

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 7311  
Name: Shakespeare Oil Company, Inc.  
Address 1: 202 West Main Street  
Address 2:  
City: Salem State: IL Zip: 62881 + 1519  
Contact Person: Donald R. Williams  
Phone: (618) 548-1585  
CONTRACTOR: License # 33575  
Name: WW Drilling, LLC  
Wellsite Geologist: Brad Rine  
Purchaser: None

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JUN 09 2010  
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KANSAS CORPORATION COMMISSION  
JUN 11 2010  
CONSERVATION DIVISION  
WICHITA, KS

API No. 15 - 109-20894-00-00  
Spot Description:  
NE SE SW SW Sec. 17 Twp. 13 S. R. 32  East  West  
340 Feet from  North /  South Line of Section  
1,040 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Logan  
Lease Name: Stoll Well #: 1-17  
Field Name: Wildcat  
Producing Formation: None  
Elevation: Ground: 2915 Kelly Bushing: 2920  
Total Depth: 4725 Plug Back Total Depth:  
Amount of Surface Pipe Set and Cemented at: 219' 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.

- 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  
 Conv. to GSW  
 Plug Back: Plug Back Total Depth  
 Commingled Permit #:  
 Dual Completion Permit #:  
 SWD Permit #:  
 ENHR Permit #:  
 GSW Permit #:  
4/8/10 4/18/10 4/19/10  
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 38,000 ppm Fluid volume: 1000 bbls  
Dewatering method used: Air dry - backfill  
Location of fluid disposal if hauled offsite:  
Operator Name:  
Lease Name: License #:  
Quarter Sec. Twp. S. R.  East  West  
County: Permit #:

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.  
Signature: Donald R. Williams  
Title: Vice President Date: 6/8/10

KCC Office Use ONLY  
 Letter of Confidentiality Received  
Date: 6-9-10  
 Confidential Release Date: 6-9-12  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NS Date: 6-18-10  
PA

Operator Name: Shakespeare Oil Company, Inc. Lease Name: Stoll Well #: 1-17  
 Sec. 17 Twp. 13 S. R. 32  East  West County: Logan

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Array, CDL/CNL, ML</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See Geological Report
--	---

CASING RECORD <input checked="" 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
Surface	12 1/4"	8 5/8"	23#	219'	Common	175	3%cc & 2% gel

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				

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
---

Date of First, Resumed Production, SWD or ENHR: _____	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____	PRODUCTION INTERVAL: _____ _____
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PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887  
 Fax: (785) 483-5566

KCC  
 JUN 06 2010  
 CONFIDENTIAL

# INVOICE

Invoice Number: 122204  
 Invoice Date: Apr 8, 2010  
 Page: 1

**Bill To:**  
 Shakespeare Oil Co., Inc.  
 202 West Main St.  
 Salem, IL 62881

*file copy  
 INT*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Stoll #1-17	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Apr 8, 2010	5/8/10

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Class A Common	15.45	2,626.50
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	58.20	349.20
179.00	SER	Handling	2.40	429.60
18.00	SER	Mileage 179 sx @.10 per sk per mi	17.90	322.20
1.00	SER	Surface	1,018.00	1,018.00
18.00	SER	Pump Truck Mileage	7.00	126.00

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 CONSERVATION DIVISION  
 WICHITA, KS

RECEIVED  
 APR 19 2010  
 RECEIVED

Subtotal	4,933.90
Sales Tax	191.40
Total Invoice Amount	5,125.30
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,125.30</b>

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

\$ 986.78

ONLY IF PAID ON OR BEFORE  
 May 3, 2010

# ALLIED CEMENTING CO., LLC. 039165

KCC  
JUN 06 2010  
CONFIDENTIAL

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

SERVICE POINT:  
Oakley, KS

DATE <u>4/8/10</u>	SEC. <u>17</u>	TWP. <u>13</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION <u>9:00am</u>	JOB START <u>7:30</u>	JOB FINISH <u>8:00</u>
LEASE <u>57011</u>	WELL # <u>147</u>	LOCATION <u>Oakley 135 3W 15 E 1st</u>			COUNTY <u>Logan</u>	STATE <u>KS</u>	

CONTRACTOR WW L  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 219  
 CASING SIZE 8 5/8 DEPTH 217  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15'  
 PERFS.  
 DISPLACEMENT 12.86

OWNER Sam  
 CEMENT  
 AMOUNT ORDERED 170 SKL Can  
3070 CC 2000 gel

EQUIPMENT  
 PUMP TRUCK CEMENTER Alan  
 # 423-281 HELPER Alan  
 BULK TRUCK  
 # 347 DRIVER Wayne  
 BULK TRUCK  
 # DRIVER

COMMON 170 SKL @ 15.45 2626.50  
 POZMIX @  
 GEL @ 20.80 62.40  
 CHLORIDE @ 58.20 349.20  
 ASC @

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HANDLING 179 @ 2.40 429.60  
 MILEAGE 100 SK/mile 322.20  
 TOTAL 3789.90

REMARKS:  
Cement did circulate

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 WICHITA, KS

SERVICE  
 DEPTH OF JOB  
 PUMP TRUCK CHARGE 1018.00  
 EXTRA FOOTAGE @  
 MILEAGE 18 @ 7.00 126.00  
 MANIFOLD @

CHARGE TO: Shakespeare Oil & Gas  
 STREET  
 CITY STATE ZIP

TOTAL 1144.00

PLUG & FLOAT EQUIPMENT  
 @  
 @  
 @  
 @  
 @

To Allied Cementing Co., 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)  
 TOTAL CHARGES  
 DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME Jonnie Lang  
 SIGNATURE Jonnie Lang



PO BOX 31 Russell, KS 67665

**KCC**  
JUN 06 2010  
**CONFIDENTIAL**

# INVOICE

Invoice Number: 122396  
Invoice Date: Apr 19, 2010  
Page: 1

Voice: (785) 483-3887  
Fax: (785) 483-5566

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

*INT Well Job*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Stoll #1-17	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Apr 19, 2010	5/19/10

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	15.45	2,039.40
88.00	MAT	Pozmix	8.00	704.00
8.00	MAT	Gel	20.80	166.40
55.00	MAT	Flo Seal	2.50	137.50
230.00	SER	Handling	2.40	552.00
18.00	SER	Mileage 230 sx @.10 per sk per mi	23.00	414.00
1.00	SER	Plug to Abandon	1,185.00	1,185.00
18.00	SER	Pump Truck Mileage	7.00	126.00
1.00	EQP	8.5/8 Dry Hole Plug	40.00	40.00

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JUN 11 2010  
CONSERVATION DIVISION  
WICHITA, KS

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

\$ 1072.86

ONLY IF PAID ON OR BEFORE  
May 14, 2010

Subtotal	5,364.30
Sales Tax	337.95
Total Invoice Amount	5,702.25
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,702.25</b>

# ALLIED CEMENTING CO., LLC. 039275

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

KCC  
JUN 06 2010

SERVICE POINT:

Oakley

DATE 4-19-10	SEC 17	TWP 13S	RANGE 32W	CALLED OUT CONFIDENTIAL	ON LOCATION	JOB START 3:30pm	JOB FINISH 4:30pm
LEASE <u>stoll</u>	WELL # 1-17	LOCATION Oakley	13S 3W 1S		COUNTY Logan	STATE KS	
OLD OR <u>NEW</u> (Circle one)		E into					

CONTRACTOR W + W Drilling Rig 2  
 TYPE OF JOB PTA  
 HOLE SIZE 7 7/8 T.D. 4725'  
 CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH 2530'  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

OWNER same  
 CEMENT  
 AMOUNT ORDERED 220 sks 60/40 49/gel  
1/4# Flo-seal

COMMON	<u>132 sks</u>	@	<u>15.45</u>	<u>2039.40</u>
POZMIX	<u>88 sks</u>	@	<u>8.00</u>	<u>704.00</u>
GEL	<u>8 sks</u>	@	<u>20.80</u>	<u>166.40</u>
CHLORIDE		@		
ASC		@		
	<u>Flo-seal 55#</u>	@	<u>2.50</u>	<u>137.50</u>

EQUIPMENT

PUMP TRUCK CEMENTER Andrew  
 # 423-281 HELPER Larene  
 BULK TRUCK  
 # 377 DRIVER Wil  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

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HANDLING	<u>230 sks</u>	@	<u>2.40</u>	<u>552.00</u>
MILEAGE	<u>101 sk/mile</u>			<u>414.00</u>
				TOTAL <u>4013.30</u>

REMARKS:  
25 sks @ 2530'  
100 sks @ 1365'  
40 sks @ 200'  
10 sks @ 40'  
15 sks mouse hole  
30 sks Rat hole  
thank you

CONSERVATION DIVISION  
WICHITA, KS

SERVICE

DEPTH OF JOB	<u>2530'</u>			
PUMP TRUCK CHARGE				<u>1185.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>18 miles</u>	@	<u>7.00</u>	<u>126.00</u>
MANIFOLD		@		

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

TOTAL 1311.00

PLUG & FLOAT EQUIPMENT

<u>8 5/8</u>	<u>1 Dry hole plug</u>	@		<u>40.00</u>
		@		
		@		
		@		
		@		
				TOTAL <u>40.00</u>

To Allied Cementing Co., 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 \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME Lannie Lang  
 SIGNATURE Lannie Lang



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company, Inc.**

202 W. Main St.  
Salem, IL 62881

ATTN: Brad Rine

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

**Stoll #1-17**

Start Date: 2010.04.13 @ 04:20:00

End Date: 2010.04.13 @ 10:14:36

Job Ticket #: 38886                      DST #: 1

**KCC**  
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KANSAS CORPORATION COMMISSION

**JUN 11 2010**

CONSERVATION DIVISION  
WICHITA, KS

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

Stoll #1-17

202 W. Main St.  
Salem, IL 62881

17-13-32 Logan, KS

Job Ticket: 38886

DST#: 1

ATTN: Brad Rine

Test Start: 2010.04.13 @ 04:20:00

## GENERAL INFORMATION:

Formation: **LKC 'B,C'**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 06:18:36

Time Test Ended: 10:14:36

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **37**

Interval: **4031.00 ft (KB) To 4070.00 ft (KB) (TVD)**

Total Depth: **4070.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **3047.00 ft (KB)**

**3042.00 ft (CF)**

KB to GR/CF: **5.00 ft**

Serial #: **8351**

Inside

Press@RunDepth: **31.17 psig @ 4035.00 ft (KB)**

Start Date: **2010.04.13**

End Date:

**2010.04.13**

Capacity: **8000.00 psig**

Last Calib.:

**2010.04.13**

Start Time: **04:20:01**

End Time:

