



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1103919
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: _____



1103919

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
--	---

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. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Zanobia 1-21
Doc ID	1103919

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Zanobia 1-21
Doc ID	1103919

Tops

Name	Top	Datum
Base Anhydrite	2264	+601
Heebner	3767	-902
Lansing	3812	-947
Muncie Creek	3975	-1110
Stark Shale	4062	-1197
Hushpuckney	4108	-1243
BKC	4148	-1283
Pawnee	4277	-1412
L. Cherokee Shale	4356	-1491
Johnson	4402	-1537
Morrow Shale	4468	-1603
Mississippian	4523	-1658



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Comp. INC.

21-15s-32w-Scott KS

202 West main st.
Salem, IL 62881

Zanobia #1-21

Job Ticket: 49842

DST#: 1

ATTN: Tim Priest

Test Start: 2012.11.22 @ 05:06:32

GENERAL INFORMATION:

Formation: **Lansing B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:55:47

Time Test Ended: 11:15:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 46

Interval: 3881.00 ft (KB) To 3860.00 ft (KB) (TVD)

Reference Elevations: 2865.00 ft (KB)

Total Depth: 3860.00 ft (KB) (TVD)

2855.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 79.71 psig @ 3832.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.22

End Date:

2012.11.22

Last Calib.:

2012.11.22

Start Time: 05:06:47

End Time:

11:15:32

Time On Btm:

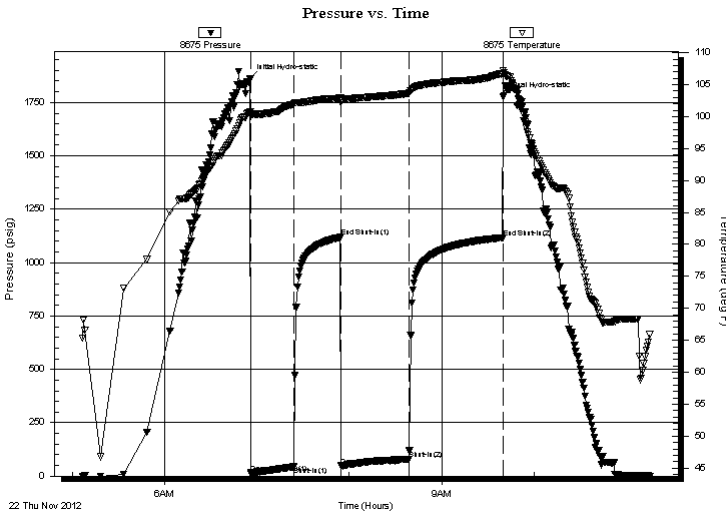
2012.11.22 @ 06:55:32

Time Off Btm:

2012.11.22 @ 09:39:47

TEST COMMENT: IF-Weak surface blow built to 3 in.
ISI-Dead no return
FF-Weak surface blow built to 3 in.
FSI-Dead no return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1862.21	100.69	Initial Hydro-static
1	14.34	100.09	Open To Flow (1)
29	44.25	101.96	Shut-In(1)
59	1118.89	102.89	End Shut-In(1)
59	48.05	102.22	Open To Flow (2)
104	79.71	103.66	Shut-In(2)
164	1117.04	106.73	End Shut-In(2)
165	1776.52	107.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	10%W 90%M	0.44

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Comp. INC.

21-15s-32w-Scott KS

202 West main st.
Salem, IL 62881

Zanobia #1-21

Job Ticket: 49842

DST#: 1

ATTN: Tim Priest

Test Start: 2012.11.22 @ 05:06:32

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	10%W 90%M	0.443

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

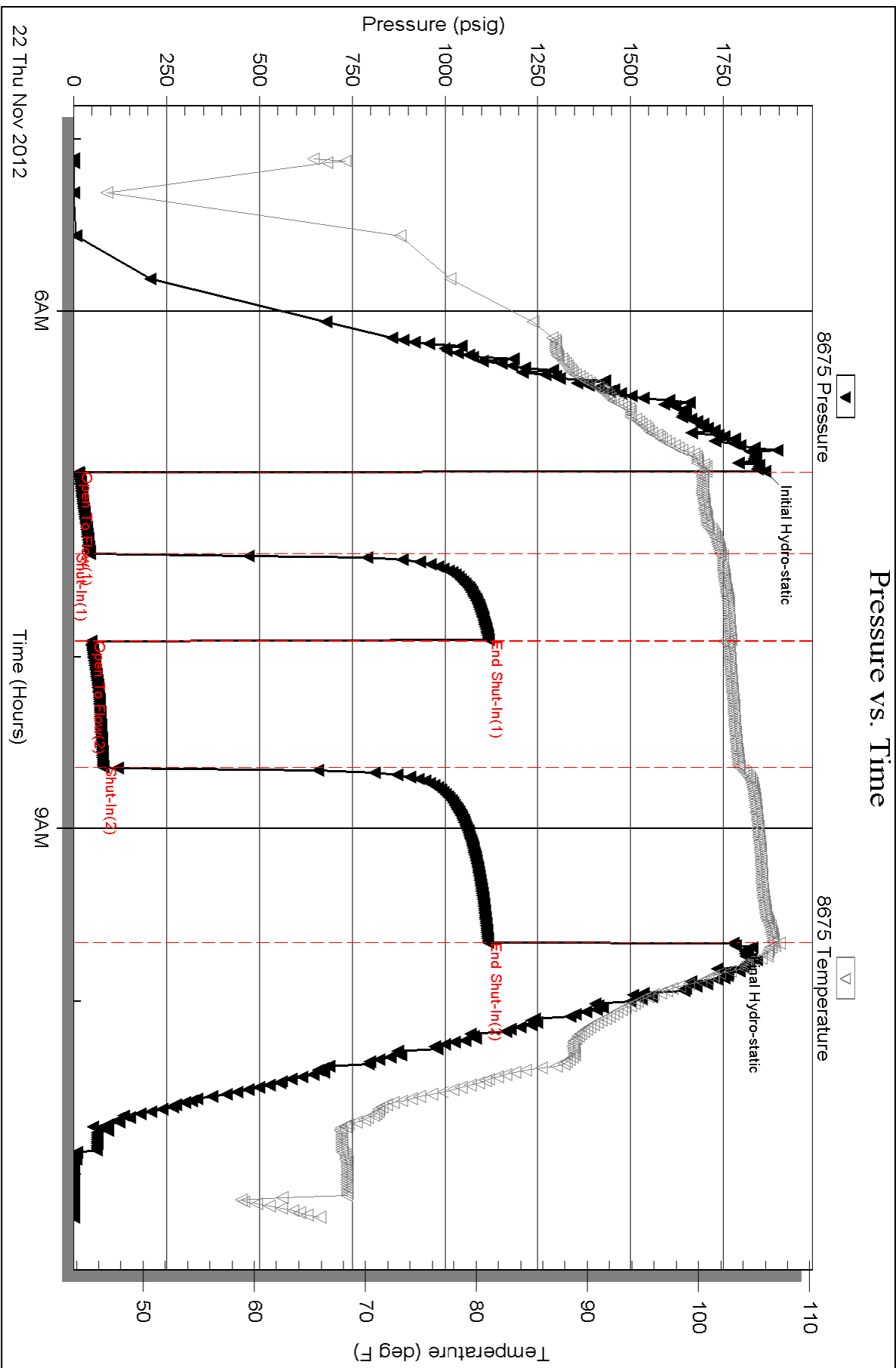
Serial #: 8675

Inside

Shakespeare Oil Corp. INC.

