

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company**

202 W Main St.
Salem IL 62881

ATTN: Paul Gunzelman

22-13S-32W Logan

Glassman #1-22

Start Date: 2005.04.15 @ 00:28:10

End Date: 2005.04.15 @ 06:26:10

Job Ticket #: 21537 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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





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TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Company

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ATTN: Paul Gunzelman

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Job Ticket: 21537

DST#: 1

Test Start: 2005.04.15 @ 00:28:10

GENERAL INFORMATION:

Formation: **L/KC " H - J "**

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

Time Tool Opened: **02:14:25**

Time Test Ended: **06:26:10**

Test Type: **Conventional Bottom Hole**

Tester: **Rod Steinbrink**

Unit No: **22**

Interval: **4130.00 ft (KB) To 4210.00 ft (KB) (TVD)**

Total Depth: **4210.00 ft (KB) (TVD)**

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

Reference Elevations: **2988.00 ft (KB)**

2977.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: 6625

Inside

Press@RunDepth: **26.25 psig @ 4131.00 ft (KB)**

Start Date: **2005.04.15**

End Date: **2005.04.15**

Start Time: **00:28:13**

End Time: **06:26:10**

Capacity: **7000.00 psig**

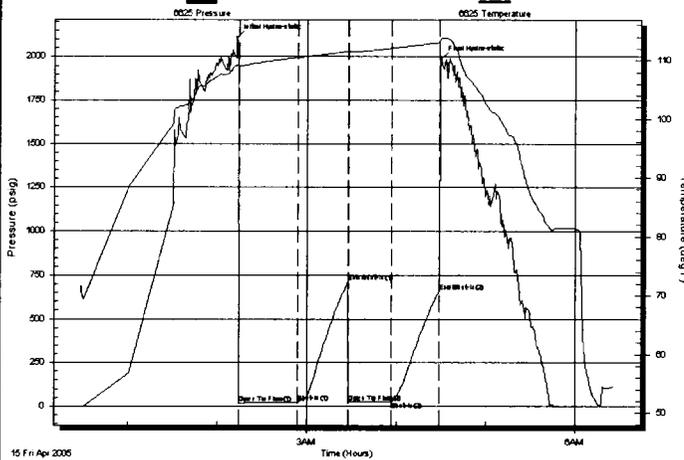
Last Calib.: **1899.12.30**

Time On Btm: **2005.04.15 @ 02:12:40**

Time Off Btm: **2005.04.15 @ 04:29:10**

TEST COMMENT: **FF; Weak 1/4" Blow died @ 30 mins**
FF; No return blow

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2106.95 | 109.18 | Initial Hydro-static |
| 2 | 16.91 | 109.03 | Open To Flow (1) |
| 41 | 23.33 | 110.52 | Shut-In(1) |
| 75 | 711.70 | 111.53 | End Shut-In(1) |
| 75 | 22.09 | 111.43 | Open To Flow (2) |
| 103 | 26.25 | 112.09 | Shut-In(2) |
| 136 | 654.55 | 113.06 | End Shut-In(2) |
| 137 | 1986.31 | 113.67 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 10.00 | Drig. Mud w/oil spots in tool | 0.05 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



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TOOL DIAGRAM

Shakespeare Oil Company

Glassman #1-22

202 W Main St.
Salem IL 62881

22-13S-32W Logan

Job Ticket: 21537

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2005.04.15 @ 00:28:10

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe: | Length: 3938.00 ft | Diameter: 3.80 inches | Volume: 55.24 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: 184.00 ft | Diameter: 2.25 inches | Volume: 0.90 bbl | Weight to Pull Loose: 70000.00 lb |
| | | Total Volume: | 56.14 bbl | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 13.00 ft | | | String Weight: Initial 64000.00 lb |
| Depth to Top Packer: | 4130.00 ft | | | Final 64000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 80.00 ft | | | |
| Tool Length: | 101.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 4114.00 | |
| Hydraulic tool | 5.00 | | | 4119.00 | |
| Safety Joint | 2.00 | | | 4121.00 | |
| Packer | 5.00 | | | 4126.00 | 21.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4130.00 | |
| Stubb | 1.00 | | | 4131.00 | |
| Recorder | 0.00 | 6625 | Inside | 4131.00 | |
| Anchor | 10.00 | | | 4141.00 | |
| Change Over Sub | 1.00 | | | 4142.00 | |
| Anchor | 62.00 | | | 4204.00 | |
| Change Over Sub | 1.00 | | | 4205.00 | |
| Recorder | 0.00 | 13309 | Outside | 4205.00 | |
| Bullnose | 5.00 | | | 4210.00 | 80.00 Bottom Packers & Anchor |

