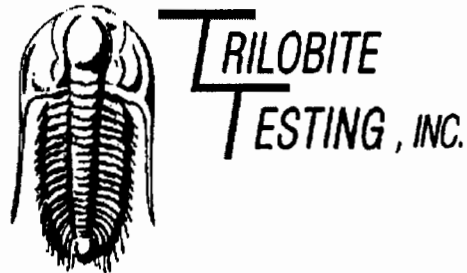


15-109-20689

10-13s-32w



DRILL STEM TEST REPORT

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

202 W Main St
Salem, Il 62881

ATTN: Shakespeare Oil Co ,

10-13-32 Logan,Ks

Teeter #1

Start Date: 2002.09.30 @ 05:07:02

End Date: 2002.09.30 @ 12:04:46

Job Ticket #: 15191 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Shakespeare Oil Co, Inc.

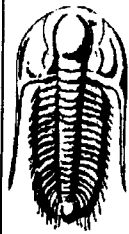
Teeter #1

10-13-32 Logan,Ks

DST # 1

KC "J-K"

2002.09.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc.

Teeter #1

202 W Main St
Salem, # 62881

10-13-32 Logan, Ks

Job Ticket: 15191

DST#: 1

ATTN: Shakespeare Oil Co, , # 62881

Test Start: 2002.09.30 @ 05:07:02

GENERAL INFORMATION:

Formation: **KC "J-K"**

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

Time Tool Opened: 07:38:01

Time Test Ended: 12:04:46

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **15**

Interval: **4264.00 ft (KB) To 4325.00 ft (KB) (TVD)**

Reference Elevations: **3031.00 ft (KB)**

Total Depth: **4325.00 ft (KB) (TVD)**

3026.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: 5.00 ft

Serial #: 3227

Inside

Press@RunDepth: **126.60 psig @ 4265.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2002.09.30**

End Date: **2002.09.30**

Last Calib.: **1899.12.30**

Start Time: **05:07:02**

End Time: **12:04:46**

Time On Btm: **2002.09.30 @ 07:37:46**

Time Off Btm: **2002.09.30 @ 10:08:31**

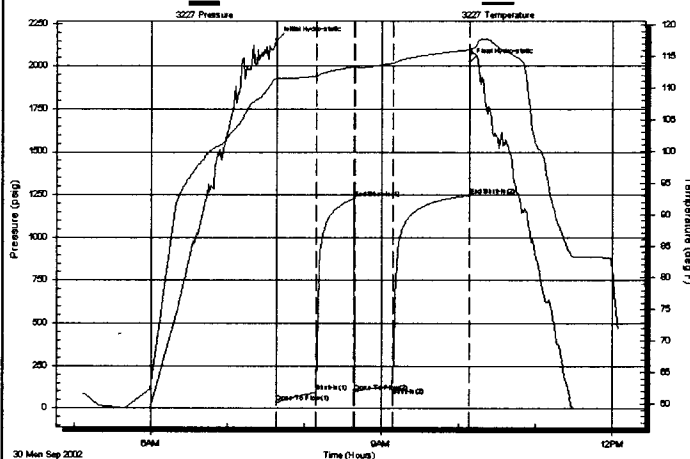
TEST COMMENT: **1/4" in @ open , built to 4" in.**

No return

Surface blow in 3 min. , built to 2" in.

No return

Pressure vs. Time



PRESSURE SUMMARY

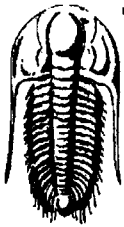
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2153.75	111.56	Initial Hydro-static
1	32.65	111.43	Open To Flow (1)
32	94.49	111.92	Shut-In(1)
61	1227.63	113.38	End Shut-In(1)
62	99.52	113.29	Open To Flow (2)
91	126.60	113.94	Shut-In(2)
151	1246.80	116.06	End Shut-In(2)
151	2026.26	116.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	s w c m 10%w 90% m w/oil scum on t	0.15
184.00	s m c w 10%m 90%w heavy oil scum i	1.18

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co., Inc.

