

## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company**

202 West Main St.  
Salem IL 62881

ATTN: Tom Larson

**10-13S-32W Logan KS**

**Teeter owwo #1-10**

Start Date: 2004.07.21 @ 01:18:04

End Date: 2004.07.21 @ 00:00:00

Job Ticket #: 19042                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Shakespeare Oil Company

Teeter owwo #1-10

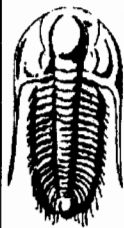
10-13S-32W Logan KS

DST # 1

Johnson

2004.07.21

149054



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Company

**Teeter owwo #1-10**

202 West Main St.  
Salem IL 62881

**10-13S-32W Logan KS**

ATTN: Tom Larson

Job Ticket: 19042      **DST#: 1**

Test Start: 2004.07.21 @ 01:18:04

**GENERAL INFORMATION:**

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4541.00 ft (KB) To 4609.00 ft (KB) (TVD)**

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4729.00 ft (KB) (TVD)

3028.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 6798**

Inside

Press@RunDepth: 57.93 psig @ 4542.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.07.21

End Date: 2004.07.21

Last Calib.: 1899.12.30

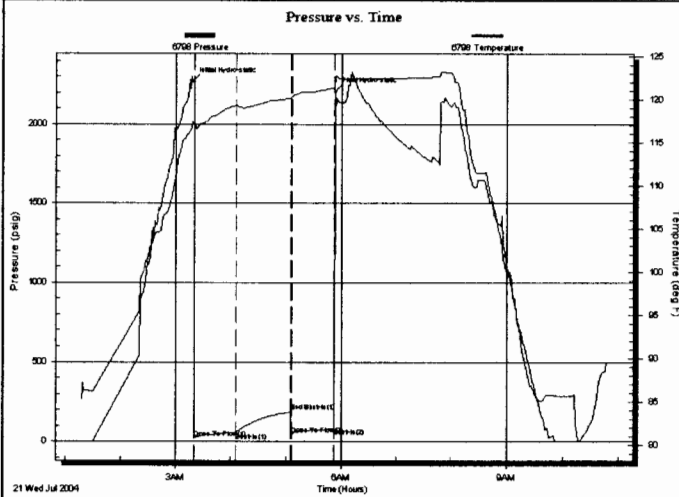
Start Time: 01:18:06

End Time: 10:47:34

Time On Btm: 2004.07.21 @ 03:18:19

Time Off Btm: 2004.07.21 @ 05:53:34

**TEST COMMENT:** IF; Weak to fair buiilt to 7" (Tool slid 3" before open)  
IS; No return blow  
FF; Weak to fair off bttm in 27 mins. (Lost packer seat @47 mins into)  
FS; No return blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2270.77	117.34	Initial Hydro-static
2	18.45	116.22	Open To Flow (1)
48	57.93	119.33	Shut-In(1)
107	185.90	120.16	End Shut-In(1)
108	45.07	120.39	Open To Flow (2)
155	82.63	121.33	Shut-In(2)
156	2208.01	122.70	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
60.00	SGOWCM 15%g 10%o 20%w 55%m	0.30
85.00	SGOWC"M 15%g 5%o 15%w 65%m	0.42