**10:14:36**

Time On Btm: **2010.04.13 @ 06:17:00**

Time Off Btm: **2010.04.13 @ 08:23:24**

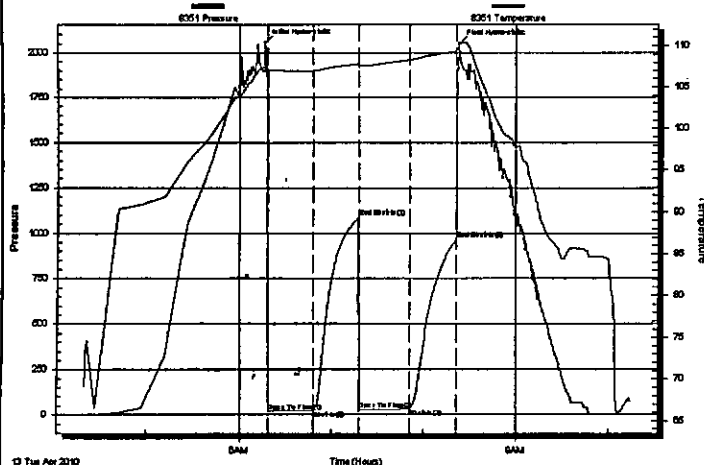
TEST COMMENT: **IF: Surface blow, died @ 25 min.**

**IS: No return.**

**FF: No blow.**

**FS: No return.**

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2054.54	107.49	Initial Hydro-static
2	18.59	106.91	Open To Flow (1)
32	20.83	107.03	Shut-In(1)
62	1091.43	107.86	End Shut-In(1)
62	26.68	107.39	Open To Flow (2)
95	31.17	108.35	Shut-In(2)
125	964.65	109.37	End Shut-In(2)
127	2048.63	109.93	Final Hydro-static

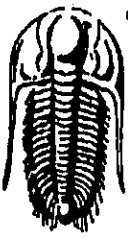
## Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM 100%M	0.07

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38886

**DST#: 1**

ATTN: Brad Rine

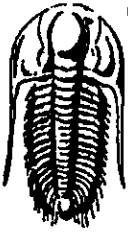
Test Start: 2010.04.13 @ 04:20:00

## Tool Information

Drill Pipe:	Length: 3910.00 ft	Diameter: 3.80 inches	Volume: 54.85 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 55.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.50 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4031.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	66.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4004.50	
Shut In Tool	5.00			4009.50	
Hydraulic tool	5.00			4014.50	
Jars	5.00			4019.50	
Safety Joint	2.50			4022.00	
Packer	5.00			4027.00	27.50 Bottom Of Top Packer
Packer	4.00			4031.00	
Stubb	1.00			4032.00	
Perforations	3.00			4035.00	
Recorder	0.00	8351	Inside	4035.00	
Recorder	0.00	8523	Outside	4035.00	
Perforations	30.00			4065.00	
Bullnose	5.00			4070.00	39.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>66.50</b>			



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, L 62881

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

Job Ticket: 38886

**DST#: 1**

ATTN: Brad Rine

Test Start: 2010.04.13 @ 04:20:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil APt

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.89 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
15.00	OSM 100%M	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbf

Num Fluid Samples: 0

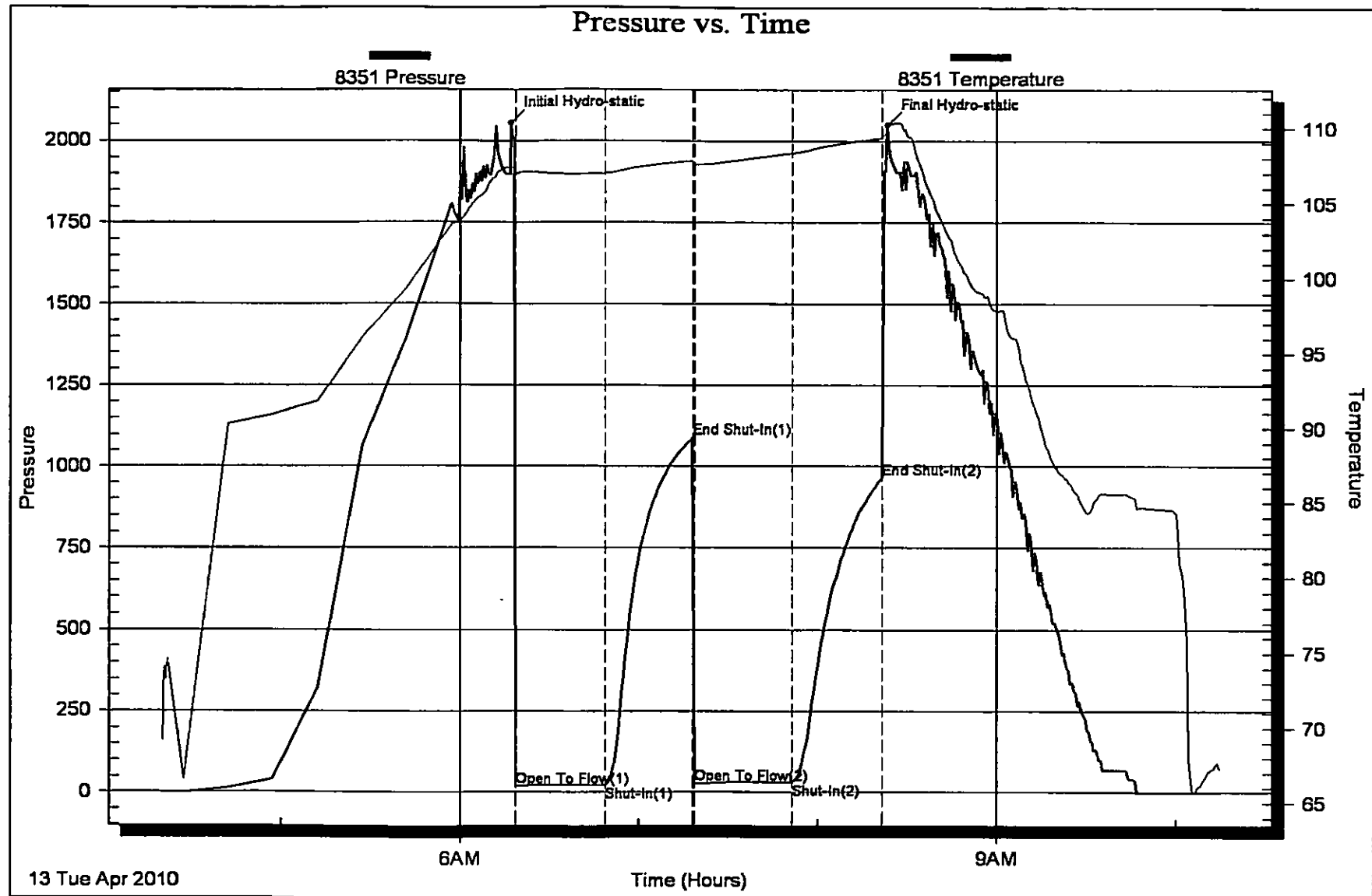
Num Gas Bombs: 0

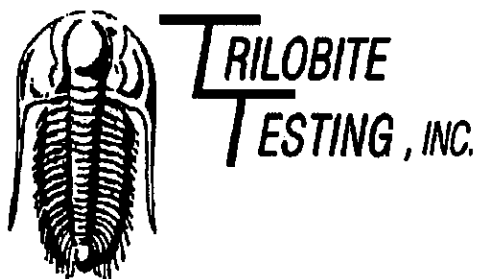
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company, Inc.**

202 W. Main St.  
Salem, IL 62881

ATTN: Brad Rine

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

**Stoll #1-17**

Start Date: 2010.04.13 @ 20:22:04

End Date: 2010.04.14 @ 03:10:51

Job Ticket #: 38887                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

Stoll #1-17

202 W. Main St.  
Salem, IL 62881

17-13-32 Logan, KS

ATTN: Brad Rine

Job Ticket: 38887

DST#: 2

Test Start: 2010.04.13 @ 20:22:04

## GENERAL INFORMATION:

Formation: LKC 'D,E

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:55:52

Time Test Ended: 03:10:51

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 4077.00 ft (KB) To 4110.00 ft (KB) (TVD)

Reference Elevations: 3047.00 ft (KB)

Total Depth: 4110.00 ft (KB) (TVD)

3042.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8351

Inside

Press@RunDepth: 56.87 psig @ 4080.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.13

End Date: 2010.04.14

Last Calib.: 2010.04.14

Start Time: 20:22:05

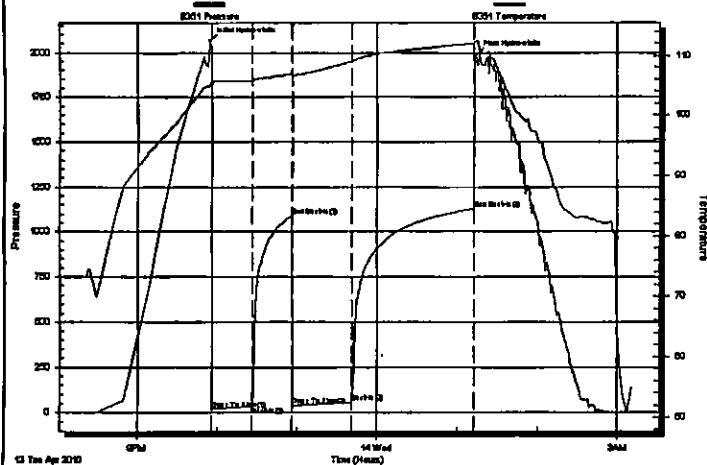
End Time: 03:10:52

Time On Btm: 2010.04.13 @ 21:54:16

Time Off Btm: 2010.04.14 @ 01:13:52

TEST COMMENT: IF: 1 1/2" Blow.  
IS: No return.  
FF: 1/2" Blow.  
FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.38	104.76	Initial Hydro-static
2	17.03	104.96	Open To Flow (1)
32	35.27	105.73	Shut-in(1)
62	1087.38	106.89	End Shut-in(1)
62	37.29	106.63	Open To Flow (2)
107	56.87	109.00	Shut-in(2)
199	1127.81	111.91	End Shut-in(2)
200	1986.87	112.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	WM 30%W 70%M	0.44
0.00	RW: .400 @ 54 Degrees F = 20000 PPM	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38887

**DST#: 2**

ATTN: Brad Rine

Test Start: 2010.04.13 @ 20:22:04

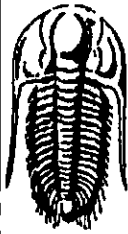
**Tool Information**

Drill Pipe:	Length: 3943.00 ft	Diameter: 3.80 inches	Volume: 55.31 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<b>Total Volume: 55.92 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.50 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4077.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	60.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4050.50	
Shut In Tool	5.00			4055.50	
Hydraulic tool	5.00			4060.50	
Jars	5.00			4065.50	
Safety Joint	2.50			4068.00	
Packer	5.00			4073.00	27.50 Bottom Of Top Packer
Packer	4.00			4077.00	
Stubb	1.00			4078.00	
Perforations	2.00			4080.00	
Recorder	0.00	8351	Inside	4080.00	
Recorder	0.00	8523	Outside	4080.00	
Perforations	25.00			4105.00	
Bullnose	5.00			4110.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 60.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, L 62881