Zanobia #1-21

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Comp. INC.

21-15s-32w-Scott KS

202 West main st.
Salem, IL 62881

Zanobia #1-21

Job Ticket: 49843

DST#: 2

ATTN: Tim Priest

Test Start: 2012.11.22 @ 20:45:00

GENERAL INFORMATION:

Formation: **Lansing D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:32:00

Time Test Ended: 04:12:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 46

Interval: 3892.00 ft (KB) To 3911.00 ft (KB) (TVD)

Reference Elevations: 2865.00 ft (KB)

Total Depth: 3911.00 ft (KB) (TVD)

2855.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 147.11 psig @ 3893.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.22

End Date:

2012.11.23

Last Calib.:

2012.11.23

Start Time: 20:45:15

End Time:

04:12:45

Time On Btm:

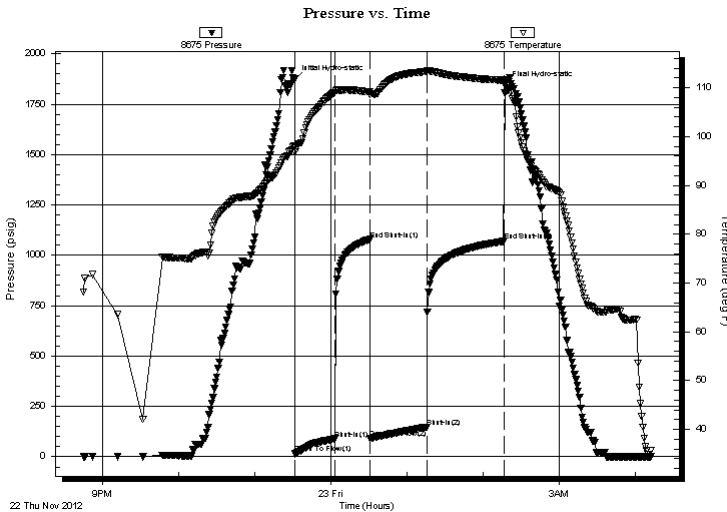
2012.11.22 @ 23:31:45

Time Off Btm:

2012.11.23 @ 02:17:30

TEST COMMENT: IF-Strong blow built to 8 in.
ISI-Dead no return
FF-Built to 8" blow
FSI-No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1872.50	98.06	Initial Hydro-static
1	15.12	96.84	Open To Flow (1)
32	89.44	109.07	Shut-In(1)
59	1078.47	109.16	End Shut-In(1)
60	91.09	108.56	Open To Flow (2)
104	147.11	113.35	Shut-In(2)
165	1069.16	111.56	End Shut-In(2)
166	1842.94	111.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
290.00	mcw 5%M 95%W	3.00

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 Comp. INC.

21-15s-32w-Scott KS

202 West main st.
Salem, IL 62881

Zanobia #1-21

Job Ticket: 49843

DST#: 2

ATTN: Tim Priest

Test Start: 2012.11.22 @ 20:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
290.00	mcw 5%M 95%W	3.002

Total Length: 290.00 ft Total Volume: 3.002 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .50 @ 30 F = 30,000

Serial #: 8675

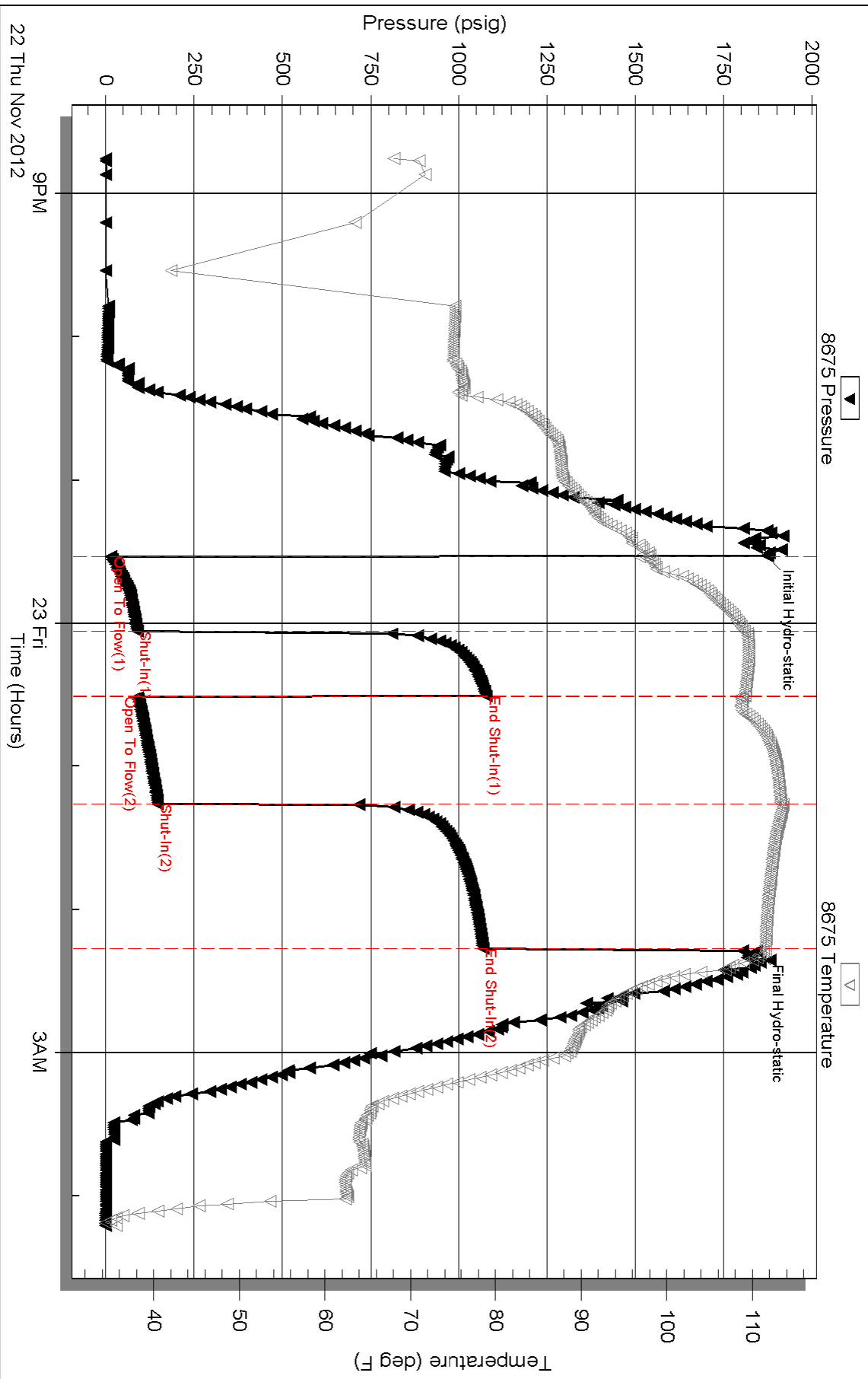
Inside

Shakespeare Oil Corp. INC.

Zanobia #1-21

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49843

Printed: 2012.11.23 @ 06:42:28



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Comp. INC.