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Company

**Teeter owwo #1-10**

202 West Main St.  
Salem IL 62881

**10-13S-32W Logan KS**

Job Ticket: 19042

**DST#: 1**

ATTN: Tom Larson

Test Start: 2004.07.21 @ 01:18:04

### Tool Information

Drill Pipe:	Length: 4340.00 ft	Diameter: 3.80 inches	Volume: 60.88 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 250000.0 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.77 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4541.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	188.00 ft			
Tool Length:	214.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4520.00	
Hydraulic tool	5.00			4525.00	
Jars	5.00			4530.00	
Safety Joint	2.00			4532.00	
Packer	5.00			4537.00	26.00 Bottom Of Top Packer
Packer	4.00			4541.00	
Stubb	1.00			4542.00	
Recorder	0.00	6798	Inside	4542.00	
Anchor	24.00			4566.00	
Change Over Sub	1.00			4567.00	
Anchor	31.00			4598.00	
Change Over Sub	1.00			4599.00	
Recorder	0.00	13371	Outside	4599.00	
Anchor	5.00			4604.00	
Blank Off Sub	1.00			4605.00	188.00 Tool Interval
Packer	4.00			4609.00	
Stubb	1.00			4610.00	
Anchor	19.00			4629.00	
Change Over Sub	1.00			4630.00	
Anchor	93.00			4723.00	
Change Over Sub	1.00			4724.00	
Recorder	0.00	13276	Below	4724.00	
Bullnose	5.00			4729.00	1000213.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>214.00</b>				



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TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Company

**Teeter owwo #1-10**

202 West Main St.  
Salem IL 62881

**10-13S-32W Logan KS**

Job Ticket: 19042      **DST#: 1**

ATTN: Tom Larson

Test Start: 2004.07.21 @ 01:18:04

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 19000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SGOWCM 15%g 10%o 20%w 55%m	0.295
85.00	SGOWC*M 15%g 5%o 15%w 65%m	0.418

Total Length: 145.00 ft      Total Volume: 0.713 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 6798

