



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1228826
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1228826

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 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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	McDaniel 1-4
Doc ID	1228826

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	McDaniel 1-4
Doc ID	1228826

Tops

Name	Top	Datum
Base Anhydrite	2500	+645
Heebner	3997	-852
Lansing	4040	-895
Muncie Creek	4216	-1071
Stark Shale	4313	-1168
Hushpuckney	4355	-1210
Pawnee	4522	-1377
Cherokee Shale	4606	-1461
Johnson	4651	-1506
Morrow Shale	4733	-1588
Mississippian	4779	-1634



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co. INC,

4-16s-34w Scott county

202 W Main ST
Salem IL, 62881

McDaniel 1-4

Job Ticket: 57479

DST#: 1

ATTN: Tim Priest

Test Start: 2014.10.07 @ 21:31:00

GENERAL INFORMATION:

Formation: " I "

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 00:20:00

Time Test Ended: 04:40:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Justin Harris

Unit No: 71

Interval: 4249.00 ft (KB) To 4290.00 ft (KB) (TVD)

Reference Elevations: 3144.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

3136.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8674 Inside

Press@RunDepth: 18.62 psig @ 4282.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.07

End Date:

2014.10.08

Last Calib.: 2014.10.08

Start Time: 21:31:05

End Time:

04:40:44

Time On Btm: 2014.10.08 @ 00:19:45

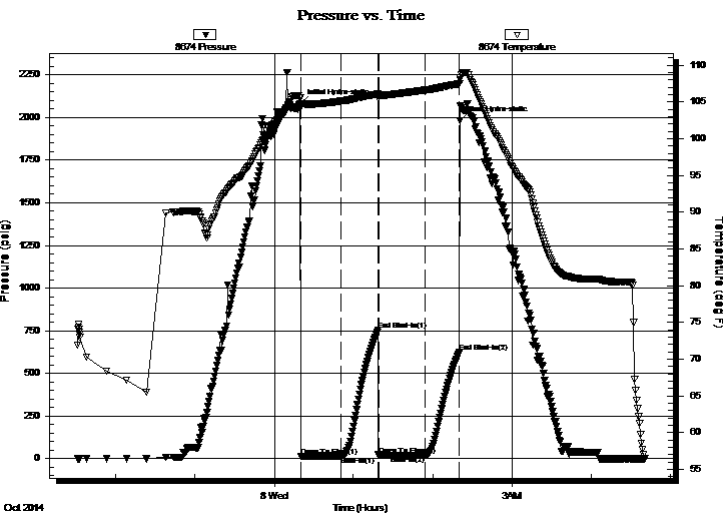
Time Off Btm: 2014.10.08 @ 02:20:45

TEST COMMENT: 30: Weak blow died in 4 mins.

30: No Return.

30: No Blow .

30: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2083.57	105.53	Initial Hydro-static
1	14.57	104.22	Open To Flow (1)
31	16.89	105.12	Shut-In(1)
59	752.68	106.10	End Shut-In(1)
60	18.32	105.80	Open To Flow (2)
95	18.62	106.61	Shut-In(2)
121	622.22	107.47	End Shut-In(2)
121	1981.70	108.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. INC,

4-16s-34w Scott county

202 W Main ST
Salem IL, 62881

McDaniel 1-4

Job Ticket: 57479

DST#: 1

ATTN: Tim Priest

Test Start: 2014.10.07 @ 21:31:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	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:

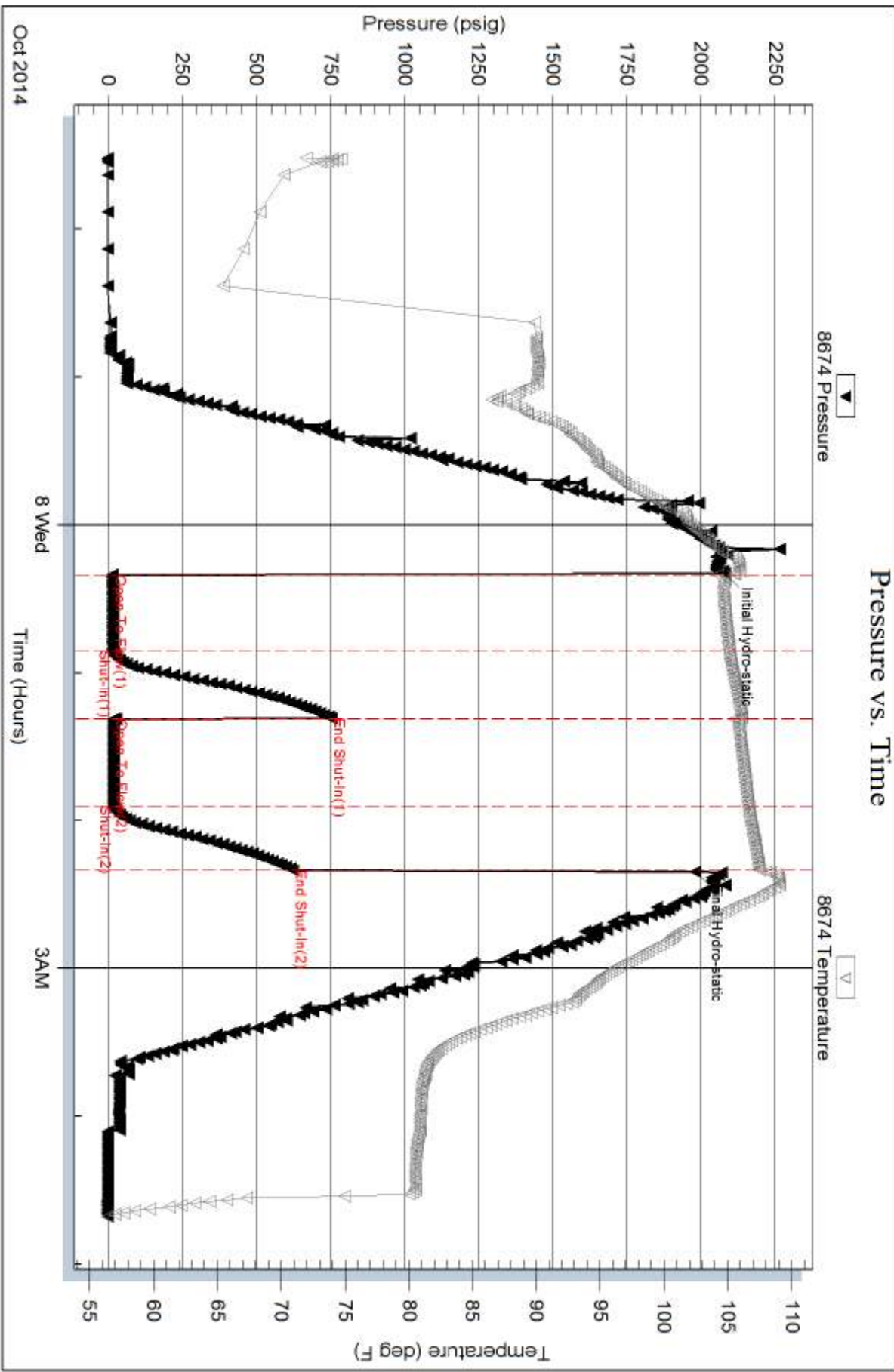
Serial #: 8674

Inside

Shakespeare Oil Co. INC.

