



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1176829  
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: \_\_\_\_\_

1176829

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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> <i>(Submit ACO-4)</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 3-17
Doc ID	1176829

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Campbell 3-17
Doc ID	1176829

Tops

Name	Top	Datum
Base Anhydrite	2532	+507
Heebner	3974	-935
Lansing	4017	-978
Muncie Creek	4164	-1125
Stark Shale	4250	-1211
Hushpuckney	4283	-1244
Pawnee	4448	-1409
Cherokee Shale	4529	-1490
Johnson	4574	-1535
Mississippian	4624	-1585





# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 139763  
Invoice Date: Nov 12, 2013  
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	61055	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Nov 12, 2013	12/12/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Campbell #3-17		
180.00	CEMENT MATERIALS	Class A Common	17.90	3,222.00
4.00	CEMENT MATERIALS	Gel	23.40	93.60
507.00	CEMENT MATERIALS	Chloride	0.80	405.60
194.64	CEMENT SERVICE	Cubic Feet	2.48	482.71
150.95	CEMENT SERVICE	Ton Mileage	2.60	392.47
1.00	CEMENT SERVICE	Surface ✓	1,512.25	1,512.25
17.00	CEMENT SERVICE	Pump Truck Mileage	7.70	130.90
17.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	74.80
1.00	CEMENT SUPERVISOR	Dustin Chambers		
1.00	EQUIPMENT OPERATOR	Ben Newell		

INT

RECEIVED  
 NOV 25 2013  
 RECEIVED

10502-S

Subtotal	6,314.33
Sales Tax	284.67
Total Invoice Amount	6,599.00
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,599.00</b>

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

\$ 1,641.72

ONLY IF PAID ON OR BEFORE  
Dec 7, 2013

DW

# ALLIED OIL & GAS SERVICES, LLC 061055

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Great Bend, KS

DATE <u>11-12-13</u>	SEC. <u>17</u>	TWP. <u>13</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION <u>7:30 AM</u>	JOB START <u>9:20 AM</u>	JOB FINISH <u>1:30</u>
LEASE <u>Campbell</u>		WELL # <u>3-17</u>		LOCATION <u>Dakley St. Buwal Rd</u>		COUNTY <u>Logan</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				<u>2w Sino</u>			

CONTRACTOR H/D Drilling #2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 6 7/8 DEPTH 227

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 13.5 bbls Freshwater

EQUIPMENT

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 180 SKS Class A

3% CC 2% gel

COMMON	<u>180</u>	@ <u>17.90</u>	<u>3,222.00</u>
POZMIX		@	
GEL	<u>4</u>	@ <u>23.40</u>	<u>93.60</u>
CHLORIDE	<u>507</u>	@ <u>.80</u>	<u>405.60</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>194.64</u>	@ <u>2.48</u>	<u>482.70</u>
MILEAGE	<u>8.88 x 17 x</u>	<u>2.60</u>	<u>392.42</u>
TOTAL			<u>4,596.39</u>

PUMP TRUCK CEMENTER Dustin Chambers

# 366 HELPER Ben Newell

BULK TRUCK DRIVER Tommy Tijena

# 609-112

BULK TRUCK DRIVER \_\_\_\_\_

# \_\_\_\_\_

**REMARKS:**

Break circulation with Piggy Mud  
plug 5 bbls Freshwater ahead  
plug 180 SKS Class A 3% CC 2% gel  
Displace 13.5 bbls Freshwater & shut in  
Cement did circulation  
plug down - 9:15 pm  
Piggy Down

**SERVICE**

DEPTH OF JOB	<u>227</u>		
PUMP TRUCK CHARGE		<u>1512.35</u>	
EXTRA FOOTAGE		@	
MILEAGE	<u>Hum 17</u>	@ <u>7.70</u>	<u>130.90</u>
MANIFOLD		@	
	<u>Hum 17</u>	@ <u>4.40</u>	<u>74.80</u>
		@	

TOTAL 1,717.95

CHARGE TO: Shakespeare Oil

STREET \_\_\_\_\_

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

**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.

SALES TAX (if Any) \_\_\_\_\_

TOTAL CHARGES 6,314.34

DISCOUNT 1,641.72 IF PAID IN 30 DAYS

PRINTED NAME X Richard Brockman

SIGNATURE X [Signature]  
Thom K Kowal

4,672.61



# INVOICE

PO Box 93999  
Southlake, TX 76092

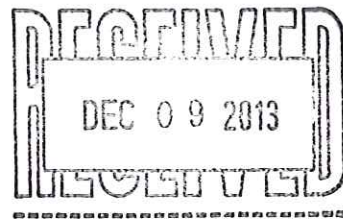
Invoice Number: 140035  
Invoice Date: Nov 26, 2013  
Page: 1

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	62156	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Nov 26, 2013	12/26/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Campbell #3-17		
205.00	CEMENT MATERIALS	ASC	20.90	4,284.50
21.00	CEMENT MATERIALS	Salt	26.35	553.35
1,025.00	CEMENT MATERIALS	Gilsonite	0.98	1,004.50
102.00	CEMENT MATERIALS	CD-31	10.30	1,050.60
12.00	CEMENT MATERIALS	WFR-2	58.70	704.40
258.15	CEMENT SERVICE	Cubic Feet Charge	2.48	640.21
192.10	CEMENT SERVICE	Ton Mileage Charge	2.60	499.46
1.00	CEMENT SERVICE	Production Casing ✓	2,765.75	2,765.75
17.00	CEMENT SERVICE	Pump Truck Mileage	7.70	130.90
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
17.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	74.80
1.00	CEMENT SERVICE	Rotating Head Rental	200.00	200.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Adam Flipse		



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

\$ 3,167.70

ONLY IF PAID ON OR BEFORE Dec 21, 2013

Subtotal	12,183.47
Sales Tax	581.20
Total Invoice Amount	12,764.67
Payment/Credit Applied	
<b>TOTAL</b>	<b>12,764.67</b>

DW



# ALLIED OIL & GAS SERVICES, LLC 062156

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley KS

DATE <u>11-26-13</u>	SEC <u>17</u>	TWP. <u>13</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION <u>9:00pm</u>	JOB START <u>12:30am</u>	JOB FINISH <u>1:00am</u>
LEASE <u>Campbell</u>	WELL# <u>3-17</u>	LOCATION <u>Oakley S to Quad Rd</u>			COUNTY <u>Logan</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>4w S+W+N into</u>			

CONTRACTOR HD rig 2  
 TYPE OF JOB Production 5 1/2  
 HOLE SIZE 7 7/8 T.D. 4715'  
 CASING SIZE 5 1/2 DEPTH 4710.68  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL Port collar DEPTH 2477.57  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 42.42  
 CEMENT LEFT IN CSG. 42.43'  
 PERFS.  
 DISPLACEMENT 111.10 bbl water  
 EQUIPMENT

PUMP TRUCK CEMENTER Paul Beaver  
 # 120 HELPER Tyler Flipse  
 BULK TRUCK  
 # 600 DRIVER Adam Flipse  
 BULK TRUCK  
 # DRIVER

REMARKS:  
Great circulation, drop ball, ball went through shoe @ 500ft, Pump 5 bbl water mix 12 bbl superflush (WFR-II) pump 5 bbl water, shutdown, mix 20 sks in P.H. more mix 18.5 sks ASC down casing, shot down, release plug, displace with water plug did land @ 1400ft w/ 900ft lift. Float did hold.

