



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1233982
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: _____

1233982

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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. <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	Bahm 2-21
Doc ID	1233982

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Bahm 2-21
Doc ID	1233982

Tops

Name	Top	Datum
Base Anhydrite	2478	+667
Heebner	3998	-853
Lansing	4036	-891
Muncie Creek	4230	-1085
Stark Shale	4323	-1178
Hushpuckney	4370	-1225
Pawnee	4540	-1395
L. Cherokee Shale	4622	-1477
Johnson	4662	-1517
Mississippian	4814	-1669

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPEAR OIL CO.**
LEASE **Bahlin 2-21**
FIELD **Wildcat**
LOCATION **33°57' N 121°20' W**
SEC **21** T15SP **16S** R0E **34W**

COUNTY **Scott** STATE **Kansas**
CONTRACTOR **HD Rite 2**
SPUD **10-22-14** COMP **11-2-14**
RTD **4890'** LTD **4890'**
MUD UP **3500'** TYPE MUD **Chemical**

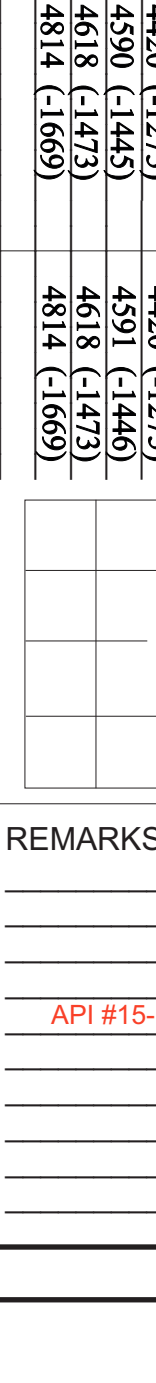
SAMPLES SAVED FROM **3800'** to RTD
DRILLING TIME KEPT FROM **3800'** to RTD
SAMPLES EXAMINED FROM **3800'** to RTD
GEOLOGICAL SUPERVISION FROM **3900'** to RTD
GEOLOGIST ON WELL **Tim Priest**

MEASUREMENTS ARE ALL From **KB**
CASINGS CONDUCTION **N/A**
SURFACE **8-5/8" @ 267'**
PRODUCTION **5-1/2" @ 4890'**

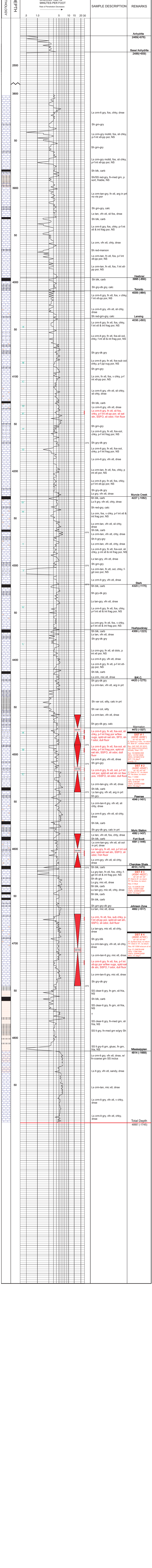
ELEVATIONS
KG **3145'**
DF _____
GL **3135'**

FORMATION TOPS
Anhydrite **2460 (+687)**
Heebner Shale **3995 (+830)**
Lansing **4036 (+891)**
SARC **4420 (+1275)**
Fort Scott **4590 (+1445)**
Mississippian **4814 (+1669)**

SAMPLE
2469 (+676)
3995 (+830)
4038 (+893)
4320 (+1175)
4591 (+1460)
4814 (+1669)



REMARKS Due to the results of DST #1, it was decided to set production casing to further test the well.
Respectfully Submitted,
Tim Priest
Petroleum Geologist
API #15-171-21101-00-00





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Inc

21-16s-34w Scott, Ks

202 W Main St
Salem, IL
62881-1519

Bahm #2-21

Job Ticket: 59097

DST#: 1

ATTN: Tim Priest

Test Start: 2014.10.29 @ 04:20:31

GENERAL INFORMATION:

Formation: **Marmaton A**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 09:55:16

Time Test Ended: 16:45:46

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Interval: 4458.00 ft (KB) To 4490.00 ft (KB) (TVD)

Reference Elevations: 3144.00 ft (KB)

Total Depth: 4490.00 ft (KB) (TVD)

3135.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6771 Inside

Press @ RunDepth: 83.36 psig @ 4459.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.29

End Date:

2014.10.29

Last Calib.:

2014.10.29

Start Time: 04:20:31

End Time:

16:33:46

Time On Btm:

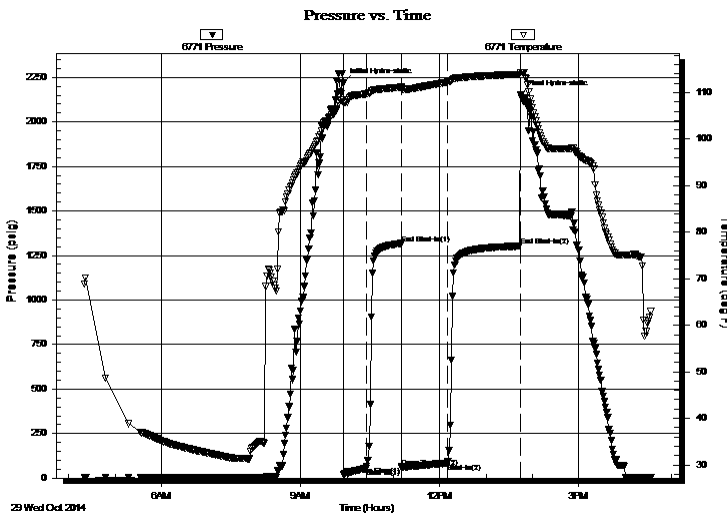
2014.10.29 @ 09:55:01

Time Off Btm:

2014.10.29 @ 13:45:01

TEST COMMENT: 5 1/2" in blow
No return
B.O.B. in 57 min.
Weak surface blow in 14 min. died in 34 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2218.45	108.49	Initial Hydro-static
1	18.83	107.74	Open To Flow (1)
30	55.65	109.70	Shut-In(1)
75	1317.45	111.16	End Shut-In(1)
76	60.58	110.70	Open To Flow (2)
135	83.36	112.25	Shut-In(2)
229	1302.94	113.90	End Shut-In(2)
230	2151.83	114.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	g m c o 15g 30m 55o	0.97
25.00	c g o 10g 90o	0.35
0.00	245' gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Inc

21-16s-34w Scott, Ks

202 W Main St
Salem, IL
62881-1519
ATTN: Tim Priest

Bahm #2-21

Job Ticket: 59097

DST#: 1

Test Start: 2014.10.29 @ 04:20:31

GENERAL INFORMATION:

Formation: **Marmaton A**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 09:55:16

Time Test Ended: 16:45:46

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Interval: 4458.00 ft (KB) To 4490.00 ft (KB) (TVD)

Reference Elevations: 3144.00 ft (KB)

Total Depth: 4490.00 ft (KB) (TVD)

3135.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8844 Outside

Press @ Run Depth: psig @ 4459.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.29

