



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

23-17s-33w Scott Co. KS

202 W. Main St.
Salem IL 62881

Rudolph #1-23

Job Ticket: 58681

DST#: 5

ATTN: Tim Priest

Test Start: 2014.12.09 @ 01:32:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:39:55

Time Test Ended: 10:51:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 71

Interval: 4591.00 ft (KB) To 4660.00 ft (KB) (TVD)

Reference Elevations: 3026.00 ft (KB)

Total Depth: 4660.00 ft (KB) (TVD)

3016.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8674 Inside

Press@RunDepth: 82.88 psig @ 4595.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.09

End Date:

2014.12.09

Last Calib.:

2014.12.09

Start Time: 01:32:00

End Time:

10:51:10

Time On Btm:

2014.12.09 @ 04:39:40

Time Off Btm:

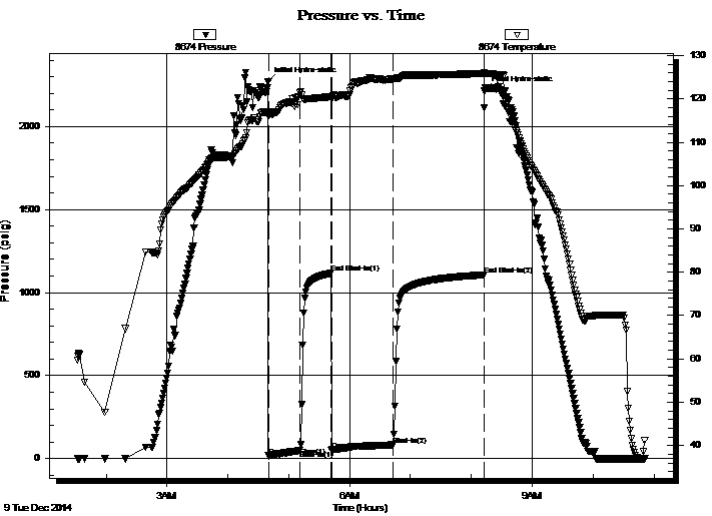
2014.12.09 @ 08:12:54

TEST COMMENT: IF- Weak Surface Blow Built to 1 1/4"

IS- No Blow

FF- Weak Surface Blow Built to 2"

FS- No Blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2269.15 | 117.07 | Initial Hydro-static |
| 1 | 16.58 | 116.28 | Open To Flow (1) |
| 32 | 49.46 | 121.47 | Shut-In(1) |
| 63 | 1116.86 | 120.53 | End Shut-In(1) |
| 63 | 51.70 | 119.81 | Open To Flow (2) |
| 123 | 82.88 | 124.57 | Shut-In(2) |
| 213 | 1107.48 | 125.88 | End Shut-In(2) |
| 214 | 2214.46 | 125.65 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------------|--------------|
| 124.00 | GWCM 3%g 3%w 94%m w with a Skin | c0.61 |
| 25.00 | WCM 2%w 98%m | 0.35 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Salem IL 62881

Rudolph #1-23

Job Ticket: 58681

DST#: 5

ATTN: Tim Priest

Test Start: 2014.12.09 @ 01:32:00

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: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbf |
|--------------|--------------------------------------|---------------|
| 124.00 | GWCM 3%g 3%w 94%m with a Skim of Oil | 0.610 |
| 25.00 | WCM 2%w 98%m | 0.351 |

Total Length: 149.00 ft Total Volume: 0.961 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

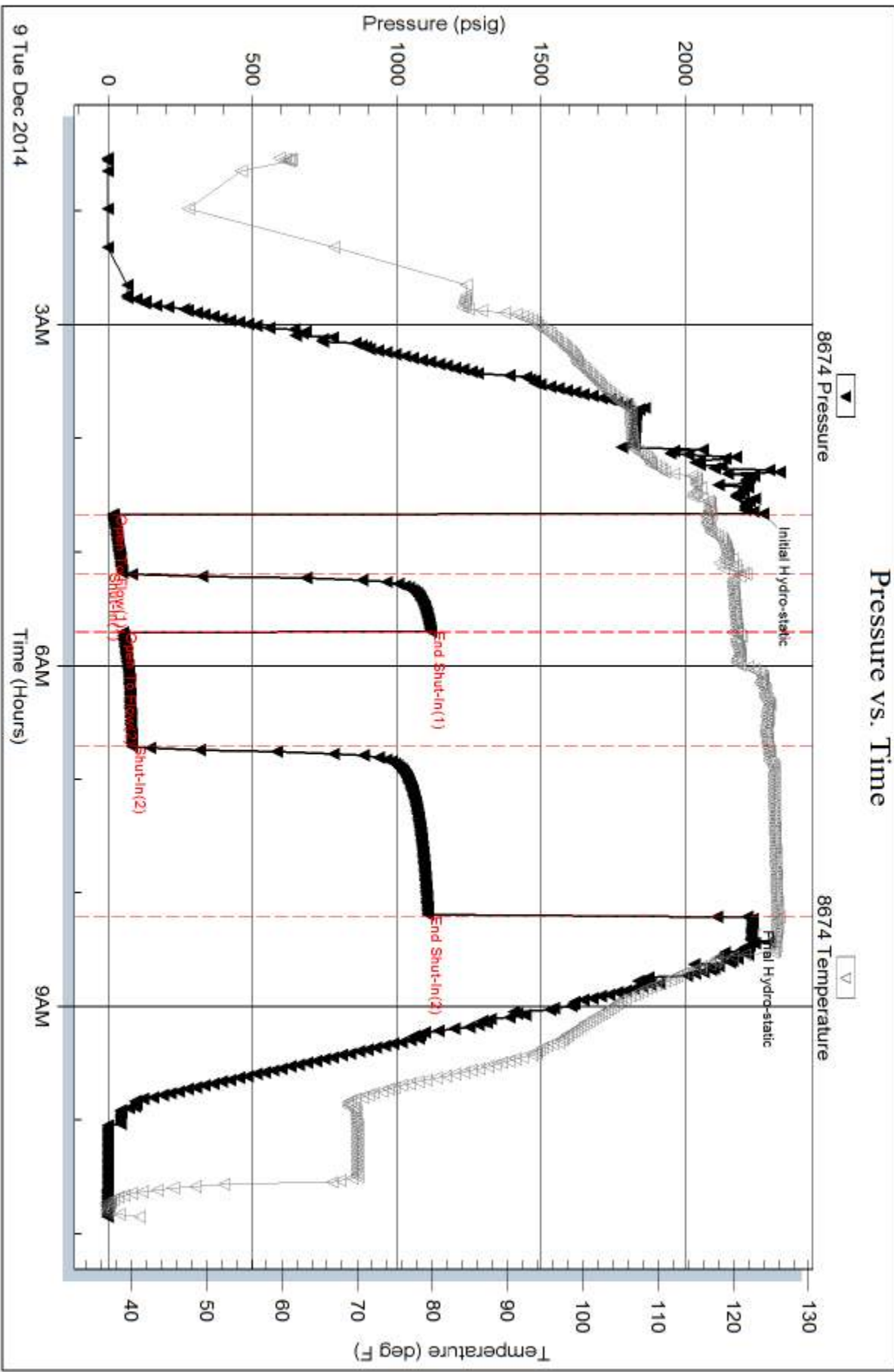
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph #1-23

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 59681

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