



DRILL STEM TEST REPORT

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

202 W Main St
Salem IL 62881

ATTN: Steve Davis

Zerr Trust #1-24

24-13s-31w Gove,KS

Start Date: 2012.05.22 @ 07:25:05

End Date: 2012.05.22 @ 13:24:14

Job Ticket #: 46566 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.05.24 @ 14:41:32

Shakespeare Oil Co.Inc. 24-13s-31w Gove,KS Zerr Trust #1-24 DST # 1 "I & J" 2012.05.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

24-13s-31w Gove, KS

202 W Main St
Salem IL 62881

Zerr Trust #1-24

Job Ticket: 46566

DST#: 1

ATTN: Steve Davis

Test Start: 2012.05.22 @ 07:25:05

GENERAL INFORMATION:

Formation: **"I & J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:35:00

Time Test Ended: 13:24:14

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: 4095.00 ft (KB) To 4193.00 ft (KB) (TVD)

Reference Elevations: 2839.00 ft (KB)

Total Depth: 4143.00 ft (KB) (TVD)

2834.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8736

Inside

Press @ Run Depth: 28.37 psig @ 4104.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.22

End Date:

2012.05.22

Last Calib.:

2012.05.22

Start Time:

07:25:05

End Time:

13:24:14

Time On Btm:

2012.05.22 @ 09:34:45

Time Off Btm:

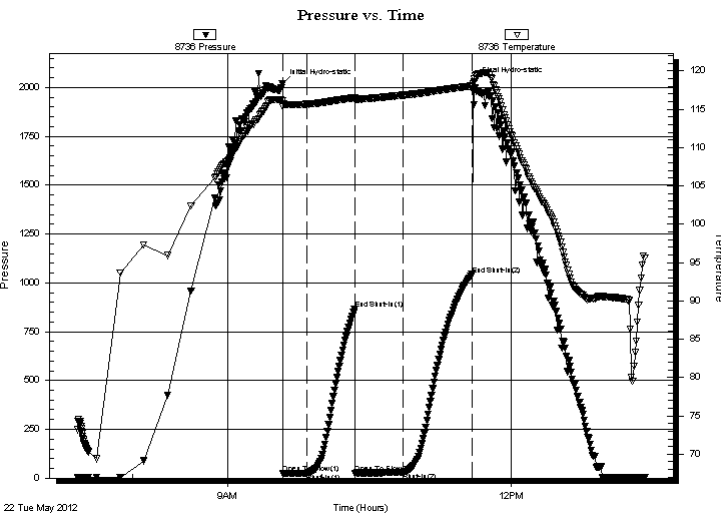
2012.05.22 @ 11:36:30

TEST COMMENT: IF: Built to weak surface blow

IS: No return blow

FF: No blow

FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2020.75	116.16	Initial Hydro-static
1	24.25	115.37	Open To Flow (1)
16	24.92	115.66	Shut-In(1)
46	864.59	116.51	End Shut-In(1)
47	25.88	116.26	Open To Flow (2)
77	28.37	116.82	Shut-In(2)
121	1042.30	118.03	End Shut-In(2)
122	2029.64	118.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w ith oil spots	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co.Inc.

24-13s-31w Gove,KS

202 W Main St
Salem IL 62881

Zerr Trust #1-24

Job Ticket: 46566

DST#: 1

ATTN: Steve Davis

Test Start: 2012.05.22 @ 07:25:05

Tool Information

Drill Pipe:	Length: 3963.00 ft	Diameter: 3.80 inches	Volume: 55.59 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:	20000.00 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: 56.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4095.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 ft				
Tool Length:	76.00 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			4068.00	
Shut In Tool	5.00			4073.00	
Hydraulic tool	5.00			4078.00	
Jars	5.00			4083.00	
Safety Joint	3.00			4086.00	
Packer	5.00			4091.00	28.00 Bottom Of Top Packer
Packer	4.00			4095.00	
Stubb	1.00			4096.00	
Perforations	8.00			4104.00	
Recorder	0.00	8736	Inside	4104.00	
Recorder	0.00	6668	Outside	4104.00	
Change Over Sub	1.00			4105.00	
Drill Pipe	32.00			4137.00	
Change Over Sub	1.00			4138.00	
Bullnose	5.00			4143.00	48.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co.Inc.