21-15s-32w-Scott KS

202 West main st.
Salem, IL 62881

Zanobia #1-21

Job Ticket: 48924

DST#: 3

ATTN: Tim Priest

Test Start: 2012.11.24 @ 05:00:00

GENERAL INFORMATION:

Formation: **Kansas City "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:01:30

Time Test Ended: 11:26:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4109.00 ft (KB) To 4130.00 ft (KB) (TVD)

Reference Elevations: 2865.00 ft (KB)

Total Depth: 4130.00 ft (KB) (TVD)

2855.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 116.42 psig @ 4110.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.24

End Date:

2012.11.24

Last Calib.: 2012.11.24

Start Time: 05:00:15

End Time:

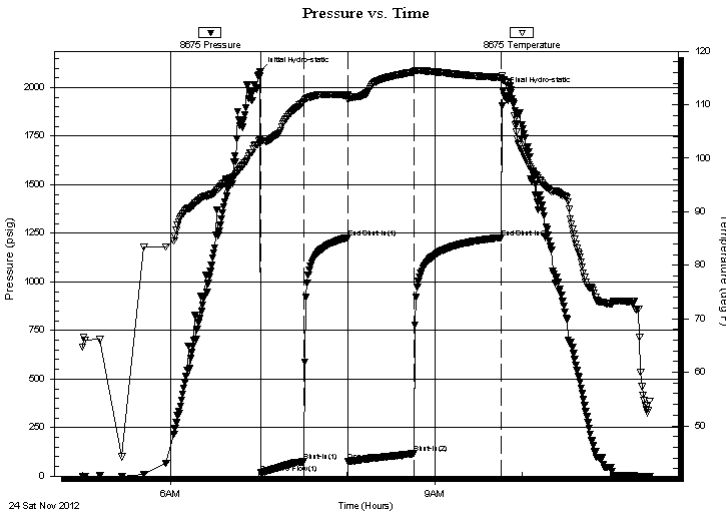
11:26:30

Time On Btm: 2012.11.24 @ 07:01:15

Time Off Btm: 2012.11.24 @ 09:47:00

TEST COMMENT: Built to 7" blow
No return blow
Built to 7 1/2" blow
No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2083.69	103.50	Initial Hydro-static
1	16.73	102.86	Open To Flow (1)
30	74.99	110.61	Shut-In(1)
60	1227.74	111.80	End Shut-In(1)
60	74.64	110.94	Open To Flow (2)
105	116.42	116.14	Shut-In(2)
165	1228.09	115.10	End Shut-In(2)
166	1979.05	114.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	mcw 10%M 90%W	2.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Comp. INC.

21-15s-32w-Scott KS

202 West main st.
Salem, IL 62881

Zanobia #1-21

Job Ticket: 48924

DST#: 3

ATTN: Tim Priest

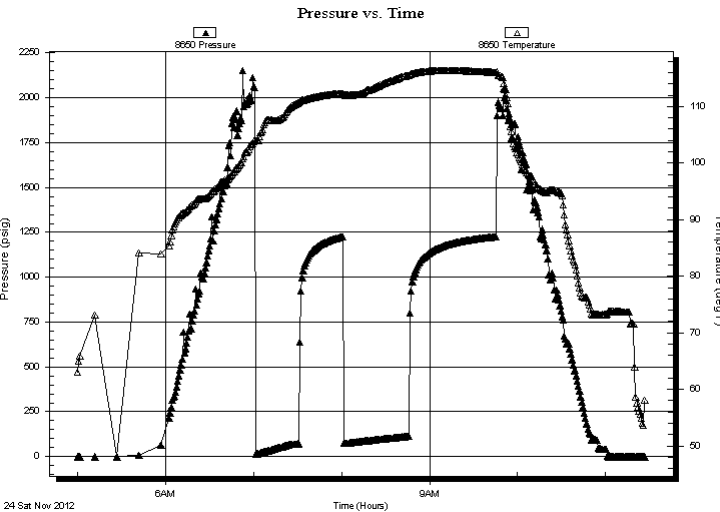
Test Start: 2012.11.24 @ 05:00:00

GENERAL INFORMATION:

Formation: **Kansas City "L"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:01:30 Tester: Jace McKinney
 Time Test Ended: 11:26:30 Unit No: 46
Interval: 4109.00 ft (KB) To 4130.00 ft (KB) (TVD)
 Reference Elevations: 2865.00 ft (KB)
 Total Depth: 4130.00 ft (KB) (TVD) 2855.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8650 Outside
 Press @ Run Depth: psig @ 4110.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.24 End Date: 2012.11.24 Last Calib.: 2012.11.24
 Start Time: 05:00:15 End Time: 11:26:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: Built to 7" blow
 No return blow
 Built to 7 1/2" blow
 No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
220.00	mcw 10%M 90%W	2.01

* 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 Comp. INC.

21-15s-32w-Scott KS

202 West main st.
Salem, IL 62881

Zanobia #1-21

Job Ticket: 48924

DST#: 3

ATTN: Tim Priest

Test Start: 2012.11.24 @ 05:00:00

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:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	mcw 10%M 90%W	2.007

Total Length: 220.00 ft Total Volume: 2.007 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .25 @ 50 F = 40,000