Teeter #1

202 W Main St
Salem, IL 62881

10-13-32 Logan, Ks

Job Ticket: 15191

DST#: 1

ATTN: Shakespeare Oil Co., IL 62881

Test Start: 2002.09.30 @ 05:07:02

Tool Information

Drill Pipe:	Length: 4078.00 ft	Diameter: 3.80 inches	Volume: 57.20 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 184.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 58.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4264.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	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
C.O. Sub	1.00			4238.00	
S.I. Tool	5.00			4243.00	
HMV	5.00			4248.00	
Jars	5.00			4253.00	
Safety Joint	2.00			4255.00	
Packer	5.00			4260.00	27.00 Bottom Of Top Packer
Packer	4.00			4264.00	
Stubb	1.00			4265.00	
Recorder	0.00	3227	Inside	4265.00	
Perforations	22.00			4287.00	
C.O. Sub	1.00			4288.00	
drillpipe	31.00			4319.00	
C.O. Sub	1.00			4320.00	
Recorder	0.00	11057	Outside	4320.00	
Bullnose	5.00			4325.00	61.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co, Inc.

Teeter #1

202 W Main St
Salem, # 62881

10-13-32 Logan, Ks

Job Ticket: 15191

DST#: 1

ATTN: Shakespeare Oil Co, , # 62881

Test Start: 2002.09.30 @ 05:07:02

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	s w c m 10%w 90% m w/oil scum on top	0.148
184.00	s m c w 10%m 90%w heavy oil scom in	1.178

Total Length: 214.00 ft

Total Volume: 1.326 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

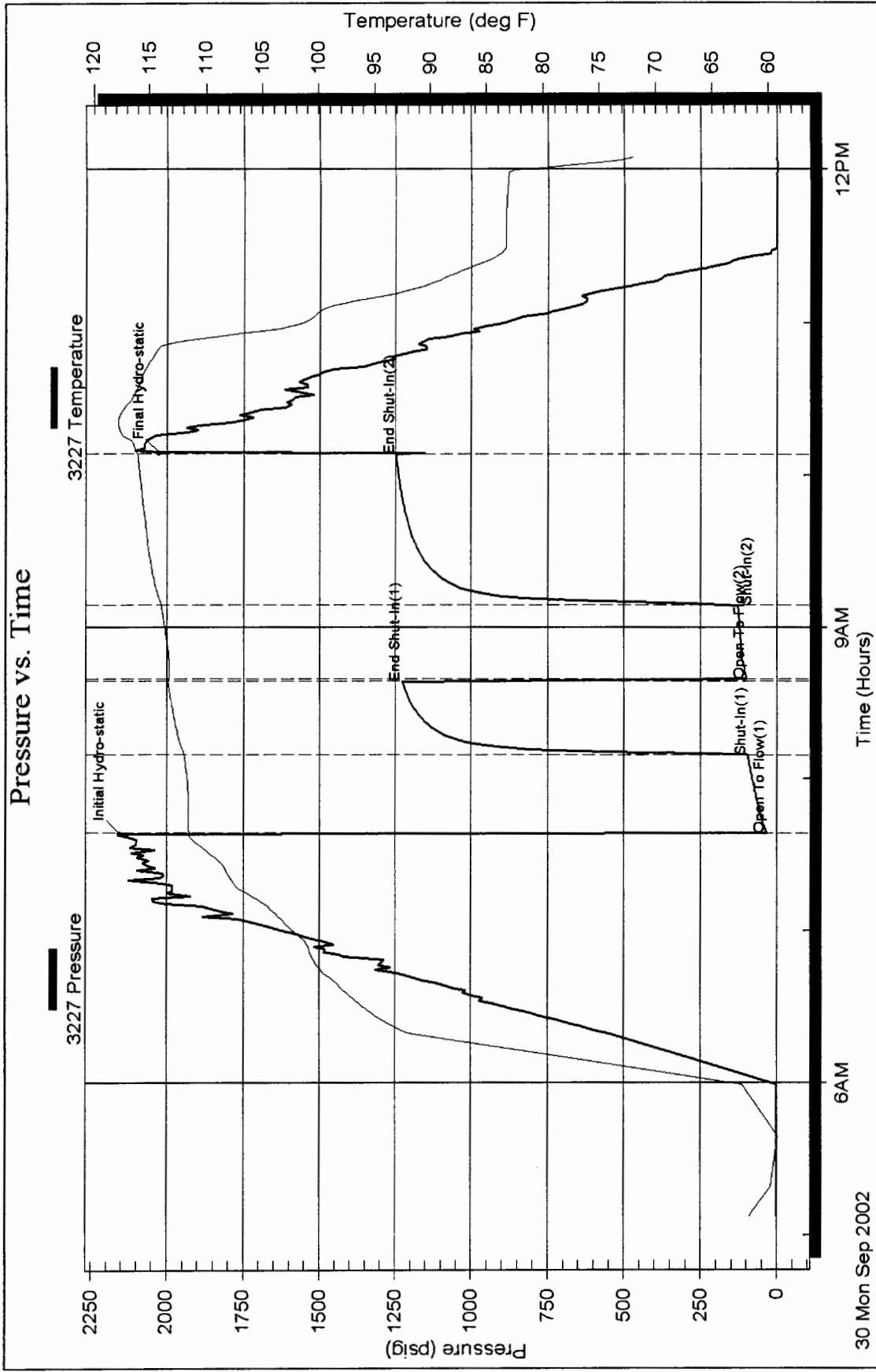
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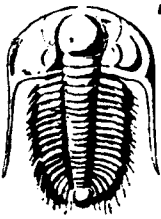
Inside