McDaniel 1-4

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57479

Printed: 2014, 10:08 @ 10:04:17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co. INC,

4-16s-34w Scott,KS

202 W Main ST
Salem IL, 62881

McDaniel 1-4

Job Ticket: 57738

DST#: 2

ATTN: Tim Priest

Test Start: 2014.10.08 @ 14:28:00

GENERAL INFORMATION:

Formation: **LKC " K "**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 16:30:40

Time Test Ended: 21:29:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 71

Interval: 4312.00 ft (KB) To 4340.00 ft (KB) (TVD)

Total Depth: 4340.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3144.00 ft (KB)

3136.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8674 Inside

Press@RunDepth: 97.67 psig @ 4316.00 ft (KB)

Start Date: 2014.10.08

End Date:

2014.10.08

Start Time: 14:28:00

End Time:

21:29:39

Capacity: 8000.00 psig

Last Calib.: 2014.10.08

Time On Btm: 2014.10.08 @ 16:30:25

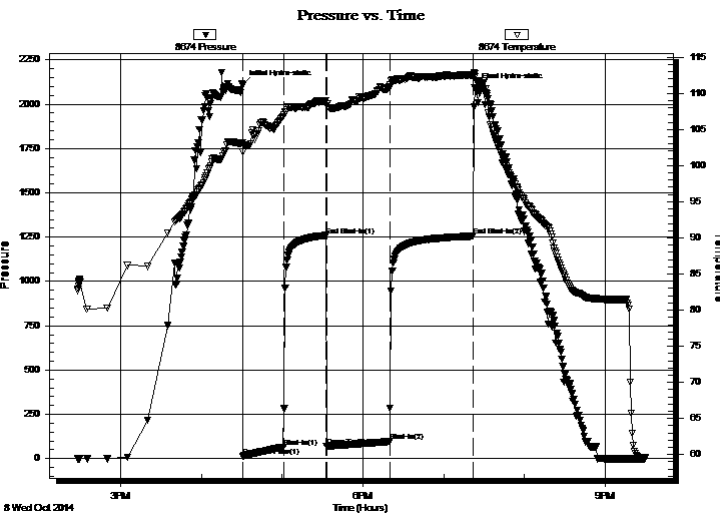
Time Off Btm: 2014.10.08 @ 19:22:54

TEST COMMENT: IF- Weak Surface Blow Built to 2"

IS- No Blow

FF- Weak Surface Blow Bilt to 3 3/4"

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.15	103.20	Initial Hydro-static
1	14.24	101.85	Open To Flow (1)
31	65.76	106.80	Shut-In(1)
62	1260.30	109.03	End Shut-In(1)
63	68.38	108.33	Open To Flow (2)
110	97.67	110.87	Shut-In(2)
172	1256.14	112.53	End Shut-In(2)
173	2093.89	112.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCW 19%m 81%w	0.61
31.00	MCW 44%m 56%w with a Few Oil Sp	0.43

* 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. INC,

4-16s-34w Scott,KS

202 W Main ST
Salem IL, 62881

McDaniel 1-4

Job Ticket: 57738

DST#: 2

ATTN: Tim Priest

Test Start: 2014.10.08 @ 14:28:00

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:

29500 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
124.00	MCW 19%m 81%w	0.610
31.00	MCW 44%m 56%w with a Few Oil Spots	0.435

Total Length: 155.00 ft Total Volume: 1.045 bbf

Num Fluid Samples: 0

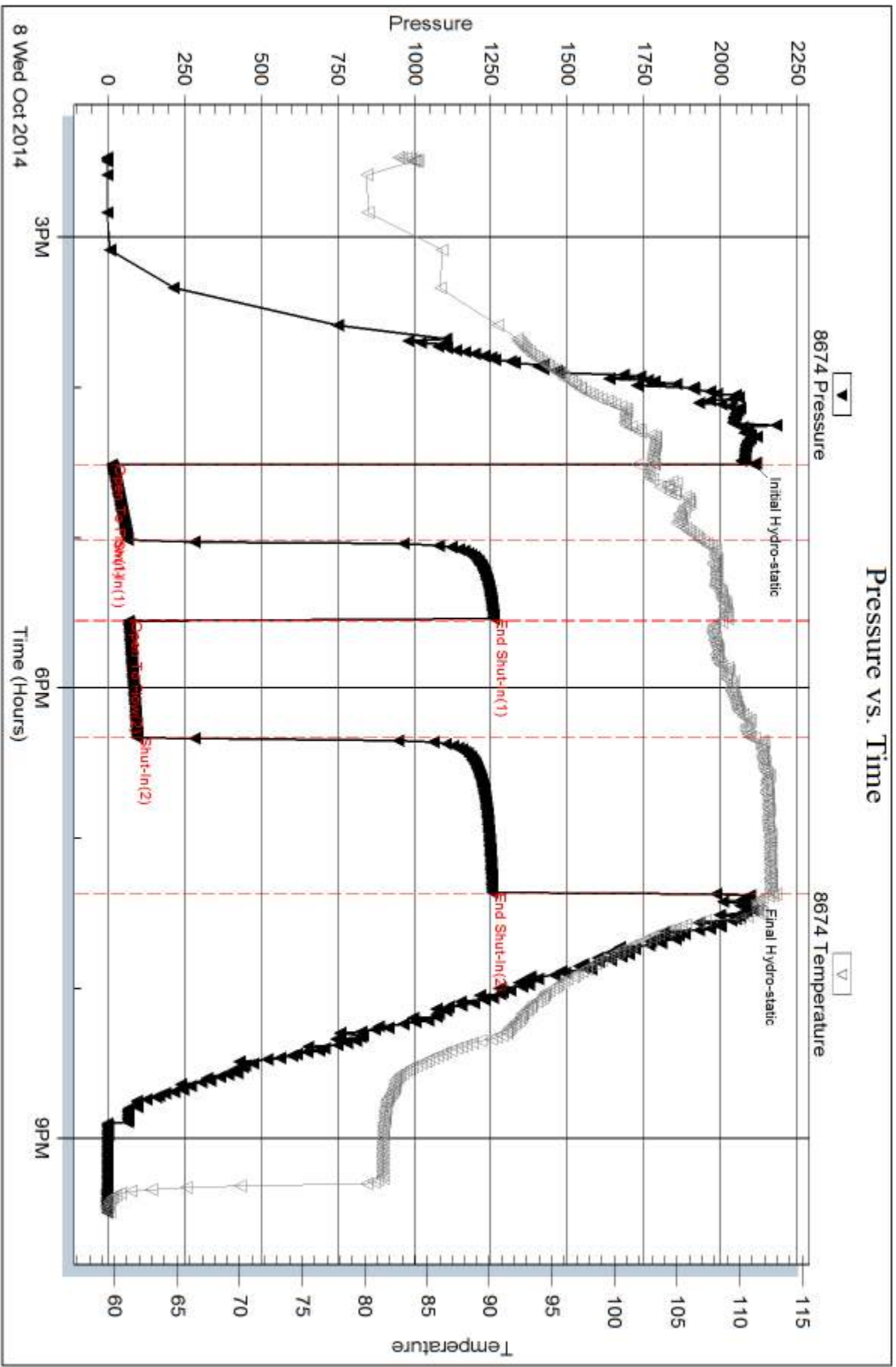
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .271 @ 63f = 29500





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co. INC,

4-16s-34w Scott county KS

202 W Main ST
Salem IL, 62881

McDaniel 1-4

Job Ticket: 57739

DST#: 3

ATTN: Tim Priest

Test Start: 2014.10.09 @ 20:26:00

GENERAL INFORMATION:

Formation: **Marmanton " A "**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 22:52:25

Time Test Ended: 03:00:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 71

Interval: 4417.00 ft (KB) To 4475.00 ft (KB) (TVD)