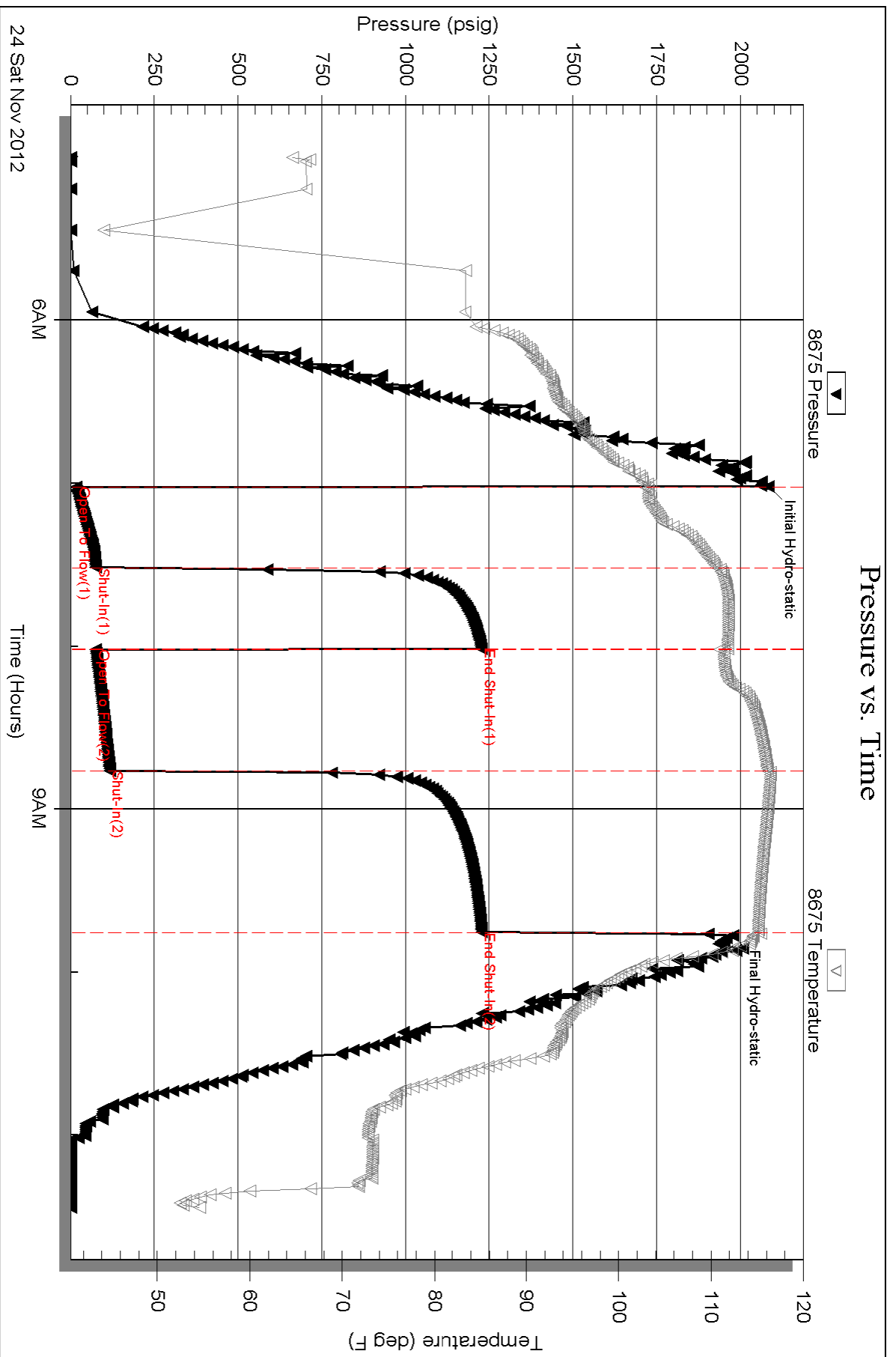
Serial #: 8675

Inside

Shakespeare Oil Corp. INC.

Zanobia #1-21

DST Test Number: 3

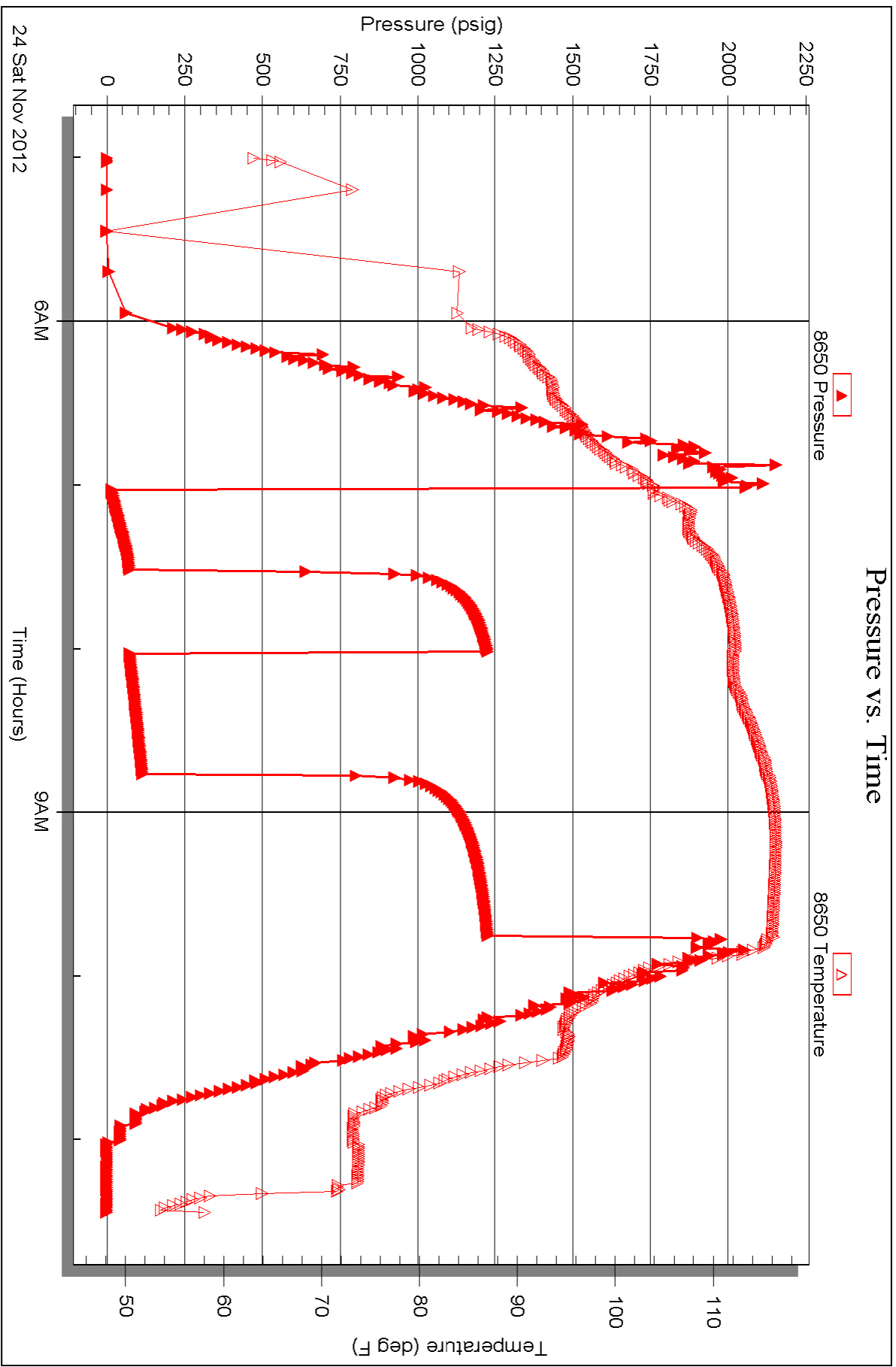


Serial #: 8650

Outside Shakespeare Oil Corp. INC.

Zanobia #1-21

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Comp. INC.

21-15s-32w-Scott KS

202 West main st.
Salem, IL 62881

Zanobia #1-21

Job Ticket: 48925

DST#: 4

ATTN: Tim Priest

Test Start: 2012.11.25 @ 08:30:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:45:30

Time Test Ended: 15:38:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4144.00 ft (KB) To 4255.00 ft (KB) (TVD)

Reference Elevations: 2865.00 ft (KB)

Total Depth: 4255.00 ft (KB) (TVD)

2855.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8675

Inside

Press @ RunDepth: 449.86 psig @ 4145.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.25

End Date:

2012.11.25

Last Calib.:

2012.11.25

Start Time: 08:30:15

End Time:

15:38:30

Time On Btm:

2012.11.25 @ 10:45:15

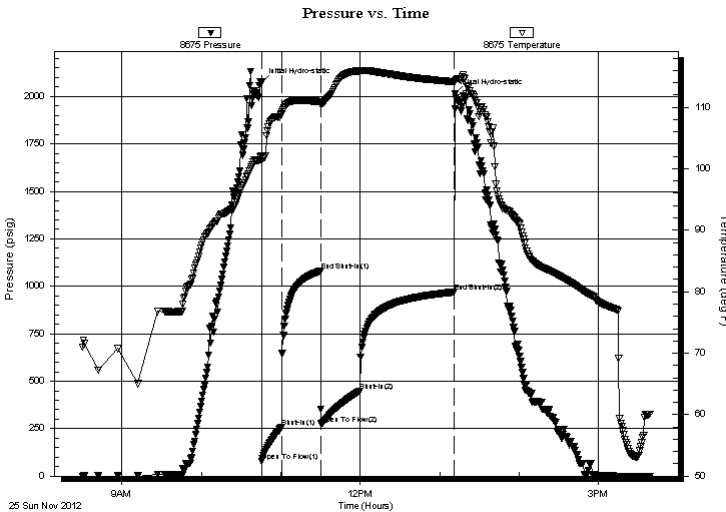
Time Off Btm:

2012.11.25 @ 13:11:45

TEST COMMENT:

B.O.B. in 2 min.
Bled off for 5 min. No return blow
B.O.B. in 4 1/2 min.
Bled off for 5 min. Built to 1/4" return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.77	102.04	Initial Hydro-static
1	79.61	101.28	Open To Flow (1)
16	258.84	108.88	Shut-In(1)
45	1080.05	110.93	End Shut-In(1)
46	275.66	110.66	Open To Flow (2)
75	449.86	115.89	Shut-In(2)
146	969.97	114.11	End Shut-In(2)
147	2012.83	114.19	Final Hydro-static

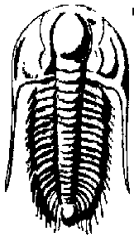
Recovery

Length (ft)	Description	Volume (bbl)
118.00	mcw with oil scum 5%M 95%W	0.58
295.00	ocgmw 5%O 5%G 30%M 60%W	4.13
477.00	gcomw 10%G 10%O 40%M 40%W	6.69
0.00	200 Feet Gas In Pipe Weak Gas	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Comp. INC.