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

ATTN: Brad Rine

Job Ticket: 38887

DST#: 2

Test Start: 2010.04.13 @ 20:22:04

## 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:

20000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.72 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	WM 30%W 70%M	0.443
0.00	RW: .400 @ 54 Degrees F = 20000 PPM	0.000

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

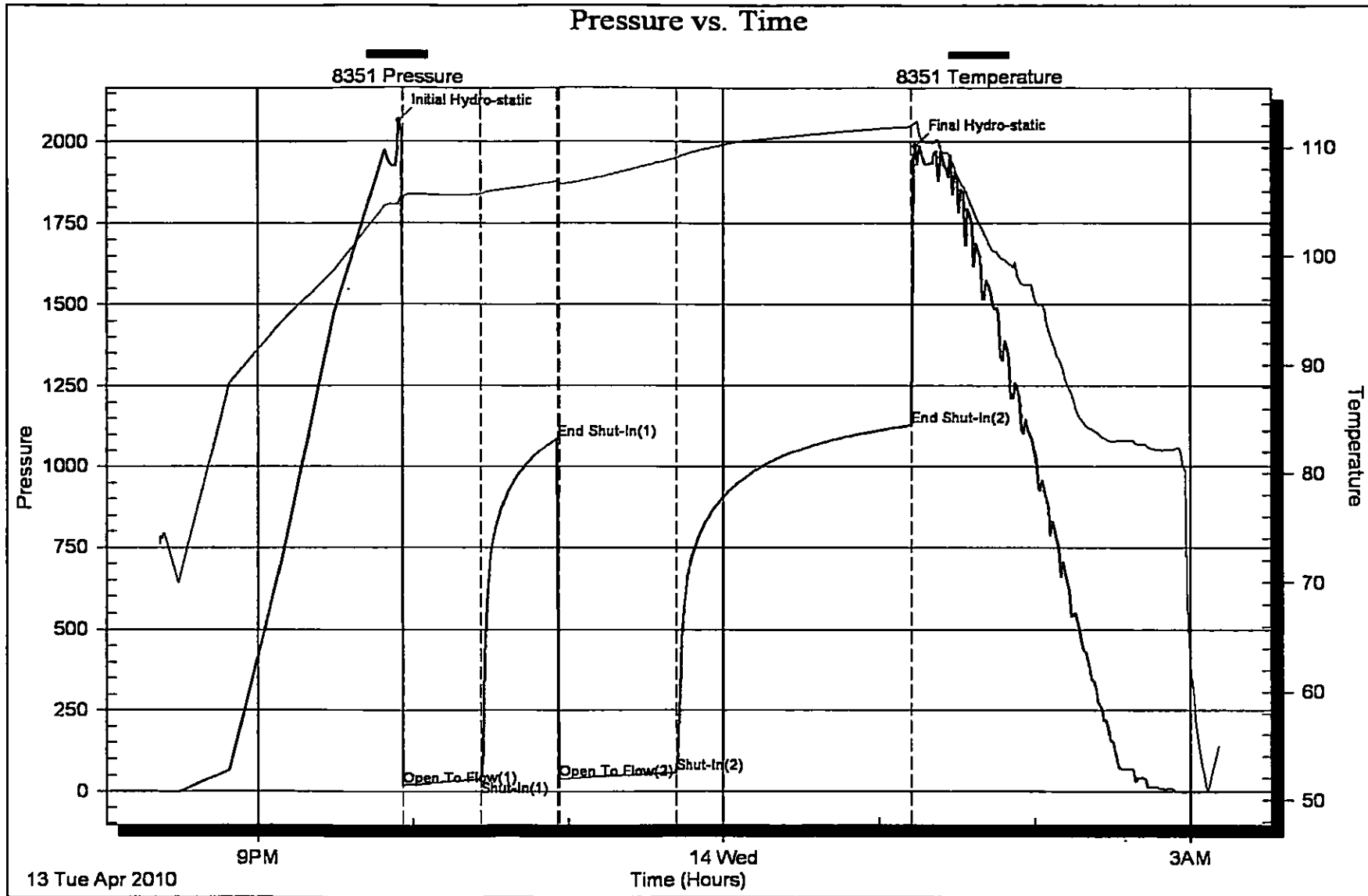
Num Gas Bombs: 0

Serial #:

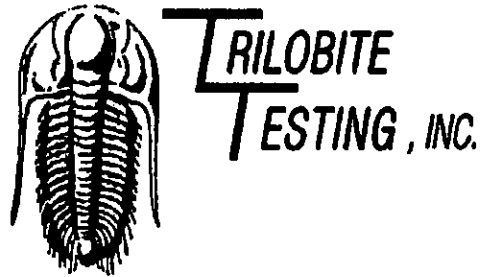
Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company, Inc.**

202 W. Main St.  
Salem, IL 62881

ATTN: Brad Rine

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

**Stoll #1-17**

Start Date: 2010.04.14 @ 15:28:00

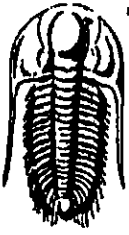
End Date: 2010.04.14 @ 21:54:09

Job Ticket #: 38889                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

Stoll #1-17

202 W. Main St.  
Salem, IL 62881

17-13-32 Logan, KS

Job Ticket: 38889

DST#: 3

ATTN: Brad Rine

Test Start: 2010.04.14 @ 15:28:00

### GENERAL INFORMATION:

Formation: LKC 'H1'

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:17:50

Time Test Ended: 21:54:09

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 4147.00 ft (KB) To 4215.00 ft (KB) (TVD)

Reference Elevations: 3047.00 ft (KB)

Total Depth: 4215.00 ft (KB) (TVD)

3042.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8523

Outside

Press@RunDepth: 56.73 psig @ 4152.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.14

End Date: 2010.04.14

Last Calib.: 2010.04.14

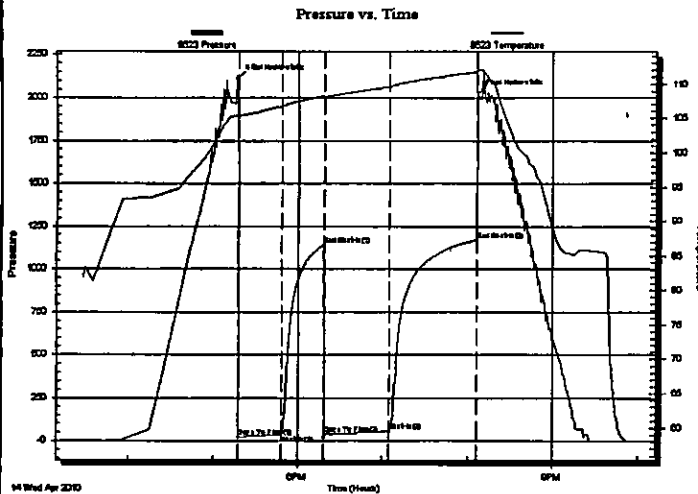
Start Time: 15:28:05

End Time: 21:54:10

Time On Btm: 2010.04.14 @ 17:16:50

Time Off Btm: 2010.04.14 @ 20:06:40

TEST COMMENT: IF: 1" Blow.  
IS: No return.  
FF: 1/2" Blow.  
FS: No return.



### PRESSURE SUMMARY

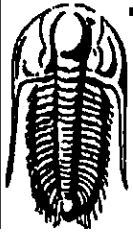
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.19	105.57	Initial Hydro-static
1	23.09	105.06	Open To Flow (1)
32	36.71	106.72	Shut-In(1)
62	1142.43	108.31	End Shut-In(1)
62	41.49	107.92	Open To Flow (2)
108	56.73	109.65	Shut-In(2)
169	1170.42	111.75	End Shut-In(2)
170	2030.07	111.98	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
70.00	OSWM 25%W 75%M	0.34
0.00	RW: .452 @ 63 Degrees F = 18000 PPM	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38889

DST#: 3

ATTN: Brad Rine

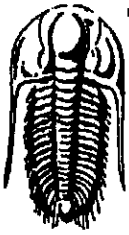
Test Start: 2010.04.14 @ 15:28:00

**Tool Information**

Drill Pipe:	Length: 4003.00 ft	Diameter: 3.80 inches	Volume: 56.15 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 56.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.50 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4147.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	95.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4120.50	
Shut In Tool	5.00			4125.50	
Hydraulic tool	5.00			4130.50	
Jars	5.00			4135.50	
Safety Joint	2.50			4138.00	
Packer	5.00			4143.00	27.50 Bottom Of Top Packer
Packer	4.00			4147.00	
Stubb	1.00			4148.00	
Perforations	4.00			4152.00	
Recorder	0.00	8351	Inside	4152.00	
Recorder	0.00	8523	Outside	4152.00	
Perforations	25.00			4177.00	
Change Over Sub	1.00			4178.00	
Drill Pipe	31.00			4209.00	
Change Over Sub	1.00			4210.00	
Bullnose	5.00			4215.00	68.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>95.50</b>				



**TRIOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38889

**DST#: 3**

ATTN: Brad Rine

Test Start: 2010.04.14 @ 15:28:00

## 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:

18000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.15 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	OSWM 25%W 75%M	0.344
0.00	RW: .452 @ 63 Degrees F = 18000 PPM	0.000