Reference Elevations: 3144.00 ft (KB)

Total Depth: 4475.00 ft (KB) (TVD)

3136.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674 Inside

Press@RunDepth: 16.76 psig @ 4419.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.09

End Date: 2014.10.10

Last Calib.: 2014.10.10

Start Time: 20:26:00

End Time: 03:00:39

Time On Btm: 2014.10.09 @ 22:52:10

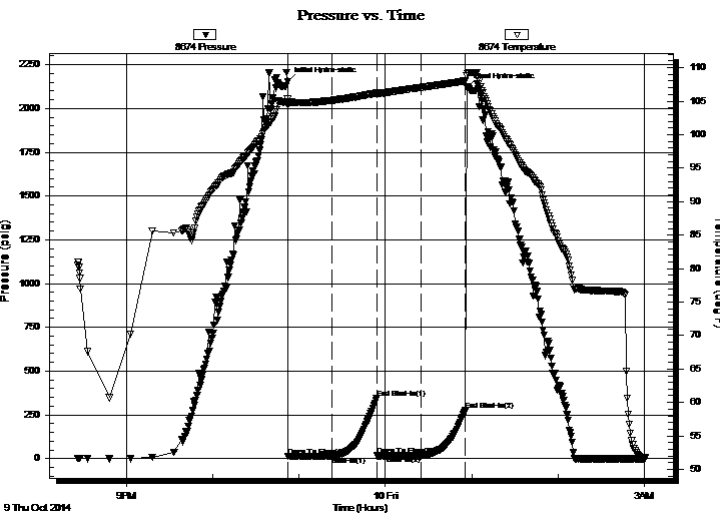
Time Off Btm: 2014.10.10 @ 00:56:24

TEST COMMENT: IF- Weak Surface Blow 1/2"

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.17	105.32	Initial Hydro-static
1	14.00	104.45	Open To Flow (1)
31	15.59	105.12	Shut-In(1)
62	343.42	106.21	End Shut-In(1)
62	16.25	106.03	Open To Flow (2)
93	16.76	107.05	Shut-In(2)
124	273.79	108.03	End Shut-In(2)
125	2121.49	108.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	OCM 37%oil 63%m	0.02
1.00	100%oil	0.00

* 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. INC,

4-16s-34w Scott county KS

202 W Main ST
Salem IL, 62881

McDaniel 1-4

Job Ticket: 57739

DST#: 3

ATTN: Tim Priest

Test Start: 2014.10.09 @ 20:26:00

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: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
4.00	OCM 37%oil 63%m	0.020
1.00	100%oil	0.005

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

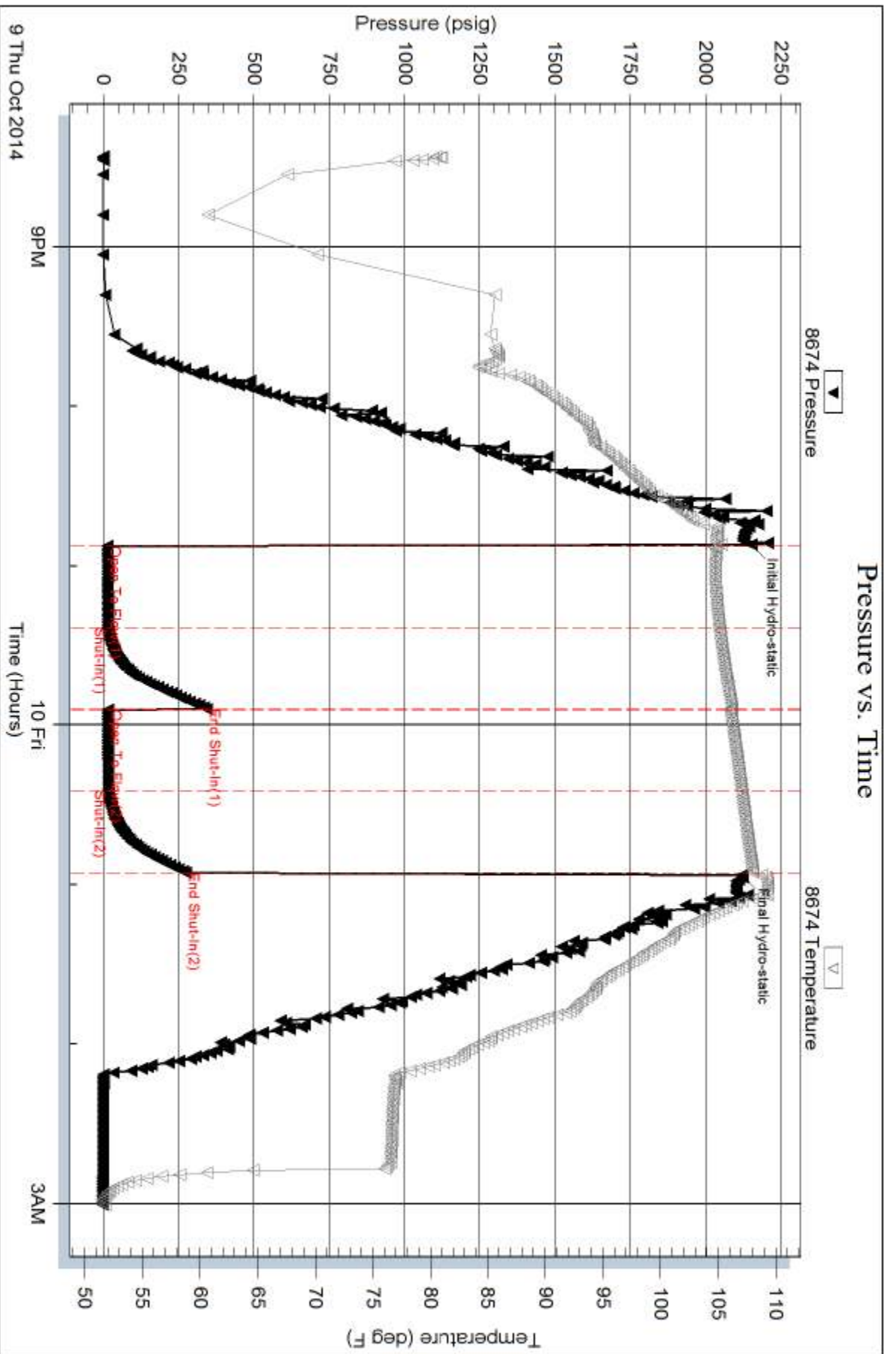
Num Gas Bombs: 0

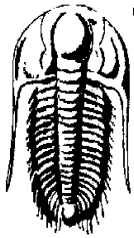
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. INC,

4-16s-34w Scott county KS

202 W Main ST
Salem IL, 62881

McDaniel 1-4

Job Ticket: 57740

DST#: 4

ATTN: Tim Priest

Test Start: 2014.10.10 @ 13:04:00

GENERAL INFORMATION:

Formation: **Marmanton " B - C "**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 15:43:40

Time Test Ended: 20:04:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 71

Interval: 4473.00 ft (KB) To 4520.00 ft (KB) (TVD)

Total Depth: 4520.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3144.00 ft (KB)

3136.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8674 Inside

Press @ Run Depth: 20.78 psig @ 4474.00 ft (KB)