Total Tool Length: 101.00



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FLUID SUMMARY

Shakespeare Oil Company

Glassman #1-22

202 W Main St.
Salem IL 62881

22-13S-32W Logan

Job Ticket: 21537

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2005.04.15 @ 00:28:10

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 2600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------------------|---------------|
| 10.00 | Drig. Mud w/oil spots in tool | 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:

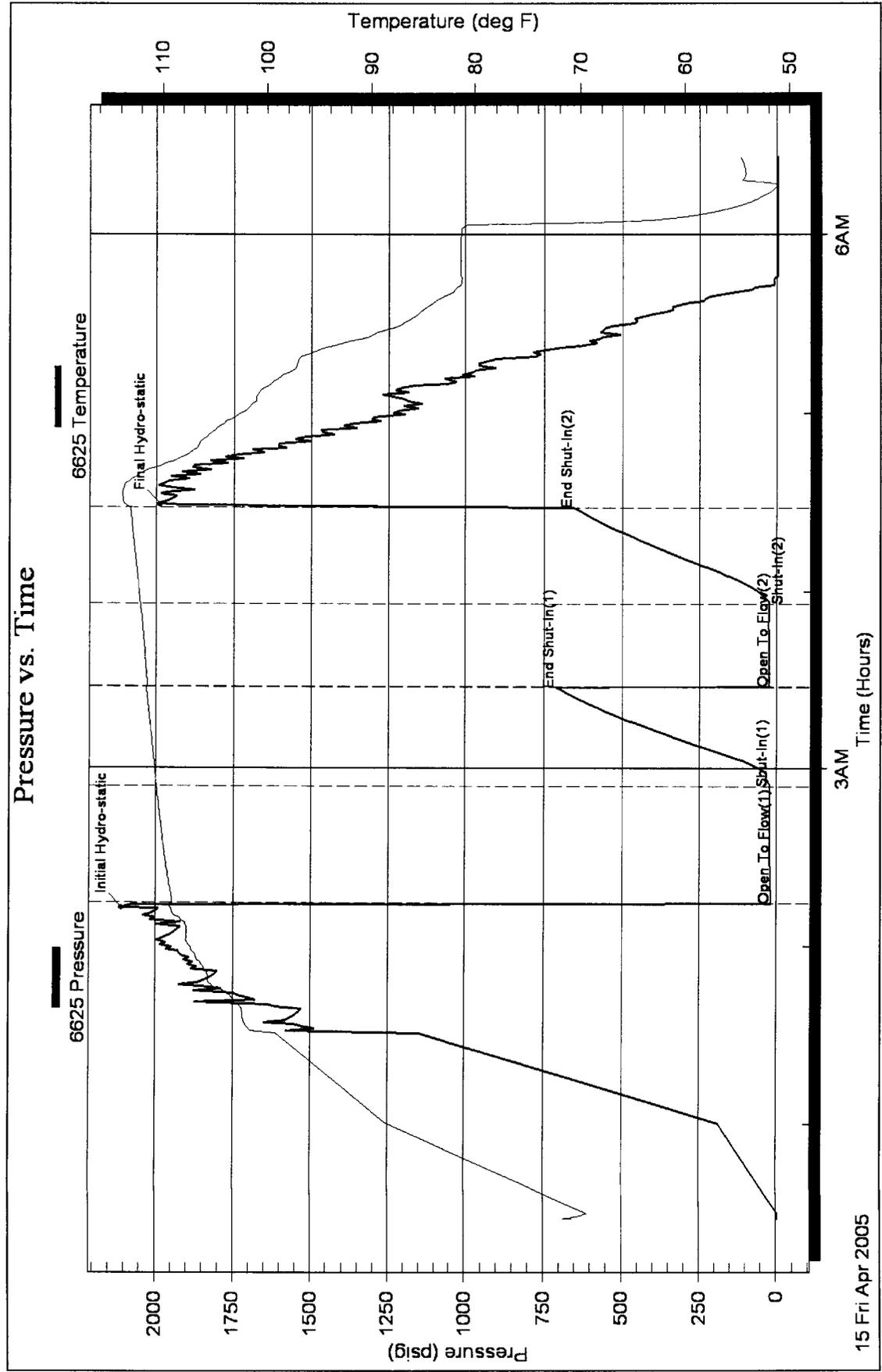
Serial #: 6625

Inside

Shakespeare Oil Company

22-13S-32W Logan

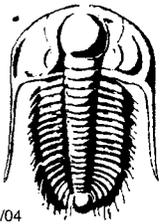
DST Test Number: 1



15 Fri Apr 2005

3 AM Time (Hours)

6 AM



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

DWV
7394

No 21537

Test Ticket

Well Name & No. Glassman # 1-22 Test No. 1 Date 4-15-05
 Company Shakespeare Oil Company Zone Tested LIKE H - J
 Address 202 W. Main St. Salem IL. 62881 Elevation 2988 KB 2977 GL
 Co. Rep / Geo. Paul Gunzelman Cont. Murfin #22 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 22 Twp. 13^s Rge. 32^w Co. Logan State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4130 - 4210 Initial Str Wt./Lbs. 64,000 Unseated Str Wt/Lbs. 64,000
 Anchor Length 80' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 4125 Tool Weight 2,500
 Bottom Packer Depth 4130 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4210 Wt. Pipe Run _____ Drill Collar Run 184'
 Mud Wt. 9.0 LCM - Vis. 54 WL 7.2 Drill Pipe Size 4 1/2" XH Ft. Run 3938'

Blow Description _____
IF: Weak 1/4" blow died @ 30 mins.
FF: No return blow.

Recovery - Total Feet 10' GIP - Ft. in DC 10' Ft. in DP -