Total Length: 70.00 ft

Total Volume: 0.344 bbl

Num Fluid Samples: 0

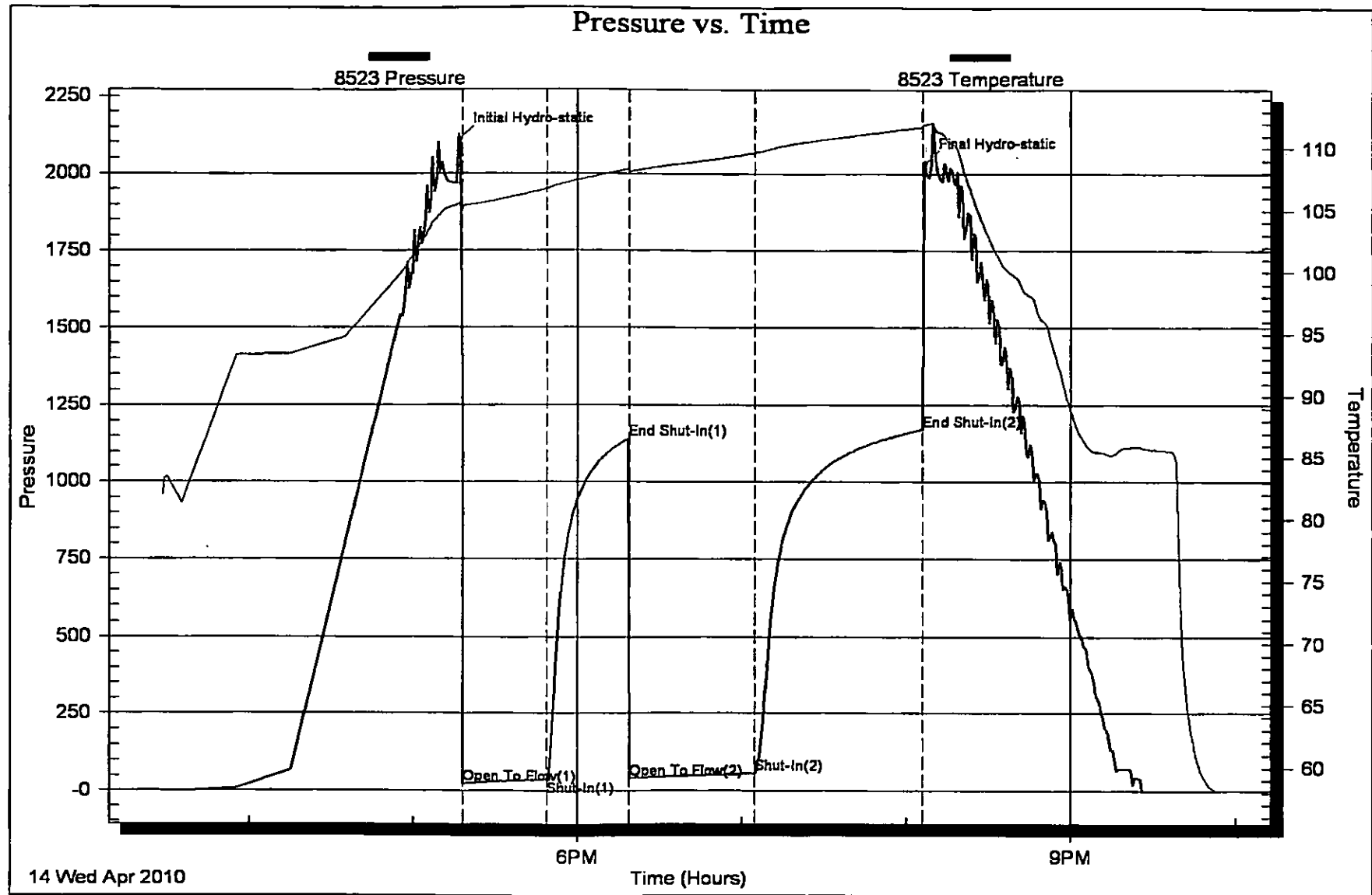
Num Gas Bombs: 0

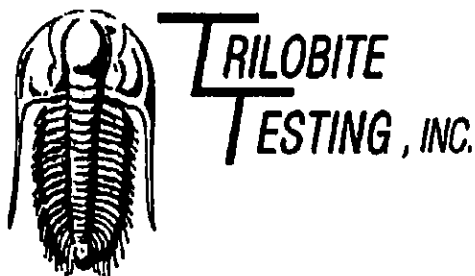
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company, Inc.**

202 W. Main St.  
Salem, IL 62881

ATTN: Brad Rine

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

**Stoll #1-17**

Start Date: 2010.04.15 @ 07:45:00

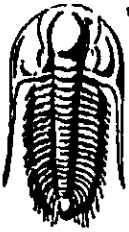
End Date: 2010.04.15 @ 13:10:12

Job Ticket #: 38891                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRIOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38891

DST#: 4

ATTN: Brad Rine

Test Start: 2010.04.15 @ 07:45:00

## GENERAL INFORMATION:

Formation: **LKC 'K**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 09:28:36

Time Test Ended: 13:10:12

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **37**

Interval: **4237.00 ft (KB) To 4270.00 ft (KB) (TVD)**

Reference Elevations: **3047.00 ft (KB)**

Total Depth: **4270.00 ft (KB) (TVD)**

**3042.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **5.00 ft**

Serial #: **8351**

Inside

Press@RunDepth: **27.13 psig @ 4240.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.04.15**

End Date: **2010.04.15**

Last Calib.: **2010.04.15**

Start Time: **07:45:01**

End Time: **13:10:11**

Time On Btm: **2010.04.15 @ 09:27:00**

Time Off Btm: **2010.04.15 @ 11:30:48**

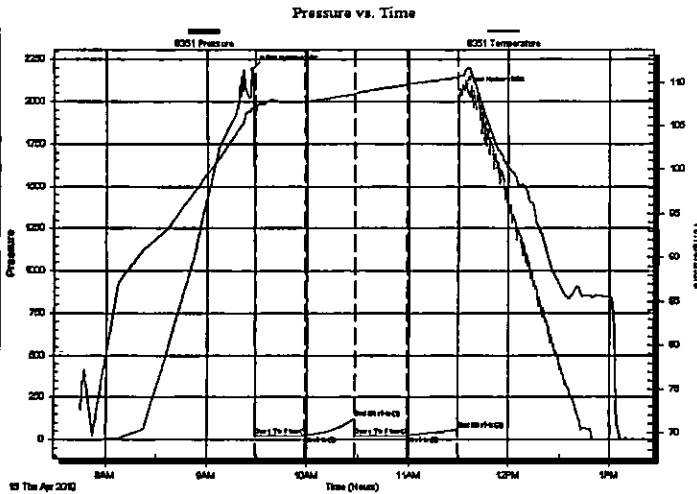
## TEST COMMENT:

IF: 1/2" Blow

IS: No return.

FF: No blow.

FS: No return.



## PRESSURE SUMMARY

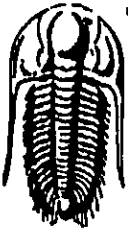
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2194.37	106.96	Initial Hydro-static
2	24.58	106.16	Open To Flow (1)
32	26.11	107.73	Shut-In(1)
62	125.40	108.62	End Shut-In(1)
62	26.19	108.61	Open To Flow (2)
92	27.13	109.74	Shut-In(2)
123	61.33	110.53	End Shut-In(2)
124	2069.58	110.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	M 100%M	0.05

## Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mc/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38891

**DST#: 4**

ATTN: Brad Rine

Test Start: 2010.04.15 @ 07:45:00

**Tool Information**

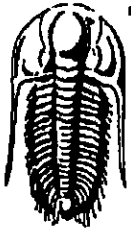
Drill Pipe:	Length: 4099.00 ft	Diameter: 3.80 inches	Volume: 57.50 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 95000.00 lb
			<b>Total Volume: 58.11 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.50 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4237.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	60.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4210.50	
Shut In Tool	5.00			4215.50	
Hydraulic tool	5.00			4220.50	
Jars	5.00			4225.50	
Safety Joint	2.50			4228.00	
Packer	5.00			4233.00	27.50 Bottom Of Top Packer
Packer	4.00			4237.00	
Stubb	1.00			4238.00	
Perforations	2.00			4240.00	
Recorder	0.00	8351	Inside	4240.00	
Recorder	0.00	8523	Outside	4240.00	
Perforations	25.00			4265.00	
Bullnose	5.00			4270.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 60.50**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38891

**DST#: 4**

ATTN: Brad Rine

Test Start: 2010.04.15 @ 07:45:00

## 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: 57.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	M 100%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

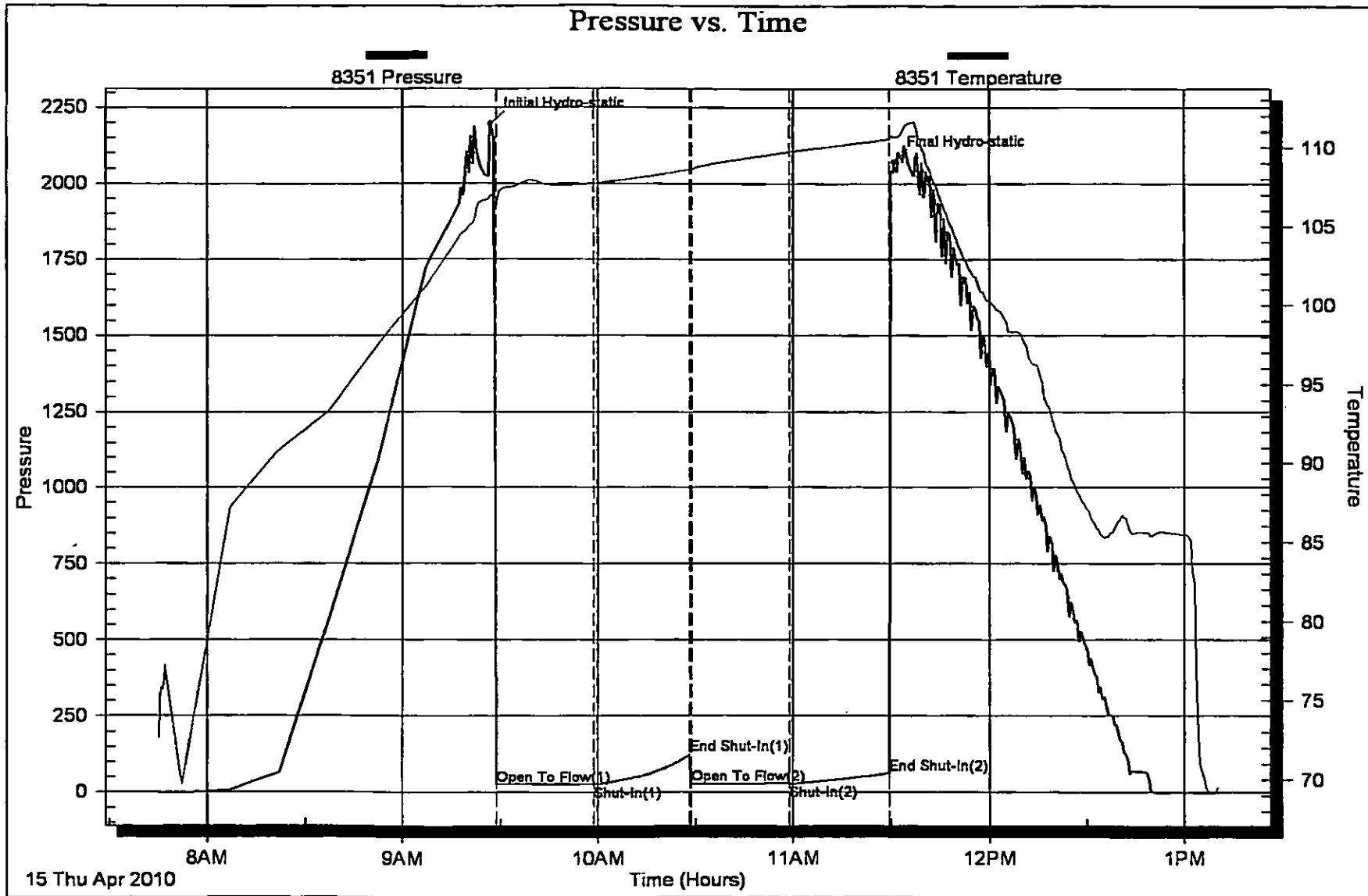
Num Gas Bombs: 0

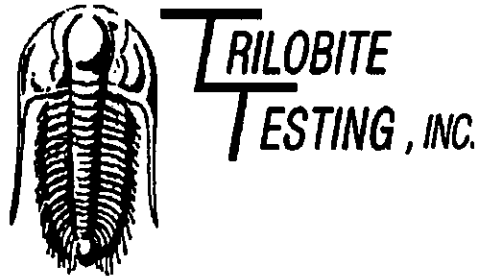
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company, Inc.**

