

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	CARSON 2-26
Doc ID	1351578

All Electric Logs Run

Array Induction
Photo Density
Comp neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	CARSON 2-26
Doc ID	1351578

Tops

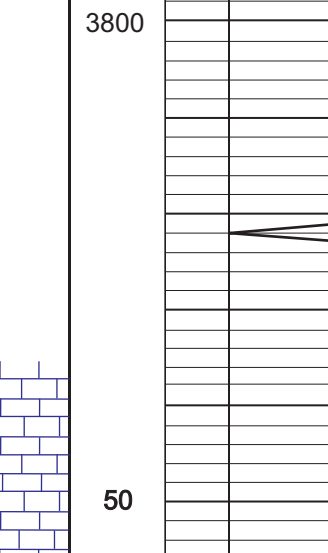
Name	Top	Datum
Base Anhydrite	2459	+661
Heebner	3980	-860
Lansing	4022	-902
Muncie Creek	4202	-1082
Stark Shale	4308	-1188
Hushpuckney	4354	-1234
Marmaton	4456	-1336
Pawnee	4530	-1410
L. Cherokee Shale	4611	-1491
Johnson	4658	-1536
Mississippian	4820	-1700



**GEOLOGIST'S REPORT**  
**DRILLING TIME AND SAMPLE LOG**

COMPANY **SHAKESPEARE OIL CO.** ELEVATIONS  
 LEASE **CARBON 2-26** KG 3120'  
 FIELD **Petroleum East** DF \_\_\_\_\_  
 LOCATION **2305' FUL 1550' FEL** GL 3112'  
 SEC **26** T1MSP **16S** R0E **34W**  
 COUNTY **Scott** STATE **Kansas** Measurements Are All From **KB**  
 CONTRACTOR **Duke Drilling Rig #2**  
 SPUD **3-21-17** COMP **3-30-17**  
 RTD **4905'** LTD **4901'** CASING \_\_\_\_\_  
 MUD UP **3600'** TYPE MUD **Chemical** CONDUCTOR **N/A**  
 SURFACE **8-5/8" @ 264'**  
 PRODUCTION **None**  
 DRILLING TIME KEPT FROM **3800'** to RTD  
 SAMPLES SAVED FROM **3800'** to RTD  
 SAMPLES EXAMINED FROM **3800'** to RTD  
 GEOLOGICAL SUPERVISION FROM **3950'** to RTD  
 GEOLOGIST ON WELL **Tim Priest** By: **Weatherford**

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anyvdrite	2438 (-700)	2441 (+697)
Heebner Shale	3980 (-860)	3985 (-865)
Austin	4022 (-902)	4025 (-905)
SARK	4308 (-1188)	4313 (-1193)
B/K.C.	4402 (-1282)	4405 (-1285)
Fort Scott	4584 (-1464)	4590 (-1470)
Cherokee Shale	4611 (-1491)	4616 (-1496)
Mississippian	4820 (-1700)	4825 (-1705)

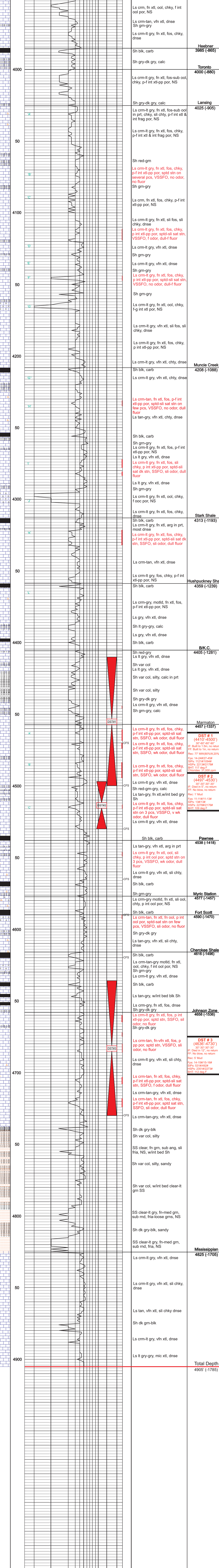
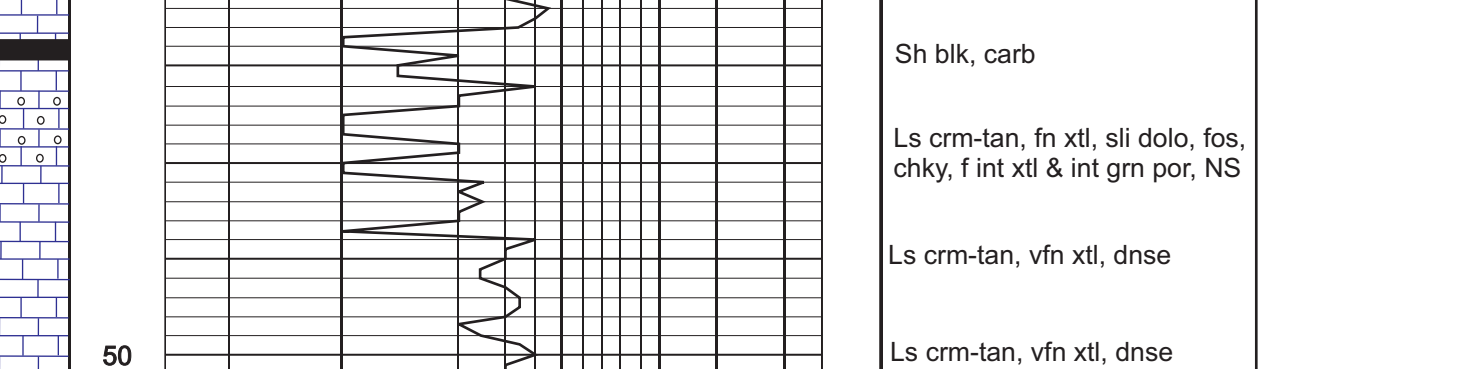


REMARKS Due to the negative drill stem tests, it was decided to plug and abandon the well.