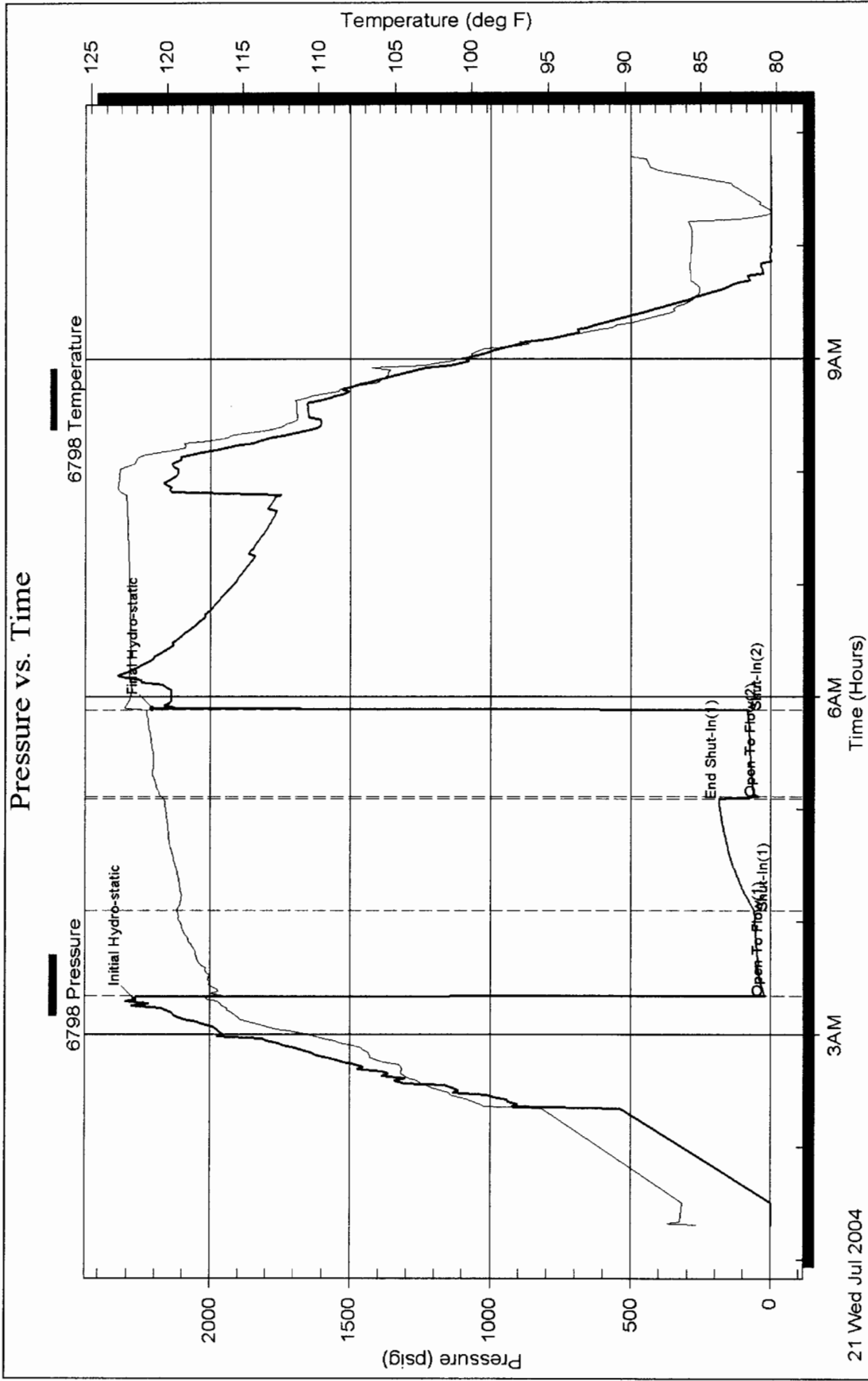
Inside

Shakespeare Oil Company

10-13S-32W Logan KS

DST Test Number: 1

### Pressure vs. Time

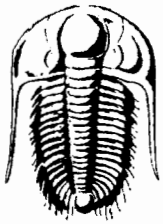


21 Wed Jul 2004

Trilobite Testing, Inc

Ref. No: 19042

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

*INV 6625*

No. 19042

05/03

## Test Ticket

Well Name & No. Teeter #1 DWVO Test No. 1 Date 7-21-04  
 Company Shakespeare Oil Company Zone Tested Johnson  
 Address 202 West Main St. Salem IL. 62881 Elevation 3033 KB 3028 GL  
 Co. Rep / Geo. Tom Larson Cont. Murfin #24 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 10 Twp. 13<sup>S</sup> Rge. 32<sup>W</sup> Co. Logan State KS.  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4541 - 4609 Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 60,000  
 Anchor Length 68' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 90,000  
 Top Packer Depth 4536 - 4541 Tool Weight 3,500  
 Bottom Packer Depth 4609 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth (LTD) 4729 Wt. Pipe Run — Drill Collar Run 181'  
 Mud Wt. 9.0 LCM \_\_\_\_\_ Vis. 46 WL 10.4 Drill Pipe Size 4 1/2" xH Ft. Run 4340'

Blow Description IF: Weak to fair built to 7" (Tool slid 3' before open)  
ISI: No return blow  
FF: Weak to fair built to bttm in 27 mins. (lost pkr seat 47 mins)  
FSI: No return blow

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>145'</u>	<u>—</u>	<u>145'</u>	<u>—</u>
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____
Rec. <u>145'</u> Feet of _____	%gas _____	%oil _____	%water _____
Rec. <u>85'</u> Feet of <u>SGDWCM</u>	<u>15</u> %gas	<u>5</u> %oil	<u>15</u> %water <u>65</u> %mud
Rec. <u>60'</u> Feet of <u>SGDWCM</u>	<u>15</u> %gas	<u>10</u> %oil	<u>20</u> %water <u>55</u> %mud
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____
BHT <u>120°</u> °F Gravity _____	°API D @ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery <u>24,000</u> Chlorides <u>19,000</u> ppm	System _____