24-13s-31w Gove,KS

202 W Main St
Salem IL 62881

Zerr Trust #1-24

Job Ticket: 46566

DST#: 1

ATTN: Steve Davis

Test Start: 2012.05.22 @ 07:25:05

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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w ith oil spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

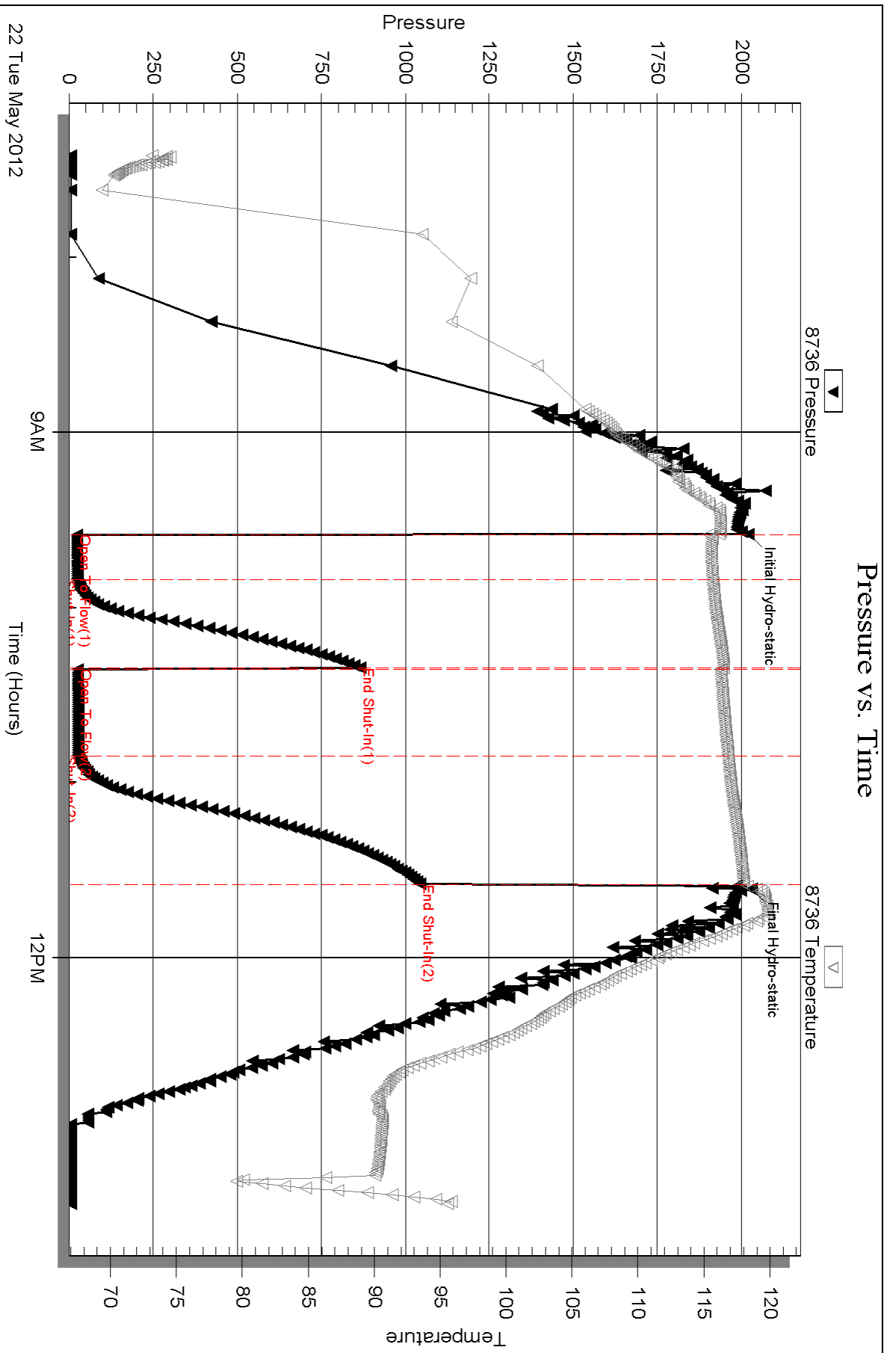
Serial #: 8736

Inside

Shakespeare Oil Co. Inc.