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. 10' Feet of Drlg. Mud w/ oil spots %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of in tool %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 113° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2,600 ppm System

| | AK-1 | Alpine | Recorder No. | Test |
|----------------------------------|-------------|--------|-------------------------------|-------------------------------|
| (A) Initial Hydrostatic Mud | <u>2106</u> | PSI | <u>6625</u> | <u>1000</u> |
| (B) First Initial Flow Pressure | <u>16</u> | PSI | (depth) <u>4131</u> | Jars _____ |
| (C) First Final Flow Pressure | <u>23</u> | PSI | Recorder No. <u>13309</u> | Safety Jt. <u>X</u> <u>50</u> |
| (D) Initial Shut-In Pressure | <u>711</u> | PSI | (depth) <u>4205</u> | Circ Sub <u>X</u> <u>N/C</u> |
| (E) Second Initial Flow Pressure | <u>22</u> | PSI | Recorder No. _____ | Sampler _____ |
| (F) Second Final Flow Pressure | <u>26</u> | PSI | (depth) _____ | Straddle _____ |
| (G) Final Shut-In Pressure | <u>654</u> | PSI | Initial Opening <u>40</u> | Ext. Packer _____ |
| (Q) Final Hydrostatic Mud | <u>1986</u> | PSI | Initial Shut-In <u>30</u> | Shale Packer _____ |
| | | | Final Flow <u>30</u> | Ruined Packer _____ |
| | | | Final Shut-In <u>30</u> | Mileage <u>1 way 33 66</u> |
| | | | T-On Location <u>2345</u> | Sub Total: <u>1116</u> |
| | | | T-Started <u>0028 4-15-05</u> | Std. By _____ |
| | | | T-Open <u>0214</u> | Other _____ |
| | | | T-Pulled <u>0427</u> | Total: _____ |
| | | | T-Out <u>0626</u> | |

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Approved By Paul Gunzelman
 Our Representative Rod Steinbrink

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