End Date:

2014.10.29

Last Calib.:

2014.10.29

Start Time: 04:21:08

End Time:

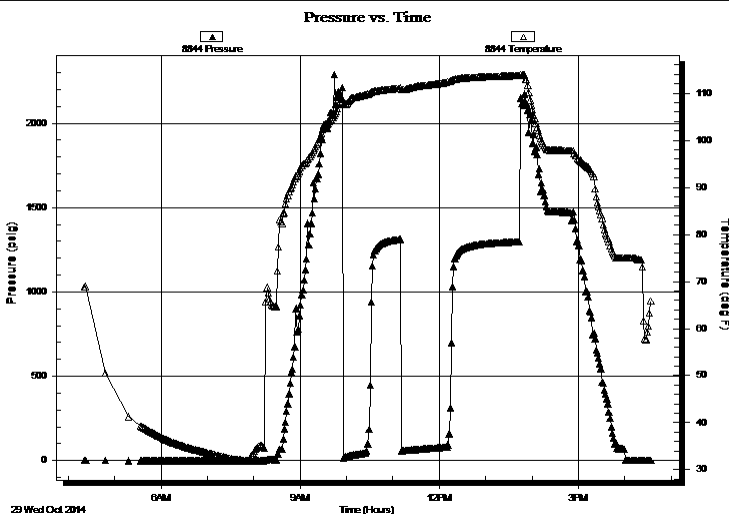
16:34:23

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 1/2" in blow
No return
B.O.B. in 57 min.
Weak surface blow in 14 min. died in 34 min.

PRESSURE SUMMARY



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

Length (ft)	Description	Volume (bbl)
150.00	g m c o 15g 30m 55o	0.97
25.00	c g o 10g 90o	0.35
0.00	245' gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Inc

21-16s-34w Scott, Ks

202 W Main St
Salem, Il
62881-1519

Bahm #2-21

Job Ticket: 59097

DST#: 1

ATTN: Tim Priest

Test Start: 2014.10.29 @ 04:20:31

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	g m c o 15g 30m 55o	0.975
25.00	c g o 10g 90o	0.351
0.00	245' gas in pipe	0.000