CHARGE TO: Shake spear Oil & Gas  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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 Douy Roberts  
 SIGNATURE Douy Roberts

OWNER Same  
 CEMENT  
 AMOUNT ORDERED 205 sks ASC  
10% salt S<sup>+</sup> Gilsonte, 7.5% of 1% CD-31 2% gel  
 COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GBL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC 205 sks @ 20.90 4284.58  
salt 21 sks @ 24.35 511.35  
Gilsonte 1025 # @ .98 1004.50  
CD-31 102 # @ 10.30 1050.66  
WFR-II 17 bbl @ 58.70 704.40  
 HANDLING 258.15 # @ 2.48 640.21  
 MILEAGE 11.30 tons x 17mi x 2.1cc 499.46  
 TOTAL 8737.02

SERVICE  
 DEPTH OF JOB 4715'  
 PUMP TRUCK CHARGE 2765.75  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE multiv 17mi @ 7.70 130.90  
 MANIFOLD head 5/2 @ 275.00  
M.I.V 17mi @ 4.40 74.80  
rotating head @ 200.00  
 TOTAL 3446.45

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

SALES TAX (if Any) \_\_\_\_\_  
 TOTAL CHARGES 12,183.47  
 DISCOUNT 3,167.70 IF PAID IN 30 DAYS  
9,015.76 Net.



PO Box 93999  
Southlake, TX 76092

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

# INVOICE

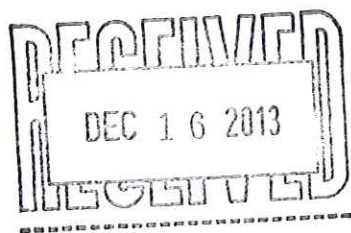
Invoice Number: 140142  
Invoice Date: Dec 3, 2013  
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Shak	61391	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Dec 3, 2013	1/2/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Campbell #3-17		
163.00	CEMENT MATERIALS	Class A Common	17.90	2,917.70
87.00	CEMENT MATERIALS	Pozmix	9.35	813.45
17.00	CEMENT MATERIALS	Gel	23.40	397.80
63.00	CEMENT MATERIALS	Flo Seal	2.97	187.11
9.00	CEMENT MATERIALS	Cottonseed Hulls	35.00	315.00
283.20	CEMENT SERVICE	Cubic Feet Charge	2.48	702.34
478.40	CEMENT SERVICE	Ton Mileage Charge	2.60	1,243.84
1.00	CEMENT SERVICE	Port Collar ✓	2,443.75	2,443.75
20.00	CEMENT SERVICE	Pump Truck Mileage	7.70	154.00
20.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	88.00
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		
1.00	OPERATOR ASSISTANT	Mike McKampson		

INT



10502-S

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

\$ 2,408.37

ONLY IF PAID ON OR BEFORE Dec 28, 2013

Subtotal	9,262.99
Sales Tax	354.28
Total Invoice Amount	9,617.27
Payment/Credit Applied	
<b>TOTAL</b>	<b>9,617.27</b>

DW

# ALLIED OIL & GAS SERVICES, LLC 061391

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

*Oakley 25*

DATE <i>12-3-13</i>	SEC. <i>17</i>	TWP. <i>19</i>	RANGE <i>32W</i>	CALLED OUT	ON LOCATION <i>11:00 AM</i>	JOB START <i>1:00 PM</i>	JOB FINISH <i>1:30 PM</i>
LEASED <i>Campbell</i>	WELL# <i>1-17</i>	LOCATION <i>Oakley South to Round Red</i>			COUNTY <i>Logan</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)			<i>2 1/2 1/2 S W + Nents</i>				

CONTRACTOR *Keyman Well Serv*  
 TYPE OF JOB *Portular*  
 HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_  
 CASING SIZE *5 1/2* DEPTH \_\_\_\_\_  
 TUBING SIZE *2 3/8* DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL *Portular* DEPTH *2477*  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT *8 1/2*

OWNER *Same*  
 CEMENT AMOUNT ORDERED *550 SKS 65/35 800 gal*  
*1/4" # Flo-seal*  
 COMMON *163 SKS @ 17.70 = 2917.70*  
 POZMIX *870 @ 9.35 = 8134.5*  
 GEL *175 SKS @ 23.90 = 4182.50*  
 CHLORIDE \_\_\_\_\_  
 ASC \_\_\_\_\_  
*Flo-seal 63# @ 2.92 = 187.16*  
*cotton seed hull 95# @ 3.50 = 332.50*  
 HANDLING *283.2 cu ft @ 2.45 = 702.84*  
 MILEAGE *23.92701 x 20 x 2.50 = 1243.84*  
 TOTAL *6,572.84*

**EQUIPMENT**

PUMP TRUCK CEMENTER *Rolly Gabel*  
 # *422* HELPER *Wayne McElphly*  
 BULK TRUCK DRIVER *Mike McKeown*  
 BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

**REMARKS:**

*Pressured tool to 1500' opened tool  
 pumped 800 gal mud mixed 250 SKS  
 65/55 80 gal 1/4" flo-seal  
 displaced with 9/2001 water  
 closed tool & pressured to 1500'  
 ran 500' tubing & resealed out  
 cement did circulate*  
*Thank you  
 Rolly & crew*

**SERVICE**

DEPTH OF JOB \_\_\_\_\_ *2477*  
 PUMP TRUCK CHARGE \_\_\_\_\_ *2443.75*  
 EXTRA FOOTAGE \_\_\_\_\_  
 MILEAGE *M:HV 20 @ 4.40 = 880*  
 MANIFOLD \_\_\_\_\_  
*M:HV 20 @ 7.70 = 1540*  
 TOTAL *2685.75*

**PLUG & FLOAT EQUIPMENT**

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

TOTAL \_\_\_\_\_

CHARGE TO: *Shakur*  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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 *John Davison*  
 SIGNATURE *John Davison*

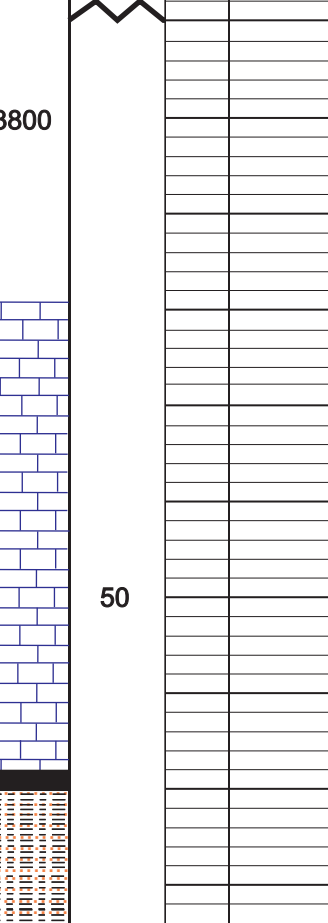
SALES TAX (if Any) \_\_\_\_\_  
 TOTAL CHARGES *9,262.99*  
 DISCOUNT *2,408.37* IF PAID IN 30 DAYS  
*6,854.61 Net.*

**GEOLOGIST'S REPORT**  
**DRILLING TIME AND SAMPLE LOG**

COMPANY **SHAKESPEAR OIL CO.** ELEVATIONS  
 LEASE **Campan 3-17** KG 3039'  
 FIELD **Wildcat** DF \_\_\_\_\_  
 LOCATION **1855' FSL, 1726' FFL** SEC \_\_\_\_\_  
 SFC **17' TMS/P** 13S ROE 32W GL 3029'  
 COUNTY **Logan** STATE **Kansas** Measurements Are All From **KB**  
 CONTRACTOR **HD Drilling Rig #2**  
 SPUD **11-12-13** COMP **11-25-13**  
 RTD **4715'** LTD **4710'** CASING  
 MUD UP **3600'** TYPE MUD **Chemical** CONDUCTOR **N/A**  
 SAMPLES SAVED FROM **3800'** to RTD SURFACE **8-5/8" @ 224'**  
 DRILLING TIME KEPT FROM **3800'** to RTD PRODUCTION **5 1/2" @ 4715'**  
 SAMPLES EXAMINED FROM **3800'** to RTD ELECTRICAL  
 GEOLOGICAL SUPERVISION FROM **3800'** to RTD CND/D/SP/P.E.  
 GEOLOGIST ON WELL **Tim Priest** By: **Weatherford**

FORMATION TOPS ELECTRIC LOG SAMPLE

Anydrite	2510 (-529)	2510 (+529)
Heebner	3974 (935)	3977 (-938)
Toronto	3996 (957)	4000 (-961)
Lansing	4017 (978)	4018 (-979)
Stark	4250 (-1211)	4255 (-1216)
B/K.C.	4320 (-1281)	4324 (-1285)
Fort Scott	4529 (-1463)	4505 (-1466)
Cherokee Shale	4534 (-1490)	4534 (-1495)
Mississippian	4628 (-1585)	4628 (-1589)



REMARKS Due to results of DSTs, it was decided to set production casing to further test the well.

