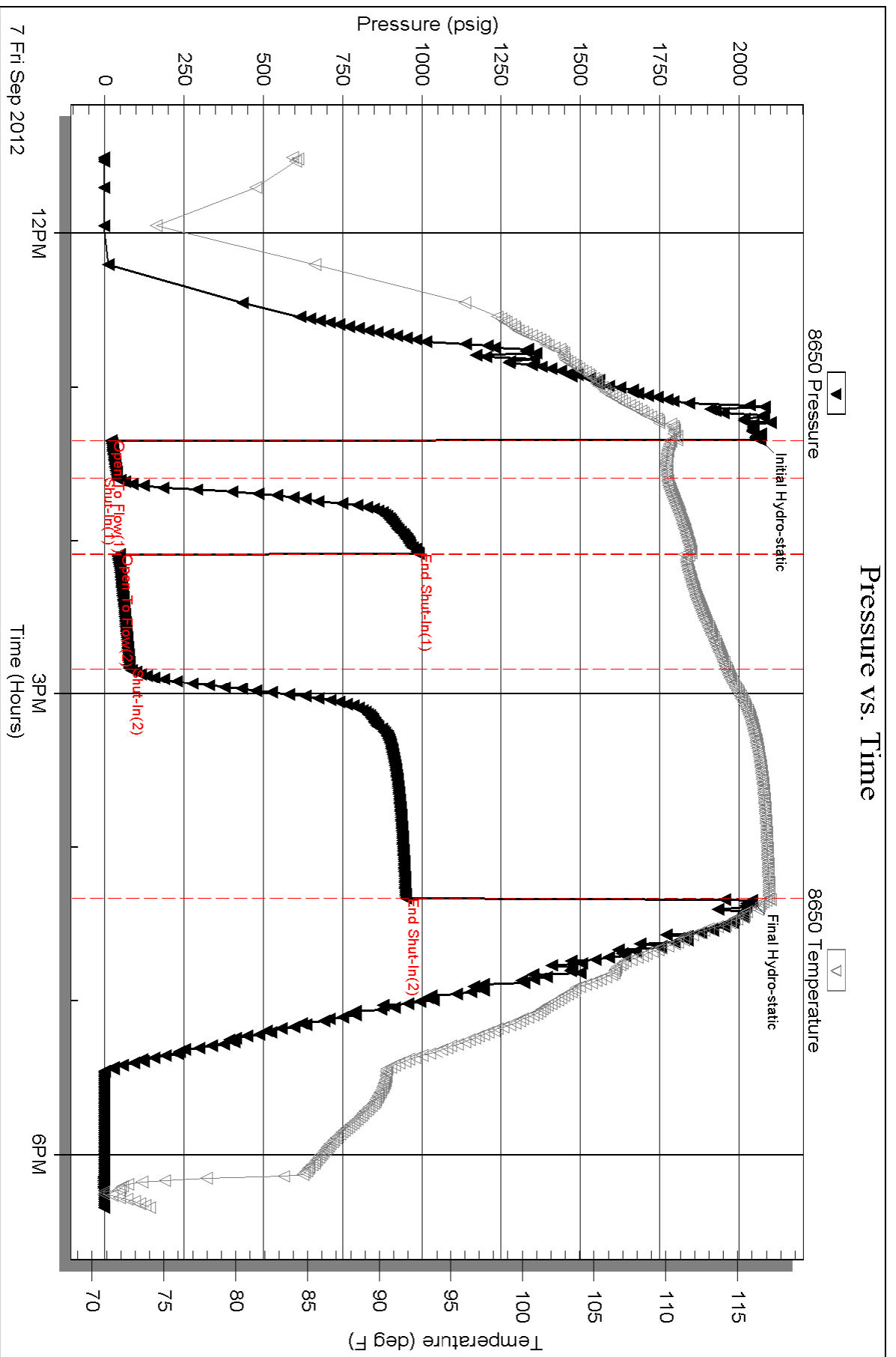
Recovery Comments:

Serial #: 8650

Outside Shakespeare Oil Co.

Campbell #2-17

DST Test Number: 4





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.