Respectfully Submitted,  
 Tim Priest  
 Petroleum Geologist

API #15-171-21196-00-00

**LEGEND**



**DEPTH**  
 2450  
 3800  
 3900  
 4000  
 4100  
 4200  
 4300  
 4400  
 4500  
 4600  
 4700  
 4800  
 4900

**LITHOLOGY**

**SAMPLE DESCRIPTION**

**REMARKS**

**Anhydrite**  
 2441(+679)

**Base/ Anhydrite**  
 2482(+658)

**Heebner**  
 3985 (-865)

**Toronto**  
 4000 (-880)

**Lansing**  
 4025 (-905)

**Muncie Creek**  
 4208 (-1088)

**Stark Shale**  
 4313 (-1193)

**Hushpuckney Shale**  
 4359 (-1239)

**B/K.C.**  
 4405 (-1281)

**Marmaton**  
 4457 (-1337)

**Pawnee**  
 4538 (-1418)

**Myrick Station**  
 4577 (-1457)

**Fort Scott**  
 4590 (-1470)

**Cherokee Shale**  
 4616 (-1496)

**Johnson Zone**  
 4658 (-1536)

**Mississippian**  
 4825 (-1705)

**Total Depth**  
 4905' (-1785)

DST # 1 (4410'-4500')  
 FF: Built to 1.5m, no return  
 Rec: 77 MW(805W,205M)  
 Fps: 14-24#27-45#  
 SIPs: 1121#1094#  
 HSPs: 2213#2176#  
 BHT: 117 deg F  
 Chokes: 31,000 ppm

DST # 2 (4497'-4530')  
 FF: Died in 5', no return  
 Rec: No blow, no return  
 Rec: 1' Mud  
 Fps: 11-11#11-13#  
 SIPs: 531#492#  
 HSPs: 2276#2176#  
 BHT: 109 deg F

DST # 3 (4636'-4730')  
 FF: No blow, no return  
 Rec: 5' Mud  
 Fps: 14-15#15-16#  
 SIPs: 531#492#  
 HSPs: 2276#2176#  
 BHT: 112 deg F



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

**26-16-34 Scott, Ks**

202 W Main st  
Salem, IL 62881

**Carson 2-26**

Job Ticket: 63777

**DST#: 1**

ATTN: Tim Priest

Test Start: 2017.03.26 @ 22:54:17

## GENERAL INFORMATION:

Formation: **Marmaton A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:08:47

Time Test Ended: 07:02:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

**Interval: 4410.00 ft (KB) To 4500.00 ft (KB) (TVD)**

Reference Elevations: 3120.00 ft (KB)

Total Depth: 4500.00 ft (KB) (TVD)

3112.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8166 Outside**

Press@RunDepth: 45.37 psig @ 4415.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.26

End Date:

2017.03.27

Last Calib.:

2017.03.27

Start Time:

22:54:22

End Time:

07:02:16

Time On Btm:

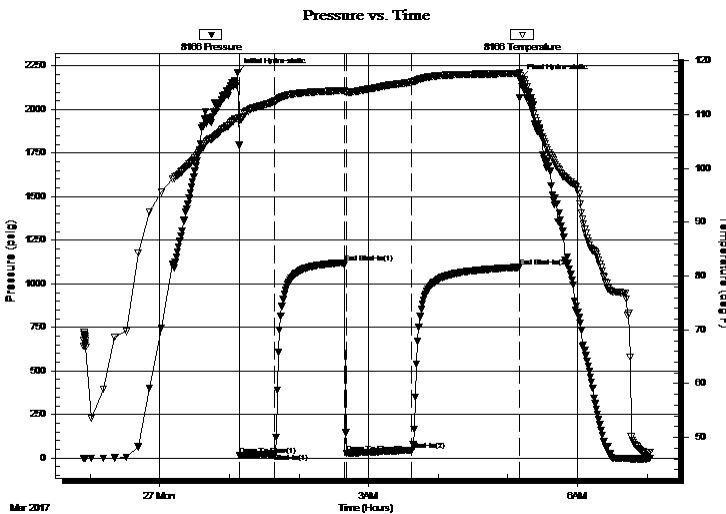
2017.03.27 @ 01:07:17

Time Off Btm:

2017.03.27 @ 05:10:47

TEST COMMENT: IF: 1/4 blow built to 1 1/2.  
IS: No return.  
FF: Surface blow built to 1.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2213.53	109.23	Initial Hydro-static
2	14.24	108.96	Open To Flow (1)
32	24.18	112.45	Shut-In(1)
92	1121.42	114.49	End Shut-In(1)
94	27.27	114.16	Open To Flow (2)
150	45.37	116.04	Shut-In(2)
243	1094.75	117.59	End Shut-In(2)
244	2178.66	117.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
77.00	mcw 80%w 20%m	1.08

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Co

**26-16-34 Scott, Ks**

202 W Main st  
Salem, IL 62881

**Carson 2-26**

Job Ticket: 63777

**DST#: 1**

ATTN: Tim Priest

Test Start: 2017.03.26 @ 22:54:17

### 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:

31000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
77.00	mcw 80%w 20%m	1.080