Respectfully Submitted,  
 Tim Priest  
 Petroleum Geologist

API #15-109-21218-00-00

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**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

17-13-22 Logan, KS

202 w main st  
Salem, IL 62881

**Campbell 3-17**

Job Ticket: 54971

**DST#: 1**

ATTN: Tim Priest

Test Start: 2013.11.17 @ 22:58:15

## GENERAL INFORMATION:

Formation: **A&B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:21:45

Time Test Ended: 06:21:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

**Interval: 4027.00 ft (KB) To 4060.00 ft (KB) (TVD)**

Reference Elevations: 3036.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

3029.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8373 Inside**

Press @ Run Depth: 128.56 psig @ 4032.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.17 End Date: 2013.11.18

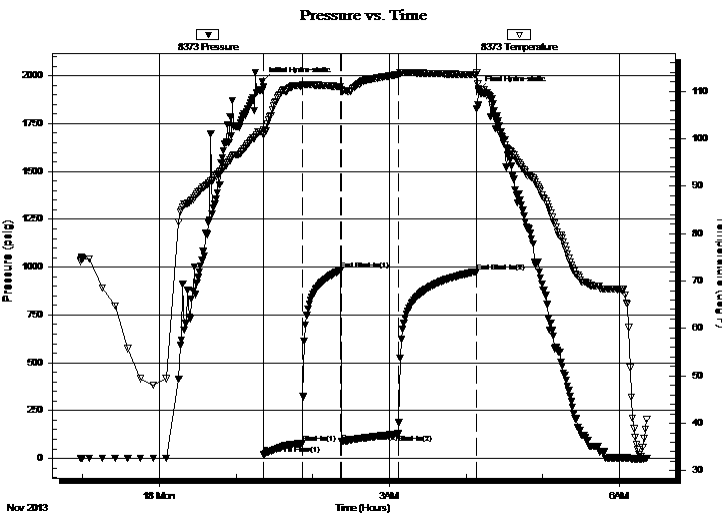
Last Calib.: 2013.11.18

Start Time: 22:58:20 End Time: 06:21:14

Time On Btm: 2013.11.18 @ 01:20:45

Time Off Btm: 2013.11.18 @ 04:09:45

**TEST COMMENT:** IF: 1/4 blow built to 8 in 30 min.  
IS: No return.  
FF: Surface blow built to 8 in 45 min.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.17	101.46	Initial Hydro-static
1	19.77	100.91	Open To Flow (1)
31	80.69	111.17	Shut-In(1)
61	983.11	110.99	End Shut-In(1)
62	86.90	110.33	Open To Flow (2)
106	128.56	113.50	Shut-In(2)
167	976.41	113.49	End Shut-In(2)
169	1923.08	110.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcw 90%w 10%m	1.53
72.00	mcw 80%w 20%m	1.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co

**17-13-22 Logan, KS**

202 w main st  
Salem, IL 62881

**Campbell 3-17**

Job Ticket: 54971

**DST#: 1**

ATTN: Tim Priest

Test Start: 2013.11.17 @ 22:58:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

65000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	mcw 90%w 10%m	1.525
72.00	mcw 80%w 20%m	1.010

Total Length: 258.00 ft      Total Volume: 2.535 bbl

Num Fluid Samples: 0

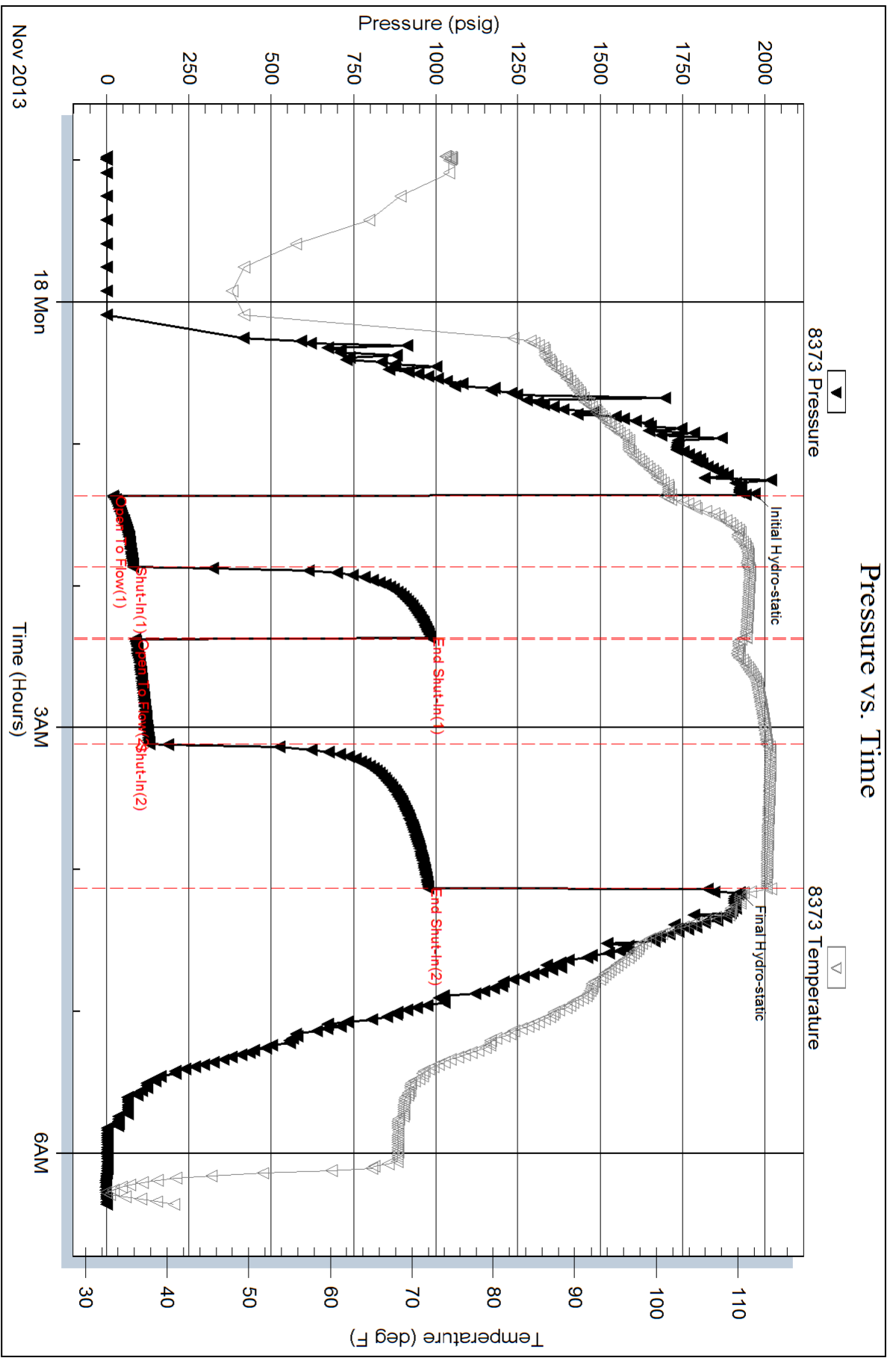
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .25@34=65000