21-15s-32w-Scott KS

202 West main st.
Salem, IL 62881

Zanobia #1-21

Job Ticket: 48925

DST#: 4

ATTN: Tim Priest

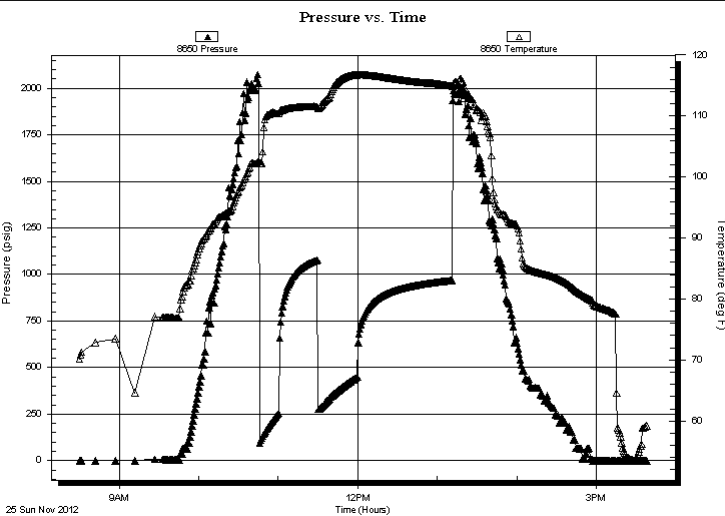
Test Start: 2012.11.25 @ 08:30:00

GENERAL INFORMATION:

Formation: Marmaton	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Jace McKinney
Time Tool Opened: 10:45:30	Unit No: 46
Time Test Ended: 15:38:30	
Interval: 4144.00 ft (KB) To 4255.00 ft (KB) (TVD)	Reference Elevations: 2865.00 ft (KB)
Total Depth: 4255.00 ft (KB) (TVD)	2855.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair	KB to GR/CF: 10.00 ft

Serial #: 8650	Outside	Capacity: 8000.00 psig
Press @ RunDepth: psig @ 4145.00 ft (KB)	Start Date: 2012.11.25	Last Calib.: 2012.11.25
Start Time: 08:30:15	End Date: 2012.11.25	Time On Btm:
	End Time: 15:38:15	Time Off Btm:

TEST COMMENT: B.O.B. in 2 min.
Bled off for 5 min. No return blow
B.O.B. in 4 1/2 min.
Bled off for 5 min. Built to 1/4" return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
118.00	mcw with oil scum 5%M 95%W	0.58
295.00	ocgmw 5%O 5%G 30%M 60%W	4.13
477.00	gcomw 10%G 10%O 40%M 40%W	6.69
0.00	200 Feet Gas In Pipe Weak Gas	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 Comp. INC.

21-15s-32w-Scott KS

202 West main st.
Salem, IL 62881

Zanobia #1-21

Job Ticket: 48925

DST#: 4

ATTN: Tim Priest

Test Start: 2012.11.25 @ 08:30:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
118.00	mcw with oil scum 5%M 95%W	0.580
295.00	ocgmw 5%O 5%G 30%M 60%W	4.134
477.00	gcomw 10%G 10%O 40%M 40%W	6.691
0.00	200 Feet Gas In Pipe Weak Gas	0.000

Total Length: 890.00 ft Total Volume: 11.405 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .20 @ 60 F = 40,000

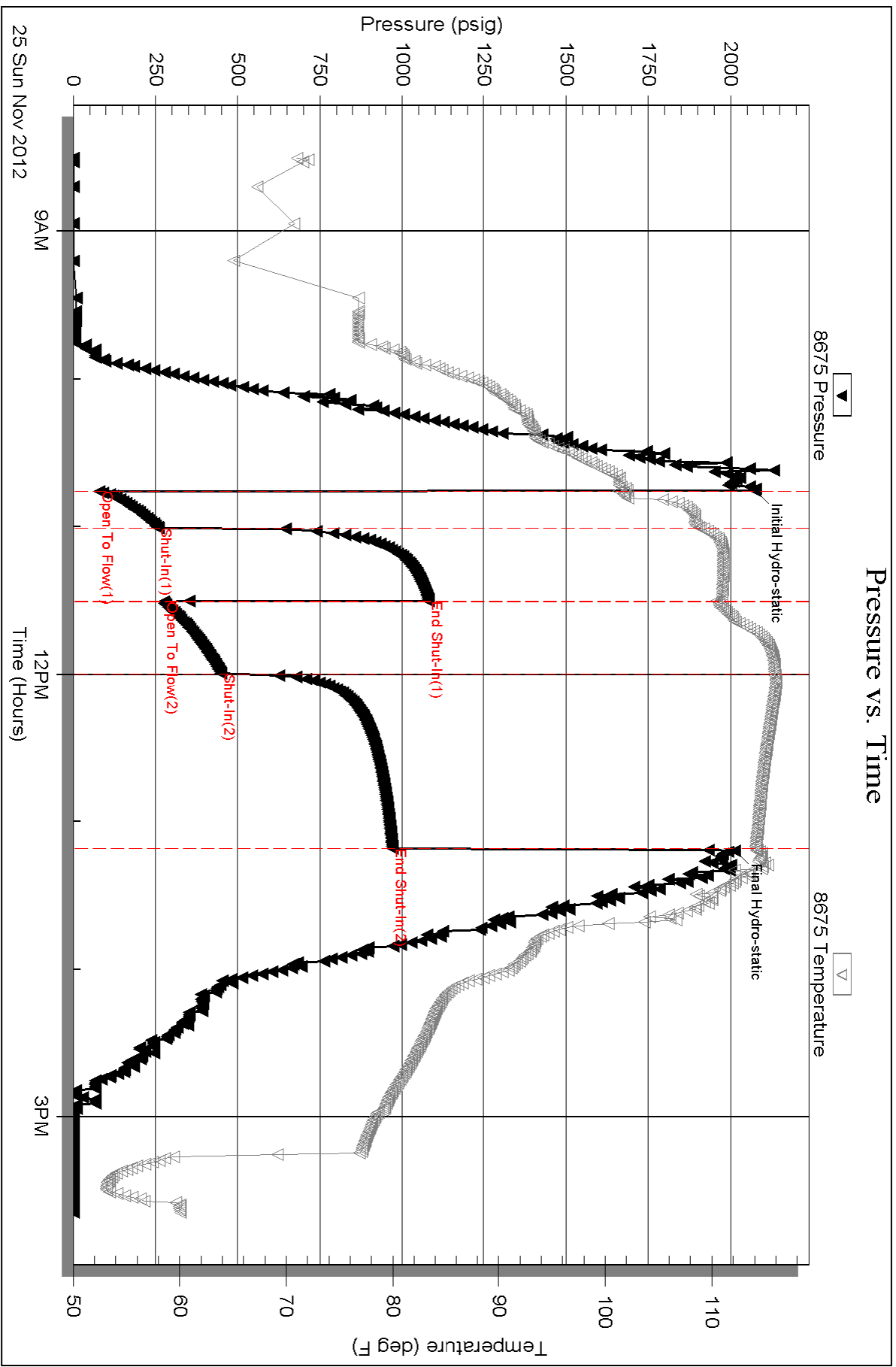
Serial #: 8675

Inside

Shakespeare Oil Corp. INC.