Total Length: 77.00 ft      Total Volume: 1.080 bbl

Num Fluid Samples: 0

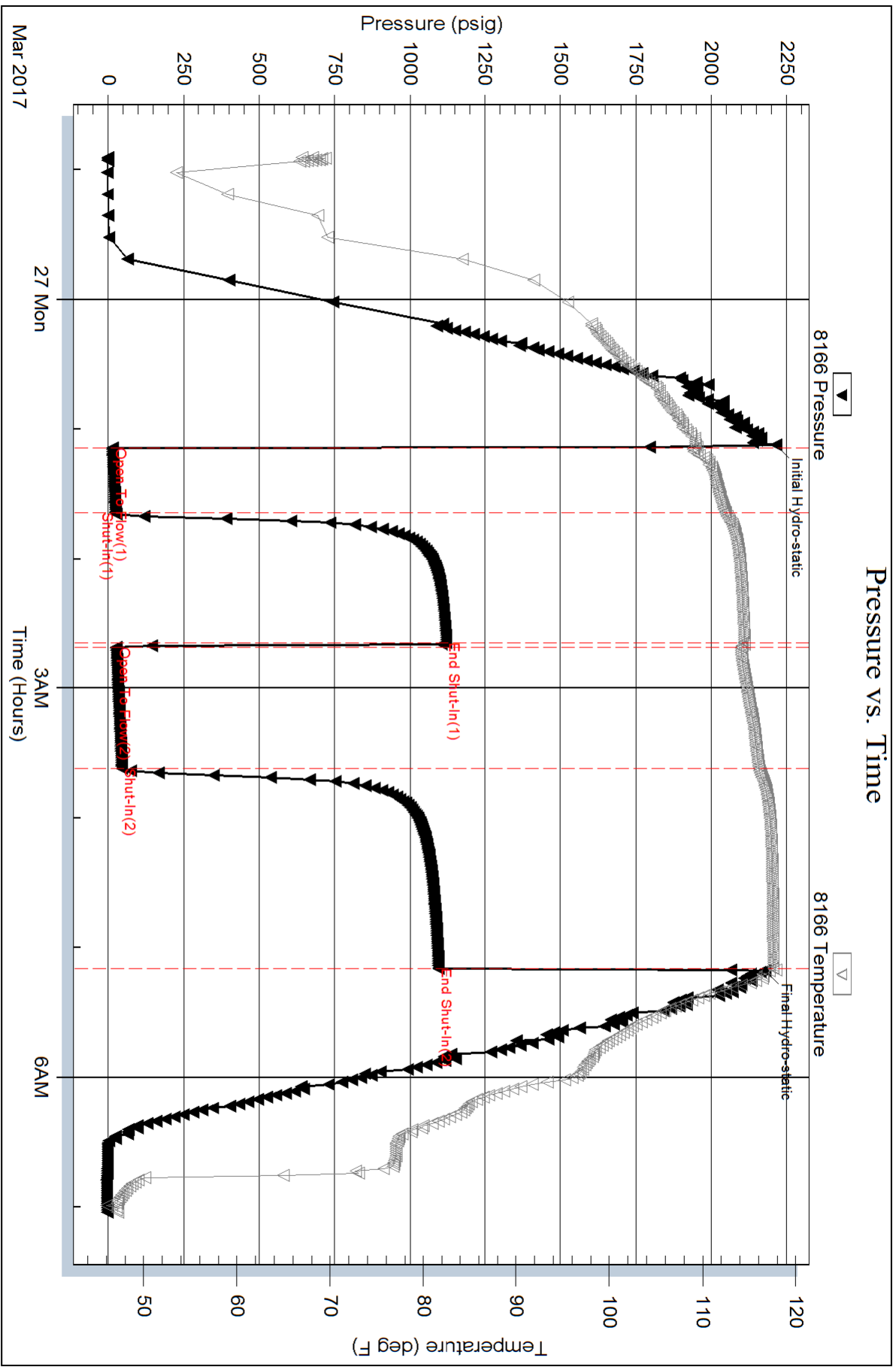
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .44@37=31000



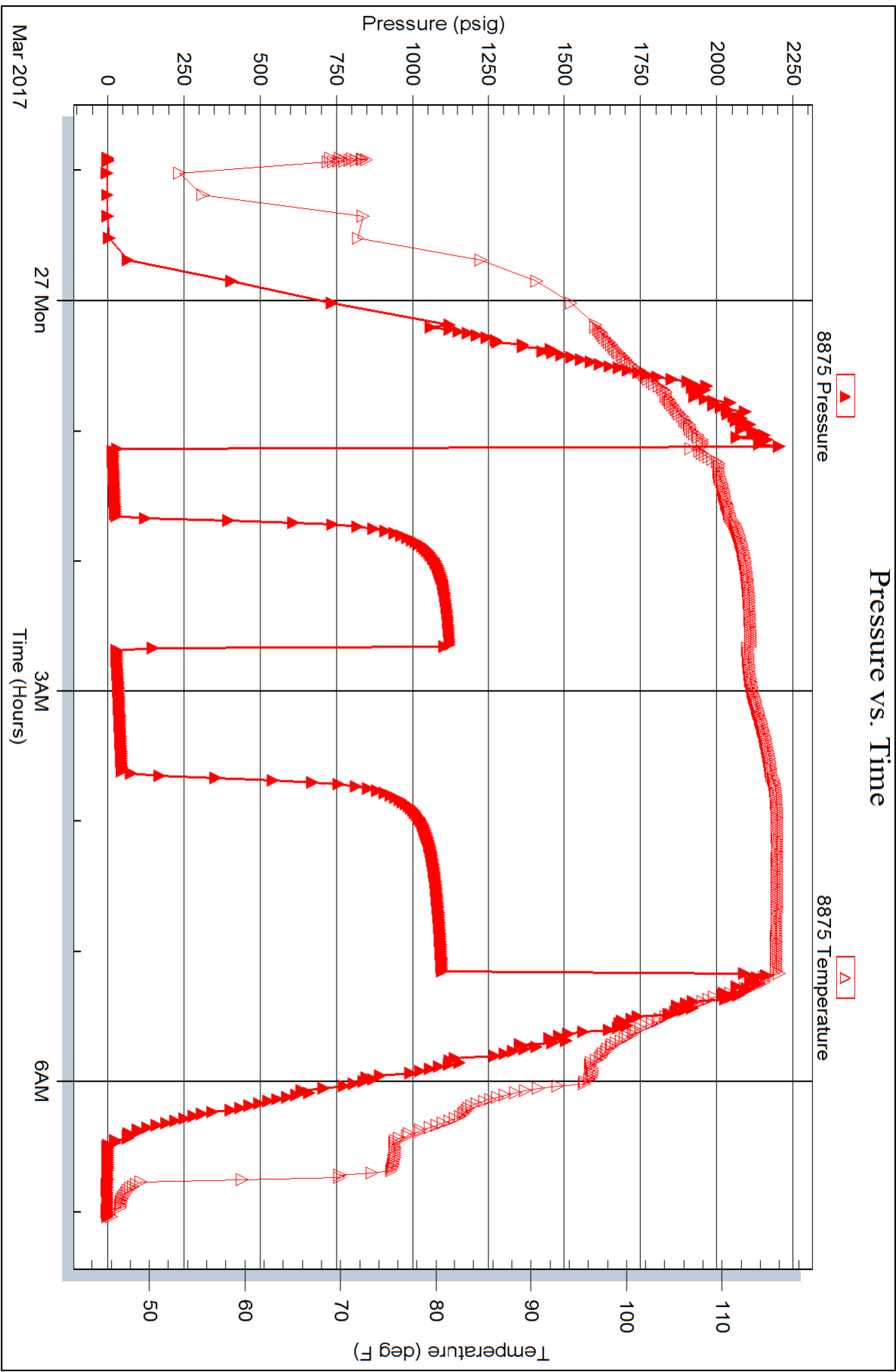
Serial #: 8875

Inside

Shakespeare Oil Co

Carson 2-26

DST Test Number: 1





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

**26-16-34 Scott, Ks**

202 W Main st  
Salem, IL 62881

**Carson 2-26**

Job Ticket: 63778

**DST#: 2**

ATTN: Tim Priest

Test Start: 2017.03.27 @ 14:54:24

## GENERAL INFORMATION:

Formation: **Altamont C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:42:54

Time Test Ended: 20:43:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4497.00 ft (KB) To 4539.00 ft (KB) (TVD)**