Zerr Trust #1-24

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 46566

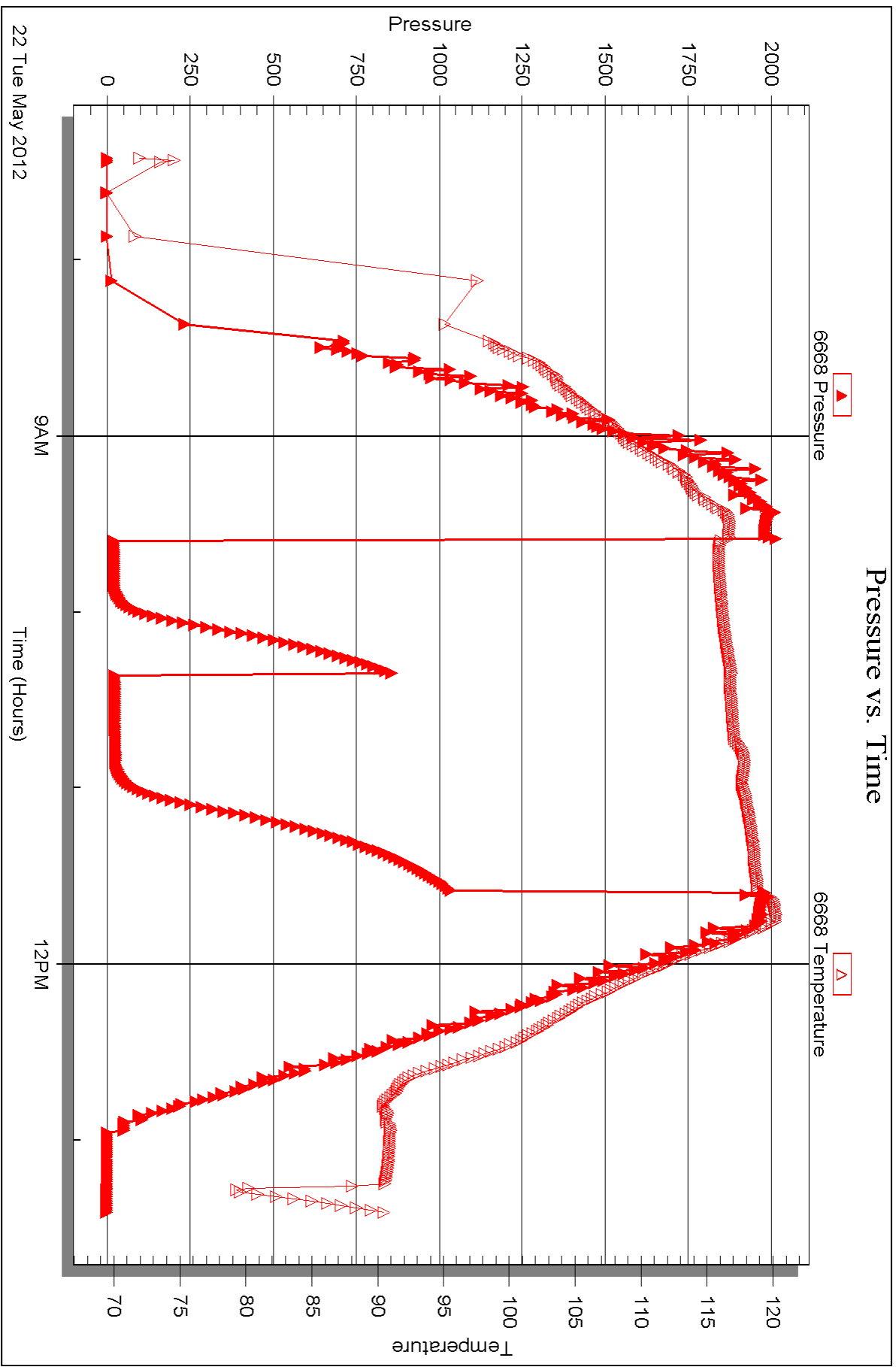
Printed: 2012.05.24 @ 14:41:35

Serial #: 6668

Outside Shakespeare Oil Co./Inc.