Zanobia #1-21

DST Test Number: 4

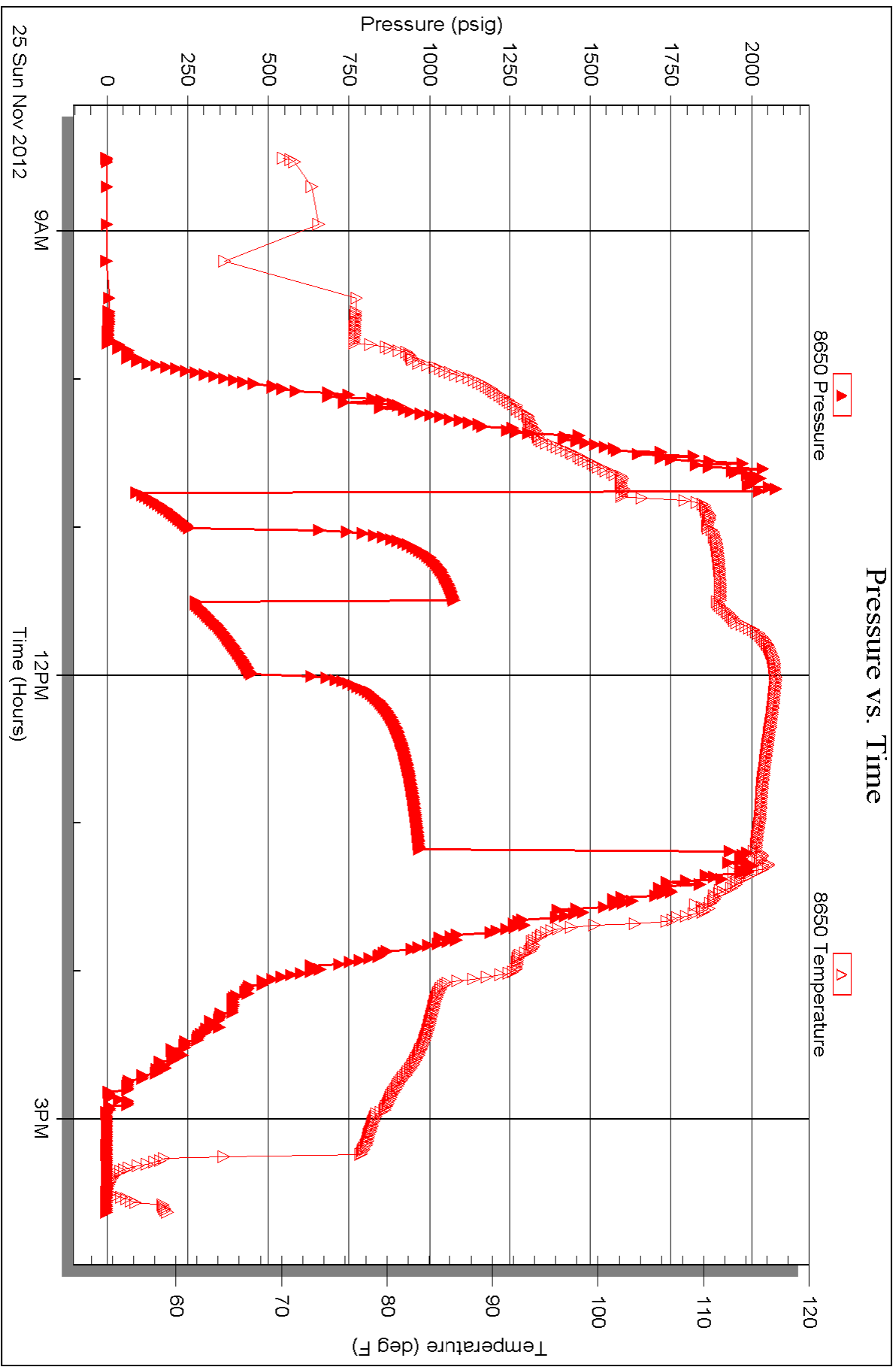


Serial #: 8650

Outside Shakespeare Oil Corp. INC.

Zanobia #1-21

DST Test Number: 4





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Comp. INC.

21-15s-32w-Logan KS

202 West main st.
Salem, IL 62881

Zanobia #1-21

Job Ticket: 49926

DST#: 5

ATTN: Tim Priest

Test Start: 2012.11.26 @ 09:05:00

GENERAL INFORMATION:

Formation: **Pawnee & Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:09:15

Time Test Ended: 16:30:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4268.00 ft (KB) To 4349.00 ft (KB) (TVD)

Reference Elevations: 2865.00 ft (KB)

Total Depth: 4349.00 ft (KB) (TVD)

2855.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 111.09 psig @ 4269.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.26

End Date: 2012.11.26

Last Calib.: 2012.11.26

Start Time: 09:05:15

End Time: 16:30:45

Time On Btm: 2012.11.26 @ 11:09:00

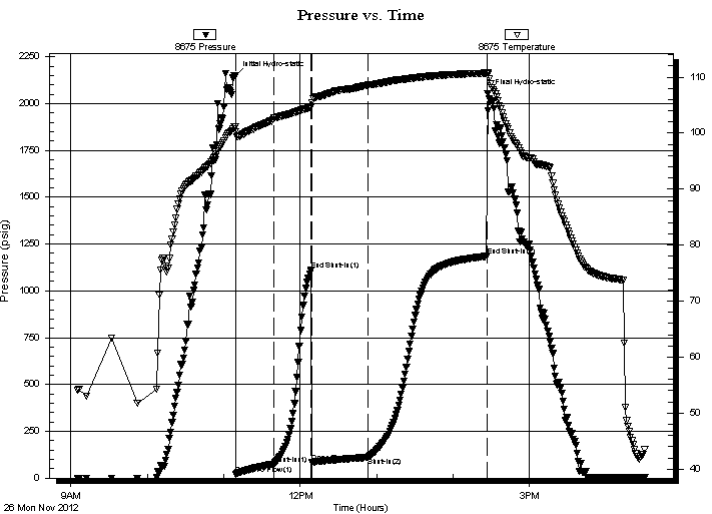
Time Off Btm: 2012.11.26 @ 14:27:00

TEST COMMENT: Built to 4 1/2" blow

No return blow

Built to 4" blow

No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.49	101.20	Initial Hydro-static
1	21.20	100.26	Open To Flow (1)
30	75.44	102.68	Shut-In(1)
60	1109.83	104.62	End Shut-In(1)
61	84.25	105.50	Open To Flow (2)
104	111.09	108.60	Shut-In(2)
198	1185.10	110.75	End Shut-In(2)
198	2054.09	110.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	w cm 10%W 90%M w ith few oil spots	1.52

* 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 Comp. INC.