Start Date: 2014.10.10

End Date: 2014.10.10

Start Time: 13:04:00

End Time: 20:04:54

Capacity: 8000.00 psig

Last Calib.: 2014.10.10

Time On Btm: 2014.10.10 @ 15:43:10

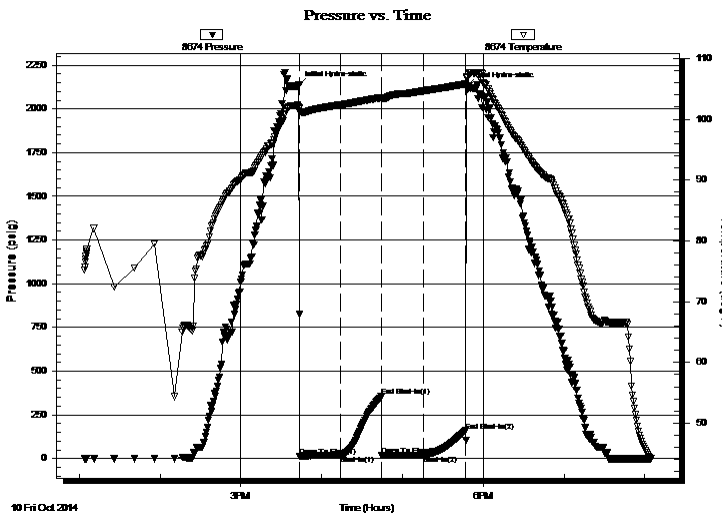
Time Off Btm: 2014.10.10 @ 17:47:24

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

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2134.43	101.96	Initial Hydro-static
1	13.45	101.16	Open To Flow (1)
31	18.87	102.36	Shut-In(1)
62	354.91	103.56	End Shut-In(1)
62	19.75	103.36	Open To Flow (2)
93	20.78	104.65	Shut-In(2)
124	158.73	105.79	End Shut-In(2)
125	2126.64	106.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	WCM 3%w 97% m with a Skim of Oil on 0.02	

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. INC,

4-16s-34w Scott county KS

202 W Main ST
Salem IL, 62881

McDaniel 1-4

Job Ticket: 57740

DST#: 4

ATTN: Tim Priest

Test Start: 2014.10.10 @ 13:04:00

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: 44.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	WCM 3%w 97%m with a Skim of Oil on To	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

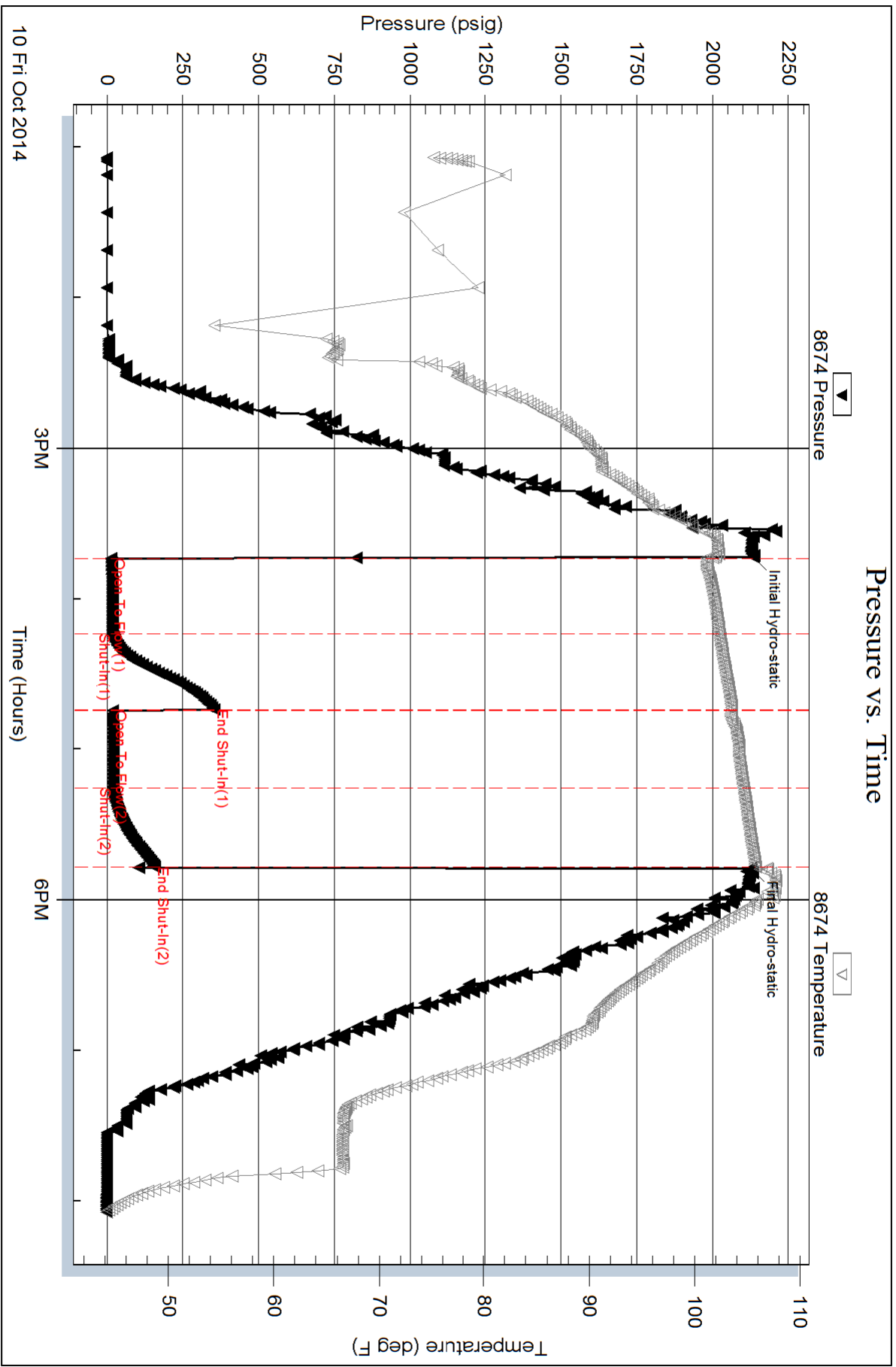
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