Zerr Trust #1-24

DST Test Number: 1





DRILL STEM TEST REPORT

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

202 W Main St
Salem IL 62881

ATTN: Steve Davis

Zerr Trust #1-24

24-13s-31w Gove,KS

Start Date: 2012.05.23 @ 20:47:05

End Date: 2012.05.24 @ 02:13:59

Job Ticket #: 46567 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.24 @ 14:39:37



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

24-13s-31w Gove, KS

202 W Main St
Salem IL 62881

Zerr Trust #1-24

Job Ticket: 46567

DST#: 2

ATTN: Steve Davis

Test Start: 2012.05.23 @ 20:47:05

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:33:15

Time Test Ended: 02:13:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4450.00 ft (KB) To 4494.00 ft (KB) (TVD)

Reference Elevations: 2839.00 ft (KB)

Total Depth: 4494.00 ft (KB) (TVD)

2834.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8736

Inside

Press @ Run Depth: 33.73 psig @ 4455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.23

End Date:

2012.05.24

Last Calib.:

2012.05.24

Start Time: 20:47:05

End Time:

02:13:59

Time On Btm:

2012.05.23 @ 22:33:00

Time Off Btm:

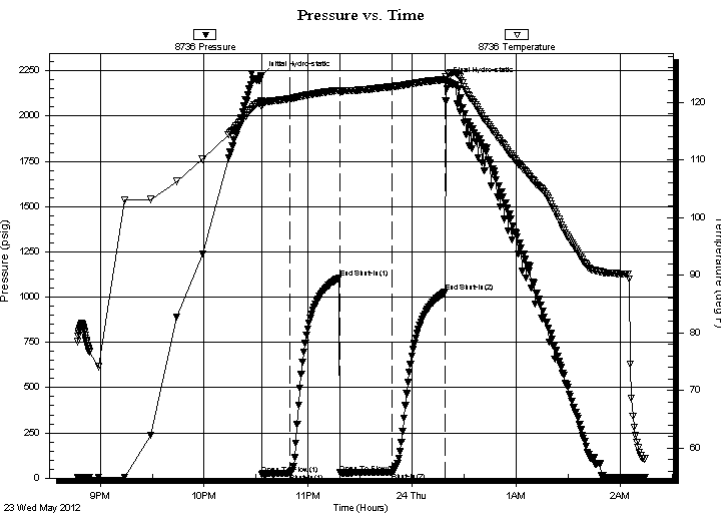
2012.05.24 @ 00:19:45

TEST COMMENT: IF: Built to weak surface blow

IS: No return blow

FF: No blow

FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.85	120.24	Initial Hydro-static
1	22.13	119.32	Open To Flow (1)
17	26.83	120.64	Shut-In(1)
45	1106.07	122.11	End Shut-In(1)
46	28.68	121.79	Open To Flow (2)
76	33.73	122.74	Shut-In(2)
106	1028.01	123.93	End Shut-In(2)
107	2191.46	124.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co.Inc.

24-13s-31w Gove,KS

202 W Main St
Salem IL 62881

Zerr Trust #1-24

Job Ticket: 46567

DST#: 2

ATTN: Steve Davis

Test Start: 2012.05.23 @ 20:47:05

Tool Information

Drill Pipe:	Length: 4322.00 ft	Diameter: 3.80 inches	Volume: 60.63 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:	20000.00 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: 61.24 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4450.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	44.00 ft				
Tool Length:	72.00 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			4423.00	
Shut In Tool	5.00			4428.00	
Hydraulic tool	5.00			4433.00	
Jars	5.00			4438.00	
Safety Joint	3.00			4441.00	
Packer	5.00			4446.00	28.00 Bottom Of Top Packer
Packer	4.00			4450.00	
Stubb	1.00			4451.00	
Perforations	4.00			4455.00	
Recorder	0.00	8736	Inside	4455.00	
Recorder	0.00	6668	Outside	4455.00	
Change Over Sub	1.00			4456.00	
Drill Pipe	32.00			4488.00	
Change Over Sub	1.00			4489.00	
Bullnose	5.00			4494.00	44.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co.Inc.