21-15s-32w-Logan KS

202 West main st.
Salem, IL 62881

Zanobia #1-21

Job Ticket: 49926

DST#: 5

ATTN: Tim Priest

Test Start: 2012.11.26 @ 09:05:00

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: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	w cm 10%W 90%M w ith few oil spots	1.516

Total Length: 185.00 ft Total Volume: 1.516 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .45 @ 45 F = 25,000

Serial #: 8675

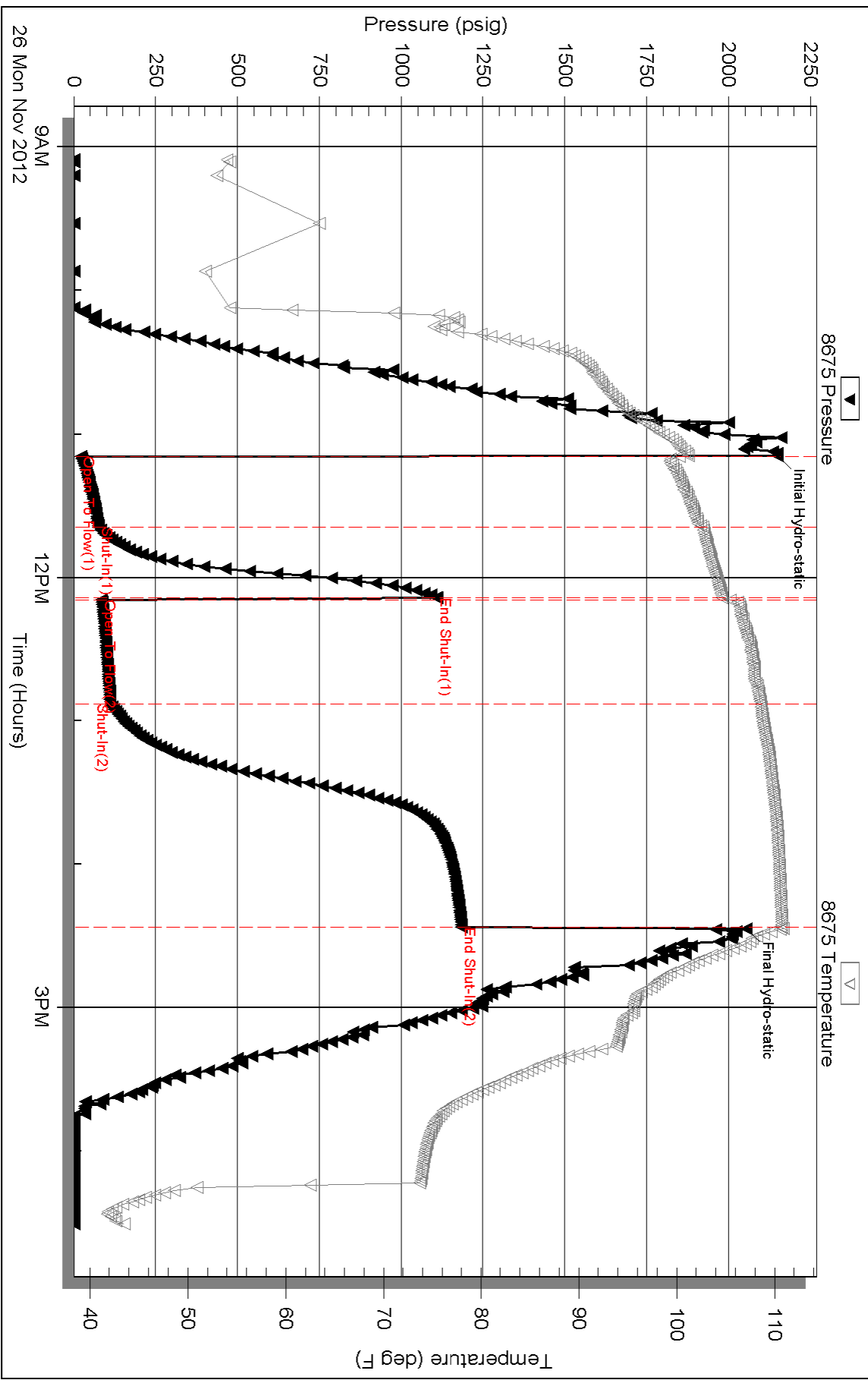
Inside

Shakespeare Oil Corp. INC.

Zanobia #1-21

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49926

Printed: 2012.11.26 @ 22:40:26

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPEARE OIL CO.**
 LEASE **Zanbala 1-21**
 FIELD **Wildcat**
 LOCATION **2285' FSL, 1420' FWL**
 SEC **21** TWPSP **15S** RGE **33W**
 COUNTY **Logan** STATE **Kansas**

ELEVATIONS
 KG 2865'
 DF _____
 GL 2855'

CONTRACTOR **HD Drilling Rig #2**
 SPUD **11-15-12** COMP _____
 RTD **11-15-12** LTD _____
 MUD UP **3600'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3600'** to RTD
 DRILLING TIME KEPT FROM **3600'** to RTD
 SAMPLES EXAMINED FROM **3650'** to RTD

GEOLOGICAL SUPERVISION FROM **3700'** to RTD
 GEOLOGIST ON WELL **Tim Priest**

FORMATION TOPS _____
 ANHYDRITE _____
 HEEBNER SHALE _____
 LAUSUNG _____
 B/K/C _____
 Fort Scott _____
 MISSISSIPPIAN _____

ELECTRIC LOG _____
 SAMPLE _____
 BY: **Weatherford**

CASING _____
 CONDUCTION **N/A**
 SURFACE **8-5/8" @ 222'**
 PRODUCTION _____

Measurements Are All From **KB**

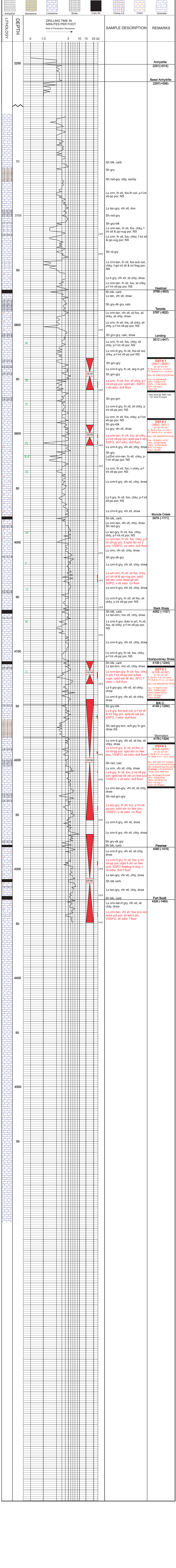
REMARKS _____

Respectfully Submitted,

Tim Priest
 Petroleum Geologist

API #15-109-21141-00-00

Cherokee State
 Mississippi



REMARKS _____

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 133614

Invoice Date: Nov 16, 2012

Page: 1

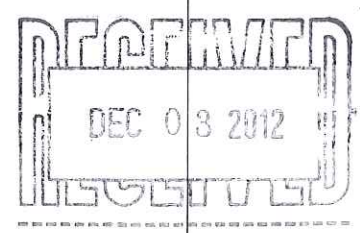


Bill To:
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Shak	Zanobla #1-21	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 16, 2012	12/16/12

