



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1087498
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: _____

1087498

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. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</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	Zanobia 1-22
Doc ID	1087498

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Zanobia 1-22
Doc ID	1087498

Tops

Name	Top	Datum
Base Anhydrite	2234	+579
Heebner	3752	-939
Lansing	3795	-982
Muncie Creek	3967	-1154
Stark Shale	4053	-1240
Hushpuckney	4101	-1288
BKC	4142	-1329
Pawnee	4274	-1461
L. Cherokee Shale	4354	-1541
Johnson	4398	-1585
Morrow Shale	4455	-1642
Mississippian	4505	-1692



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48926

DST#: 1

ATTN: Tim Priest

Test Start: 2012.07.05 @ 08:58:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:33:00

Time Test Ended: 16:45:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 62

Interval: 3701.00 ft (KB) To 3743.00 ft (KB) (TVD)

Reference Elevations: 2813.00 ft (KB)

Total Depth: 3743.00 ft (KB) (TVD)

2803.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 236.48 psig @ 3703.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.05

End Date: 2012.07.05

Last Calib.: 2012.07.05

Start Time: 08:58:02

End Time: 16:45:19

Time On Btm: 2012.07.05 @ 11:31:00

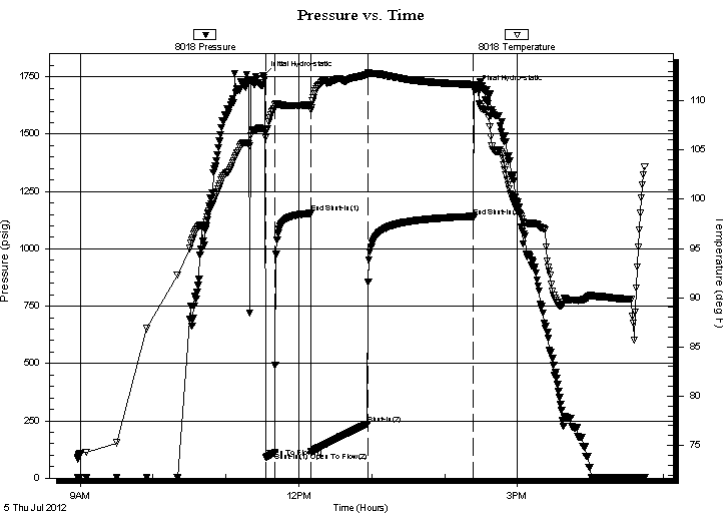
Time Off Btm: 2012.07.05 @ 14:25:00

TEST COMMENT: Tool opened and then slid 15', reset tool, 6" blow.

No return.

B.O.B. @ 19 min.

No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.22	107.11	Initial Hydro-static
2	91.90	106.25	Open To Flow (1)
10	110.54	109.17	Shut-In(1)
39	1155.56	109.55	End Shut-In(1)
39	114.26	109.05	Open To Flow (2)
86	236.48	112.67	Shut-In(2)
173	1141.41	111.65	End Shut-In(2)
174	1694.26	111.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
242.00	MW 5m 95w Oil spots in tool.	2.28
245.00	MW 25m 75w	3.44
0.00	RW: .190 @ 95 Degrees F = 26000PPM	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48926

DST#: 1

ATTN: Tim Priest

Test Start: 2012.07.05 @ 08:58:00

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:

26000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
242.00	MW 5m 95w Oil spots in tool.	2.283
245.00	MW 25m 75w	3.437
0.00	RW: .190 @ 95 Degrees F = 26000PPM	0.000