24-13s-31w Gove,KS

202 W Main St
Salem IL 62881

Zerr Trust #1-24

Job Ticket: 46567

DST#: 2

ATTN: Steve Davis

Test Start: 2012.05.23 @ 20:47:05

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

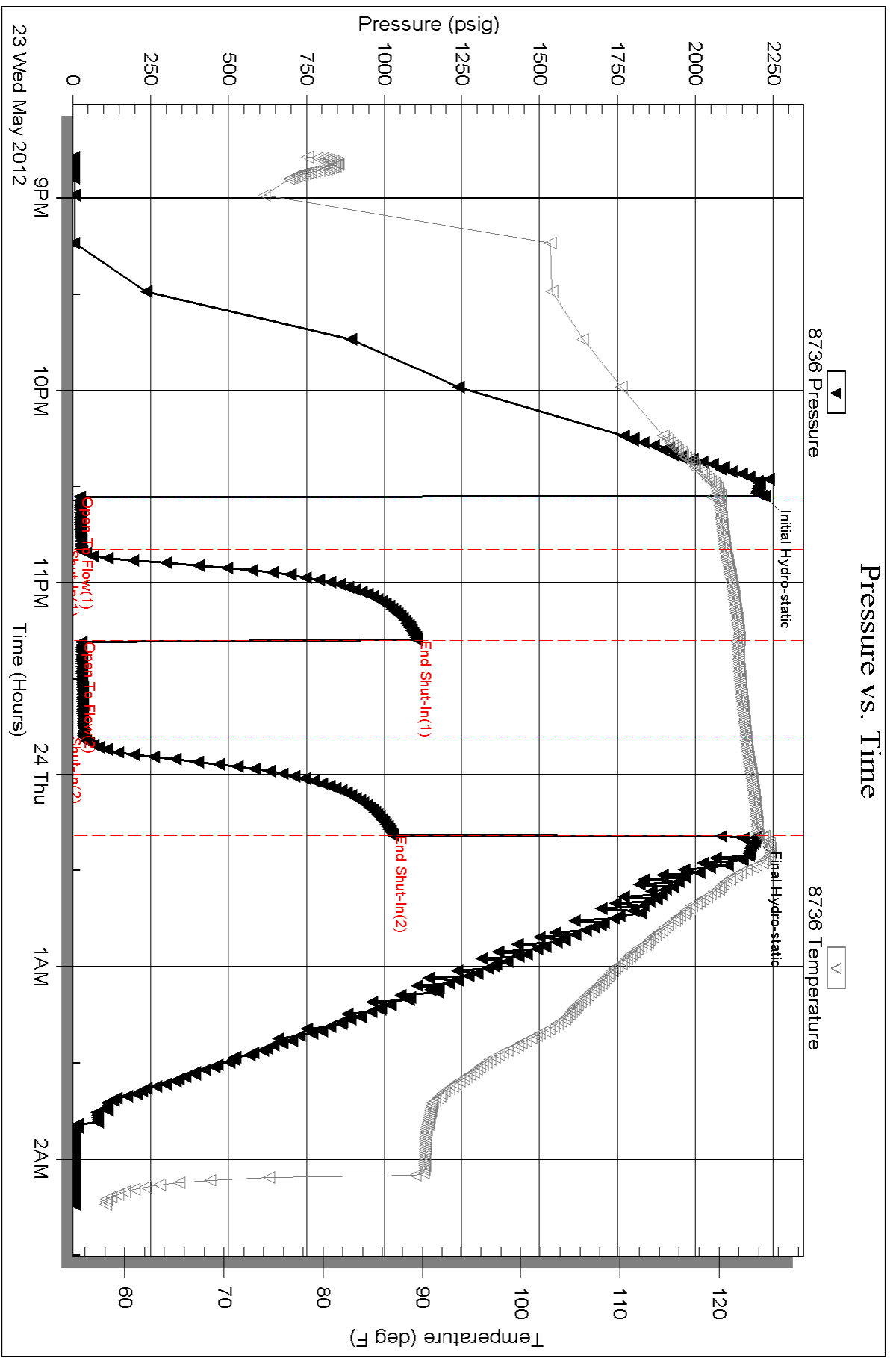
Serial #: 8736

Inside

Shakespeare Oil Co. Inc.