Reference Elevations: 3120.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

3112.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8166 Outside**

Press@RunDepth: 11.67 psig @ 4502.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.27 End Date: 2017.03.27

Last Calib.: 2017.03.27

Start Time: 14:54:29 End Time: 20:43:23

Time On Btm: 2017.03.27 @ 16:41:54

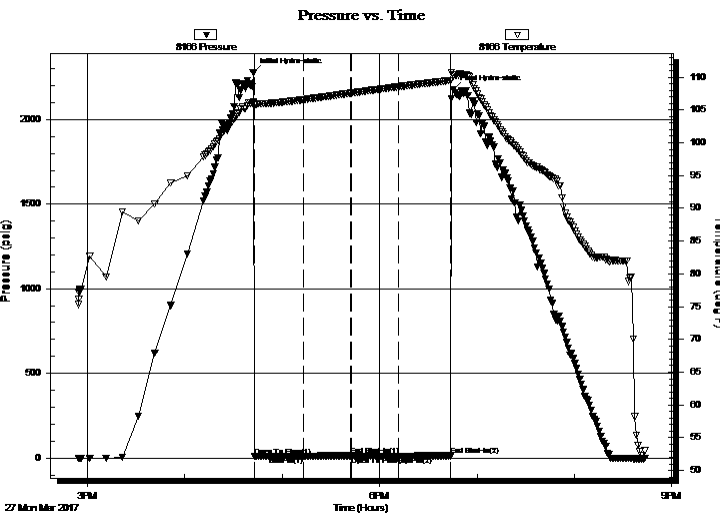
Time Off Btm: 2017.03.27 @ 18:45:24

**TEST COMMENT:** IF: Surface blow died in 5 min.

IS: No return.

FF: No blow.

FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2278.05	106.08	Initial Hydro-static
1	11.38	105.79	Open To Flow (1)
31	11.08	106.56	Shut-In(1)
60	13.83	107.56	End Shut-In(1)
61	11.76	107.57	Open To Flow (2)
90	11.67	108.55	Shut-In(2)
122	13.46	109.51	End Shut-In(2)
124	2176.90	110.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%m	0.01

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

**26-16-34 Scott, Ks**

202 W Main st  
Salem, IL 62881

**Carson 2-26**

Job Ticket: 63778

**DST#: 2**

ATTN: Tim Priest

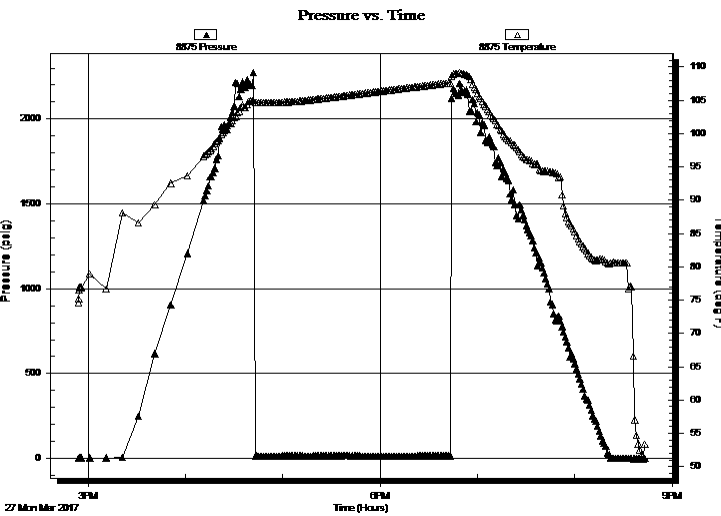
Test Start: 2017.03.27 @ 14:54:24

## GENERAL INFORMATION:

Formation: **Altamont C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:42:54  
 Time Test Ended: 20:43:24  
 Interval: **4497.00 ft (KB) To 4539.00 ft (KB) (TVD)**  
 Total Depth: 4530.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3120.00 ft (KB)  
 3112.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8875** Inside  
 Press@RunDepth: psig @ 4502.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.03.27 End Date: 2017.03.27 Last Calib.: 2017.03.27  
 Start Time: 14:54:07 End Time: 20:43:01 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: Surface blow died in 5 min.  
 IS: No return.  
 FF: No blow.  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%m	0.01

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co

**26-16-34 Scott, Ks**

202 W Main st  
Salem, IL 62881

**Carson 2-26**

Job Ticket: 63778

**DST#: 2**

ATTN: Tim Priest

Test Start: 2017.03.27 @ 14:54:24

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%m	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

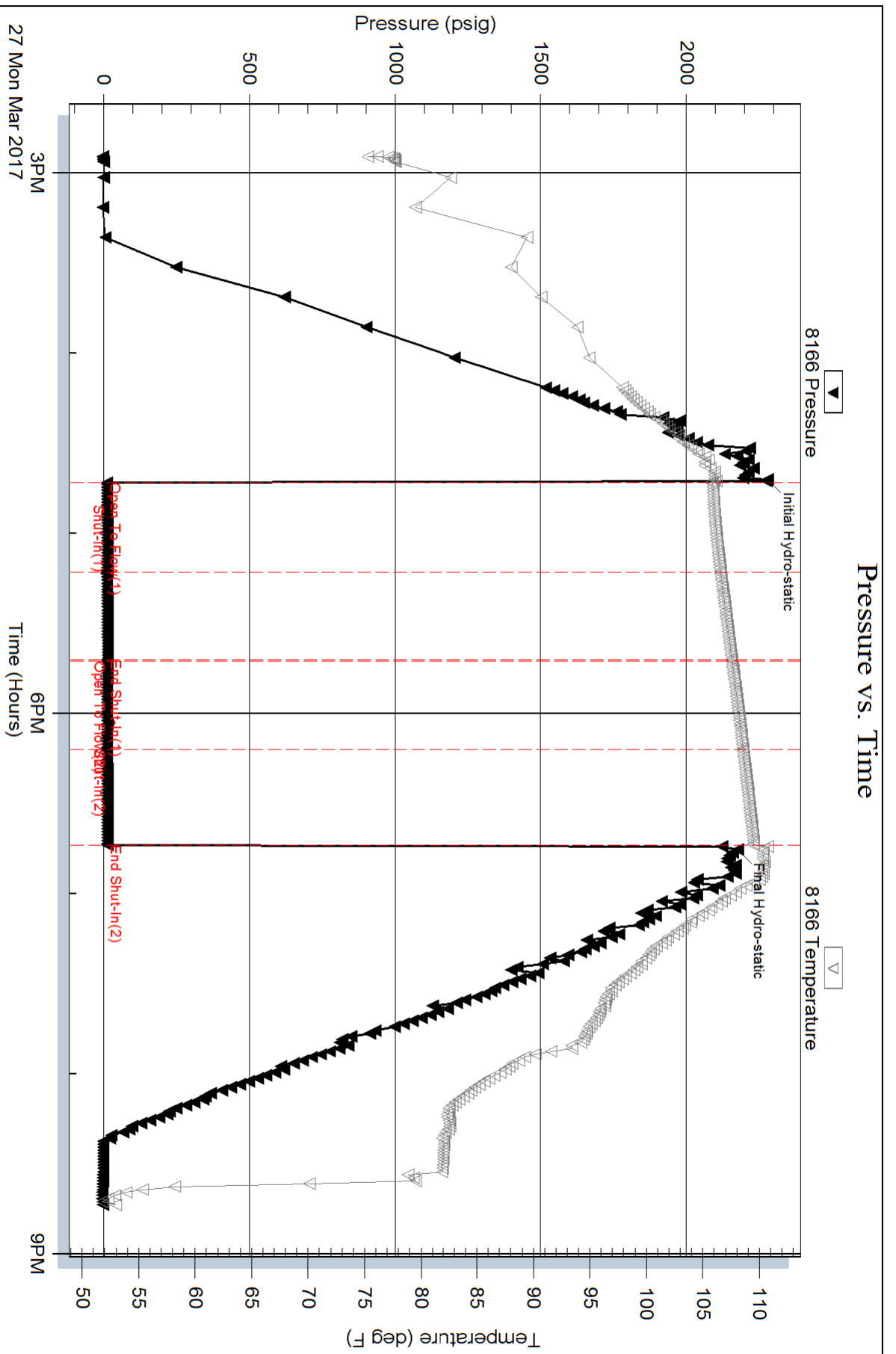
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