**17-13s-32w-Logan KS**

202 W Main St.  
Salem, IL 62881

**Campbell #2-17**

ATTN: Steve Davis

Job Ticket: 48885

**DST#: 5**

Test Start: 2012.09.07 @ 18:50:00

## GENERAL INFORMATION:

Formation: **Myric Station & Fort**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:12:45

Time Test Ended: 01:53:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

**Interval: 4468.00 ft (KB) To 4520.00 ft (KB) (TVD)**

Reference Elevations: 3037.50 ft (KB)

Total Depth: 4520.00 ft (KB) (TVD)

3027.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.50 ft

**Serial #: 8675**

**Inside**

Press @ Run Depth: 58.55 psig @ 4469.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.07

End Date: 2012.09.08

Last Calib.: 2012.09.09

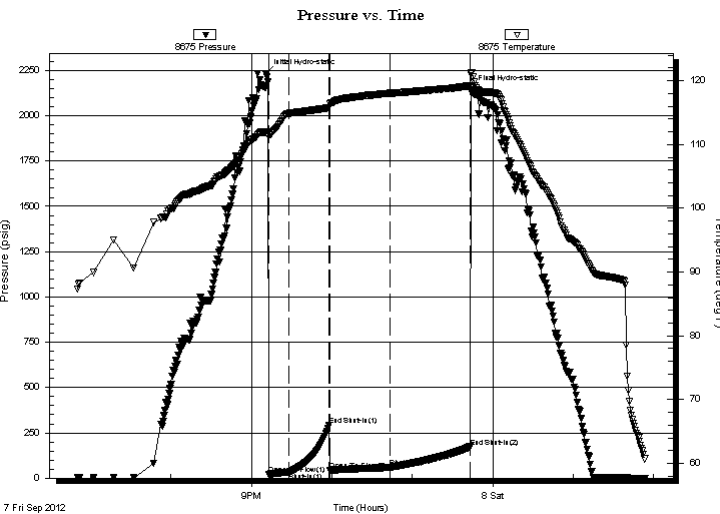
Start Time: 18:50:15

End Time: 01:53:45

Time On Btm: 2012.09.07 @ 21:11:00

Time Off Btm: 2012.09.07 @ 23:43:45

**TEST COMMENT:** Built to 2 1/4" blow  
No return blow  
Built to 2 1/2" blow  
No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2232.65	111.99	Initial Hydro-static
2	20.99	111.25	Open To Flow (1)
17	33.31	114.87	Shut-In(1)
47	290.70	115.76	End Shut-In(1)
48	43.40	116.40	Open To Flow (2)
92	58.55	118.03	Shut-In(2)
152	172.22	119.18	End Shut-In(2)
153	2142.82	121.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	100%Mud with oil scum	1.26

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co.

**17-13s-32w-Logan KS**

202 W Main St.  
Salem, IL 62881

**Campbell #2-17**

Job Ticket: 48885

**DST#: 5**

ATTN: Steve Davis

Test Start: 2012.09.07 @ 18:50:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	100%Mud w ith oil scum	1.262

Total Length: 90.00 ft      Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