202 W. Main St.  
Salem, IL 62881

ATTN: Brad Rine

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

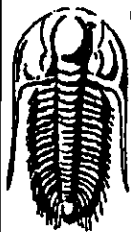
**Stoll #1-17**

Start Date: 2010.04.15 @ 19:50:00

End Date: 2010.04.16 @ 02:16:12

Job Ticket #: 38892                      DST #: 5

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38892

DST#: 5

ATTN: Brad Rine

Test Start: 2010.04.15 @ 19:50:00

## GENERAL INFORMATION:

Formation: LKC 'L'  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:23:00  
Time Test Ended: 02:16:12

Test Type: Conventional Bottom Hole  
Tester: Chuck Smith  
Unit No: 37

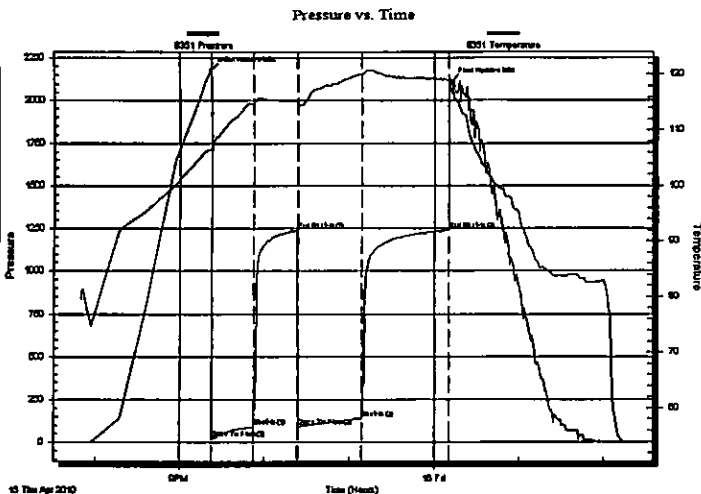
Interval: 4268.00 ft (KB) To 4289.00 ft (KB) (TVD)  
Total Depth: 4289.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3047.00 ft (KB)  
3042.00 ft (CF)  
KB to GR/CF: 5.00 ft

Serial #: 8351 Inside  
Press@RunDepth: 139.81 psig @ 4269.00 ft (KB)  
Start Date: 2010.04.15 End Date: 2010.04.16  
Start Time: 19:50:01 End Time: 02:16:11

Capacity: 8000.00 psig  
Last Calib.: 2010.04.16  
Time On Btm: 2010.04.15 @ 21:22:00  
Time Off Btm: 2010.04.16 @ 00:11:36

TEST COMMENT: IF: 8" Blow.  
IS: No return.  
FF: 9" Blow.  
FS: Weak return died at 5 min.



## PRESSURE SUMMARY

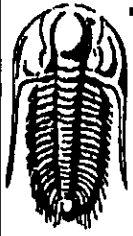
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2178.51	106.67	Initial Hydro-static
1	22.14	106.07	Open To Flow (1)
31	89.92	115.05	Shut-In(1)
62	1238.50	115.27	End Shut-In(1)
62	93.08	114.62	Open To Flow (2)
108	139.81	120.09	Shut-In(2)
169	1239.02	119.09	End Shut-In(2)
170	2110.89	118.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	MW 30%M 70%W	2.35
30.00	OCMW 20%O 40%M 40%W	0.42
0.00	RW: .175 @ 57 Degrees F = 50000 PPM	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

ATTN: Brad Rine

Job Ticket: 38892

DST#: 5

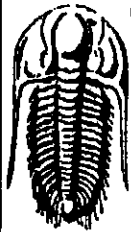
Test Start: 2010.04.15 @ 19:50:00

**Tool Information**

Drill Pipe:	Length: 4131.00 ft	Diameter: 3.80 inches	Volume: 57.95 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 58.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.50 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4268.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	48.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4241.50	
Shut In Tool	5.00			4246.50	
Hydraulic tool	5.00			4251.50	
Jars	5.00			4256.50	
Safety Joint	2.50			4259.00	
Packer	5.00			4264.00	27.50 Bottom Of Top Packer
Packer	4.00			4268.00	
Stubb	1.00			4269.00	
Recorder	0.00	8351	Inside	4269.00	
Recorder	0.00	8523	Outside	4269.00	
Perforations	15.00			4284.00	
Bullnose	5.00			4289.00	21.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>48.50</b>				



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38892

DST#: 5

ATTN: Brad Rine

Test Start: 2010.04.15 @ 19:50:00

## 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:

50000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
248.00	MW 30%M 70%W	2.349
30.00	OCMW 20%O 40%M 40%W	0.421
0.00	RW: .175 @ 57 Degrees F = 50000 PPM	0.000

Total Length: 278.00 ft

Total Volume: 2.770 bbf

Num Fluid Samples: 0

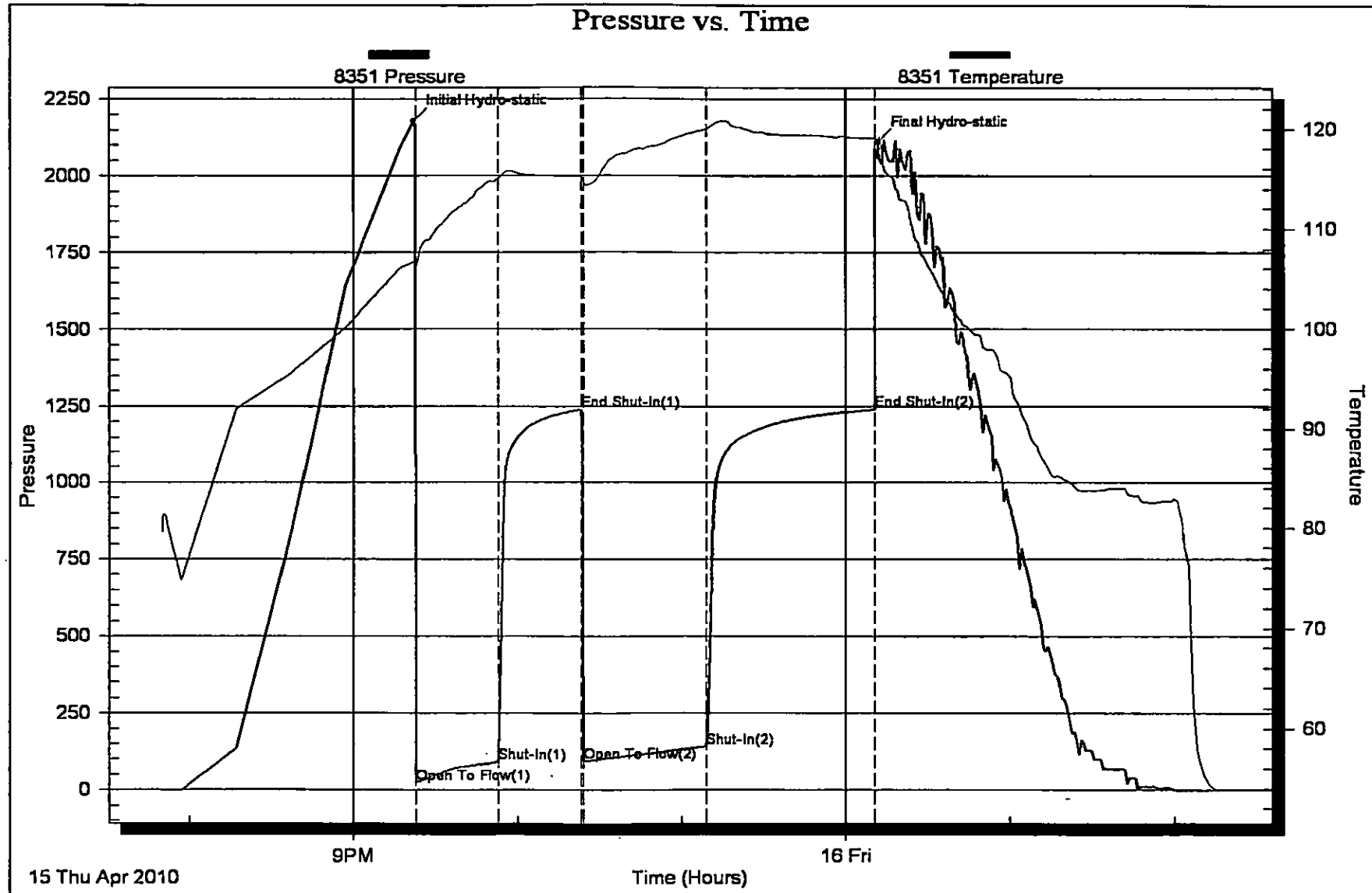
Num Gas Bombs: 0

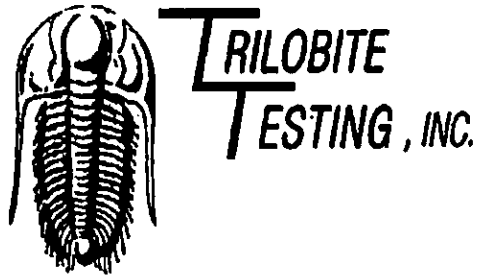
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company, Inc.**

202 W. Main St.  
Salem, IL 62881

ATTN: Brad Rine

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

**Stoll #1-17**

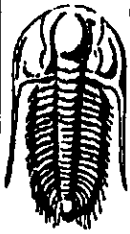
Start Date: 2010.04.17 @ 00:18:00

End Date: 2010.04.17 @ 07:41:12

Job Ticket #: 38893                      DST #: 6

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38893

DST#: 6

ATTN: Brad Rine

Test Start: 2010.04.17 @ 00:18:00

## GENERAL INFORMATION:

Formation: **Myric St., Ft. Scott**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 02:16:24

Time Test Ended: 07:41:12

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **37**

Interval: **4484.00 ft (KB) To 4545.00 ft (KB) (TVD)**

Reference Elevations: **3047.00 ft (KB)**

Total Depth: **4545.00 ft (KB) (TVD)**

**3042.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **5.00 ft**

Serial #: **8351** Inside

Press@RunDepth: **56.51 psig @ 4487.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.04.17**