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

17-13-32 Logan, KS

202 w main st  
Salem, IL 62881

**Campbell 3-17**

Job Ticket: 54972

**DST#: 2**

ATTN: Tim Priest

Test Start: 2013.11.18 @ 20:54:15

## GENERAL INFORMATION:

Formation: **D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:05:15  
 Time Test Ended: 03:58:45  
 Interval: **4078.00 ft (KB) To 4108.00 ft (KB) (TVD)**  
 Total Depth: 4108.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 3036.00 ft (KB)  
 3029.00 ft (CF)  
 KB to GR/CF: 7.00 ft

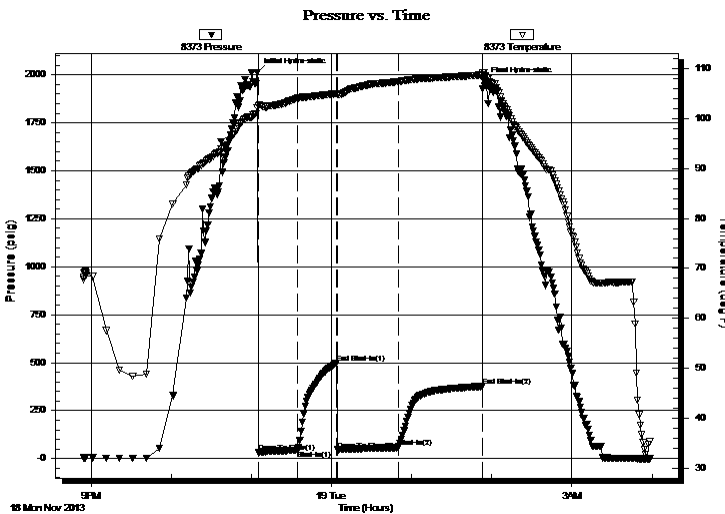
## Serial #: 8373

Inside

Press @ Run Depth: 57.63 psig @ 4083.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.18 End Date: 2013.11.19 Last Calib.: 2013.11.19  
 Start Time: 20:54:20 End Time: 03:58:44 Time On Btm: 2013.11.18 @ 23:04:15  
 Time Off Btm: 2013.11.19 @ 01:54:45

TEST COMMENT: IF: 1" blow built to 2 1/4.  
 IS: No return.  
 FF: Surface blow built to 1.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2011.54	102.18	Initial Hydro-static
1	30.85	102.57	Open To Flow (1)
31	43.98	104.04	Shut-In(1)
60	499.12	104.94	End Shut-In(1)
60	46.30	104.72	Open To Flow (2)
106	57.63	107.36	Shut-In(2)
169	376.52	108.69	End Shut-In(2)
171	1962.08	108.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	ocm 2%o 98%m	0.44

\* 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

**17-13-32 Logan, KS**

202 w main st  
Salem, IL 62881

**Campbell 3-17**

Job Ticket: 54972

**DST#: 2**

ATTN: Tim Priest

Test Start: 2013.11.18 @ 20:54:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	ocm 2%o 98%m	0.443

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

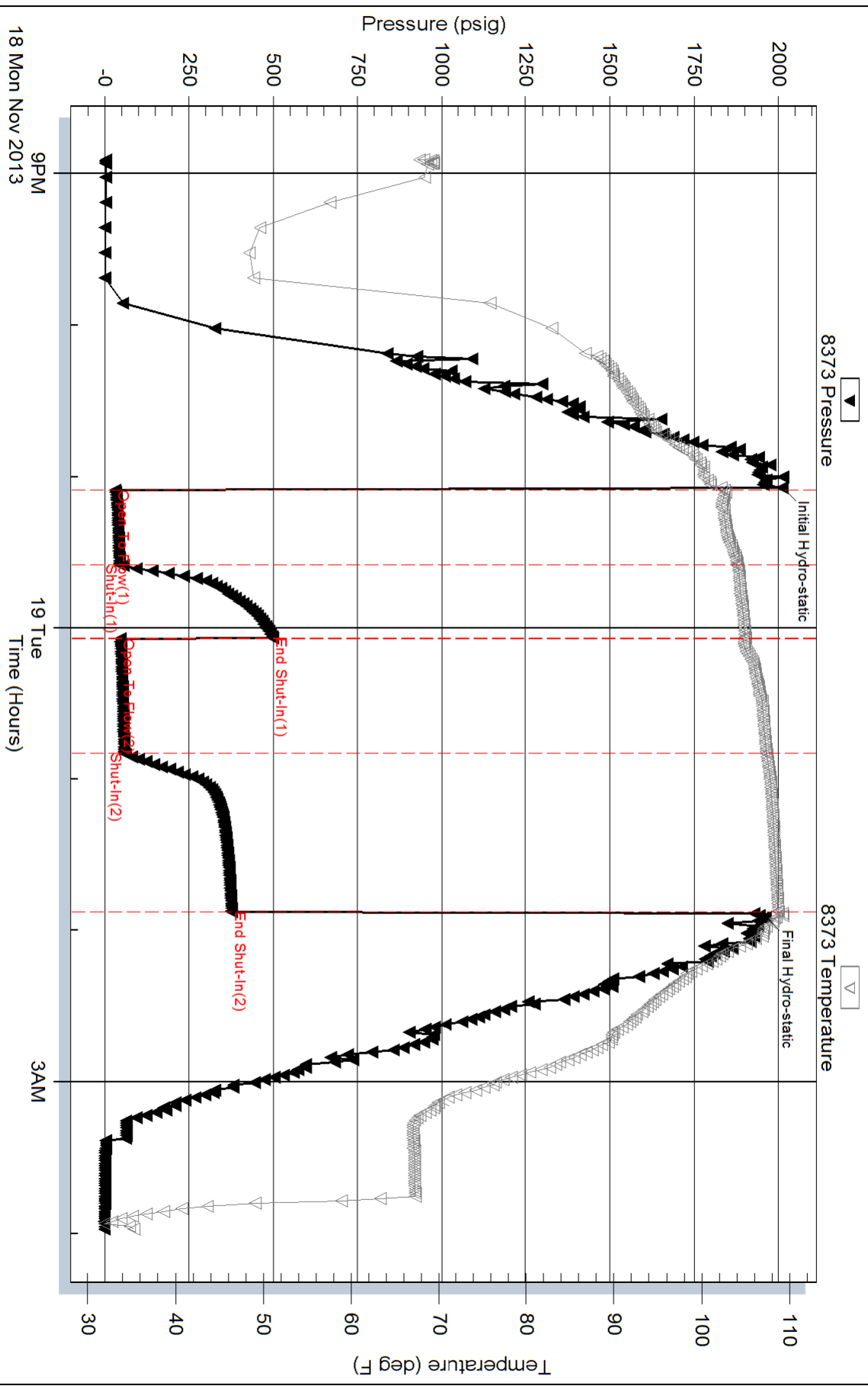
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

17-13-32 Logan, KS

202 w main st  
Salem, IL 62881

**Campbell 3-17**

Job Ticket: 54973

**DST#: 3**

ATTN: Tim Priest

Test Start: 2013.11.19 @ 14:26:32

## GENERAL INFORMATION:

Formation: **EF**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:33:32  
 Time Test Ended: 20:31:32  
 Interval: **4105.00 ft (KB) To 4126.00 ft (KB) (TVD)**  
 Total Depth: 4126.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 3036.00 ft (KB)  
 3029.00 ft (CF)  
 KB to GR/CF: 7.00 ft