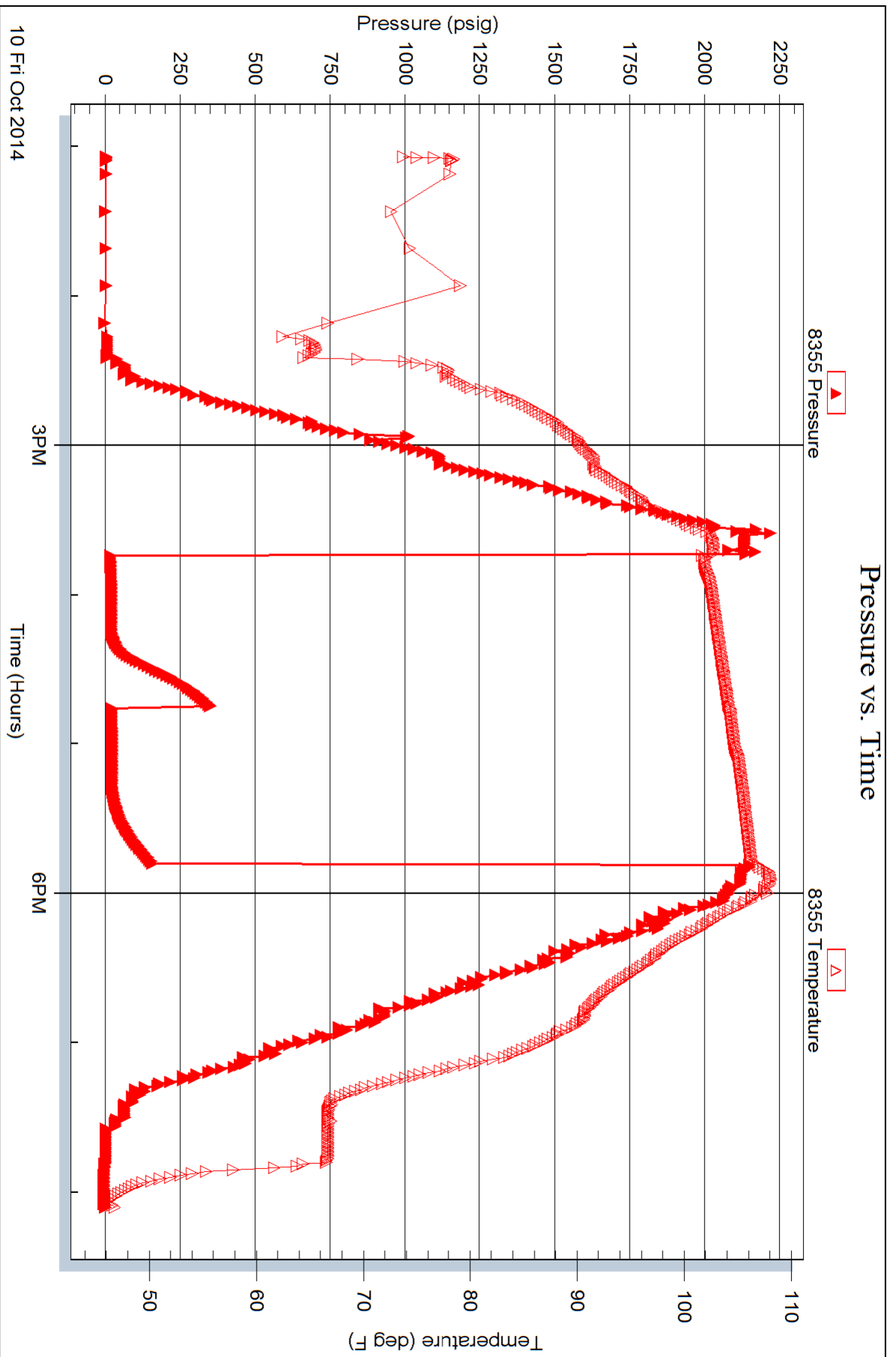


Serial #: 8355

Outside Shakespeare Oil Co. INC,

McDaniel 1-4

DST Test Number: 4





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. INC,

4-16s-34w Scott county KS

202 W Main ST
Salem IL, 62881

McDaniel 1-4

Job Ticket: 57741

DST#: 5

ATTN: Tim Priest

Test Start: 2014.10.11 @ 09:52:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 11:46:40

Time Test Ended: 16:00:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 71

Interval: 4556.00 ft (KB) To 4600.00 ft (KB) (TVD)

Reference Elevations: 3144.00 ft (KB)

Total Depth: 4600.00 ft (KB) (TVD)

3136.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674 Inside

Press @ Run Depth: 17.70 psig @ 4558.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.11

End Date:

2014.10.11

Last Calib.: 2014.10.11

Start Time: 09:52:00

End Time:

16:00:24

Time On Btm: 2014.10.11 @ 11:46:25

Time Off Btm: 2014.10.11 @ 13:53:25

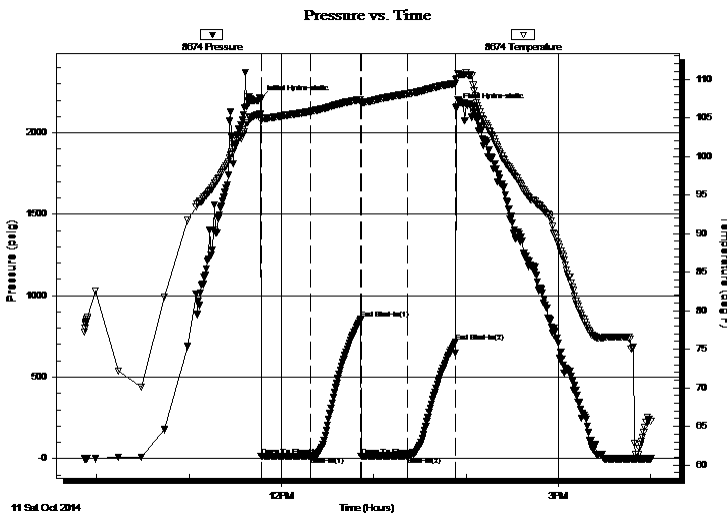
TEST COMMENT: IF- Weak Surface Blow

IS- No Blow

FF- No Blow

FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2206.07	105.46	Initial Hydro-static
1	13.12	104.63	Open To Flow (1)
33	15.23	105.83	Shut-In(1)
65	854.28	107.39	End Shut-In(1)
66	16.02	106.91	Open To Flow (2)
96	17.70	108.10	Shut-In(2)
127	713.54	109.42	End Shut-In(2)
127	2151.13	109.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% m w ith Oil Spots	0.02

* 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. INC,

4-16s-34w Scott county KS

202 W Main ST
Salem IL, 62881

McDaniel 1-4

Job Ticket: 57741

DST#: 5

ATTN: Tim Priest

Test Start: 2014.10.11 @ 09:52:00

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: 44.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	100% m with Oil Spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