Total Length: 175.00 ft

Total Volume: 1.326 bbl

Num Fluid Samples: 0

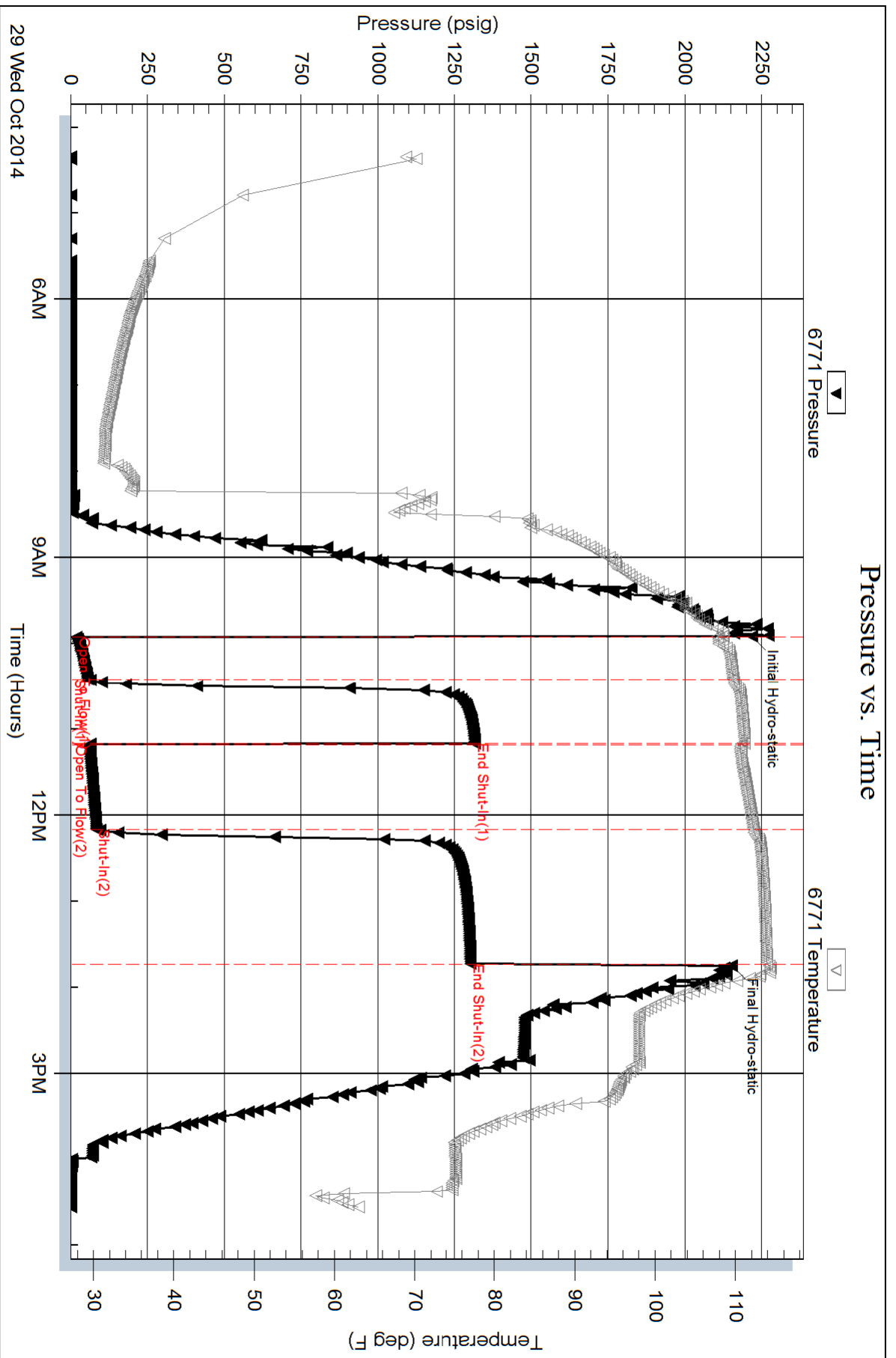
Num Gas Bombs: 0

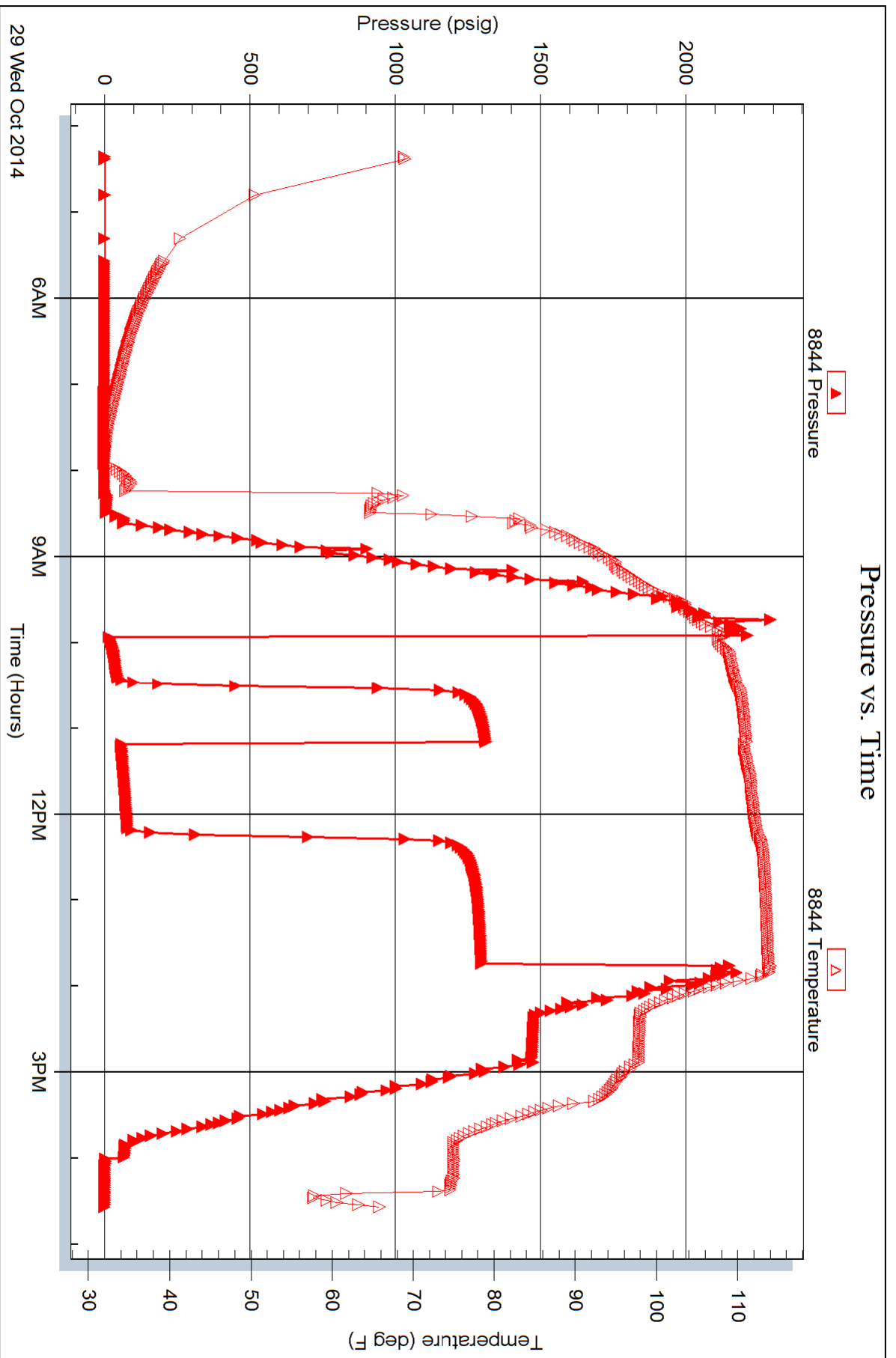
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Inc

21-16s-34w Scott, Ks

202 W Main St
Salem, Il
62881-1519

Bahm #2-21

Job Ticket: 59098

DST#: 2

ATTN: Tim Priest

Test Start: 2014.10.30 @ 03:50:39

GENERAL INFORMATION:

Formation: **Marmaton B-C**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 07:59:09

Time Test Ended: 12:40:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: **4490.00 ft (KB) To 4540.00 ft (KB) (TVD)**

Reference Elevations: 3144.00 ft (KB)

Total Depth: 4540.00 ft (KB) (TVD)

3135.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8844 Outside

Press@RunDepth: 16.48 psig @ 4491.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.30

End Date:

2014.10.30

Last Calib.:

2014.10.30

Start Time:

03:50:39

End Time:

12:30:54

Time On Btm:

2014.10.30 @ 07:58:54

Time Off Btm:

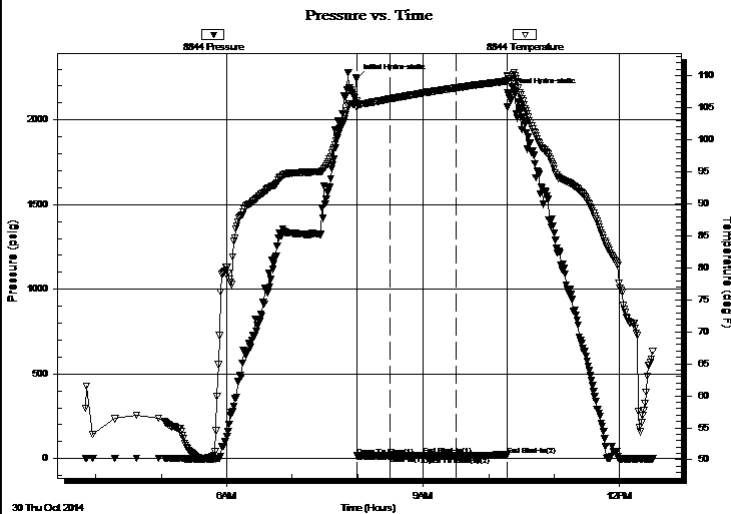
2014.10.30 @ 10:17:24

TEST COMMENT: Surface blow died in 12 min.

No return

No blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2244.17	106.01	Initial Hydro-static
1	16.07	105.01	Open To Flow (1)
31	17.24	106.37	Shut-In(1)
61	21.19	107.30	End Shut-In(1)
62	16.34	107.31	Open To Flow (2)
92	16.48	108.11	Shut-In(2)
138	22.38	109.18	End Shut-In(2)
139	2158.60	109.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud w / oil spots 100%m	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 Inc

21-16s-34w Scott, Ks

202 W Main St
Salem, IL
62881-1519

Bahm #2-21

Job Ticket: 59098

DST#: 2

ATTN: Tim Priest

Test Start: 2014.10.30 @ 03:50:39

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud w / oil spots 100%m	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