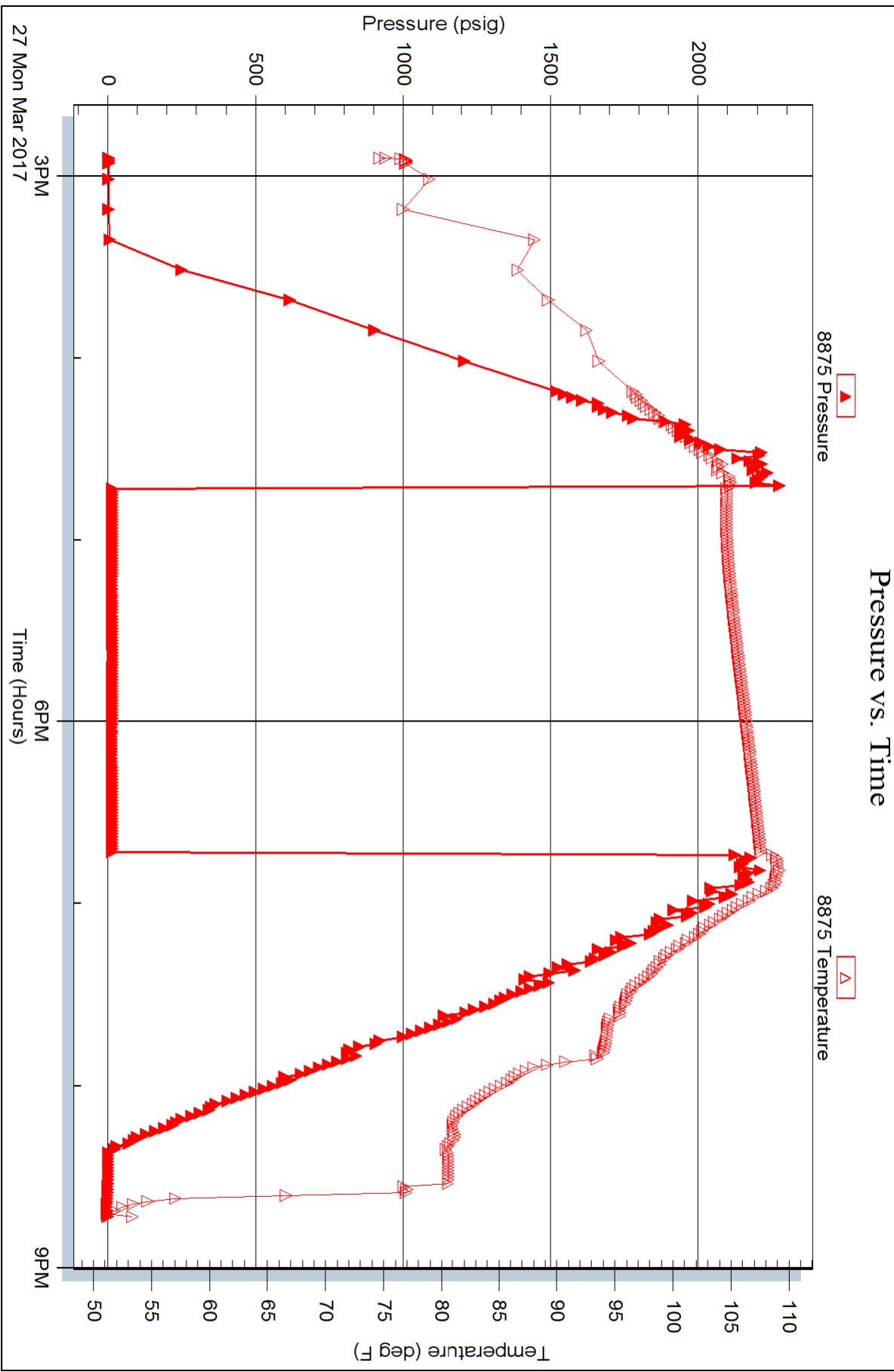
Serial #: 8875

Inside

Shakespeare Oil Co

Carson 2-26

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 63778

Printed: 2017.03.27 @ 21:05:27





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

**26-16-34 Scott, Ks**

202 W Main st  
Salem, IL 62881

**Carson 2-26**

Job Ticket: 63779

**DST#: 3**

ATTN: Tim Priest

Test Start: 2017.03.28 @ 23:15:55

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:36:55

Time Test Ended: 05:30:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4636.00 ft (KB) To 4730.00 ft (KB) (TVD)**

Reference Elevations: 3120.00 ft (KB)

Total Depth: 4730.00 ft (KB) (TVD)