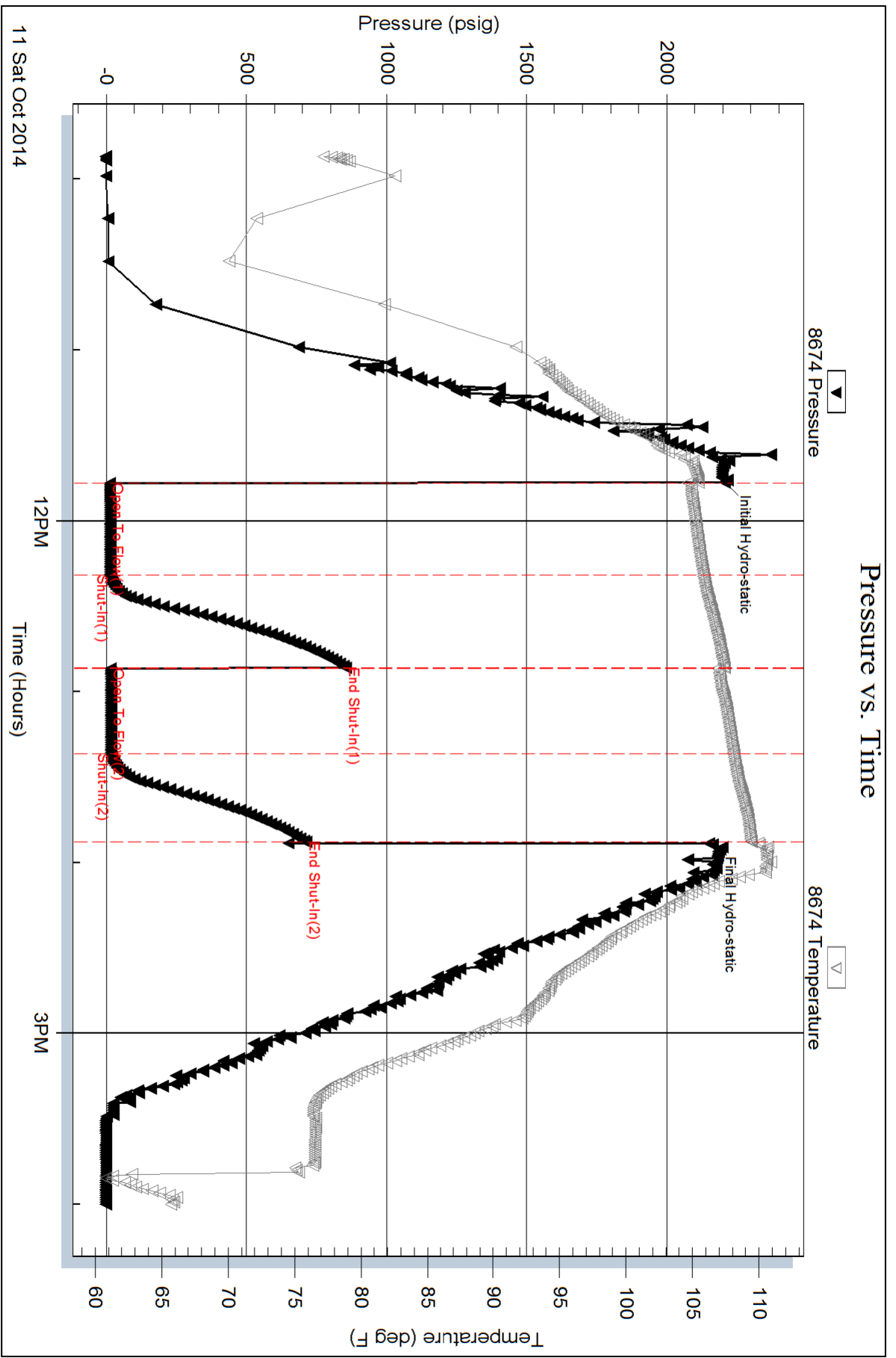
Serial #: 8674

Inside

Shakespeare Oil Co. INC,

McDaniel 1-4

DST Test Number: 5





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. INC,
202 W Main ST
Salem IL, 62881
ATTN: Tim Priest

4-16s-34w Scott county KS
McDaniel 1-4
Job Ticket: 57742 **DST#: 6**
Test Start: 2014.10.12 @ 08:48:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 11:22:55
Time Test Ended: 17:22:55
Interval: **4650.00 ft (KB) To 4720.00 ft (KB) (TVD)**
Total Depth: 4720.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Will MacLean
Unit No: 71
Reference Elevations: 3144.00 ft (KB)
3136.00 ft (CF)
KB to GR/CF: 8.00 ft

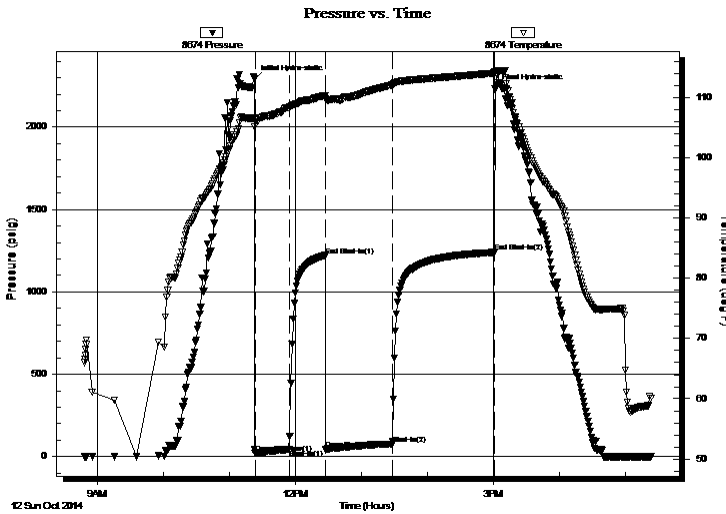
Serial #: 8674

Inside

Press @ Run Depth: 75.26 psig @ 4652.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.10.12 End Date: 2014.10.12 Last Calib.: 2014.10.12
Start Time: 08:48:00 End Time: 17:22:55 Time On Btm: 2014.10.12 @ 11:22:25
Time Off Btm: 2014.10.12 @ 15:01:09

TEST COMMENT: IF- Weak Surface Blow Built to 1"
IS- No Blow
FF- Weak Surface Blow Built to 1 1/2"
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2291.23	106.69	Initial Hydro-static
1	21.58	106.06	Open To Flow (1)
32	42.88	108.44	Shut-In(1)
65	1221.35	110.36	End Shut-In(1)
65	45.45	109.78	Open To Flow (2)
125	75.26	112.12	Shut-In(2)
219	1240.47	114.11	End Shut-In(2)
219	2231.25	114.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	WCM 2%w 98%m with a Skim of Oil on	0.61
20.00	100%m with Oil Spots	0.28

* 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. INC,

4-16s-34w Scott county KS

202 W Main ST
Salem IL, 62881

McDaniel 1-4

Job Ticket: 57742

DST#: 6

ATTN: Tim Priest

Test Start: 2014.10.12 @ 08:48:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	WCM 2%w 98%m with a Skim of Oil on To	0.610
20.00	100%m with Oil Spots	0.281