Shakespeare Oil Co, Inc.

10-13-32 Logan, Ks

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INVOICE
#5168 #1238

No 15191

Test Ticket

Well Name & No. Tector #1 Test No. #1 Date 9/30/02
 Company Shakespeare Oil Co, Inc Zone Tested RC "S-K"
 Address 202 West Main St Salem, IL 62861 Elevation 3031' KB 3026' GL
 Co. Rep / Geo. R. E. Hall Cont. Mudlog #8 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 10 Twp. 13s Rge. 32w Co. Logan State KS
 No. of Copies Norm Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4264' 4325' Initial Str Wt./Lbs. 53,000 Unseated Str Wt./Lbs. 54,000
 Anchor Length _____ 61' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 67,000
 Top Packer Depth _____ 4259' Tool Weight 1,500
 Bottom Packer Depth _____ 4264' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth _____ 4325' Wt. Pipe Run _____ Drill Collar Run 184' XH
 Mud Wt. 9.3 LCM Ø Vis. 58 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 4078'
 Blow Description 14" in @ open, built to 4" in.

No return.

Surface blow in 3 min, built to 2" in.

No return.

Recovery — Total Feet 214' GIP _____ Ft. in DC 184' Ft. in DP Ø30'
 Rec. 30 Feet Of SWCM %gas 20% %oil _____ %water 10 %mud 90
 Rec. 184' Feet Of SMCW %gas _____ %oil _____ %water 90 %mud 10
 Rec. _____ Feet Of Heavy (Scum on top of tool) %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 116° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW .169 @ 90 °F Chlorides 33,000 ppm Recovery Chlorides 1300 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2165</u>		<u>3227</u>	<u>04:00 AM</u>
(B) First Initial Flow Pressure		<u>32</u>		(depth) <u>4265'</u>	T-Started <u>05:00 AM</u>
(C) First Final Flow Pressure		<u>94</u>		PSI Recorder No. <u>11057</u>	T-Open <u>07:30 AM</u>
(D) Initial Shut-In Pressure		<u>1227</u>		(depth) <u>4320'</u>	T-Pulled <u>10:00 AM</u>
(E) Second Initial Flow Pressure		<u>99</u>		PSI Recorder No. _____	T-Out <u>12:10 PM</u>
(F) Second Final Flow Pressure		<u>126</u>		(depth) _____	T-Off Location <u>13:00 PM</u>
(G) Final Shut-in Pressure		<u>1246</u>		PSI Initial Opening <u>30</u>	Test <u>x</u> <u>800</u>
(Q) Final Hydrostatic Mud		<u>2104</u>		PSI Initial Shut-in <u>30</u>	Jars <u>x</u> <u>200</u>
				Final Flow <u>30</u>	Safety Joint <u>x</u> <u>50</u>
				Final Shut-in <u>60</u>	Straddle _____
					Circ. Sub <u>x</u> <u>N/C</u>
					Sampler _____
					Extra Packer _____
					Elec. Rec. <u>x</u> <u>150</u>
					Mileage <u>x</u> <u>38</u> <u>1 way</u> <u>38</u>
					Other _____
					TOTAL PRICE \$ <u>#1238</u>

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Approved By Don Willie

Our Representative Shirley D. [Signature]

CHART PAGE

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