3112.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8166 Outside**

Press@RunDepth: 16.59 psig @ 4641.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.28

End Date:

2017.03.29

Last Calib.:

2017.03.29

Start Time: 23:16:00

End Time:

05:30:24

Time On Btm:

2017.03.29 @ 01:35:25

Time Off Btm:

2017.03.29 @ 03:40:55

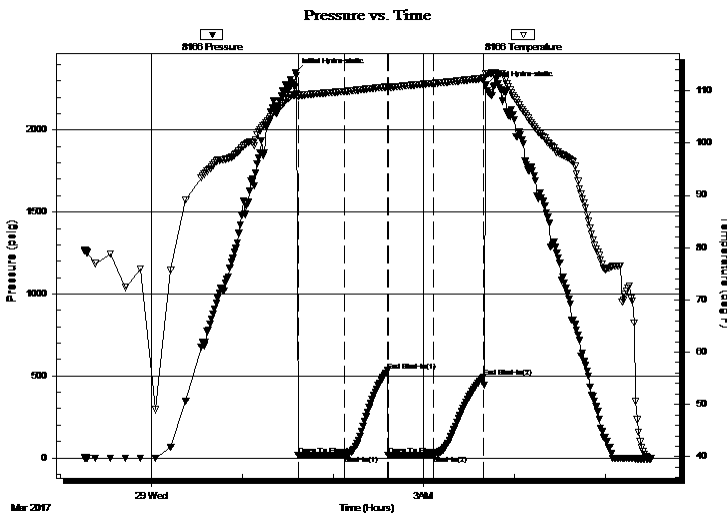
TEST COMMENT: IF: 1/4 blow died in 12 min.

IS: No return.

FF: No blow.

FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2351.50	109.28	Initial Hydro-static
2	14.16	109.01	Open To Flow (1)
33	15.68	109.88	Shut-In(1)
61	531.80	110.76	End Shut-In(1)
61	15.63	110.58	Open To Flow (2)
91	16.59	111.42	Shut-In(2)
124	492.91	112.35	End Shut-In(2)
126	2273.10	113.30	Final Hydro-static

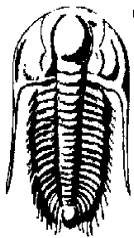
## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co

202 W Main st  
Salem, IL 62881

ATTN: Tim Priest

**26-16-34 Scott, Ks**

**Carson 2-26**

Job Ticket: 63779

**DST#: 3**

Test Start: 2017.03.28 @ 23:15:55

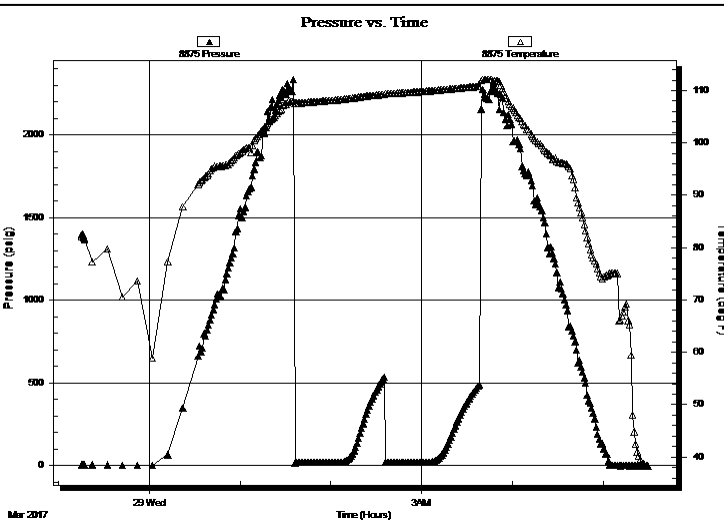
## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 01:36:55  
 Tester: Brandon Turley  
 Time Test Ended: 05:30:25  
 Unit No: 79  
 Interval: **4636.00 ft (KB) To 4730.00 ft (KB) (TVD)**  
 Reference Elevations: 3120.00 ft (KB)  
 Total Depth: 4730.00 ft (KB) (TVD)  
 3112.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 8.00 ft

**Serial #: 8875** Inside

Press@RunDepth: psig @ 4641.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.03.28 End Date: 2017.03.29 Last Calib.: 2017.03.29  
 Start Time: 23:15:26 End Time: 05:29:50 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: 1/4 blow died in 12 min.  
 IS: No return.  
 FF: No blow.  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% <sup>m</sup>	0.07