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2270</u> PSI		<u>6798</u>	
(B) First Initial Flow Pressure	<u>18</u> PSI		(depth) <u>4542</u>	Elec. Rec. <u>X</u>
(C) First Final Flow Pressure	<u>57</u> PSI		Recorder No. <u>13371</u>	Jars <u>X</u>
(D) Initial Shut-In Pressure	<u>185</u> PSI		(depth) <u>4599</u>	Safety Jt. <u>X</u>
(E) Second Initial Flow Pressure	<u>45</u> PSI		Recorder No. <u>13276</u>	Circ Sub <u>X</u> <u>N/c</u>
(F) Second Final Flow Pressure	<u>82</u> PSI		(depth) <u>4724</u>	Sampler _____
(G) Final Shut-In Pressure	_____ PSI	Initial Opening	<u>45</u>	Straddle <u>X</u>
(Q) Final Hydrostatic Mud	<u>2153</u> PSI	Initial Shut-In	<u>60</u>	Ext. Packer <u>X</u>
		Final Flow	<u>60 47</u>	Shale Packer _____
		Final Shut-In	<u>90</u>	Mileage <u>1 way 35</u>
		T-On Location	<u>2400 7-20</u>	Sub Total: <u>1709.50</u>
		T-Started	<u>118 0300 7-21</u>	Std. By <u>4 hrs 120</u>
		T-Open	<u>0320</u>	Other _____
		T-Pulled	<u>0748</u>	Total: <u>1829.50</u>
		T-Out	<u>1047</u>	

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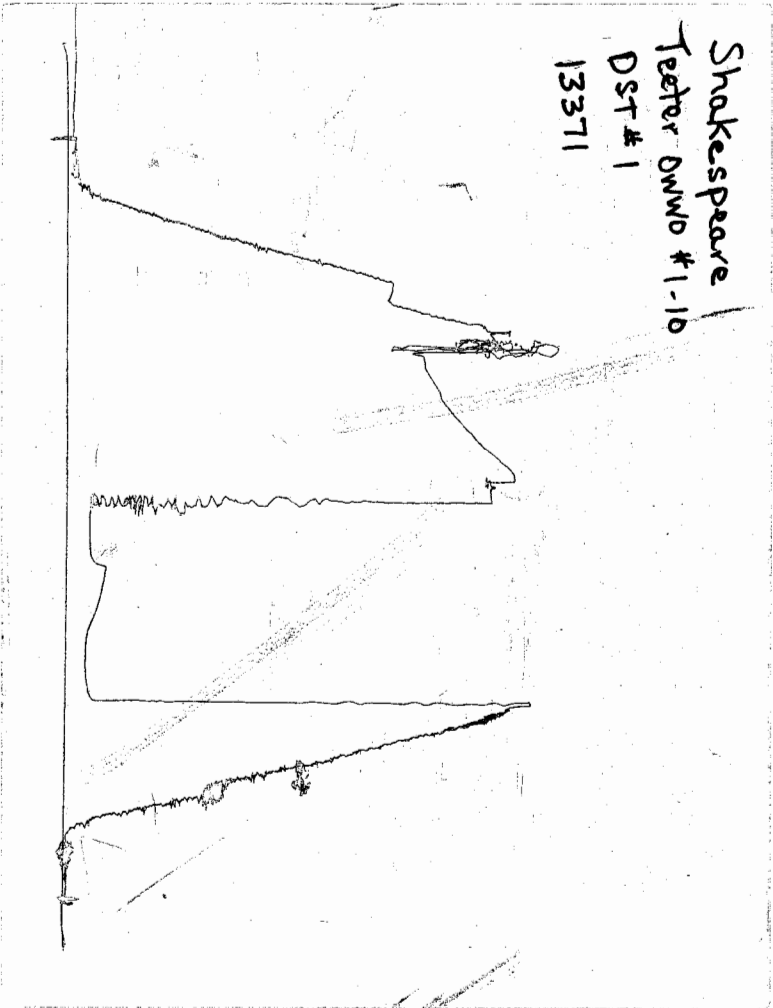
Approved By T.C. Larson  
 Our Representative Rod Steinbrink

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# CHART PAGE

This is a photocopy of the actual AK-1 recorder chart



# CHART PAGE

This is a photocopy of the actual AK-1 recorder chart

Shakespeare Oil  
Teeter #1 BWO  
DST #1  
13276  
Straddle