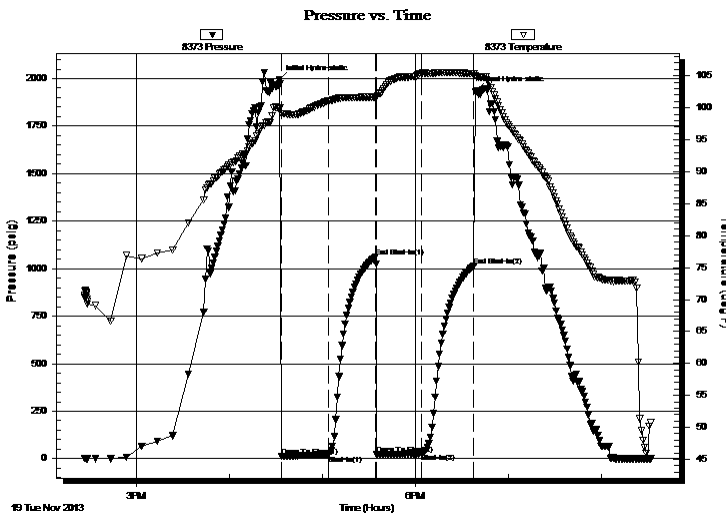
## Serial #: 8373

Inside

Press @ Run Depth: 27.75 psig @ 4110.00 ft (KB)  
 Start Date: 2013.11.19 End Date: 2013.11.19  
 Start Time: 14:26:37 End Time: 20:31:31  
 Capacity: 8000.00 psig  
 Last Calib.: 2013.11.19  
 Time On Btm: 2013.11.19 @ 16:32:02  
 Time Off Btm: 2013.11.19 @ 18:39:02

TEST COMMENT: IF: Surface blow died in 8 min.  
 IS: No return.  
 FF: No blow.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1995.39	99.90	Initial Hydro-static
2	13.02	99.10	Open To Flow (1)
32	19.80	101.04	Shut-In(1)
62	1061.20	101.70	End Shut-In(1)
63	22.49	101.71	Open To Flow (2)
92	27.75	105.39	Shut-In(2)
126	1014.78	105.36	End Shut-In(2)
127	1935.52	104.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud oil spots 100%m	0.07

\* 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

**17-13-32 Logan, KS**

202 w main st  
Salem, IL 62881

**Campbell 3-17**

Job Ticket: 54973

**DST#: 3**

ATTN: Tim Priest

Test Start: 2013.11.19 @ 14:26:32

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud oil spots 100%m	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

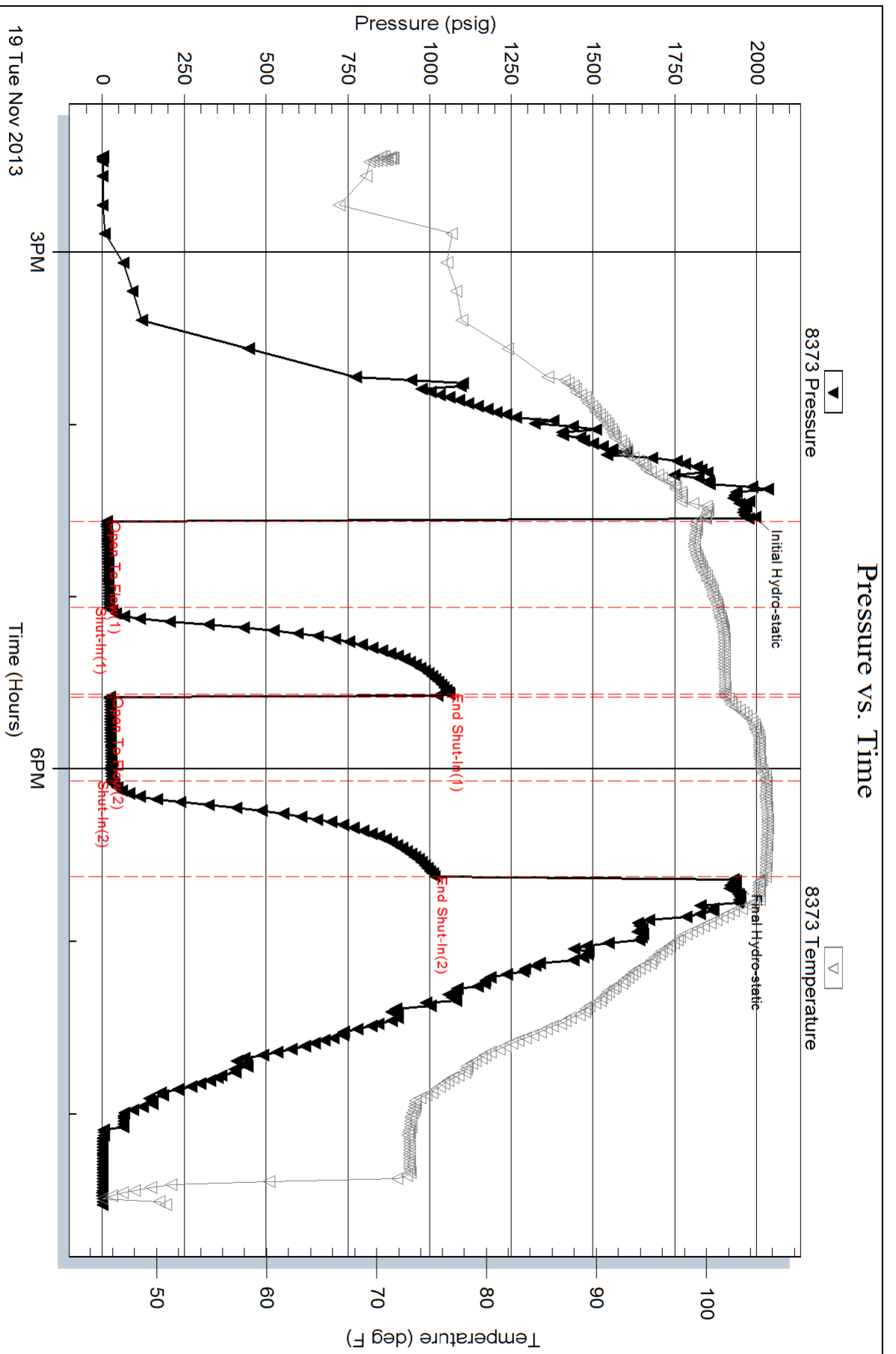
Num Gas Bombs: 0

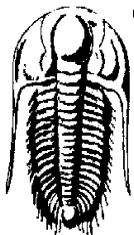
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

17-13-32 Logan, KS

202 w main st  
Salem, IL 62881

**Campbell 3-17**

Job Ticket: 54974

**DST#: 4**

ATTN: Tim Priest

Test Start: 2013.11.20 @ 13:13:51

## GENERAL INFORMATION:

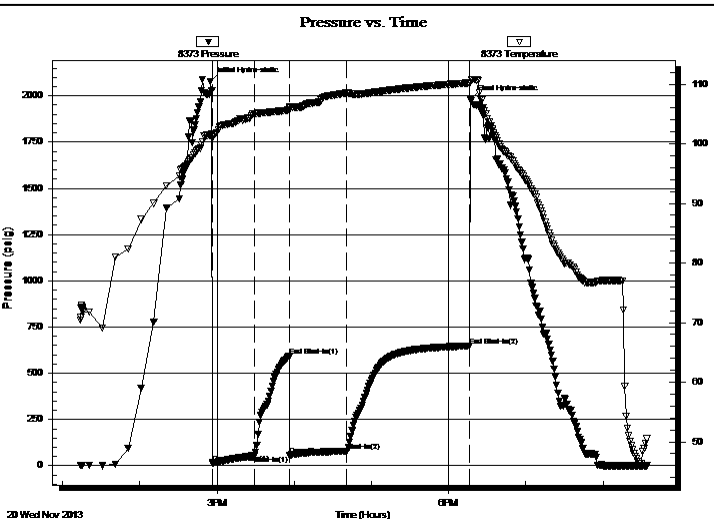
Formation: **H&I**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:56:21  
 Time Test Ended: 20:34:21  
 Interval: **4172.00 ft (KB) To 4230.00 ft (KB) (TVD)**  
 Total Depth: 4230.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 3036.00 ft (KB)  
 3029.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 8373