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Co

**26-16-34 Scott, Ks**

202 W Main st  
Salem, IL 62881

**Carson 2-26**

Job Ticket: 63779

**DST#: 3**

ATTN: Tim Priest

Test Start: 2017.03.28 @ 23:15:55

### 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

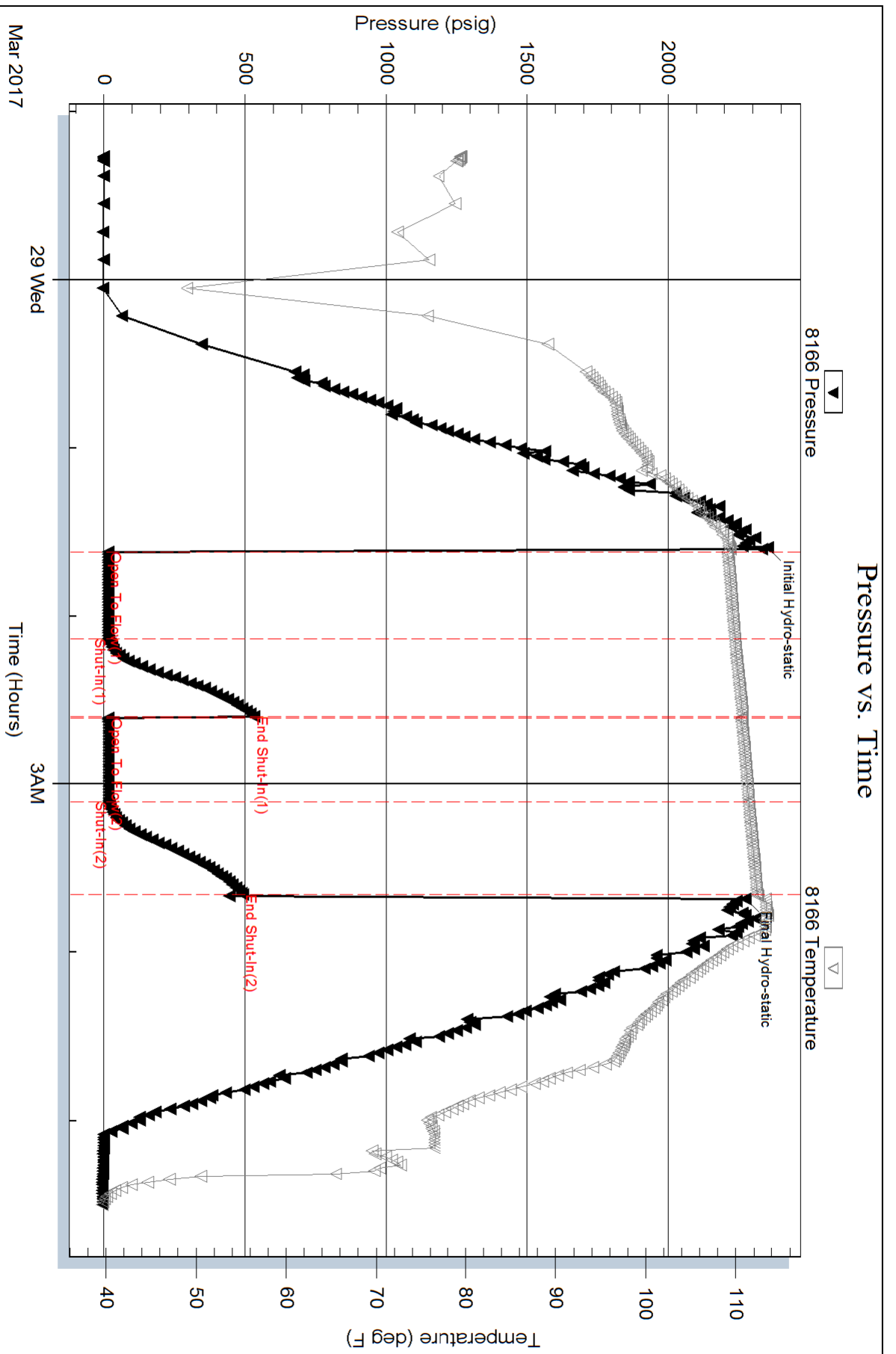
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



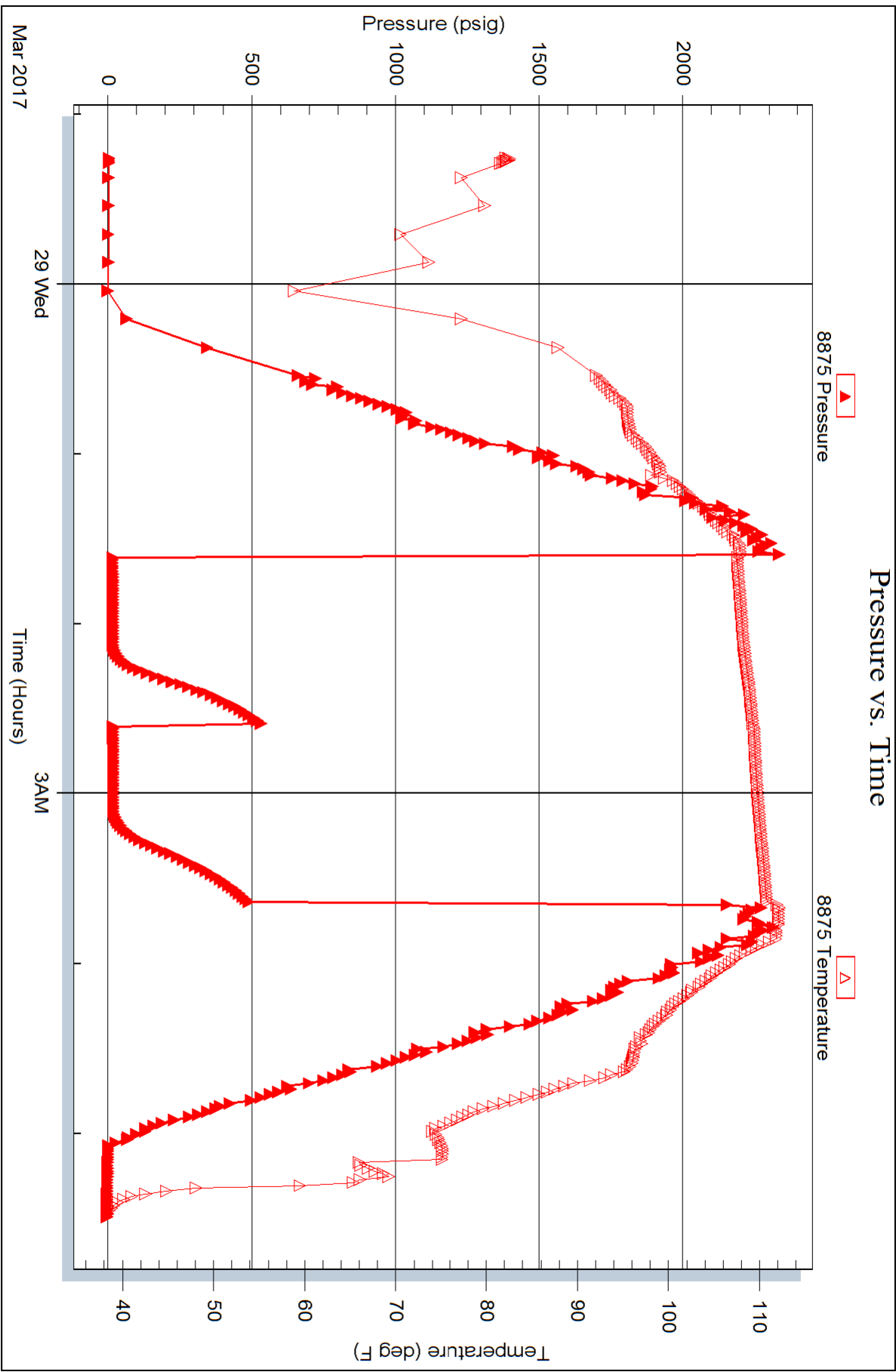
Serial #: 8875

Inside

Shakespeare Oil Co

Carson 2-26

DST Test Number: 3





P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
3/20/2017	30301

BILL TO
Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881

- Acidizing
- Cement
- Tool Rental

*Revised!*

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2	Carson	Scott	Duke Drilling Rig ...	Oil	Development	Cement 8 5/8 Sur...	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	5.00	350.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)				1	Job	800.00	800.00
279	Bentonite Gel				3	Sack(s)	25.00	75.00T
278	Calcium Chloride				7	Sack(s)	40.00	280.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
325	Standard Cement				160	Sacks	12.25	1,960.00T
581D	Service Charge Cement				160	Sacks	1.50	240.00
583D	Drayage				549.14	Ton Miles	0.75	411.86
	Subtotal							4,200.86
Customer Disc...	Customer Discount Per Ted						-10.00%	-420.09
	Subtotal							3,780.77
	Sales Tax Scott County						8.50%	183.52