End Date: **2010.04.17**

Last Calib.: **2010.04.17**

Start Time: **00:18:01**

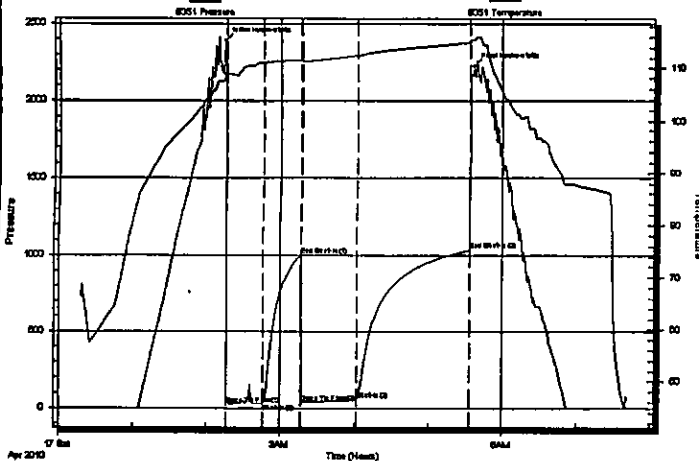
End Time: **07:41:11**

Time On Btm: **2010.04.17 @ 02:14:24**

Time Off Btm: **2010.04.17 @ 05:36:00**

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

Pressure vs. Time



## PRESSURE SUMMARY

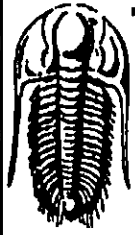
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2390.34	108.41	Initial Hydro-static
2	25.67	108.84	Open To Flow (1)
32	33.67	111.05	Shut-In(1)
63	999.89	111.67	End Shut-In(1)
63	42.19	111.43	Open To Flow (2)
108	56.51	112.50	Shut-In(2)
199	1032.32	114.99	End Shut-In(2)
202	2223.68	115.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volums (bbl)
130.00	M 100%M	0.69
0.00	Spots oil in tool	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company, Inc.

Stoll #1-17

202 W. Main St.  
Salem, IL 62881

17-13-32 Logan, KS

Job Ticket: 38893

DST#: 6

ATTN: Brad Rine

Test Start: 2010.04.17 @ 00:18:00

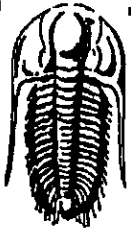
### Tool Information

Drill Pipe:	Length: 4350.00 ft	Diameter: 3.80 inches	Volume: 61.02 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 61.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.50 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4484.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	88.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4457.50	
Shut In Tool	5.00			4462.50	
Hydraulic tool	5.00			4467.50	
Jars	5.00			4472.50	
Safety Joint	2.50			4475.00	
Packer	5.00			4480.00	27.50 Bottom Of Top Packer
Packer	4.00			4484.00	
Stubb	1.00			4485.00	
Perforations	2.00			4487.00	
Recorder	0.00	8351	Inside	4487.00	
Recorder	0.00	8523	Outside	4487.00	
Perforations	20.00			4507.00	
Change Over Sub	1.00			4508.00	
Drill Pipe	31.00			4539.00	
Change Over Sub	1.00			4540.00	
Bullnose	5.00			4545.00	61.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>88.50</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Shakespeare Oil Company, Inc.  
202 W. Main St.  
Salem, IL 62881  
ATTN: Brad Rine

**Stoll #1-17**  
**17-13-32 Logan, KS**  
Job Ticket: 38893      DST#: 6  
Test Start: 2010.04.17 @ 00:18:00

**Mud and Cushion Information**

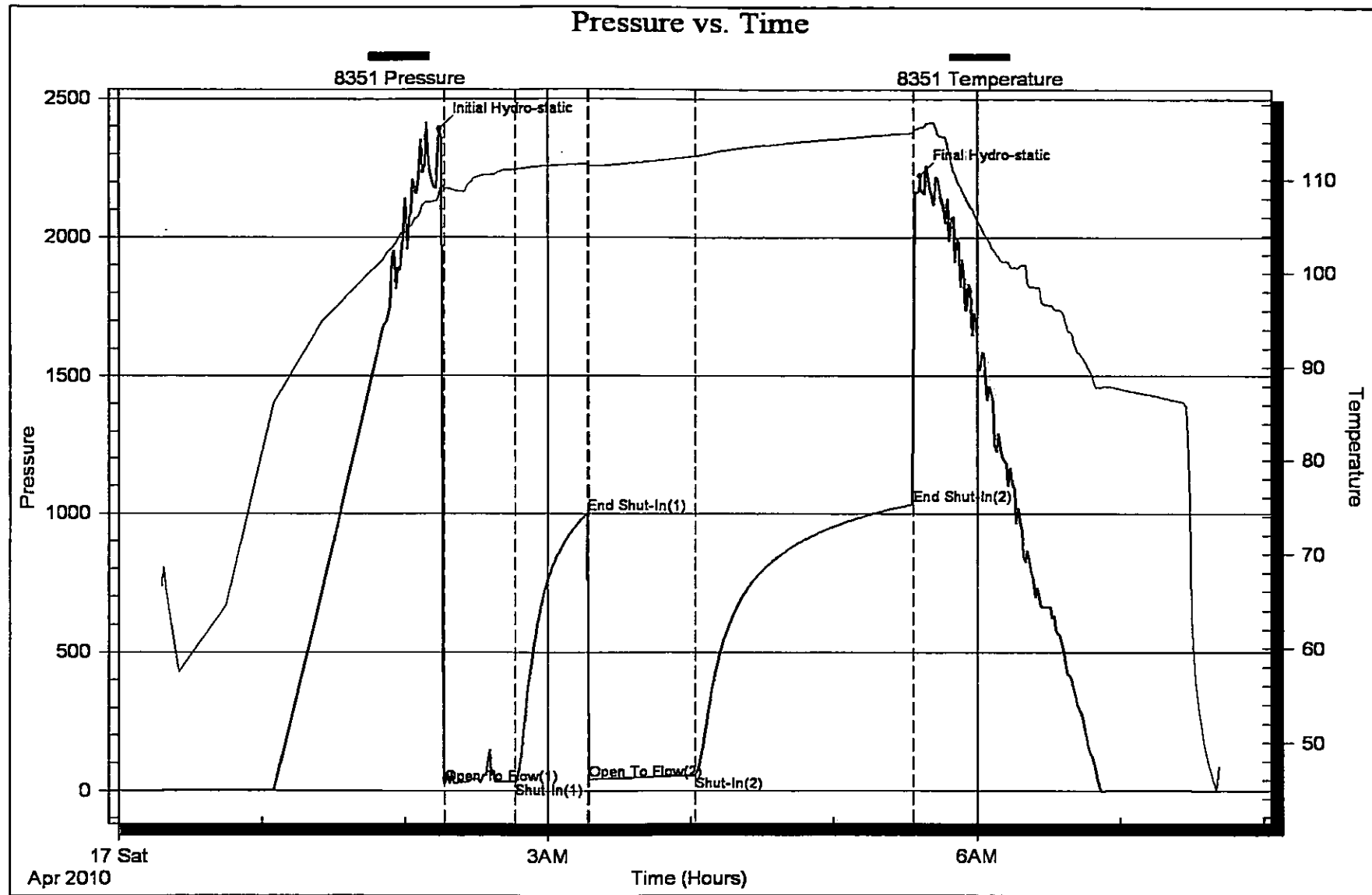
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.54 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5400.00 ppm			
Filter Cake: 2.00 inches			

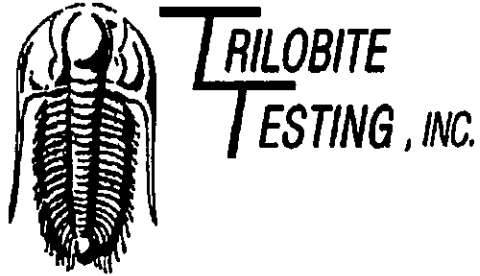
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
130.00	M 100%M	0.694
0.00	Spots oil in tool	0.000

Total Length: 130.00 ft      Total Volume: 0.694 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company, Inc.**

202 W. Main St.  
Salem, IL 62881

ATTN: Brad Rine

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

**Stoll #1-17**

Start Date: 2010.04.17 @ 00:18:00

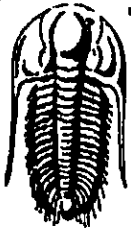
End Date: 2010.04.17 @ 07:41:12

Job Ticket #: 38893                      DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

Stoll #1-17

202 W. Main St.  
Salem, IL 62881

17-13-32 Logan, KS

ATTN: Brad Rine

Job Ticket: 38893      DST#: 6

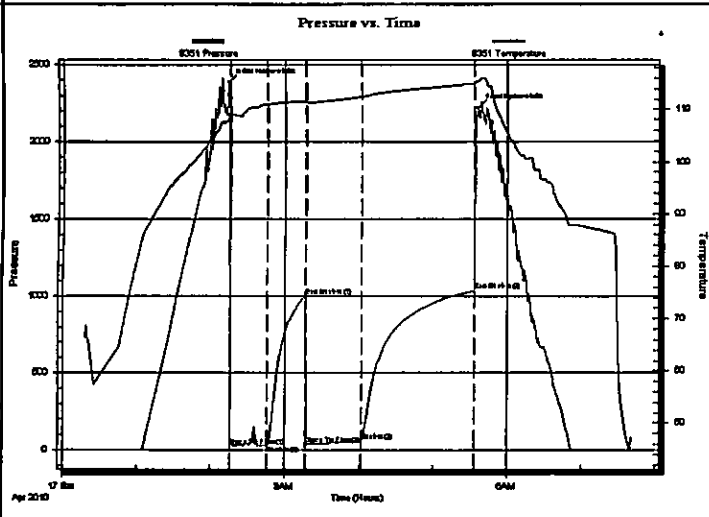
Test Start: 2010.04.17 @ 00:18:00

### GENERAL INFORMATION:

Formation: Myric St., Ft. Scott  
 Deviated: No Whipstock      ft (KB)  
 Time Tool Opened: 02:16:24  
 Time Test Ended: 07:41:12  
 Interval: 4484.00 ft (KB) To 4545.00 ft (KB) (TVD)  
 Total Depth: 4545.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Chuck Smith  
 Unit No: 37  
 Reference Elevations: 3047.00 ft (KB)  
 3042.00 ft (CF)  
 KB to GR/CF: 5.00 ft

Serial #: 8351      Inside  
 Press@RunDepth: 56.51 psig @ 4487.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2010.04.17      End Date: 2010.04.17      Last Calib.: 2010.04.17  
 Start Time: 00:18:01      End Time: 07:41:11      Time On Btm: 2010.04.17 @ 02:14:24  
 Time Off Btm: 2010.04.17 @ 05:36:00