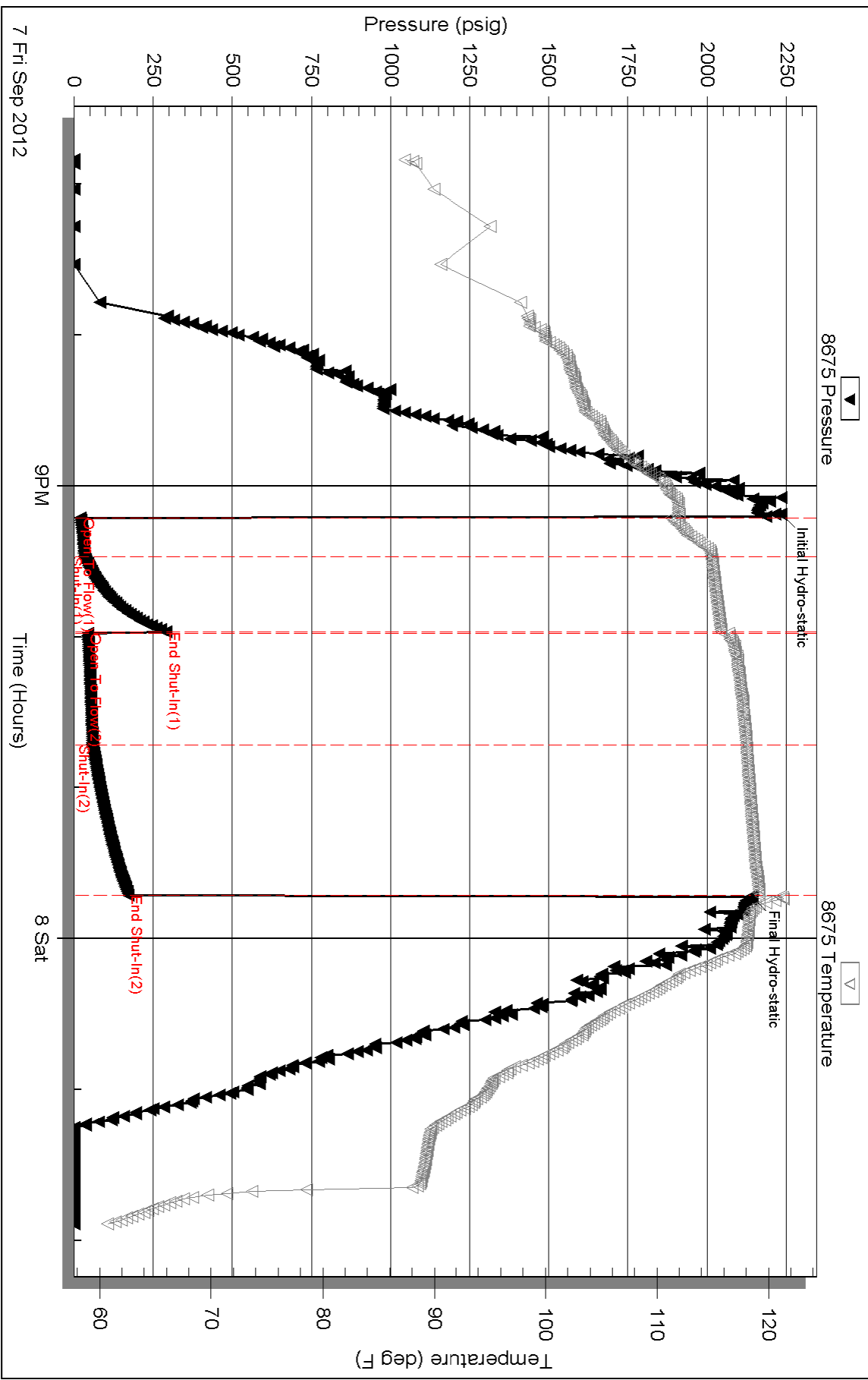
Inside

Shakespeare Oil Co.

Campbell #2-17

DST Test Number: 5

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48885

Printed: 2012.09.09 @ 06:40:36





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.  
202 W Main St.  
Salem, IL 62881  
ATTN: Steve Davis

**17-13s-32w-Logan KS**

**Campbell #2-17**

Job Ticket: 48886

**DST#: 6**

Test Start: 2012.09.09 @ 12:35:00

## GENERAL INFORMATION:

Formation: **Johnson Zone**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:32:15  
 Time Test Ended: 19:53:30  
 Interval: **4545.00 ft (KB) To 4594.00 ft (KB) (TVD)**  
 Total Depth: 4594.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jace McKinney  
 Unit No: 46  
 Reference Elevations: 3037.50 ft (KB)  
 3027.00 ft (CF)  
 KB to GR/CF: 10.50 ft

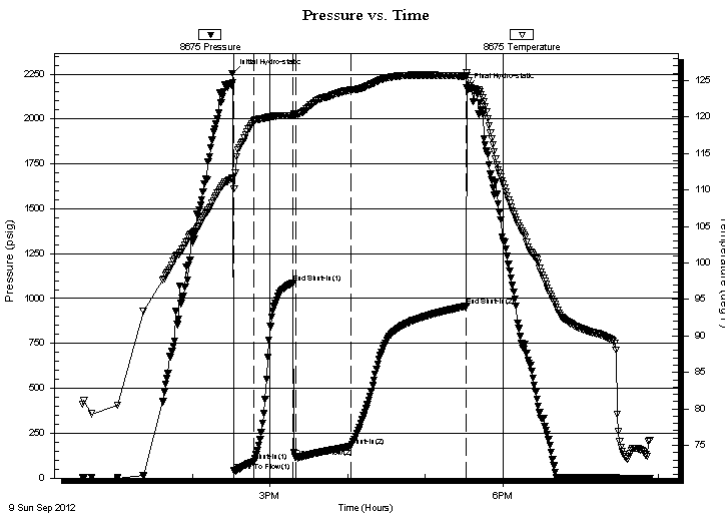
## Serial #: 8675

Inside

Press @ Run Depth: 176.69 psig @ 4546.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.09.09 End Date: 2012.09.09 Last Calib.: 2012.09.09  
 Start Time: 12:35:15 End Time: 19:53:30 Time On Btm: 2012.09.09 @ 14:31:00  
 Time Off Btm: 2012.09.09 @ 17:32:00

TEST COMMENT: B.O.B. in 11 min  
 Bled off for 5 min. No return blow  
 B.O.B. in 10 min.  
 Bled off for 5 min. Built to 3" return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2254.11	111.59	Initial Hydro-static
2	40.14	110.20	Open To Flow (1)
17	94.22	119.48	Shut-In(1)
47	1085.08	120.21	End Shut-In(1)
49	114.47	120.37	Open To Flow (2)
92	176.69	123.69	Shut-In(2)
181	957.96	125.60	End Shut-In(2)
181	2172.64	126.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCGO 15%M 15%G 70%O	1.74
196.00	MCGO 10%M 10%G 80%O	2.75

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co.