Inside

Press @ Run Depth: 80.31 psig @ 4177.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.20 End Date: 2013.11.20 Last Calib.: 2013.11.20  
 Start Time: 13:13:56 End Time: 20:34:20 Time On Btm: 2013.11.20 @ 14:54:51  
 Time Off Btm: 2013.11.20 @ 18:16:51

TEST COMMENT: IF: 1/4 blow built to 3.  
 IS: No return.  
 FF: Surface blow built to 3 1/2.  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.58	101.43	Initial Hydro-static
2	14.18	101.11	Open To Flow (1)
34	54.07	104.98	Shut-In(1)
61	590.50	105.66	End Shut-In(1)
62	57.10	106.00	Open To Flow (2)
106	80.31	108.52	Shut-In(2)
201	647.69	110.19	End Shut-In(2)
202	1978.52	110.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm 10%w 90%m	0.30
60.00	w cm 5%w 95%m	0.30
30.00	ocm 5%o 95%m	0.42

## 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

**17-13-32 Logan, KS**

202 w main st  
Salem, IL 62881

**Campbell 3-17**

Job Ticket: 54974

**DST#: 4**

ATTN: Tim Priest

Test Start: 2013.11.20 @ 13:13:51

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

29000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	w cm 10%w 90%m	0.295
60.00	w cm 5%w 95%m	0.304
30.00	ocm 5%o 95%m	0.421

Total Length: 150.00 ft      Total Volume: 1.020 bbl

Num Fluid Samples: 0

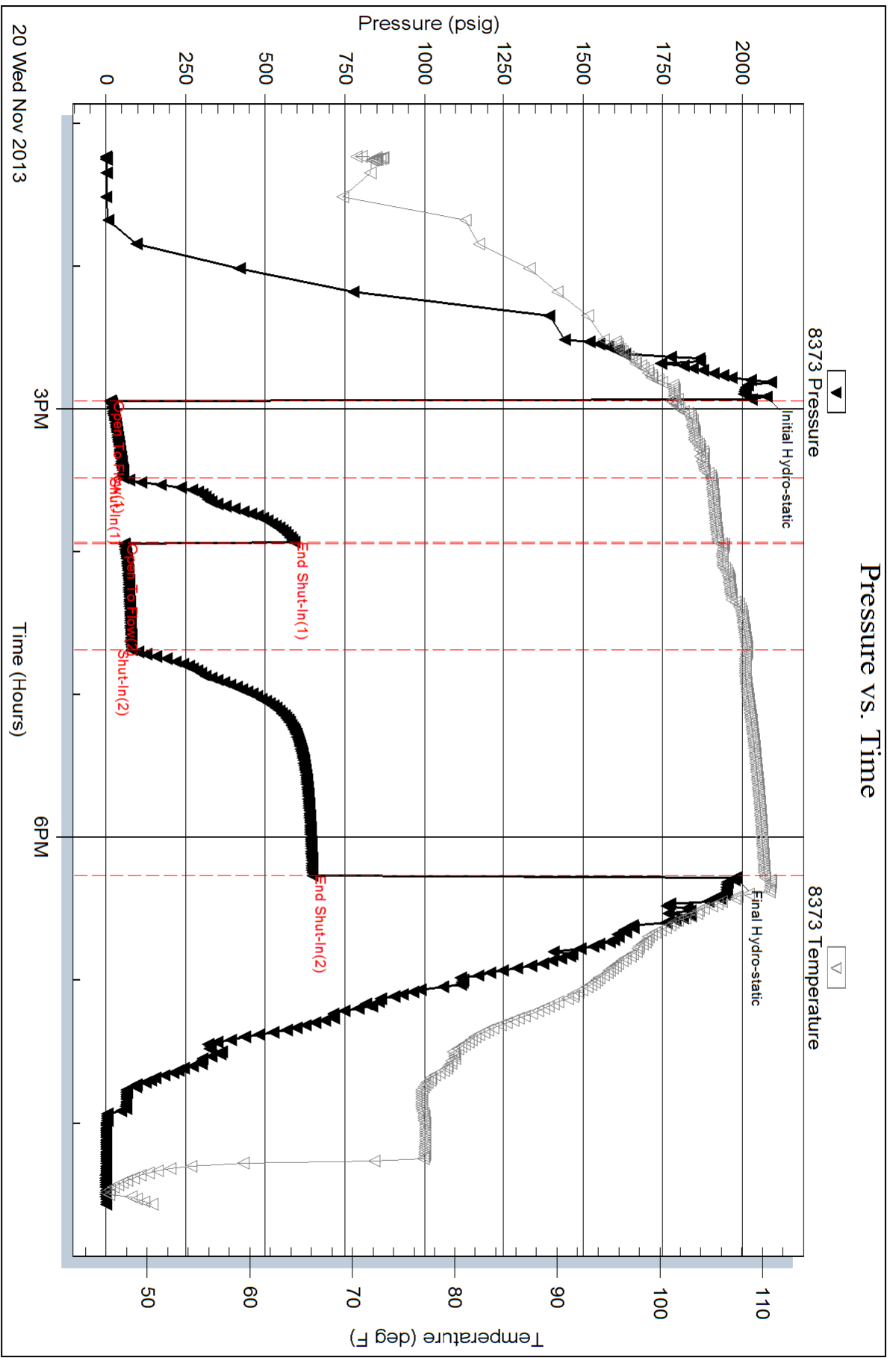
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .30@55=29000







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

17-13-32 Logan, KS

202 w main st  
Salem, IL 62881

**Campbell 3-17**

ATTN: Tim Priest

Job Ticket: 54975

**DST#: 5**

Test Start: 2013.11.21 @ 07:40:12

## GENERAL INFORMATION:

Formation: **J&K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:52:12

Time Test Ended: 14:57:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

**Interval: 4230.00 ft (KB) To 4275.00 ft (KB) (TVD)**

Reference Elevations: 3036.00 ft (KB)

Total Depth: 4275.00 ft (KB) (TVD)

3029.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8373**

**Inside**

Press @ Run Depth: 292.83 psig @ 4235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.21

End Date:

2013.11.21

Last Calib.: 2013.11.21

Start Time: 07:40:17

End Time:

14:57:41

Time On Btm: 2013.11.21 @ 09:50:42

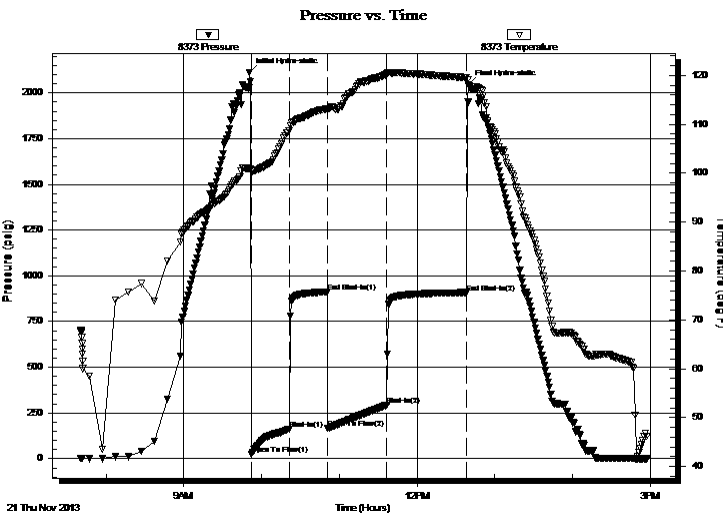
Time Off Btm: 2013.11.21 @ 12:39:42

**TEST COMMENT:** IF: 1/4 blow BOB in 15 min.

IS: No return.