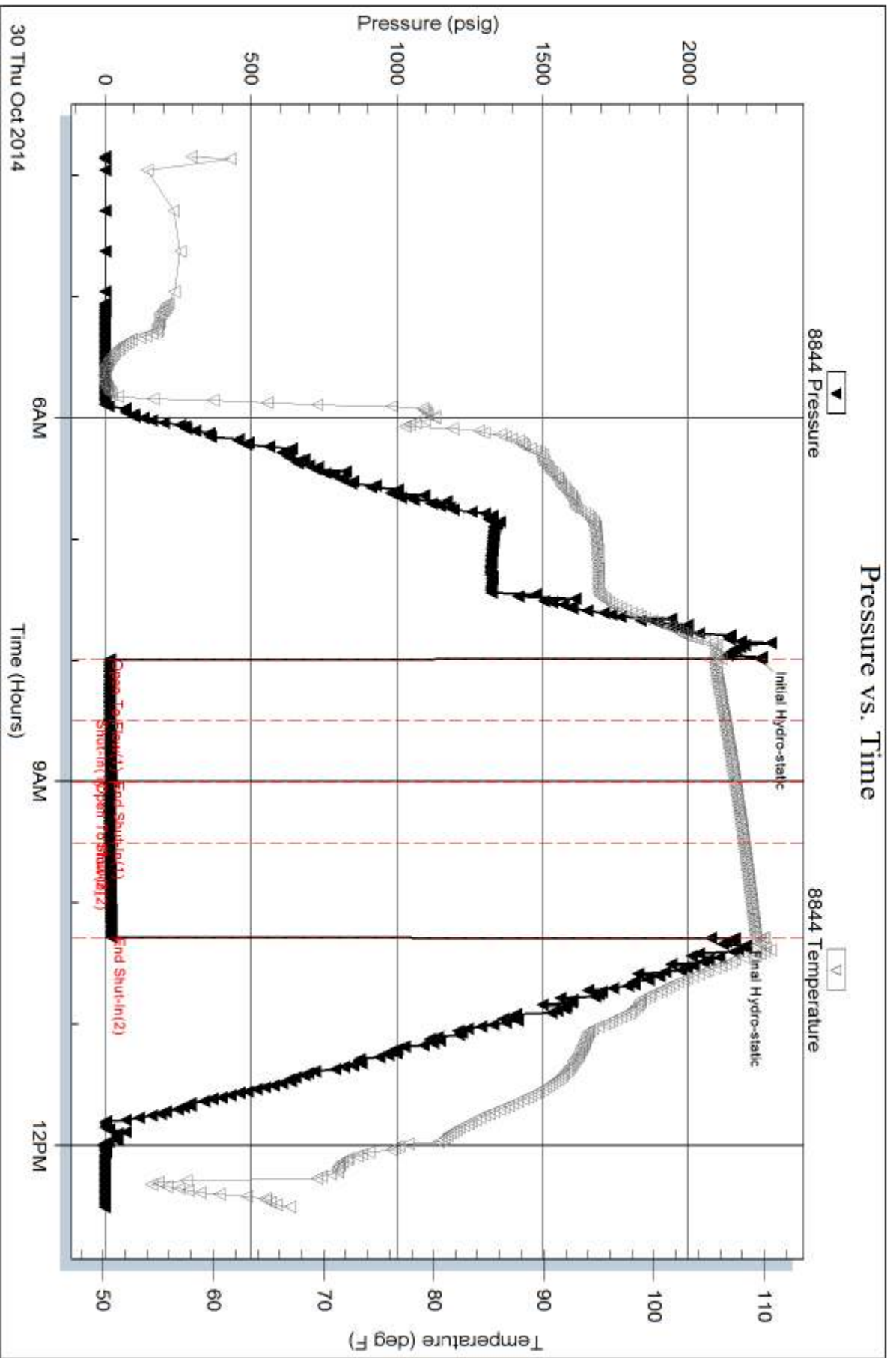
Recovery Comments:

Serial #: 8844

Outside Shakespeare Oil Inc

Bahm#2-21

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 59098

Printed: 2014, 10:30 @ 13:07:27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Inc

21-16s-34w Scott, Ks

202 W Main St

Bahm #2-21

Salem, Il

Job Ticket: 59099

DST#: 3

62881-1519

ATTN: Tim Priest

Test Start: 2014.10.31 @ 04:55:16

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 07:55:16

Time Test Ended: 12:40:16

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4584.00 ft (KB) To 4620.00 ft (KB) (TVD)

Reference Elevations: 3144.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

3135.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8844 Outside

Press@RunDepth: 33.42 psig @ 4585.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.31

End Date:

2014.10.31

Last Calib.: 2014.10.31

Start Time: 04:55:16

End Time:

12:28:16

Time On Btm: 2014.10.31 @ 07:54:46

Time Off Btm: 2014.10.31 @ 10:05:31

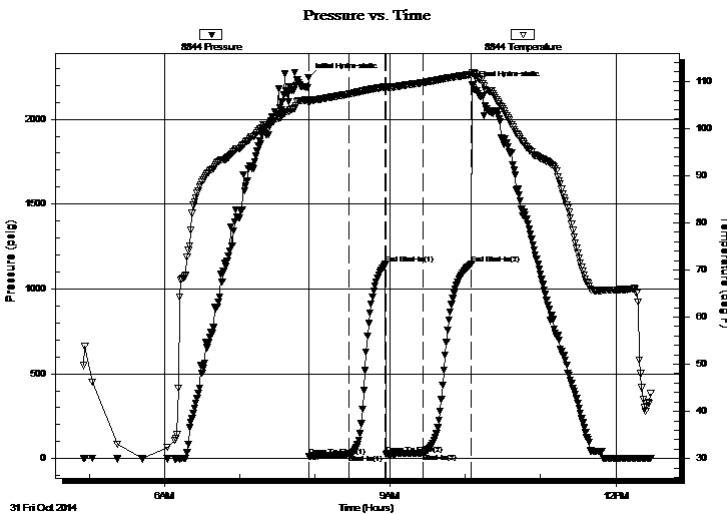
TEST COMMENT: Weak surface blow died in 8 min.

No return

No blow

No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2246.48	106.10	Initial Hydro-static
1	14.60	105.53	Open To Flow (1)
33	23.79	107.31	Shut-In(1)
62	1145.09	108.80	End Shut-In(1)
62	26.65	108.50	Open To Flow (2)
91	33.42	109.71	Shut-In(2)
130	1146.02	111.45	End Shut-In(2)
131	2200.67	111.88	Final Hydro-static

Recovery

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

21-16s-34w Scott, Ks

202 W Main St
Salem, Il
62881-1519

Bahm #2-21

Job Ticket: 59099

DST#: 3

ATTN: Tim Priest

Test Start: 2014.10.31 @ 04:55:16

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: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 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:

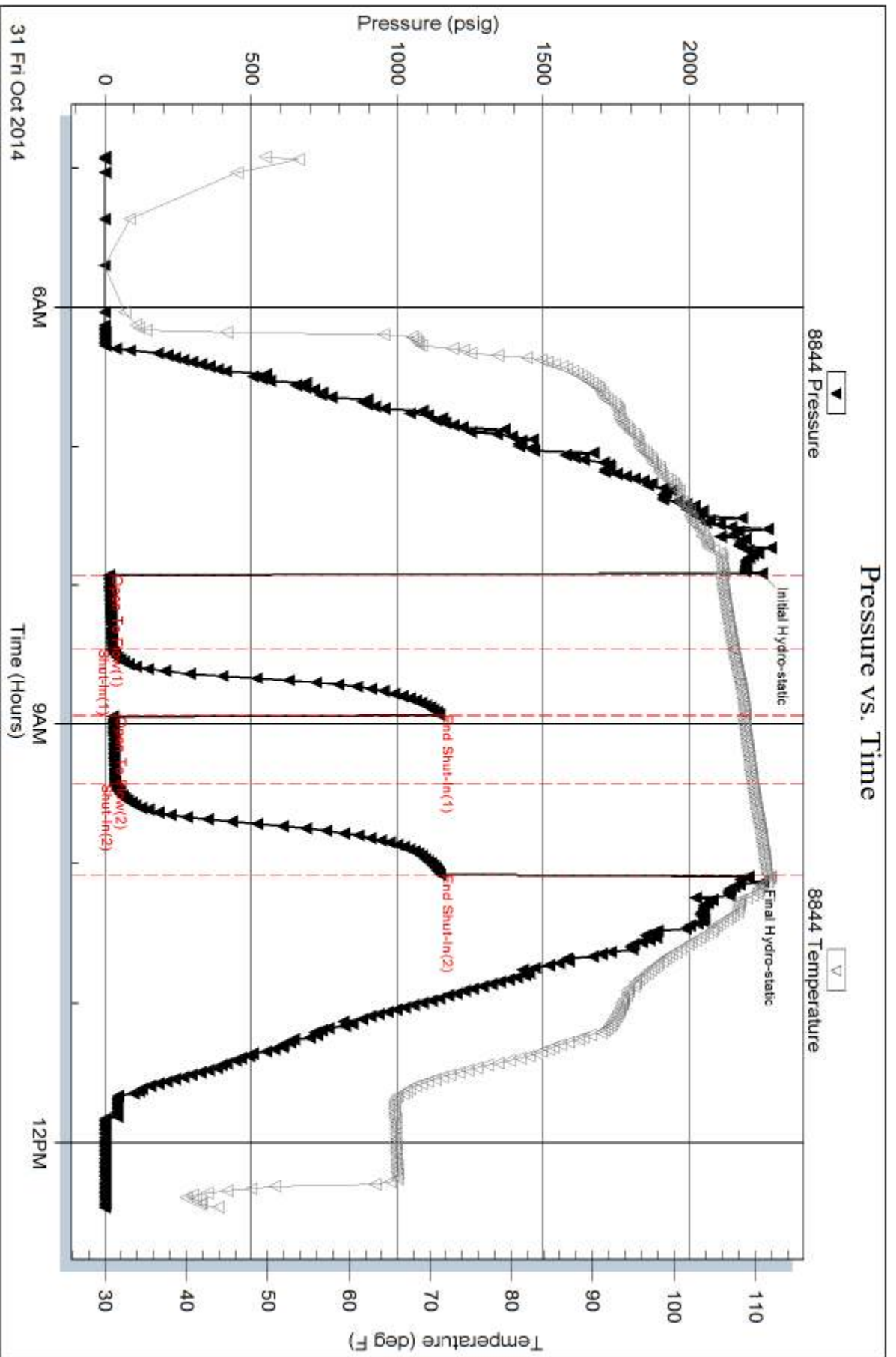
Recovery Comments:

Serial #: 8844

Outside Shakespeare Oil Inc

Bahm #2-21

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Inc
202 W Main St
Salem, IL
62881-1519
ATTN: Tim Priest

21-16s-34w Scott, Ks

Bahm #2-21

Job Ticket: 59100

DST#: 4

Test Start: 2014.11.01 @ 09:00:25

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 10:58:55

Time Test Ended: 16:20:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4669.00 ft (KB) To 4745.00 ft (KB) (TVD)

Total Depth: 4745.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3144.00 ft (KB)

3135.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6771 Inside

Press @ Run Depth: 44.99 psig @ 4670.00 ft (KB)

Start Date: 2014.11.01

End Date:

2014.11.01

Start Time: 09:00:25

End Time:

16:08:40

Capacity: 8000.00 psig

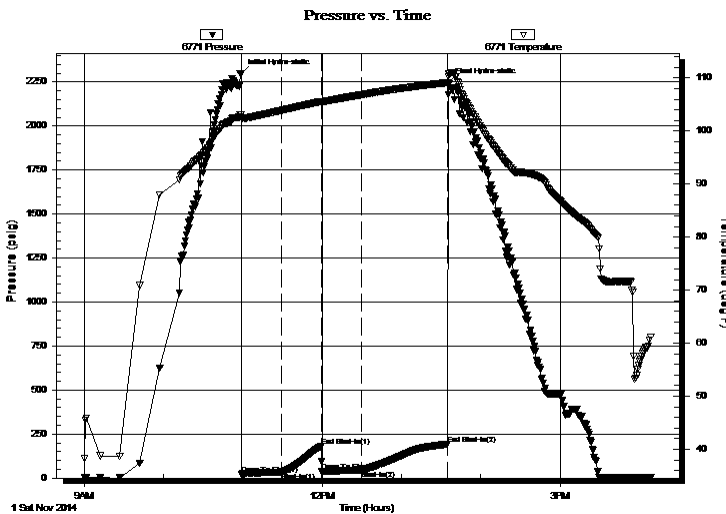
Last Calib.: 2014.11.01

Time On Btm: 2014.11.01 @ 10:58:40

Time Off Btm: 2014.11.01 @ 13:35:40

TEST COMMENT: 1/2" in @ open, died in 30 min.
No return
Very weak surface blow, died in 10 min.
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2295.66	103.12	Initial Hydro-static
1	21.20	102.45	Open To Flow (1)
31	34.93	103.91	Shut-In(1)
61	179.24	105.56	End Shut-In(1)
61	39.95	105.53	Open To Flow (2)
91	44.99	106.84	Shut-In(2)
157	194.22	109.15	End Shut-In(2)
157	2245.28	110.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud w/oil spots 100% m	0.30
0.00	show of oil (tar) on top 3" in	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Inc

21-16s-34w Scott, Ks

202 W Main St

Bahm #2-21

Salem, Il

Job Ticket: 59100

DST#: 4

62881-1519

ATTN: Tim Priest

Test Start: 2014.11.01 @ 09:00:25

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 10:58:55

Time Test Ended: 16:20:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4669.00 ft (KB) To 4745.00 ft (KB) (TVD)

Reference Elevations: 3144.00 ft (KB)

Total Depth: 4745.00 ft (KB) (TVD)

3135.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8844 Outside

Press @ Run Depth: psig @ 4670.00 ft (KB)

Start Date: 2014.11.01 End Date: 2014.11.01

Start Time: 09:00:58 End Time: 16:08:43

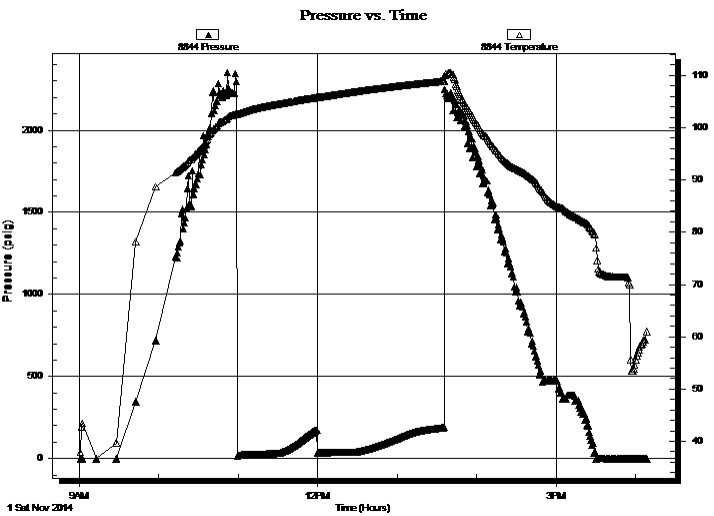
Capacity: 8000.00 psig

Last Calib.: 2014.11.01

Time On Btm:

Time Off Btm:

TEST COMMENT: 1/2" in @ open , died in 30 min.
No return
Very weak surface blow , died in 10 min.
No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud w/oil spots 100% m	0.30
0.00	show of oil (tar) on top 3" in	0.00

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 Inc

21-16s-34w Scott, Ks

202 W Main St
Salem, IL
62881-1519

Bahm #2-21

Job Ticket: 59100

DST#: 4

ATTN: Tim Priest

Test Start: 2014.11.01 @ 09:00:25

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:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mud w/oil spots 100%m	0.295
0.00	show of oil (tar) on top 3" in	0.000

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

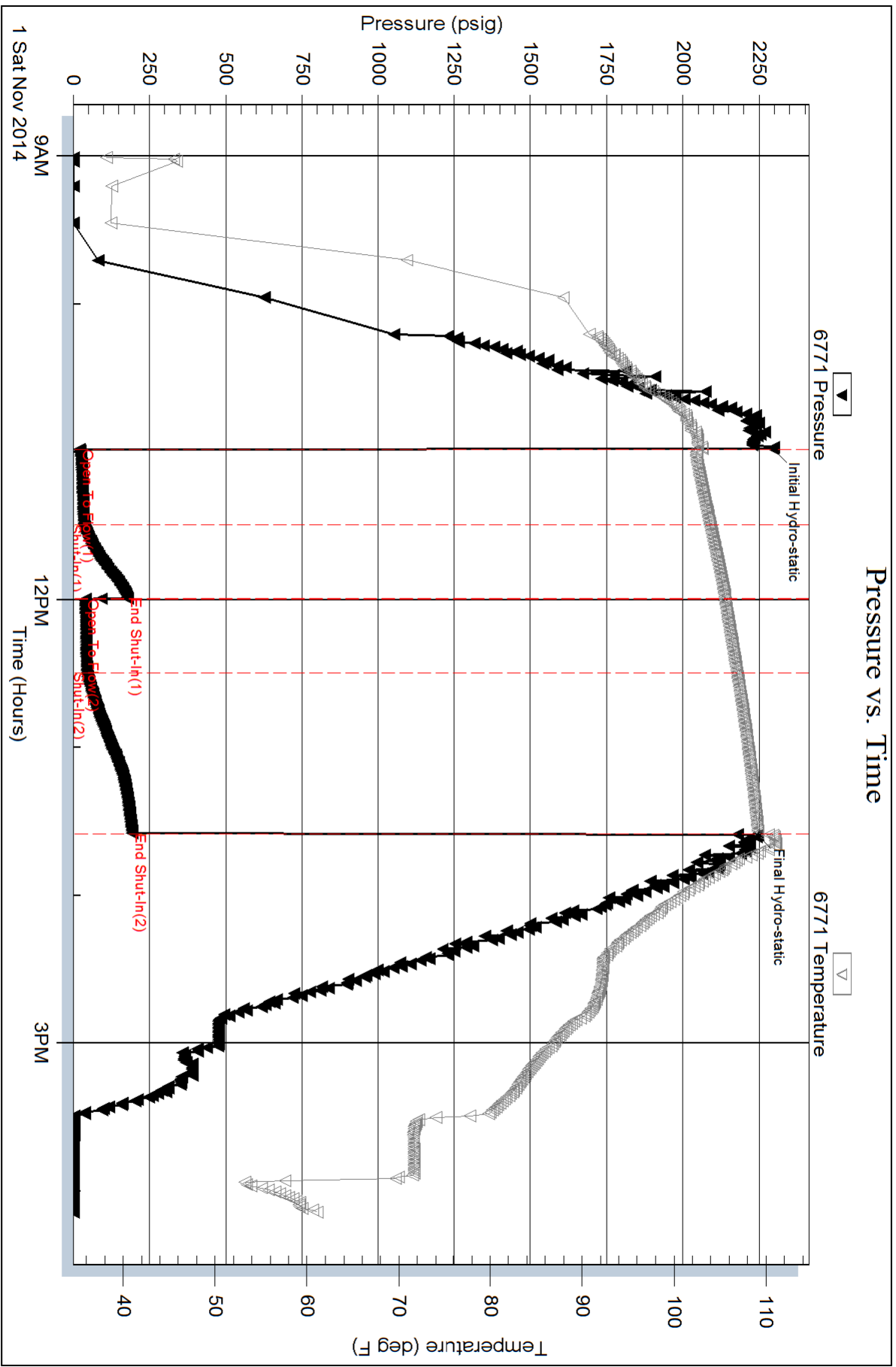
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