Zerr Trust #1-24

DST Test Number: 2

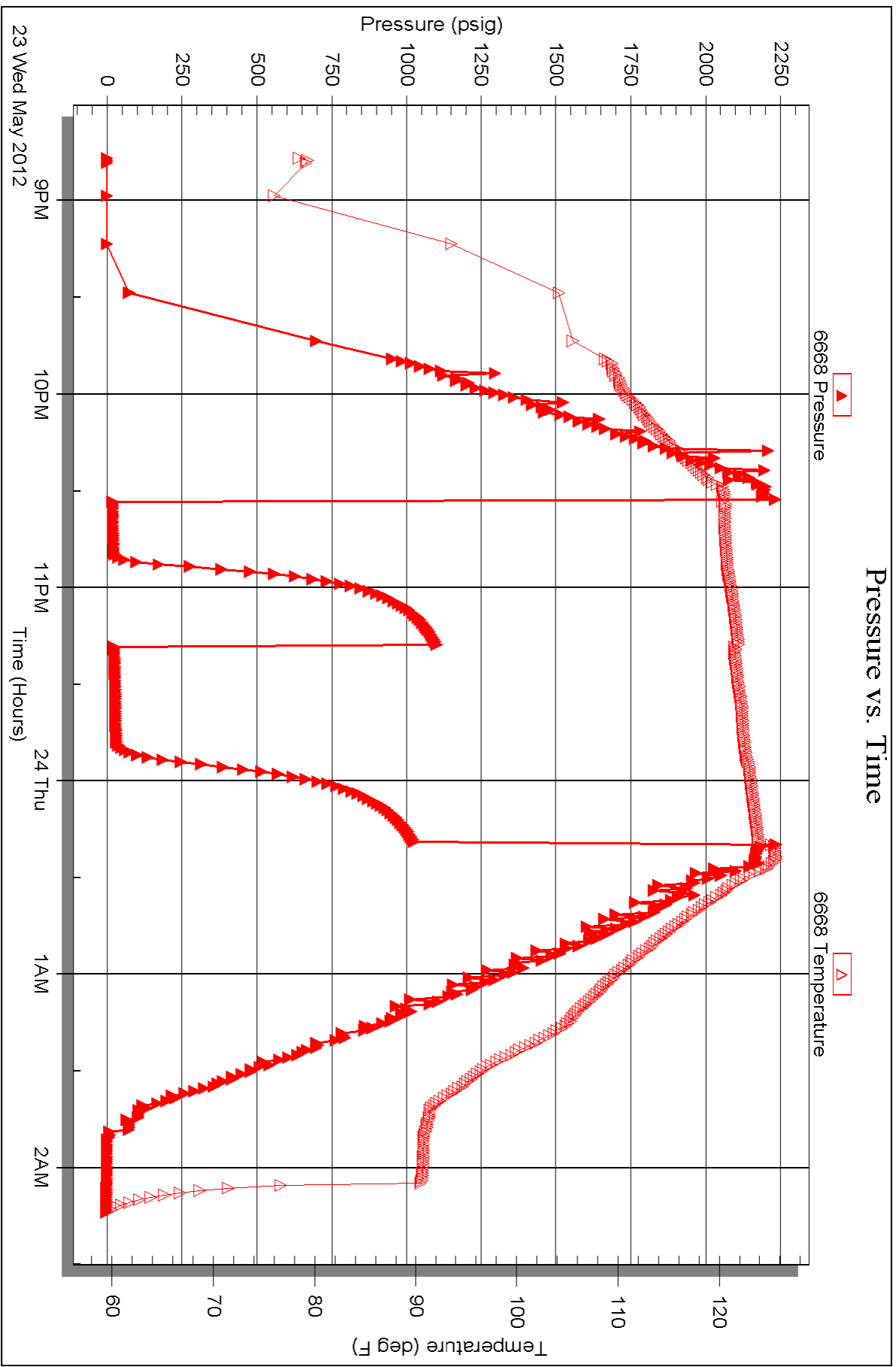


Serial #: 6668

Outside Shakespeare Oil Co. Inc.

Zerr Trust #1-24

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. **46566**

4/10

Well Name & No. Zerr Trust #1-24 Test No. 1 Date 5-22-12
 Company Shakespeare Oil & Gas Inc. Elevation 2834 KB 2839 GL
 Address 202 W. Main St. Salem IL 62881
 Co. Rep / Geo. Steve Davis Rig WW#2
 Location: Sec. 24 Twp. 13 Rge. 31 Co. Gove State KS

Interval Tested 4095-4143 Zone Tested I+J
 Anchor Length 48 Drill Pipe Run 3963 Mud Wt. 8.7
 Top Packer Depth 4891 Drill Collars Run 124 Vis 58
 Bottom Packer Depth 4895 Wt. Pipe Run Ø WL 7.2
 Total Depth 4143 Chlorides 2200 ppm System LCM 1
 Blow Description IF: Weak Surface Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD with oil spots</u>			<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 118 Gravity ✓ API RW ✓ @ ° F Chlorides ✓ ppm
 (A) Initial Hydrostatic 2020 Test 1250.00 T-On Location 04:45
 (B) First Initial Flow 24 Jars 250.00 T-Started 07:25
 (C) First Final Flow 24 Safety Joint 75.00 T-Open 09:35
 (D) Initial Shut-In 864 Circ Sub NC T-Pulled 11:35
 (E) Second Initial Flow 25 Hourly Standby _____ T-Out 13:24
 (F) Second Final Flow 28 Mileage 100 RT = 155.00/- Comments _____
 (G) Final Shut-In 1042 Sampler _____
 (H) Final Hydrostatic 2029 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open ~~30~~ 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1730
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total \$1730.00/-