Total Length: 144.00 ft

Total Volume: 0.891 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

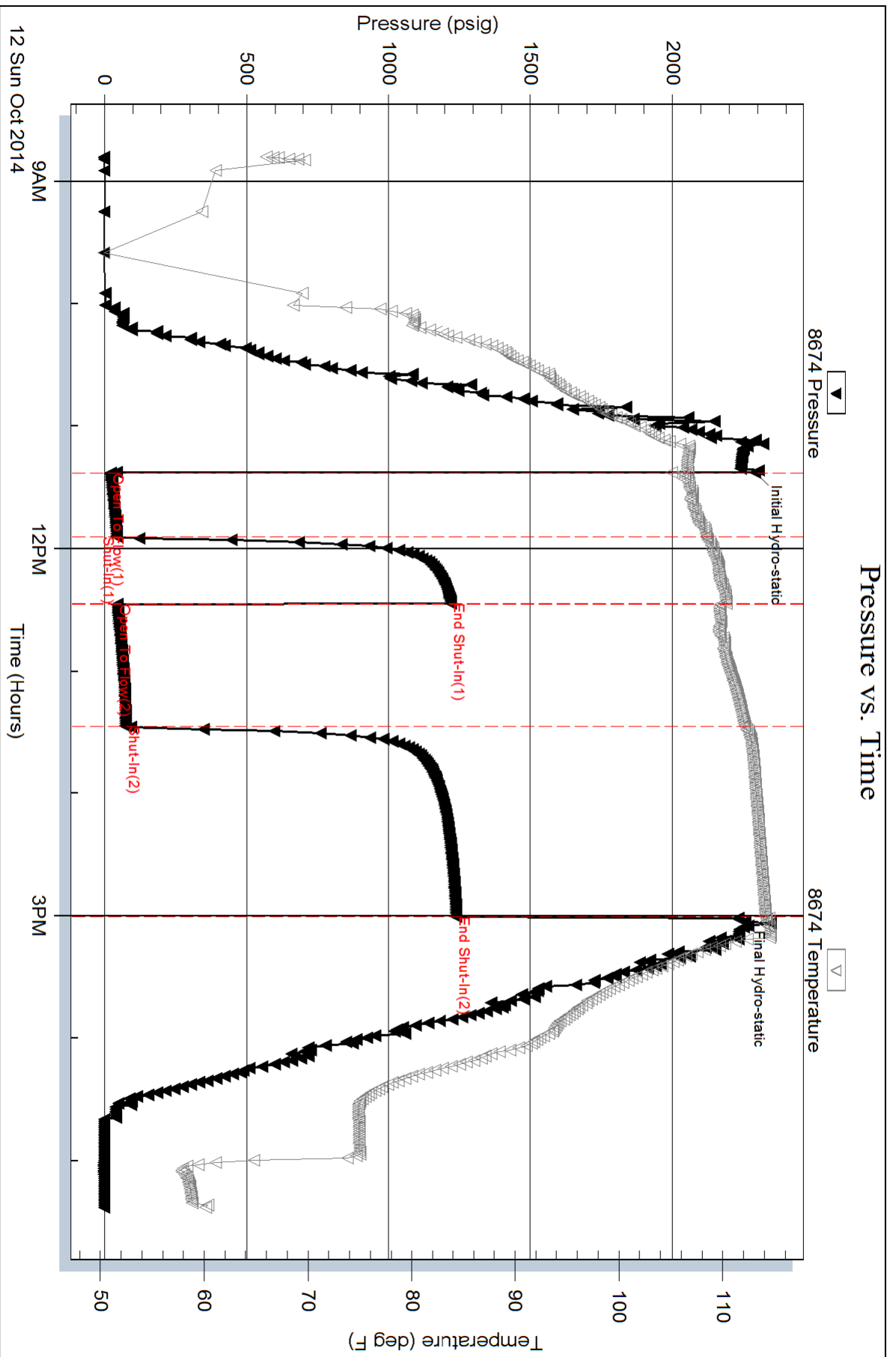
Serial #: 8674

Inside

Shakespeare Oil Co. INC.

McDaniel 1-4

DST Test Number: 6



GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPEARE OIL CO.** ELEVATIONS
 LEASE **McBarbara L-4** KG 3145'
 FIELD **Wildcat** DF _____
 LOCATION **400' TSL 2296' FWL** GL 3135'
 SEC **4** TWPSP **16S** RPE **34W**
 COUNTY **Scott** STATE **Kansas** Measurements Are All From **KB**

CONTRACTOR **HD Rite 2**
 SPUD **10-2-14** COMPLETION _____
 RTD **4802'** LTD **4802'** CASING _____
 MUD UP **3600'** TYPE MUD **Chemical** CONDUCTIVITY **N/A**
 SAMPLES SAVED FROM **3800'** to RTD SURFACE **8-5/8" @ 267'**
 DRILLING TIME KEPT FROM **3800'** to RTD PRODUCTION **None**
 SAMPLES EXAMINED FROM **3800'** to RTD ELECTRICAL SURVEYS **CND/D/SP/P.E.**
 GEOLOGICAL SUPERVISION FROM **3800'** to RTD GEOLOGIST ON WELL **Tim Priest** Micro _____
 FORMATION TOPS _____ By: **Weatherford**

FORMATION TOPS _____ SAMPLE _____
 Anyvdrite **2480 (+665)** **2484 (+661)**
 Heebner Shale **3997 (+852)** **3998 (+853)**
 Lansing **4040 (+895)** **4041 (+896)**
 SARC **4313 (+1168)** **4314 (+1169)**
 BRC **4398 (+1253)** **4403 (+1258)**
 Fort Scott **4579 (+1434)** **4577 (+1432)**
 Cherokee Shale **4606 (+1461)** **4606 (+1461)**
 Mississippian **4779 (+1634)** **4779 (+1634)**

REMARKS Due to lack of shows on DST's, it was decided to plug and abandon the well.

Respectfully Submitted,
 Tim Priest
 Petroleum Geologist

API #15-171-21093-00-00

LITHOLOGY

DEPTH

DRILLING TIME IN MINUTES PER FOOT
 Rate of Penetration Decreases

LEGEND

Anyhdrite Sandstone Limestone Shale Carb Sh Cherty LS Chert Dolomite

SAMPLE DESCRIPTION

REMARKS

2500 Anhydrite 2484(+661)

Base/Anhydrite 2503(+642)

Ls crm-t gry, fn xtl, chky, f int xtl por, NS

Sh red-gry

Ls/Dol tan, fn xtl, chky, f int xtl por, NS

Ls crm-gry moldd, fos, sli chky, p-f int xtl-pp por, NS

Sh blk, carb

Sh/SS red-gry, fn-med grn, p sort, friable, NS

Ls crm-tan-gry, fn xtl, arg in prt no vis por

Ls tan, vfn xtl, sli fos, dnse

Sh blk, carb

Sh red-maroon

Ls crm-t gry, fos, chky, p-f int xtl & int frag por, NS

Ls crm, vfn xtl, chty, dnse

Ls crm-tan, fn xtl, fos, p-f int xtl-pp por, NS

Ls crm-tan, fn xtl, fos, f int xtl-pp & vug por, NS

Sh gry-dk gry, calc

Sh blk, carb

Heebner 3998 (-853)

Toronto 4011 (-866)

Ls crm-t gry, fn xtl, fos, sli chty, p int xtl por, NS

Ls crm, fn xtl, fos, chky, p-f int xtl-pp por, NS

Ls crm-t gry, fn xtl, fos, p int xtl & int frag por, NS

Sh gry-dk gry, calc

Lansing 4041 (-896)

Ls crm, fn xtl, fos, chky, p-f int xtl-pp por, NS

Sh gry-dk gry

Ls crm-t gry, vfn xtl, chky, dnse

Ls/Dol crm, fn-med xtl, f int xtl-pp por, NS

Ls crm, vfn xtl, sli fos, sli chty, dnse

Ls crm-t gry, vfn xtl, sli chty, dnse

Sh dk gry-blk

Ls crm, fn xtl, fos-sil ool, chky, p int xtl-pp por, NS

Sh gry

Ls crm-t gry, fn xtl, fos-sub ool, chky, p-f int xtl & int frag por, sptd-sli sat stn on few pcs, VSSFO, sli odor, no fluor

Dol crm, fn-med xtl, chky, p int xtl por, NS

Ls crm-tan, fn xtl, fos, chky, p-f int xtl por, NS

Ls crm-t gry, vfn xtl, dnse

Ls crm-tan, fn xtl, fos, chky, f-g int xtl & int frag por, NS

Ls crm-t gry, fn xtl, fos, chky, p-f int xtl-pp por, NS

Ls gry, vfn xtl, dnse

Sh red-gry

Ls crm-tan, vfn xtl, fos, dnse

Sh blk, carb

Ls tan-gry, fn xtl, fos, sli chty, p-f int xtl-pp w/scat vugs, sptd-sat dk stn, SFO, f odor, dull fluor

Ls crm-t gry, vfn xtl, dnse

Ls crm-t gry, fn xtl, fos, chky, p-f int xtl-pp por, NS

Ls crm-t gry, vfn xtl, sli fos, sli chky, dnse

DST#1

Ls crm-t gry, fn xtl, fos, sli chky, p-f int xtl-pp por, w/few vugs, sptd-sat dk stn, SFO, f odor, dull fluor

Ls crm-t gry, vfn xtl, dnse

Sh grn-gry

Ls crm-tan, fn xtl, ool, p-f int ool & ooc por, NS

Ls crm-t gry, vfn xtl, dnse

Sh blk, carb

Ls tan-gry, vfn xtl, dnse

Sh grn-gry

Ls tan-gry, fn xtl, fos, sli chky, p-f int xtl & pp-vug por, sptd-sat dk stn, SFO, f odor, no fluor

Ls lt gry, vfn xtl, dnse

Ls crm-t gry, fn xtl, fos, chky, p-f int xtl-pp por, NS

Sh blk, carb

Sh tan-gry, vfn xtl, dnse

Ls tan-gry, fn xtl, fos, sli chky, p-f int xtl & pp-vug por, sptd-sat dk stn, SSFO, sli odor, no fluor