FF: BOB in 16 min.

FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.77	100.96	Initial Hydro-static
2	25.54	100.40	Open To Flow (1)
31	162.10	108.68	Shut-In(1)
60	911.71	113.18	End Shut-In(1)
61	165.15	112.95	Open To Flow (2)
106	292.83	120.28	Shut-In(2)
168	908.59	119.54	End Shut-In(2)
169	2046.63	118.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	mcw 80%w 20%m	2.39
186.00	mcw 70%w 30%m	2.61
186.00	w cm 40%w 60%m	2.61

## 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

**17-13-32 Logan, KS**

202 w main st  
Salem, IL 62881

**Campbell 3-17**

Job Ticket: 54975

**DST#: 5**

ATTN: Tim Priest

Test Start: 2013.11.21 @ 07:40:12

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

72000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
248.00	mcw 80%w 20%m	2.395
186.00	mcw 70%w 30%m	2.609
186.00	w cm 40%w 60%m	2.609

Total Length: 620.00 ft      Total Volume: 7.613 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .29@26=72000

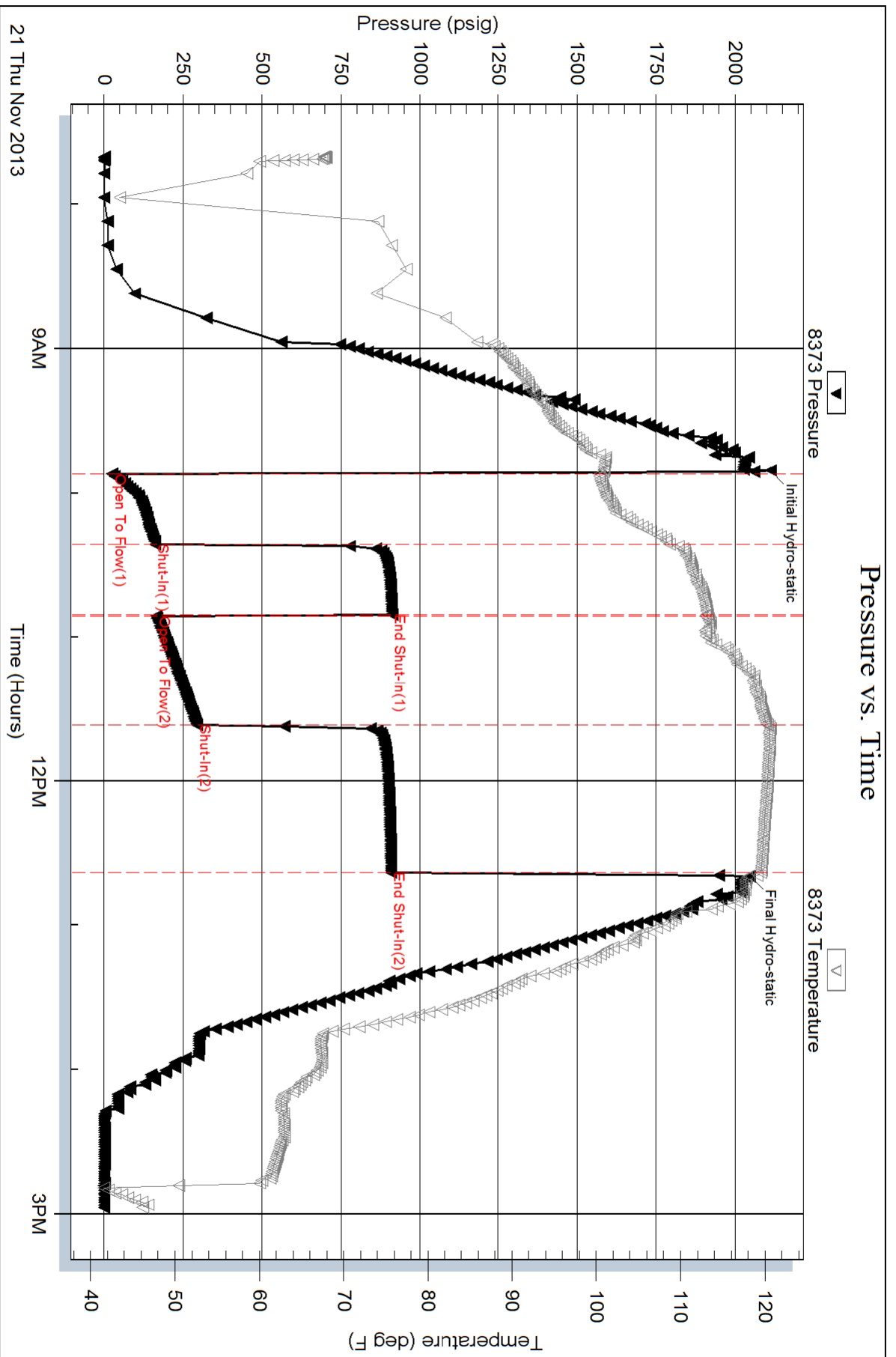
Serial #: 8373

Inside

Shakespeare Oil Co

Campbell 3-17

DST Test Number: 5





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

**17-13-32 Logan, KS**

202 w main st  
Salem, IL 62881

**Campbell 3-17**

Job Ticket: 55576

**DST#: 6**

ATTN: Tim Priest

Test Start: 2013.11.22 @ 23:31:11

## GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:28:41

Time Test Ended: 06:22:11

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

**Interval: 4499.00 ft (KB) To 4530.00 ft (KB) (TVD)**

Reference Elevations: 3036.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

3029.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8373 Inside**

Press@RunDepth: 23.80 psig @ 4504.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.22

End Date:

2013.11.23

Last Calib.: 2013.11.23

Start Time: 23:31:16

End Time:

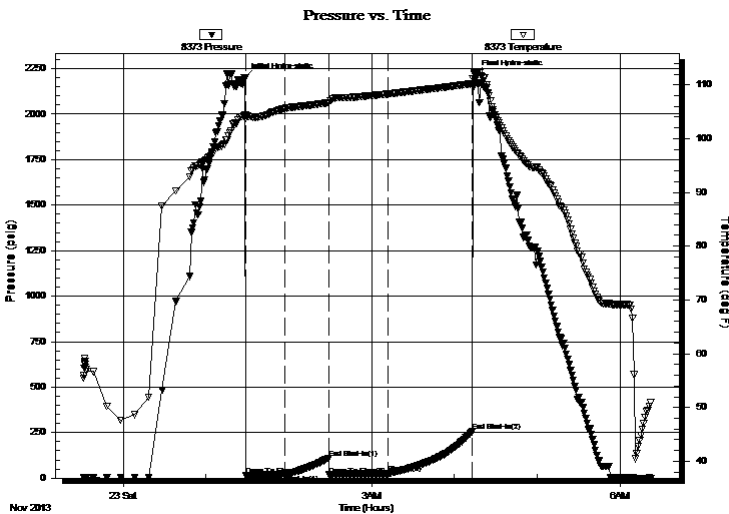
06:22:10

Time On Btm: 2013.11.23 @ 01:27:41

Time Off Btm: 2013.11.23 @ 04:14:41

**TEST COMMENT:** IF: Surface blow died in 5 min.  
IS: No return.  
FF: Surface blow built to 2.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.48	104.20	Initial Hydro-static
1	14.09	103.79	Open To Flow (1)
29	18.69	105.59	Shut-In(1)
61	110.38	106.68	End Shut-In(1)
62	17.57	106.65	Open To Flow (2)
104	23.80	108.29	Shut-In(2)
165	255.23	110.19	End Shut-In(2)
167	2216.63	112.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm 30%o 70%m	0.10
0.00	100 GIP	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