Approved By SA [Signature] Our Representative Mike Roberts

Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46567

4/10

Well Name & No. Zerr Trust #1-24 Test No. 2 Date 5-23-12
 Company Shakespear Oil Co. Inc. Elevation 2834 KB 2839 GL
 Address 202 W. Main St. Salem IL 62881
 Co. Rep / Geo. Steve Davis Rig WW#2
 Location: Sec. 24 Twp. 13 Rge. 31 Co. Grove State KS

Interval Tested 4450-4494 Zone Tested Johnson
 Anchor Length 44 Drill Pipe Run 4322 Mud Wt. 9.3
 Top Packer Depth 4446 Drill Collars Run 124 Vis 49
 Bottom Packer Depth 4450 Wt. Pipe Run φ WL 8.0
 Total Depth 4494 Chlorides 3800 ppm System LCM 1
 Blow Description IF: Built to Weak Surface Blow
IS: NO Return Blow
FF: NO Blow
FS: NO Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 124 Gravity 1 API RW 1 @ 1 °F Chlorides 1 ppm
 (A) Initial Hydrostatic 2222 Test 1250.00 T-On Location 19:45
 (B) First Initial Flow 22 Jars 250.00 T-Started 20:47
 (C) First Final Flow 24 Safety Joint 75.00 T-Open 22:33
 (D) Initial Shut-In 1106 Circ Sub NL T-Pulled 00:18
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 02:13
 (F) Second Final Flow 33 Mileage 100 RT = \$155.00 Comments Mileage x
 (G) Final Shut-In 1028 Sampler _____ 2 Load tools 155
 (H) Final Hydrostatic 2191 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 155
 Initial Shut-In 30 Day Standby _____ Total 1885
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total \$1730.00

Approved By _____ Our Representative Mike Roberts

TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.