Ls lt gry, vfn xtl, dnse

Ls crm-gry, fn xtl, fos, chky, arg in prt

Ls/Dol, crm fn xtl, p-f int xtl por, NS

Sh blk, carb

Sh gry-blk

Ls crm-tan, fn xtl, sli fos, sli chky, p-f int xtl-pp por w/scat ooc por, NS

Ls crm-tan, vfn xtl, dnse

Sh var col, silty, sandy in prt

Sh gry-blk

Ls crm-tan, fn xtl, sli fos, sli chky, p-f int xtl-pp por w/few vugs, sptd-sli sat stn, SSFO, sli odor, dull fluor

Sh grn-gry-red

Ls crm-t gry, fos-ool, sli chky, p-f int xtl & int ool por, sptd-sli sat dk stn, SSFO, sli odor, dull fluor

Ls crm-t gry, vfn xtl, dnse

Sh grn-gry

Ls crm-t gry, fn xtl, fos, sli chky, p-f int xtl-pp por, sptd-sat dk stn, SSFO, sli odor, no fluor

Sh red-gry

Ls crm, mic xtl, dnse

Ls crm-t gry, vfn xtl, fos-ool, dnse

Ls tan-gry, fn xtl, ool, sli chky, p-f int ool por, sptd-sli sat stn, SFO, f odor, dull fluor

Sh blk, carb

Ls tan-gry, vfn xtl, arg in prt

Ls crm-t gry, vfn xtl, dnse

Ls lt gry-gry, vfn xtl, sli chty, dnse

Sh blk, carb

Ls crm-tan, fn xtl, fos-ool in prt, sli chty, p int xtl-pp por, sptd-sat stn on 2 pccs, VSSFO, sli odor, dull fluor

Sh blk, carb

Ls tan-gry, mic xtl, dnse

Ls tan-gry, vfn xtl, arg in prt

DST#2

Ls tan-gry, fn xtl, fos, sli chky, p-f int xtl-pp por, sptd-sli sat stn, SSFO, sli odor, dull fluor

Ls tan-gry, vfn xtl, dnse

Ls tan-gry, vfn xtl, sli chky, dnse

Ls crm-tan, vfn xtl, fos-sli ool, wood chl, p int xtl-pp por, sptd-sli sat stn, SSFO, sli odor, dull fluor

Ls tan-gry, mic xtl, dnse

Sh blk

Ls tan-gry, fn xtl, fos, chky, f int xtl & int frag por, NS

Sh dk gry

Ls gry, mic xtl, dnse

Sh blk, carb

Sh tan-gry, mic xtl, chty, dnse

Sh blk, carb

Sh tan, mic xtl, dnse

Sh grn-gry-dk gry

Ls tan-gry, fn xtl, fos, p int xtl & pp-vug por, sptd stn, VSSFO, sli odor, dull fluor

Ls crm-tan, fn xtl, fos, chky, p-f int xtl-pp por, sptd-sli sat stn, SSFO, sli odor, dull fluor

Ls tan-gry, vfn xtl, sli chky, dnse

Sh grn-gry

Ls crm-tan-gry, vfn xtl, sli chty, dnse

Ls crm-t gry, fn xtl, fos, sli chky, p-f int xtl-pp por, sptd-sat stn, SFO, f strong odor, dull fluor

Ls tan-gry, mic xtl, dnse

SS clear-wh, fn-med grn, sub rd, sil glauc, well cement, NS

SS clear-lt gry, fn-med xtl, sub rd, sli fria, NS

Sh grn-gry-dk gry, silty, w/dirty tite SS

Sh grn-gry-dk gry, silty, w/dirty tite SS

SS clear-lt gry, fn-med grn, sli dirty, fria, NS

Ls crm-t gry, vfn xtl, dnse, w/ fn-coarse grn SS inclus

Ls crm-t gry, vfn xtl, dnse, w/ fn-coarse grn SS inclus

Mississippian 4779 (-1634)

Total Depth 4802 (-1657)

4800

4700

4600

4500

4400

4300

4200

4100

3900

3800

2500

0

clock stopped

DST#3

DST#4

DST#5

DST#6

DST#7

DST#8

DST#9

DST#10

DST#11

DST#12

DST#13

DST#14

DST#15

DST#16

DST#17

DST#18

DST#19

DST#20

DST#21

DST#22

DST#23

DST#24

DST#25

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DST#84

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DST#86

DST#87

DST#88

DST#89

DST#90

DST#91

DST#92

DST#93

DST#94

DST#95



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 146150
Invoice Date: Oct 2, 2014
Page: 1

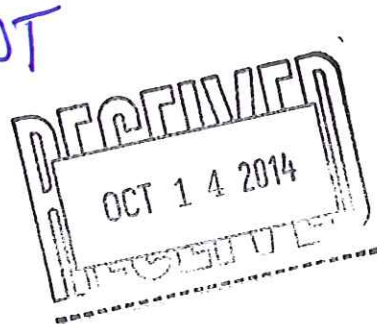
Voice: (817) 546-7282
Fax: (817) 246-3361

Federal Tax I.D.#: 20-8651475

Bill To:
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

Customer ID	Field Ticket #	Payment Terms	
Shak	64256	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Oct 2, 2014	11/1/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	McDaniel #1-4 <i>Dry Hole</i>		
190.00	CEMENT MATERIALS	Class A Common	17.90	3,401.00
357.00	CEMENT MATERIALS	Gel	0.50	178.50
536.00	CEMENT MATERIALS	Chloride	1.10	589.60
205.45	CEMENT SERVICE	Cubic Feet Charge	2.48	509.52
468.50	CEMENT SERVICE	Ton Mileage Charge	2.75	1,288.38
1.00	CEMENT SERVICE	Surface ✓	1,512.25	1,512.25
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		



*10502-5
rs*

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 2,089.81

ONLY IF PAID ON OR BEFORE
Nov 1, 2014

Subtotal	8,359.25
Sales Tax	339.78
Total Invoice Amount	8,699.03
Payment/Credit Applied	
TOTAL	8,699.03

DW



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 146427
Invoice Date: Oct 14, 2014
Page: 1

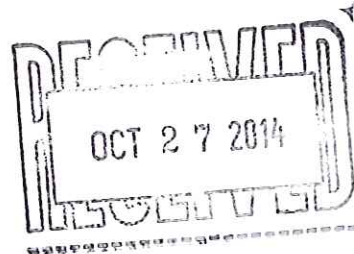
Federal Tax I.D.#: 20-8651475

Bill To:
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

Customer ID	Field Ticket #	Payment Terms	
Shak	64269	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Oct 14, 2014	11/13/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	McDaniel #1-4		
270.00	CEMENT MATERIALS	60/40/4% Gel Blend	18.92	5,108.40
67.50	CEMENT MATERIALS	Flo Seal		
289.98	CEMENT SERVICE	Cubic Feet Charge	2.48	719.15
605.00	CEMENT SERVICE	Ton Mileage Charge	2.75	1,663.75
1.00	CEMENT SERVICE	Plug to Abandon ✓	2,483.59	2,483.59
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		
1.00	EQUIPMENT OPERATOR	Shawn Tatro		

INT



Subtotal	10,579.89
Sales Tax	862.26
Total Invoice Amount	11,442.15
Payment/Credit Applied	
TOTAL	11,442.15

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 2,695.09

ONLY IF PAID ON OR BEFORE
Nov 13, 2014

DW
10502-17
KW