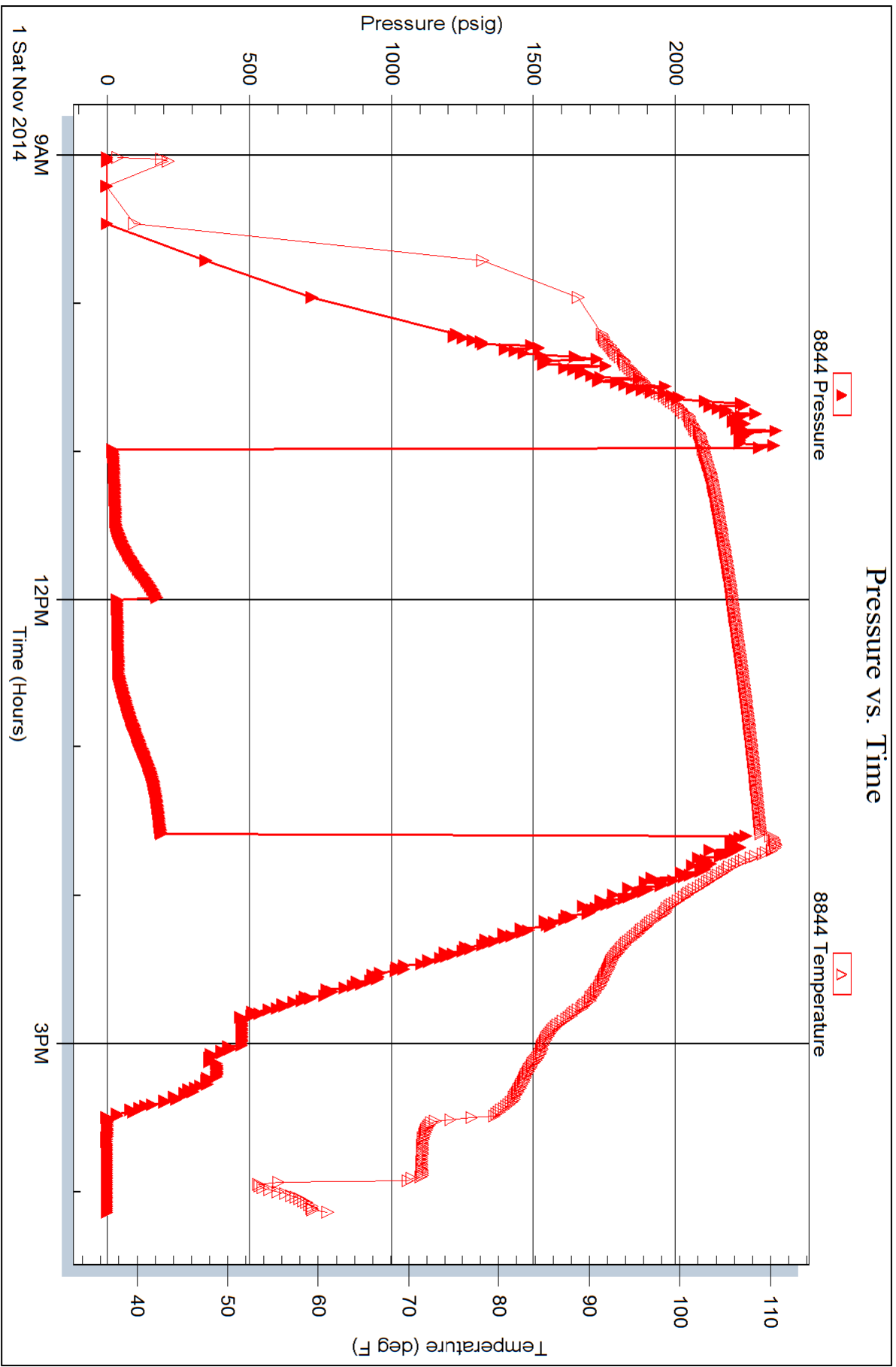


Serial #: 8844

Outside Shakespeare Oil Inc

Bahm #2-21

DST Test Number: 4





INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 147047
Invoice Date: Nov 10, 2014
Page: 1

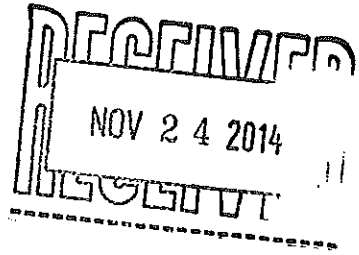
Voice: (817) 546-7282
Fax: (817) 246-3361

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	64349	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Nov 10, 2014	12/10/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Bahm #2-21		
260.00	CEMENT MATERIALS	Class A Common	17.90	4,654.00
140.00	CEMENT MATERIALS	Pozmix	9.35	1,309.00
2,784.00	CEMENT MATERIALS	Gel	0.50	1,392.00
300.00	CEMENT MATERIALS	Cottonseed Hulls	0.99	297.00
100.00	CEMENT MATERIALS	Flo Seal	2.97	297.00
586.34	CEMENT SERVICE	Cubic Feet Charge	2.48	1,454.12
1,082.25	CEMENT SERVICE	Ton Mileage Charge	2.75	2,976.19
1.00	CEMENT SERVICE	Port Collar ✓	2,483.59	2,483.59
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		
1.00	OPERATOR ASSISTANT	George Grant		
1.00	OPERATOR ASSISTANT	Shawn Tatro		



10502-5
KW

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

\$ 3,851.85

ONLY IF PAID ON OR BEFORE
Dec 10, 2014

Subtotal	15,407.40
Sales Tax	647.84
Total Invoice Amount	16,055.24
Payment/Credit Applied	
TOTAL	16,055.24

DW

ALLIED OIL & GAS SERVICES, LLC 064349

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Oakley, KS

DATE <u>11-10-14</u>	SEC. <u>21</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>11:00am</u>	JOB START <u>10:30</u>	JOB FINISH <u>1:45 pm</u>
LEASE <u>Bahms</u>	WELL# <u>2-21</u>	LOCATION <u>Peerce 1/2 W, Suite</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

<p>CONTRACTOR TYPE OF JOB <u>Port Collar</u></p> <p>HOLE SIZE <u>7 7/8</u> T.D.</p> <p>CASING SIZE _____ DEPTH _____</p> <p>TUBING SIZE <u>2 7/8</u> DEPTH <u>2420'</u></p> <p>DRILL PIPE _____ DEPTH _____</p> <p>TOOL <u>port collar</u> DEPTH <u>2420'</u></p> <p>PRES. MAX _____ MINIMUM _____</p> <p>MEAS. LINE _____ SHOE JOINT _____</p> <p>CEMENT LEFT IN CSG. _____</p> <p>PERFS. _____</p> <p>DISPLACEMENT <u>9.44661</u></p> <p style="text-align: center;">EQUIPMENT</p> <p>PUMP TRUCK # <u>423/281</u> CEMENTER <u>LaRone E. Wank</u> HELPER <u>Kevin Ryan</u></p> <p>BULK TRUCK # <u>870/241</u> DRIVER <u>George Grant</u></p> <p>BULK TRUCK # _____ DRIVER <u>Shawn Tatro</u></p>	<p>OWNER <u>Same</u></p> <p>CEMENT AMOUNT ORDERED <u>3009665/35 829 gal</u> <u>1/4 # 96 seal, 1000 # hulls.</u></p> <p>COMMON <u>260515 @ 19.90 4654.00</u></p> <p>POZMIX <u>140815 @ 9.35 1309.00</u></p> <p>GEL <u>2774# @ .50 1372.00</u></p> <p>CHLORIDE _____ @ _____</p> <p>ASC _____ @ _____</p> <p><u>1000 # 2 hulls 300# @ .99 297.00</u></p> <p><u>Florseal 100# @ 2.99 299.00</u></p> <p><u>McHerrin (Taco) @ 7,749.00</u></p> <p><u>(1907.00/152) @ _____</u></p> <p>HANDLING <u>586.34 FT @ 2.48 1454.72</u></p> <p>MILEAGE <u>24.05 ton x 45 @ 2.23 2726.19</u></p>
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REMARKS:
Test port collar 200# open port collar.
mix 400.5 lbs cement w/ 300# hulls
Displace with water. Close port collar
Test 1800#. Cement did
circulate

Thank you

TOTAL _____

SERVICE

DEPTH OF JOB 2420'

PUMP TRUCK CHARGE _____ 2483.39

EXTRA FOOTAGE _____ @ _____

MILEAGE MILFU 45 @ 7.70 346.50

MANIFOLD _____ @ _____

MILFU 45 @ 4.90 220.50

(1864.00/152)

TOTAL 7,858.90

CHARGE TO: Shakes peere

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 15,407.40

DISCOUNT 3,851.85 (25%) IF PAID IN 30 DAYS,
11,555.55 Net.



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 146940
Invoice Date: Nov 3, 2014
Page: 1

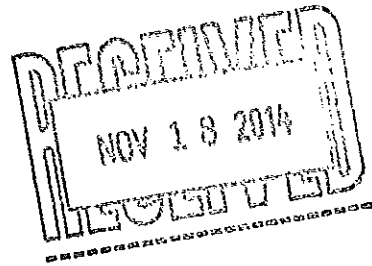
Voice: (817) 546-7282
Fax: (817) 246-3361

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	64301	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Nov 3, 2014	12/3/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Bahm #2-21		
310.00	CEMENT MATERIALS	Gel	0.50	155.00
165.00	CEMENT MATERIALS	ASC	23.50	3,877.50
825.00	CEMENT MATERIALS	Gilsonite	0.98	808.50
25.00	CEMENT MATERIALS	Powdered Defoamer	4.85	121.25
12.00	CEMENT MATERIALS	Mud Clean	41.09	493.08
100.00	CEMENT MATERIALS	CD-31	7.73	773.00
214.82	CEMENT SERVICE	Cubic Feet Charge	2.48	532.75
417.60	CEMENT SERVICE	Ton Mileage Charge	2.75	1,148.40
1.00	CEMENT SERVICE	Production Casing ✓	2,765.75	2,765.75
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Manifold Rotating Head Rental	475.00	475.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		