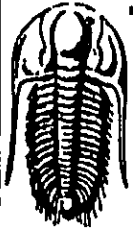
TEST COMMENT: IF: 1 1/4" Blow.  
 IS: No return.  
 FF: Surface blow.  
 FS: No return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2390.34	108.41	Initial Hydro-static
2	25.67	108.84	Open To Flow (1)
32	33.67	111.05	Shut-In(1)
63	999.89	111.67	End Shut-In(1)
63	42.19	111.43	Open To Flow (2)
108	56.51	112.50	Shut-In(2)
199	1032.32	114.99	End Shut-In(2)
202	2223.68	115.53	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
130.00	M 100%M	0.69
0.00	Spots oil in tool	0.00

Gas Rates			
	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

ATTN: Brad Rine

Job Ticket: 38893

DST#: 6

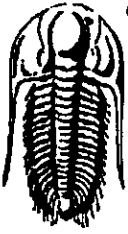
Test Start: 2010.04.17 @ 00:18:00

**Tool Information**

Drill Pipe:	Length: 4350.00 ft	Diameter: 3.80 inches	Volume: 61.02 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 61.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.50 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4484.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	88.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4457.50	
Shut In Tool	5.00			4462.50	
Hydraulic tool	5.00			4467.50	
Jars	5.00			4472.50	
Safety Joint	2.50			4475.00	
Packer	5.00			4480.00	27.50 Bottom Of Top Packer
Packer	4.00			4484.00	
Stubb	1.00			4485.00	
Perforations	2.00			4487.00	
Recorder	0.00	8351	inside	4487.00	
Recorder	0.00	8523	Outside	4487.00	
Perforations	20.00			4507.00	
Change Over Sub	1.00			4508.00	
Drill Pipe	31.00			4539.00	
Change Over Sub	1.00			4540.00	
Bullnose	5.00			4545.00	61.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>88.50</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38893

**DST#: 6**

ATTN: Brad Rine

Test Start: 2010.04.17 @ 00:18:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil APt:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.54 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5400.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	M 100%M	0.694
0.00	Spots oil in tool	0.000

Total Length: 130.00 ft      Total Volume: 0.694 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

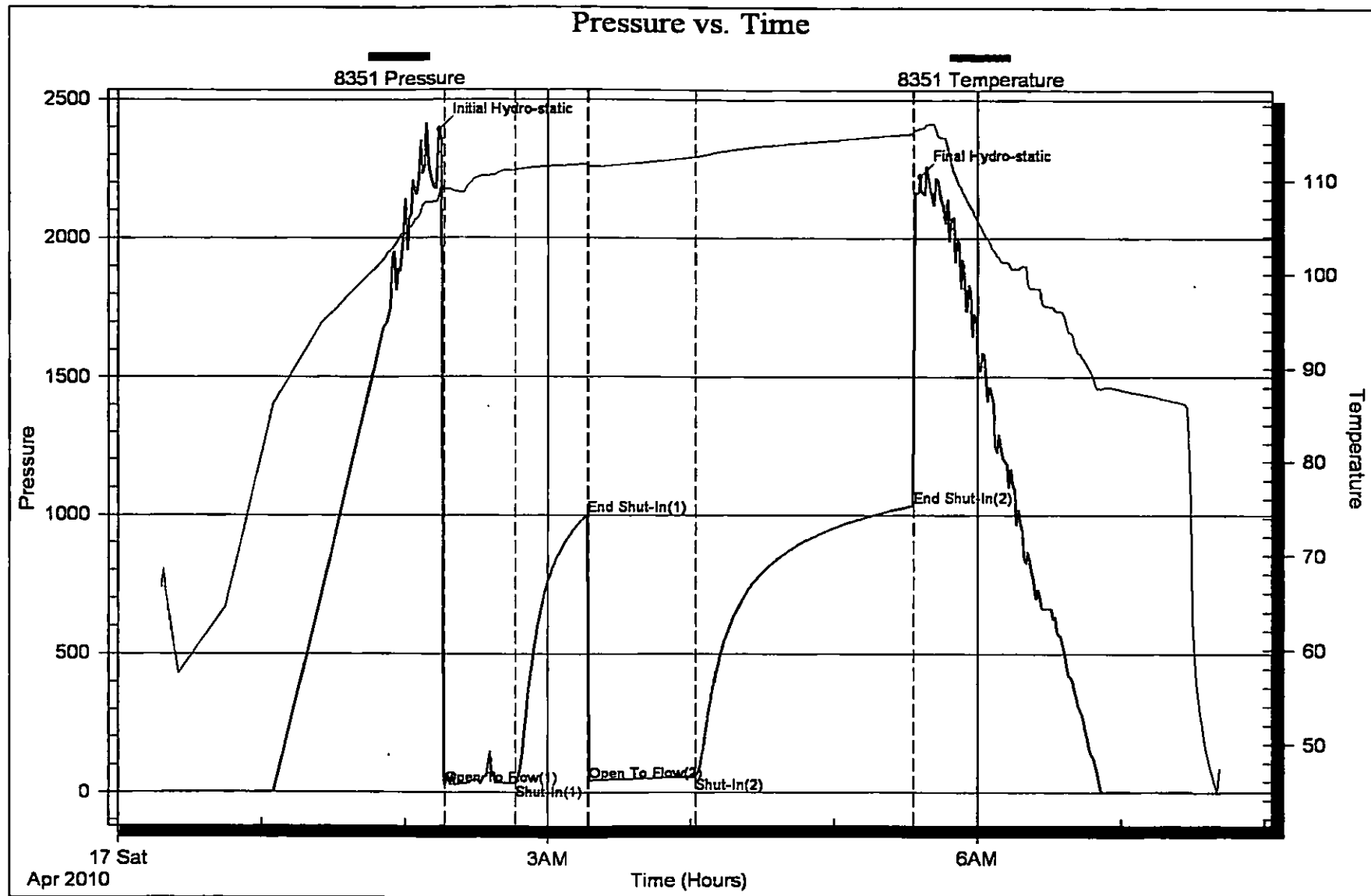
Serial #:

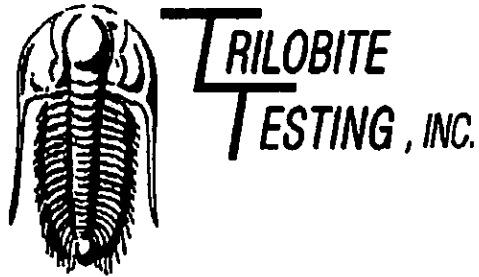
Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company, Inc.**

202 W. Main St.  
Salem, IL 62881

ATTN: Brad Rine

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

**Stoll #1-17**

Start Date: 2010.04.17 @ 20:10:00

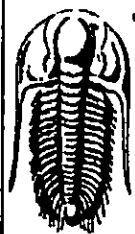
End Date: 2010.04.18 @ 04:15:36

Job Ticket #: 38894                      DST #: 7

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

Stoll #1-17

202 W. Main St.  
Salem, IL 62881

17-13-32 Logan, KS

ATTN: Brad Rine

Job Ticket: 38894 DST#: 7

Test Start: 2010.04.17 @ 20:10:00

## GENERAL INFORMATION:

Formation: Cherokee, Johnson

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:07:48

Time Test Ended: 04:15:36

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 4544.00 ft (KB) To 4630.00 ft (KB) (TVD)

Total Depth: 4630.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3047.00 ft (KB)

3042.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8351

Inside

Press@RunDepth: 156.45 psig @ 4545.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.17

End Date: 2010.04.18

Last Calib.: 2010.04.18

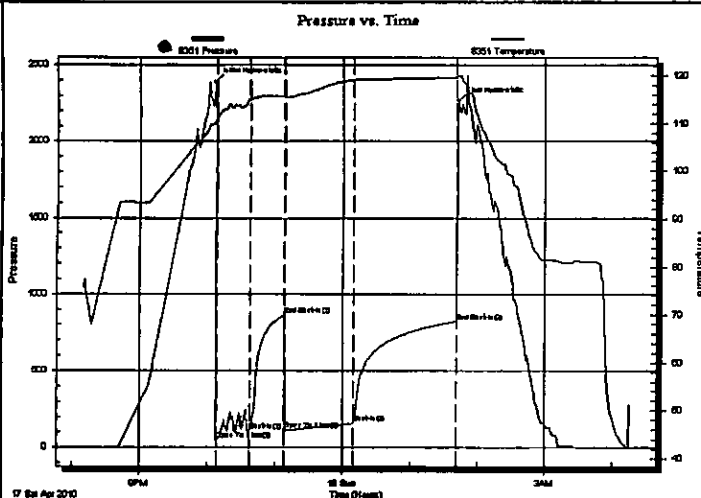
Start Time: 20:10:01

End Time: 04:15:36

Time On Btm: 2010.04.17 @ 22:06:24

Time Off Btm: 2010.04.18 @ 01:42:36

TEST COMMENT: IF: 10" Blow.  
IS: No return.  
FF: B.O.B. @ 27 min.  
FST: 1/2" Return receded to surface return.



## PRESSURE SUMMARY

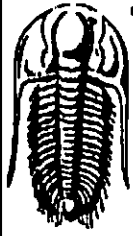
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2392.31	110.57	Initial Hydro-static
2	49.73	110.01	Open To Flow (1)
32	110.20	115.07	Shut-In(1)
62	866.60	115.91	End Shut-In(1)
63	114.33	115.67	Open To Flow (2)
123	156.45	119.10	Shut-In(2)
215	821.79	119.64	End Shut-In(2)
217	2268.48	120.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
155.00	GEulsionWCM 5%G 10%E 15%W 70%M 1.04	
124.00	GVMCOEmulsion 15%G 10%W 20%M 201.74 35%E	
0.00	RW: 275 @ 60 Degrees F = 30000 PPM	0.00
0.00	186 Feet Weak GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38894

**DST#: 7**

ATTN: Brad Rine

Test Start: 2010.04.17 @ 20:10:00

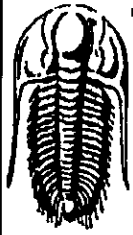
### Tool Information

Drill Pipe:	Length: 4412.00 ft	Diameter: 3.80 inches	Volume: 61.89 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 62.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.50 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4544.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	113.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4517.50	
Shut In Tool	5.00			4522.50	
Hydraulic tool	5.00			4527.50	
Jars	5.00			4532.50	
Safety Joint	2.50			4535.00	
Packer	5.00			4540.00	27.50 Bottom Of Top Packer
Packer	4.00			4544.00	
Stubb	1.00			4545.00	
Recorder	0.00	8351	inside	4545.00	
Recorder	0.00	8523	Outside	4545.00	
Perforations	15.00			4560.00	
Change Over Sub	1.00			4561.00	
Drill Pipe	63.00			4624.00	
Change Over Sub	1.00			4625.00	
Bullnose	5.00			4630.00	86.00 Bottom Packers & Anchor