*INT*

RECEIVED  
MAR 27 2017

*10502-S  
KW*

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$3,964.29
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*DW*



CHARGE TO: SNARESPARE OIL  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET 30301

PAGE 1 OF 1

1. SERVICE LOCATIONS: WELL/PROJECT NO. ARSON # 2 LEASE ARSON # 2 COUNTY/PARISH SCOTT STATE KS. CITY SCOTT CITY, KS. DATE ADMAR17 OWNER

2. TICKET TYPE:  SERVICE  SALES CONTRACTOR DUKE DRILLING # 2 RIG NAME/NO. DEVELOPMENT SHIPPED VIA WELL PERMIT NO.

3. WELL TYPE OIL WELL CATEGORY DEVELOPMENT JOB PURPOSE CEMENT 8 5/8 SURFACE ORDER NO.

4. REFERRAL LOCATION: INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QUANTITY				UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M		
575					MILEAGE # 115	70	mi			5.00	350.00
576.5					PUMP CHARGE					8.00	880.00
279					GEL	3	SX			25.00	75.00
278					CALCIUM CHLORIDE	7	SX			40.00	280.00
290					D-AIR	2	PK			42.00	84.00
325					STANDARD CEMENT	160	SX			12.25	1960.00
581					CEMENT SERVICE CHARGE	160	SX			5.00	2400.00
583					DRAPAGE	15690	lbs	5.49	11m	7.3	411.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X Jim Vossler DATE SIGNED ADMAR17 TIME SIGNED 2215  AM  PM

REMIT PAYMENT TO:

SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR Jim Vossler APPROVAL Jim Vossler

PAGE TOTAL	4200	183	52	3904	22
TOTAL	4200	183	52	3904	22

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 20 MAR 17 PAGE  
TICKET NO. 30301

CUSTOMER SHAKESPEARE OIL

WELL NO.

LEASE CARSON # 2

JOB TYPE CEMENT 8 5/8

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2000							ON LOCATION
	2045							START PIPE 4 5/8 - 23' KID @ 204 SET @ 203
	2118							CIRCULATE
	2128	4	39		✓			MIX 160s STD - 2% GEL - 3% CC
	2145	3	15 1/2		✓			DISPLACE CEMENT SHUT WELL IN. CIRCULATE CEMENT TO SURFACE
	2150							WASH TRUCK
	2215							JOB COMPLETE
								THANKS #115
								JASON DAVE FRESTON

8444 29  
182 5.7  
3790 7.1  
400 1.8





P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
3/28/2017	29892

BILL TO
Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-26	Carson	Scott	Duke Drilling Rig ...	Oil	Development	PTA	David K.
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	5.00	350.00
576D-P	Pump Charge - PTA				1	Job	800.00	800.00
328-4	60/40 Pozmix (4% Gel)				300	Sacks	10.25	3,075.00T
276	Flocele				75	Lb(s)	2.25	168.75T
290	D-Air				3	Gallon(s)	42.00	126.00T
581D	Service Charge Cement				300	Sacks	1.50	450.00
583D	Drayage				885	Ton Miles	0.75	663.75
	Subtotal							5,633.50
Customer Disc...	Customer Discount Per Ted						-12.00%	-676.02
	Subtotal							4,957.48
	Sales Tax Scott County						8.50%	286.43

INT

RECEIVED  
APR 07 2017

10502-5  
KW

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$5,243.91
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DW



CHARGE TO: **Shakespeare Oil Co.**  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET 29892

PAGE 1 OF 1

1. SERVICE LOCATIONS: **Ness City, KS** WELL/PROJECT NO.: **# 2-26** LEASE: **Casson** COUNTY/PARISH: **Scott** STATE: **KS** CITY: **Pence** DATE: **3-30-17** OWNER: **Same**

2. TICKET TYPE: **SALES** CONTRACTOR: **Duke Drilling Co.** RIG NAME NO.: **#2** SHIPPED VIA: **OT** DELIVERED TO: **Location** ORDER NO.

3. WELL TYPE: **O-I** WELL CATEGORY: **Development** JOB PURPOSE: **PTA** WELL PERMIT NO.

4. REFERRAL LOCATION: **Pence - 2E, 1/2s, 1/2in** INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE			70	mi	5.00	350.00
576 P					Pump Charge - PTA			1	job	800.00	800.00
378-4					60/40 Perm. (49% Gel)			300	lbs	10.25	3075.00
276					Flock			1/4	lb	2.35	168.75
290					D-Air			3	gal	42.00	126.00
581					Service Charge Cement			300	sls	1.50	450.00
583					Drays			25285	lbs	0.25	663.75

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMERS AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: **3-30-17** TIME SIGNED: **1:30** P.M.

SWIFT OPERATOR: **David Kushn**

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  YES  NO

WE UNDERSTOOD AND MET YOUR NEEDS?  YES  NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY?  YES  NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  YES  NO

ARE YOU SATISFIED WITH OUR SERVICES?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	TOTAL
5633	5243
-670	91
4963	
286	
48	

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 3-30-17 PAGE NO. 1

CUSTOMER Shekspir Oil Co. WELL NO. #2-26 LEASE Carbon JOB TYPE PTA TICKET NO. 29892

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	DP	TUBING	DP	
	1030				DP		DP	on location DP- 4 1/2"
								RTD- 4905' LTD- 4901' 300 sks 60/40 4% Gel 1/4" Flo
	1320	4 1/2	13		✓		400	mix 50 sks @ 2490'
		4 1/2	32		✓		200	Displace Cement
	1410	4 1/2	21		✓		200	mix 80 sks @ 1560'
		4 1/2	17		✓		100	Displace Cement
	1455	4 1/2	13		✓		200	mix 50 sks @ 780'
		4 1/2	8		✓		100	Displace Cement
	1515	4 1/2	13		✓		100	mix 50 sks @ 300'
		4 1/2	1		✓		100	Displace Cement
	1550	3 1/2	5		✓		∅	mix 20 sks @ 60' circulate Cement to surface
			8-5				∅	Plug RH- MH (30-20)
								wash up trucks
	1630							Job Complete
								Thank You Dave Preston Isaac