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Class A Common	17.90	3,043.00
3.00	MAT	Gel	23.40	70.20
6.00	MAT	Chloride	64.00	384.00
183.82	SER	Cubic Feet	2.48	455.87
293.65	SER	Ton Mileage	2.60	763.49
1.00	SER	Surface	1,512.25	1,512.25
35.00	SER	Pump Truck Mileage	7.70	269.50
1.00	SER	Manifold Swedge Rental	275.00	275.00
35.00	SER	Light Vehicle Mileage	4.40	154.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Brandon Wilkinson		

INT



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

\$ 1593.30

ONLY IF PAID ON OR BEFORE
Dec 11, 2012

Subtotal	6,927.31
Sales Tax	272.78
Total Invoice Amount	7,200.09
Payment/Credit Applied	
TOTAL	7,200.09

DW

ALLIED CEMENTING CO., LLC. 035970

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Oakley

DATE <u>11-16-12</u>	SEC. <u>21</u>	TWP. <u>15</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00 PM</u>	JOB FINISH <u>10:30 PM</u>
BASE <u>Zansbia</u>	WELL # <u>1-21</u>		LOCATION <u>Oakley 285-4 1/2 W 25- W70 360</u>			COUNTY <u>Osage</u>	STATE <u>KS.</u>
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)			RD- <u>15</u>			1.01	7.8

CONTRACTOR HD #2
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 225'
 CASING SIZE 8 5/8 DEPTH 225.20'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 13.45

OWNER Same
 CEMENT AMOUNT ORDERED 170 SKs Cam 3% CC
2% Gel
 COMMON 170 SKs @ \$17.92 = \$3043.00
 POZMIX _____ @ _____
 GEL 3 SKs @ \$28.40 = \$85.20
 CHLORIDE 6 SKs @ \$64.00 = \$384.00
 ASC _____ @ _____

EQUIPMENT
 PUMP TRUCK CEMENTER Drew Ricketts 1
1423-281 HELPER Tyler Flipse 2
 BULK TRUCK
1347 DRIVER Brandon Wilkinson 3
 BULK TRUCK
 1 DRIVER

HANDLING 183.82 @ \$2.44 = \$455.82
 MILEAGE 8.39 @ \$2.42 = \$203.24
 TOTAL \$4716.66

REMARKS:

mid cement
Displaced with water
Cement did circulate

SERVICE

DEPTH OF JOB 225.20'
 PUMP TRUCK CHARGE \$1512.25
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 35 @ \$7.20 = \$252.00
 MANIFOLD Swadge @ _____ = \$275.00
L & mileage @ \$4.00 = \$154.00

CHARGE TO: Shakespeare
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL \$2210.25

PLUG & FLOAT EQUIPMENT

To Allied Cementing Co., 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

TOTAL _____
 SALES TAX (if Any) 273.28
 TOTAL CHARGES \$2210.25
 DISCOUNT 1593.30 IF PAID IN 30 DAYS

2370 5334.01



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 133787
Invoice Date: Nov 28, 2012
Page: 1

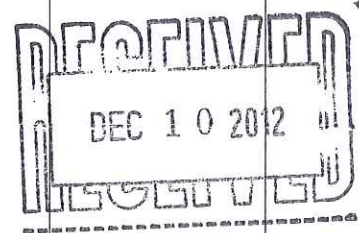


Bill To:
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Zanobia #1-21	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Nov 28, 2012	12/28/12

Quantity	Item	Description	Unit Price	Amount
123.00	MAT	Class A Common	17.90	2,201.70
82.00	MAT	Pozmix	9.35	766.70
7.00	MAT	Gel	23.40	163.80
51.00	MAT	Flo Seal	2.97	151.47
220.15	SER	Cubic Feet	2.48	545.97
346.18	SER	Ton Mileage	2.60	900.08
1.00	SER	Plug to Abandon	2,483.59	2,483.59
35.00	SER	Pump Truck Mileage	7.70	269.50
35.00	SER	Light Vehicle Mileage	4.40	154.00
1.00	EQP	8.5/8 Wooden plug	107.64	107.64
1.00	CEMENTER	Terry Heinrich		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Chris Helpingstine		

INT



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

\$ 2478.22

ONLY IF PAID ON OR BEFORE
Dec 23, 2012

Subtotal	7,744.45
Sales Tax	604.07
Total Invoice Amount	8,348.52
Payment/Credit Applied	
TOTAL	8,348.52

DW

ALLIED CEMENTING CO., LLC. 044140

Federal Tax I.D.# 20-5976804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
OAKLEY

DATE <u>11-28-12</u>	SEC <u>21</u>	TWP. <u>15S</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION <u>2:00 PM</u>	JOB START <u>4:30 PM</u>	JOB FINISH <u>5:00 AM</u>
LEAD <u>ZANOBIA</u>	WELL # <u>1-21</u>	LOCATION <u>OAKLEY 235-4605-25-2 W</u>			COUNTY <u>LOGAN</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)				<u>15-E INTD</u>			

CONTRACTOR H.D. ORLIG R.R. #2

TYPE OF JOB PTA

HOLE SIZE 7 7/8" T.D. 4600'

CASINO SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 1 1/2" DEPTH 2260'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER SAME

CEMENT AMOUNT ORDERED

205 SKS 60/100 POZ. 418881 7/4 FLO-SEAL

COMMON	<u>123 SKS</u>	@ <u>17.20</u>	<u>2201.70</u>
POZMIX	<u>82 SKS</u>	@ <u>9.25</u>	<u>766.25</u>
GEL	<u>7 SKS</u>	@ <u>23.40</u>	<u>163.98</u>
CHLORIDE		@	
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER TERRY HERRICK

HELPER TYLER HIPSE

BULK TRUCK DRIVER CHRIS HELPRING

DRIVER _____

FLO-SEAL 51"	@ <u>2.97</u>	<u>151.27</u>
HANDLING <u>220.15 cyp</u>	@ <u>2.48</u>	<u>545.97</u>
MILEAGE <u>9.891700 x 35</u>	@ <u>2.60</u>	<u>900.98</u>
TOTAL		<u>4729.72</u>

REMARKS:

25 SKS AT 2260'

20 SKS AT 1055'

40 SKS AT 275'

10 SKS AT 40'

10 SKS RAT HOLE

THANK YOU

TARGET TO: SHAKESPEARE OIL & GAS

REET _____

TY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>2260'</u>	
PUMP TRUCK CHARGE		<u>2483.52</u>
EXTRA FOOTAGE	@	
MILEAGE <u>35 mi</u>	@ <u>7.20</u>	<u>269.50</u>
MANIFOLD	@	
L.V. MILEAGE <u>35 mi</u>	@ <u>4.40</u>	<u>154.00</u>
TOTAL		<u>2907.02</u>

PLUG & FLOAT EQUIPMENT

<u>1- 8 3/8 Wood Plug</u>	@ <u>107.64</u>	<u>107.64</u>
	@	
	@	
	@	
	@	
TOTAL		<u>107.64</u>

SALES TAX (If Any) 6.04.06

TOTAL CHARGES 7,744.45

DISCOUNT 2478.22 IF PAID IN 30 DAYS.

5266.23

32.070

Allied Cementing Co., LLC.

I am hereby requested to rent cementing equipment 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 B.J. Schneider

NATURE B.J. Schneider

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

December 13, 2012

Don Williams
Shakespeare Oil Co., Inc.
202 W MAIN ST
SALEM, IL 62881-1519

Re: ACO1
API 15-109-21141-00-00
Zanobia 1-21
SW/4 Sec.21-15S-33W
Logan County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Don Williams