**Total Tool Length: 113.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38894

DST#: 7

ATTN: Brad Rine

Test Start: 2010.04.17 @ 20:10:00

## 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:

30000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.35 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
155.00	GEmulsionWCM 5%G 10%E 15%W 70%M	1.045
124.00	GWMCOEmulsion 15%G 10%W 20%M 20%O	1.739
0.00	RW: 275 @ 60 Degrees F = 30000 PPM	0.000
0.00	186 Feet Weak GIP	0.000

Total Length: 279.00 ft

Total Volume: 2.784 bbl

Num Fluid Samples: 0

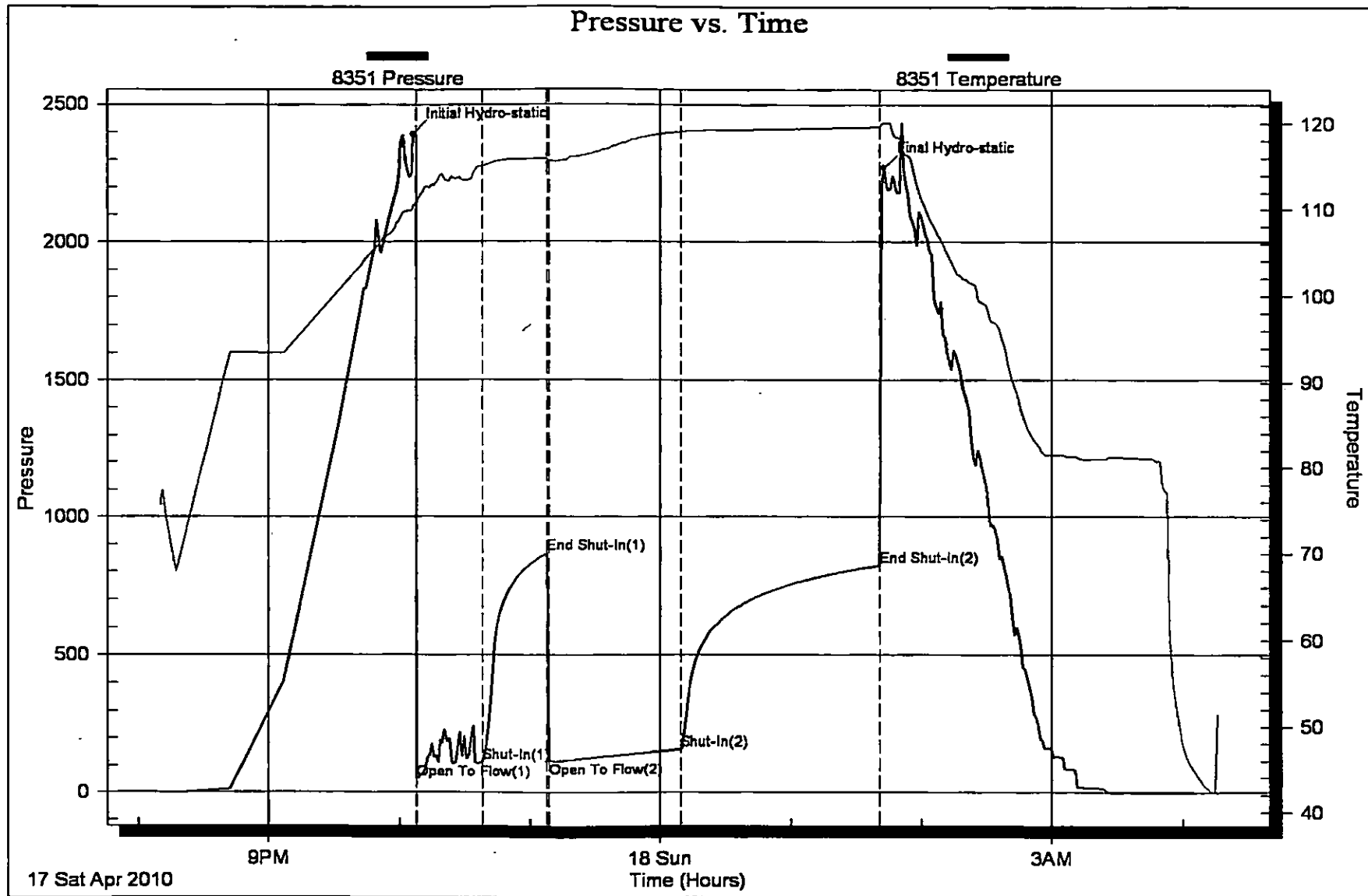
Num Gas Bombs: 0

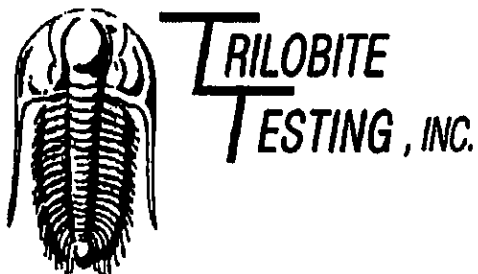
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .275 @ 60F = 30000 chlorides





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company, Inc.**

202 W. Main St.  
Salem, IL 62881

ATTN: Brad Rine

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

**Stoll #1-17**

Start Date: 2010.04.18 @ 23:47:00

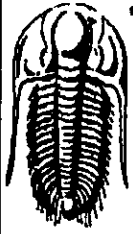
End Date: 2010.04.19 @ 08:08:47

Job Ticket #: 38895                      DST #: 8

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

Stoll #1-17

202 W. Main St.  
Salem, IL 62881

17-13-32 Logan, KS

Job Ticket: 38895

DST#: 8

ATTN: Brad Fine

Test Start: 2010.04.18 @ 23:47:00

### GENERAL INFORMATION:

Formation: **Johnson**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 01:54:12

Time Test Ended: 08:08:47

Test Type: **Conventional Straddle**

Tester: **Chuck Smith**

Unit No: **37**

Interval: **4601.00 ft (KB) To 4620.00 ft (KB) (TVD)**

Reference Elevations: **3047.00 ft (KB)**

Total Depth: **4725.00 ft (KB) (TVD)**

**3042.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **5.00 ft**

Serial #: **8351** Inside

Press@RunDepth: **153.44 psig @ 4606.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.04.18**

End Date:

**2010.04.19**

Last Calib.: **2010.04.19**

Start Time: **23:47:01**

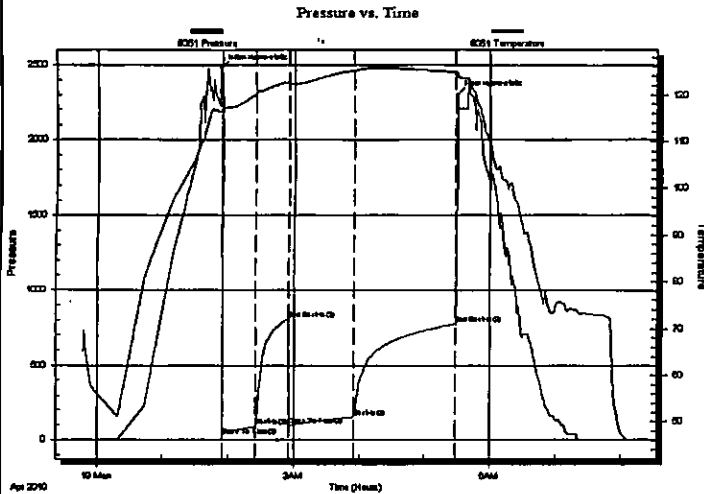
End Time:

**08:08:48**

Time On Btrc: **2010.04.19 @ 01:52:48**

Time Off Btrc: **2010.04.19 @ 05:29:24**

TEST COMMENT: IF: B.O.B. @ 24 min.  
1st Weak surface return, died @ 15 min.  
FF: B.O.B. @ 36 min.  
FSt 1 1/2" Return, died @ 80 min.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2478.89	116.61	Initial Hydro-static
2	26.97	116.60	Open To Flow (1)
32	90.11	120.14	Shut-In (1)
63	808.10	122.75	End Shut-In (1)
63	95.65	122.58	Open To Flow (2)
123	153.44	125.13	Shut-In (2)
215	772.52	124.85	End Shut-In (2)
217	2303.41	124.61	Final Hydro-static

### Recovery

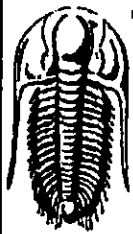
Length (ft)	Description	Volume (bbl)
62.00	OSMW 5%M 95%W	0.30
124.00	GOCMW 2%G 3%O 10%M 85%W	1.17
124.00	GOCMW 15%G 12%O 18%M 55%W	1.74
20.00	GOCMW 5%G 10%O 25%W 60%M	0.28
0.00	RW: .236 @ 55 Degrees F = 35000 PPM	0.00
0.00	225 Feet GP	0.00

### Gas Rates

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







**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salern, IL 62881

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

ATTN: Brad Rine

Job Ticket: 38895

DST#: 8

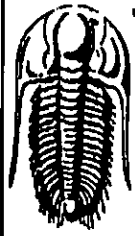
Test Start: 2010.04.18 @ 23:47:00

### Tool Information

Drill Pipe:	Length: 4475.00 ft	Diameter: 3.80 inches	Volume: 62.77 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.50 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4601.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	4620.00 ft			
Interval between Packers:	19.00 ft			
Tool Length:	151.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4574.50	
Shut In Tool	5.00			4579.50	
Hydraulic tool	5.00			4584.50	
Jars	5.00			4589.50	
Safety Joint	2.50			4592.00	
Packer	5.00			4597.00	27.50 Bottom Of Top Packer
Packer	4.00			4601.00	
Stubb	1.00			4602.00	
Perforations	4.00			4606.00	
Recorder	0.00	8351	Inside	4606.00	
Recorder	0.00	8523	Inside	4606.00	
Perforations	10.00			4616.00	
Blank Off Sub	1.00			4617.00	
top of s pack	3.00			4620.00	19.00 Tool Interval
Packer	1.00			4621.00	
Stubb	1.00			4622.00	
Perforations	3.00			4625.00	
Recorder	0.00	8359	Outside	4625.00	
Change Over Sub	1.00			4626.00	
Drill Pipe	93.00			4719.00	
Change Over Sub	1.00			4720.00	
Bullnose	5.00			4725.00	105.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>151.50</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Company, Inc.

**Stoll #1-17**

202 W. Main St.  
Salem, IL 62881

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

Job Ticket: 38895

DST#: 8

ATTN: Brad Rine

Test Start: 2010.04.18 @ 23:47:00

## 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:

35000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	OSMW 5%M 95%W	0.305
124.00	GOCMW 2%G 3%O 10%M 85%W	1.175
124.00	GOCMW 15%G 12%O 18%M 55%W	1.739
20.00	GOCWM 5%G 10%O 25%W 60%M	0.281
0.00	RW: .235 @ 55 Degrees F = 35000 PPM	0.000
0.00	225 Feet GIP	0.000

Total Length: 330.00 ft

Total Volume: 3.500 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