17-13-32 Logan, KS

202 w main st  
Salem, IL 62881

**Campbell 3-17**

Job Ticket: 55576

**DST#: 6**

ATTN: Tim Priest

Test Start: 2013.11.22 @ 23:31:11

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 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: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	ocm 30%o 70%m	0.098
0.00	100 GIP	0.000

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

**17-13-32 Logan, KS**

202 w main st  
Salem, IL 62881

**Campbell 3-17**

Job Ticket: 55577

**DST#: 7**

ATTN: Tim Priest

Test Start: 2013.11.23 @ 20:55:57

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:40:27

Time Test Ended: 05:47:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

**Interval: 4573.00 ft (KB) To 4610.00 ft (KB) (TVD)**

Reference Elevations: 3036.00 ft (KB)

Total Depth: 4610.00 ft (KB) (TVD)

3029.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8373**

**Inside**

Press@RunDepth: 72.45 psig @ 4578.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.23

End Date:

2013.11.24

Last Calib.: 2013.11.24

Start Time: 20:56:02

End Time:

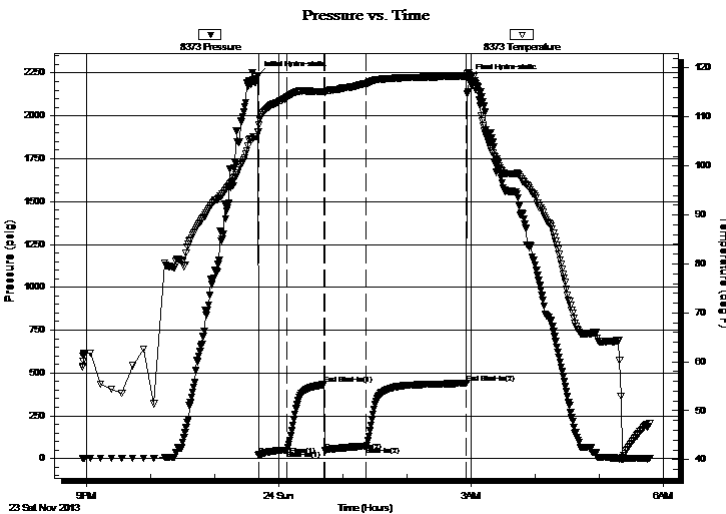
05:47:27

Time On Btm: 2013.11.23 @ 23:39:57

Time Off Btm: 2013.11.24 @ 02:57:27

**TEST COMMENT:** IF: 1/4 blow BOB in 12 min.  
IS: Surface blow built to 1.  
FF: BOB in 8 min.  
FS: Surface blow built to 3.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2233.21	106.98	Initial Hydro-static
1	21.01	106.99	Open To Flow (1)
27	49.01	113.95	Shut-In(1)
62	433.77	115.22	End Shut-In(1)
63	45.21	115.07	Open To Flow (2)
102	72.45	116.82	Shut-In(2)
196	438.92	118.27	End Shut-In(2)
198	2215.60	119.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	mcgo 30%g 50%o 20%m	0.30
62.00	mcgo 20%g 50%o 30%m	0.35
62.00	mcgo 10%g 60%o 30%m	0.87
	682 GIP	

## 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

**17-13-32 Logan, KS**

202 w main st  
Salem, IL 62881

**Campbell 3-17**

Job Ticket: 55577

**DST#: 7**

ATTN: Tim Priest

Test Start: 2013.11.23 @ 20:55:57

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	mcgo 30%g 50%o 20%m	0.305
62.00	mcgo 20%g 50%o 30%m	0.350
62.00	mcgo 10%g 60%o 30%m	0.870
	682 GIP	

Total Length: 186.00 ft

Total Volume: 1.525 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



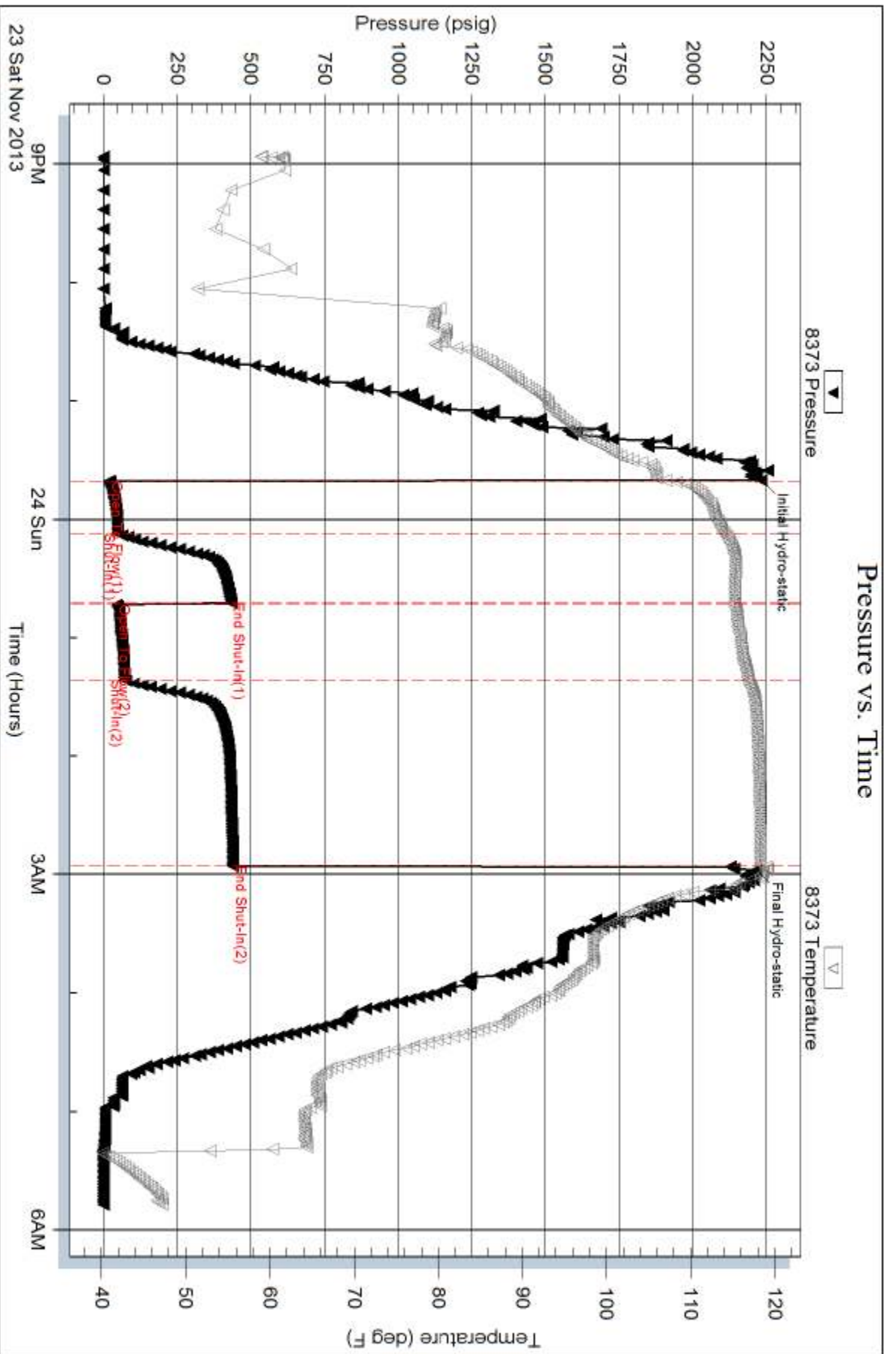
Serial #: 8373

Inside

Shakespeare Oil Co

Campbell 3-17

DST Test Number: 7



Trilobite Testing, Inc

Ref. No: 55577

Printed: 2013.11.24 @ 06:37:43