INT

10501-5
KW

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

\$ 2,923.68

ONLY IF PAID ON OR BEFORE

Dec 3, 2014

Subtotal	11,694.73
Sales Tax	507.61
Total Invoice Amount	12,202.34
Payment/Credit Applied	
TOTAL	12,202.34

DW

ALLIED OIL & GAS SERVICES, LLC 064301

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakota KS

DATE <u>11-3-14</u>	SEC. <u>21</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>7:30am</u>	JOB START <u>9:30am</u>	JOB FINISH <u>1:00pm</u>
LEASE <u>Bahn</u>	WELL# <u>2-21</u>	LOCATION <u>Pence 1/2 W, Sinto</u>		COUNTY <u>Scott</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)							

CONTRACTOR AD rig 2

TYPE OF JOB Production

HOLE SIZE 7 7/8 T.D. 4820'

CASING SIZE 5 1/2 DEPTH 4869.88

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 43.36

CEMENT LEFT IN CSG. 43.36

PERFS.

DISPLACEMENT 114.87 bbl water

EQUIPMENT

OWNER Same

CEMENT

AMOUNT ORDERED 165 sks ASC

16' salt 5" gilswite 21 gal. 750#

15" P. DeSomer 60-31

500 gal mod clean

COMMON @

POZMIX @

GEL 310 # @ .50 155.00

CHLORIDE @

ASC 165 sks @ 23.50 3877.50

gilswite 825 # @ .98 808.50

12 bbl mod clean @ 41.09 493.08

CD-31 100 # @ 7.73 773.00

Metacel Total @ 5.00 500.00

HANDLING 214.82 # @ 2.48 532.75

MILEAGE 9.28 hrs x 45 mix 2.75 1148.40

PUMP TRUCK CEMENTER Paul Beaver

120 HELPER Tyler Flipse / Juan

BULK TRUCK DRIVER Martin

600

BULK TRUCK DRIVER

(1,351.08 / 0.5%) TOTAL

SERVICE

DEPTH OF JOB 4870'

PUMP TRUCK CHARGE 2765.75

EXTRA FOOTAGE @

MILEAGE MLV 45 @ 9.70 346.50

MANIFOLD Rot. Head @ 4.75 198.00

MLV 45 @ 4.40 198.00

REMARKS:

Break circ / Drop ball, mix 12 bbl

mod clean, mix 30 sks in 2 1/2" mix

135 sks ASC down casing, wash-up

to pit release plug, displace w/

water, plug did land @ 1400'

1.87 750 #, Float did hold

Thank You!

Paul + crew

CHARGE TO: Shake speare

STREET _____

CITY _____ STATE _____ ZIP _____

(1,366.60 / 0.8%) TOTAL 13,466.40

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To: Allied Oil & Gas Services, LLC.

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PRINTED NAME Doug Roberts

SIGNATURE Doug Roberts

SALES TAX (If Any) _____

TOTAL CHARGES 11,699.73

DISCOUNT 29,000 (20%) IF PAID IN 30 DAYS

8,111.01 Net.



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 146613
Invoice Date: Oct 22, 2014
Page: 1

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

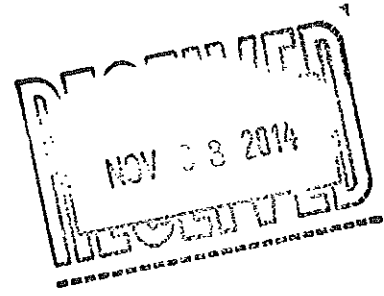
Federal Tax I.D.#: 20-8651475

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

Customer ID	Field Ticket #	Payment Terms	
Shak	63970	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Oct 22, 2014	11/21/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Bahm #2-21		
185.00	CEMENT MATERIALS	Class A Common	17.90	3,311.50
347.00	CEMENT MATERIALS	Gel	0.50	173.50
521.00	CEMENT MATERIALS	Chloride	1.10	573.10
200.04	CEMENT SERVICE	Cubic Feet Charge	2.48	496.10
410.85	CEMENT SERVICE	Ton Mileage Charge	2.75	1,129.84
1.00	CEMENT SERVICE	Surface ✓	1,512.25	1,512.25
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	Joshua Isaac		
1.00	OPERATOR ASSISTANT	Daniel Casper		

INT



10502-5
KW

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

\$ 1,935.20

ONLY IF PAID ON OR BEFORE Nov 21, 2014

Subtotal	7,740.79
Sales Tax	330.74
Total Invoice Amount	8,071.53
Payment/Credit Applied	
TOTAL	8,071.53

DW

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. # 20-3651475

063970

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
GrandDand

DATE <u>16-22-14</u>	SEC <u>21</u>	TWP <u>1C</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>9:30 AM</u>	JOB START <u>10:30 AM</u>	JOB FINISH <u>11 AM</u>
LEASE <u>Bahm</u>	WELL# <u>2-21</u>	LOCATION <u>Pence - 1w - 5 into</u>			COUNTY	STATE	
OLD OR NEW (Circle one)							

CONTRACTOR HD 2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 DEPTH 267.97

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15 Ft

PERFS.

DISPLACEMENT 16-11 661 H2O

OWNER

CEMENT AMOUNT ORDERED 185 sx class A 3Y-cc 2% gel

COMMON	<u>185</u>	@ <u>17.90</u>	<u>3,311.50</u>
POZMIX		@	
GEL	<u>347</u>	@ <u>.50</u>	<u>173.50</u>
CHLORIDE	<u>521</u>	@ <u>1.10</u>	<u>573.10</u>
ASC		@	
Materials Total			<u>4,058.10</u>
Disc. 25%			<u>1,014.53</u>
Service			
HANDLING	<u>200.04</u>	@ <u>2.48</u>	<u>496.10</u>
MILEAGE	<u>9.13 x 45 x 2.75</u>		<u>1,129.84</u>

EQUIPMENT

PUMP TRUCK CEMENTER Josh Isaac

399 HELPER Don Casper

BULK TRUCK DRIVER Joaquin Barnett (Tus)

616-198 DRIVER

REMARKS:

On location - Rig up

pump 5061 H2O

mix 185 sx class A 3Y-cc 2% gel

Displace 16-11 661 H2O

Shot 2x

Cement did circulate

DEPTH OF JOB

PUMP TRUCK CHARGE 1512.35

EXTRA FOOTAGE @

MILEAGE Hwy 45 @ 7.70 346.50

MANIFOLD @

24m 45 @ 4.40 1,056.00

CHARGE TO: Stoakspear oil

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 3,682.00

Disc 25% 920.67

Thank you!!!

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Jeff Brock

SIGNATURE Jeff Brock

PLUG & FLOAT EQUIPMENT

@ _____

@ _____

@ _____

@ _____

@ _____

SALES TAX (If Any) _____

TOTAL CHARGES 7,740.79

DISCOUNT 1,935.20 (25/25/6)

IF PAID IN 30 DAYS

5,805.59