**17-13s-32w-Logan KS**

202 W Main St.  
Salem, IL 62881

**Campbell #2-17**

Job Ticket: 48886

**DST#: 6**

ATTN: Steve Davis

Test Start: 2012.09.09 @ 12:35:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MCGO 15%M 15%G 70%O	1.739
196.00	MCGO 10%M 10%G 80%O	2.749

Total Length: 320.00 ft

Total Volume: 4.488 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

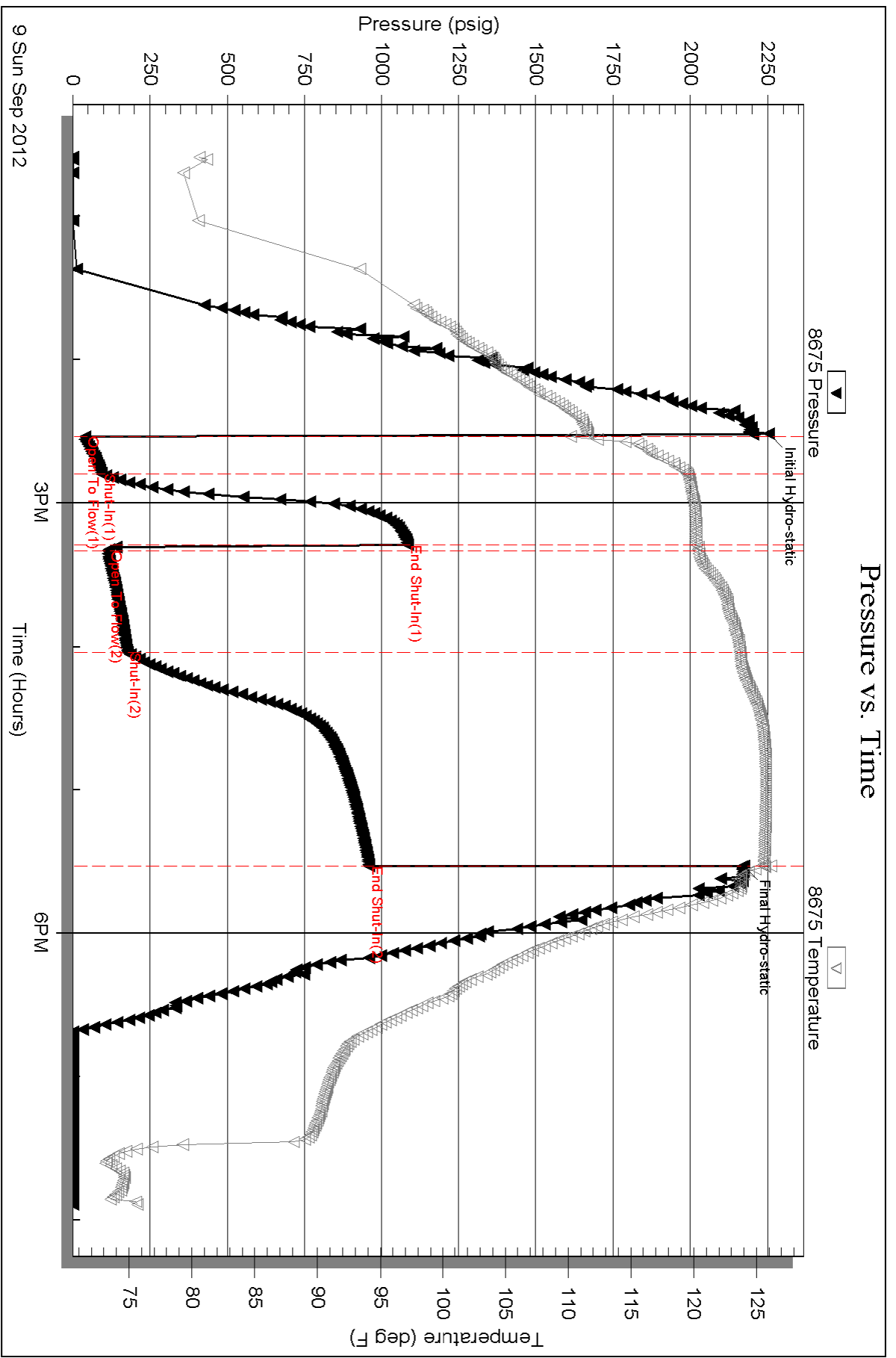
Serial #: 8675

Inside

Shakespeare Oil Co.

Campbell #2-17

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 48886

Printed: 2012.09.10 @ 02:58:23

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

October 18, 2012

Don Williams  
Shakespeare Oil Co., Inc.  
202 W MAIN ST  
SALEM, IL 62881-1519

Re: ACO1  
API 15-109-21097-00-00  
Campbell 2-17  
SE/4 Sec.17-13S-32W  
Logan 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,  
Don Williams