Total Length: 487.00 ft

Total Volume: 5.720 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8018

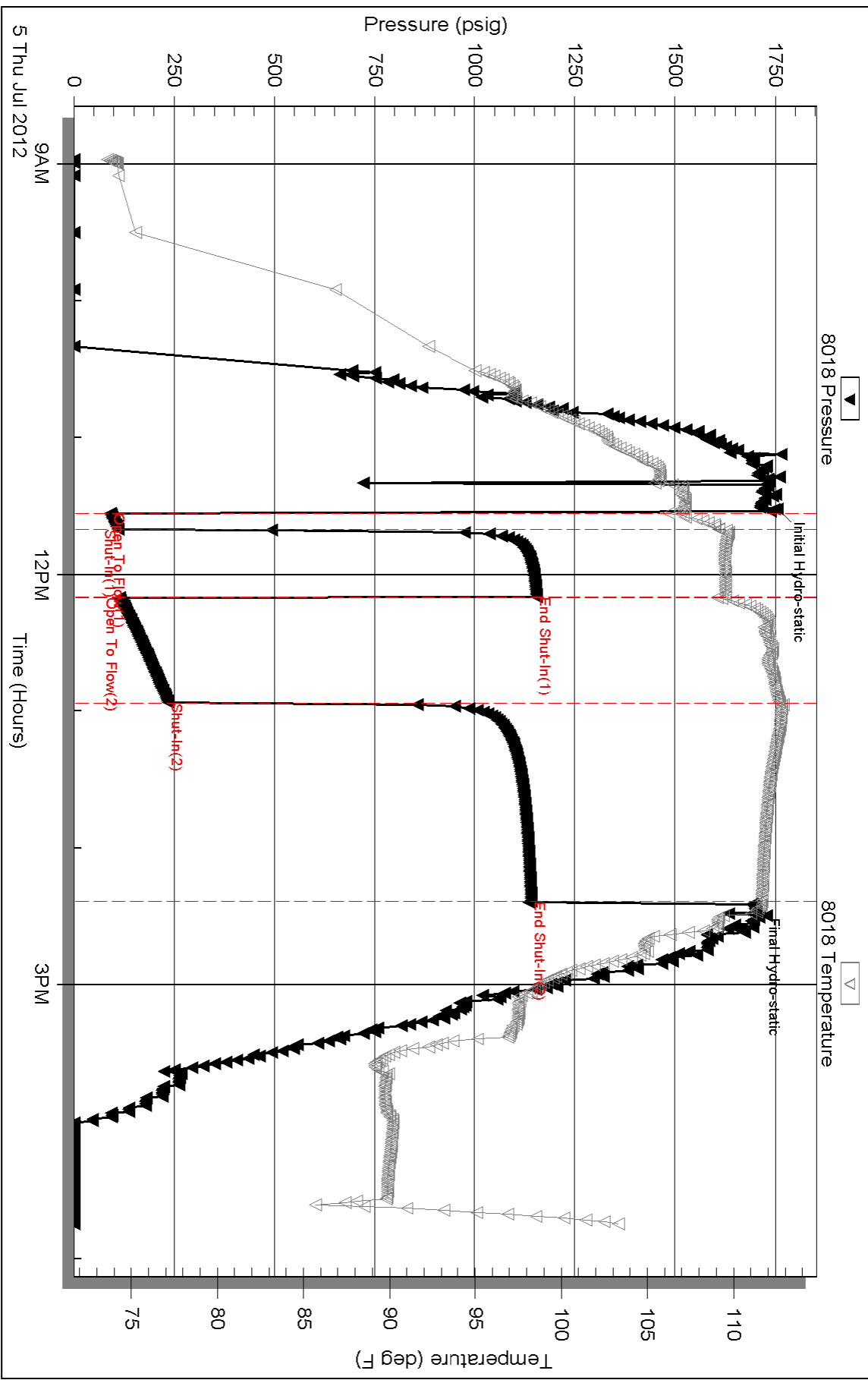
Inside

Shakespeare Oil Co.

Zanobia #1-22

DST Test Number: 1

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespear Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48927

DST#: 2

ATTN: Tim Priest

Test Start: 2012.07.07 @ 01:03:00

GENERAL INFORMATION:

Formation: **LKC 'J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:19:00

Time Test Ended: 08:47:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4005.00 ft (KB) To 4032.00 ft (KB) (TVD)

Reference Elevations: 2813.00 ft (KB)

Total Depth: 4032.00 ft (KB) (TVD)

2803.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 260.99 psig @ 4007.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.07

End Date:

2012.07.07

Last Calib.:

2012.07.07

Start Time: 01:03:02

End Time:

08:47:30

Time On Btm:

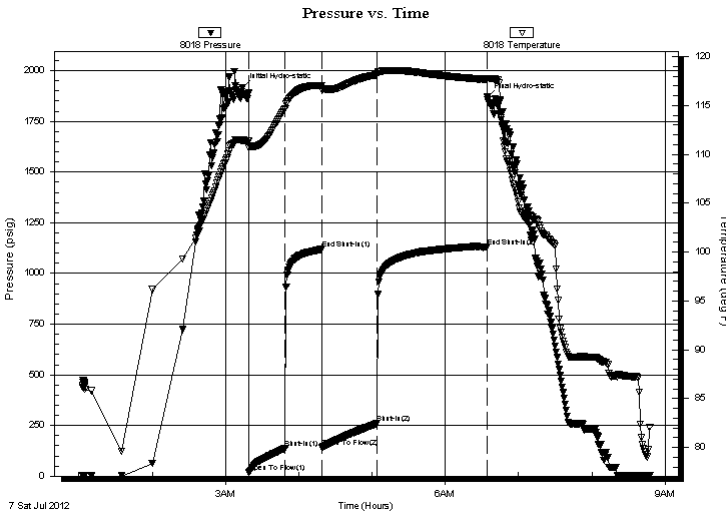
2012.07.07 @ 03:13:50

Time Off Btm:

2012.07.07 @ 06:34:30

TEST COMMENT: B.O.B. @ 18 min.
No return.
B.O.B. @ 20 min.
Weak return, died @ 10 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1918.06	111.45	Initial Hydro-static
6	18.40	110.62	Open To Flow (1)
35	137.75	114.72	Shut-In(1)
65	1121.16	117.06	End Shut-In(1)
66	143.76	116.58	Open To Flow (2)
111	260.99	118.17	Shut-In(2)
200	1130.63	117.65	End Shut-In(2)
201	1869.04	117.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .220 @ 70 Degrees F = 32000 PPM	0.00
422.00	MW 5m 95w Popping gas	4.81
180.00	MW 40m 60w	2.52

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespear Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48927

DST#: 2

ATTN: Tim Priest

Test Start: 2012.07.07 @ 01:03:00

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:

32000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	RW: .220 @ 70 Degrees F = 32000 PPM	0.000
422.00	MW 5m 95w Popping gas	4.808
180.00	MW 40m 60w	2.525

Total Length: 602.00 ft Total Volume: 7.333 bbl

Num Fluid Samples: 0

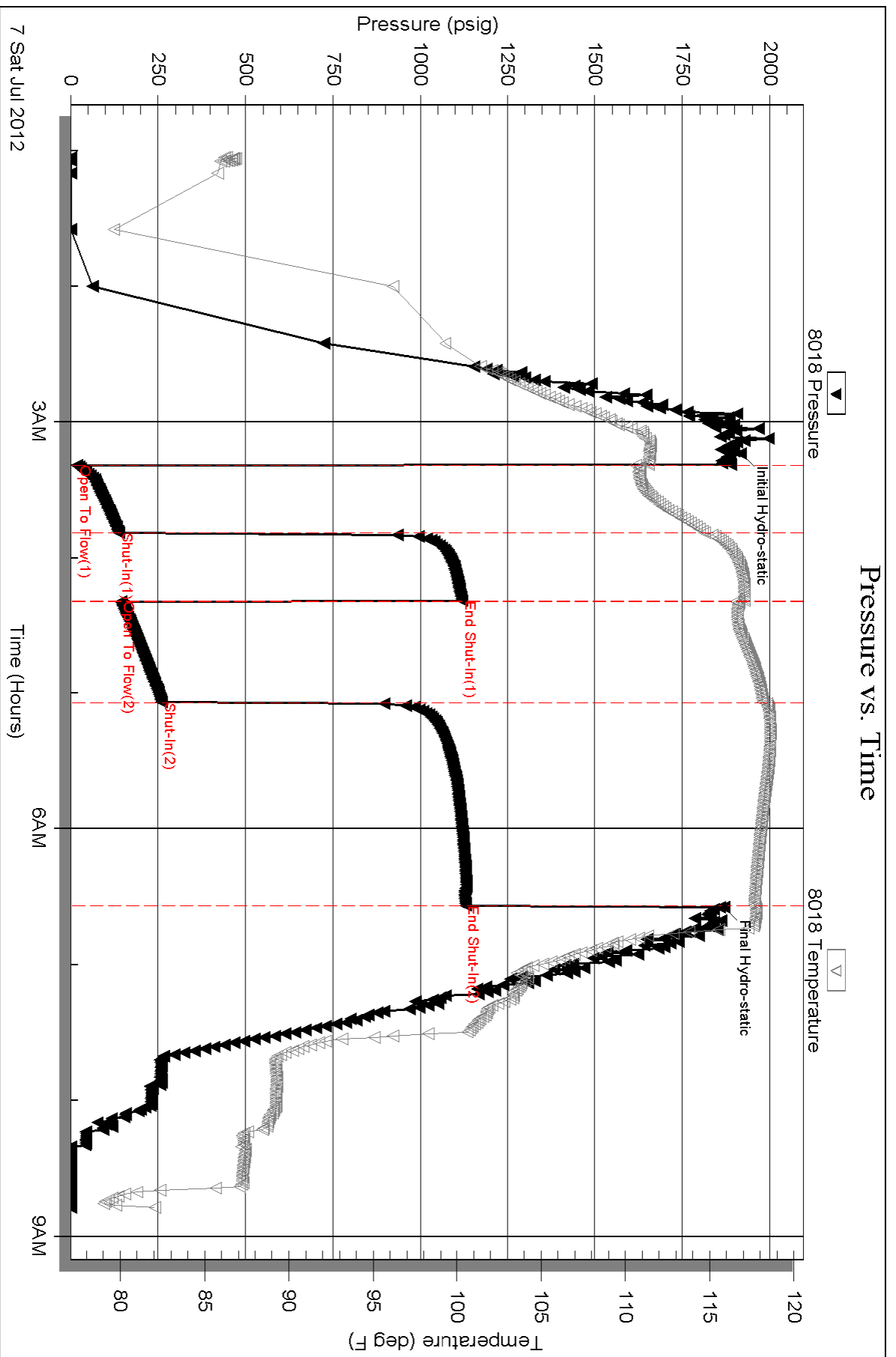
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

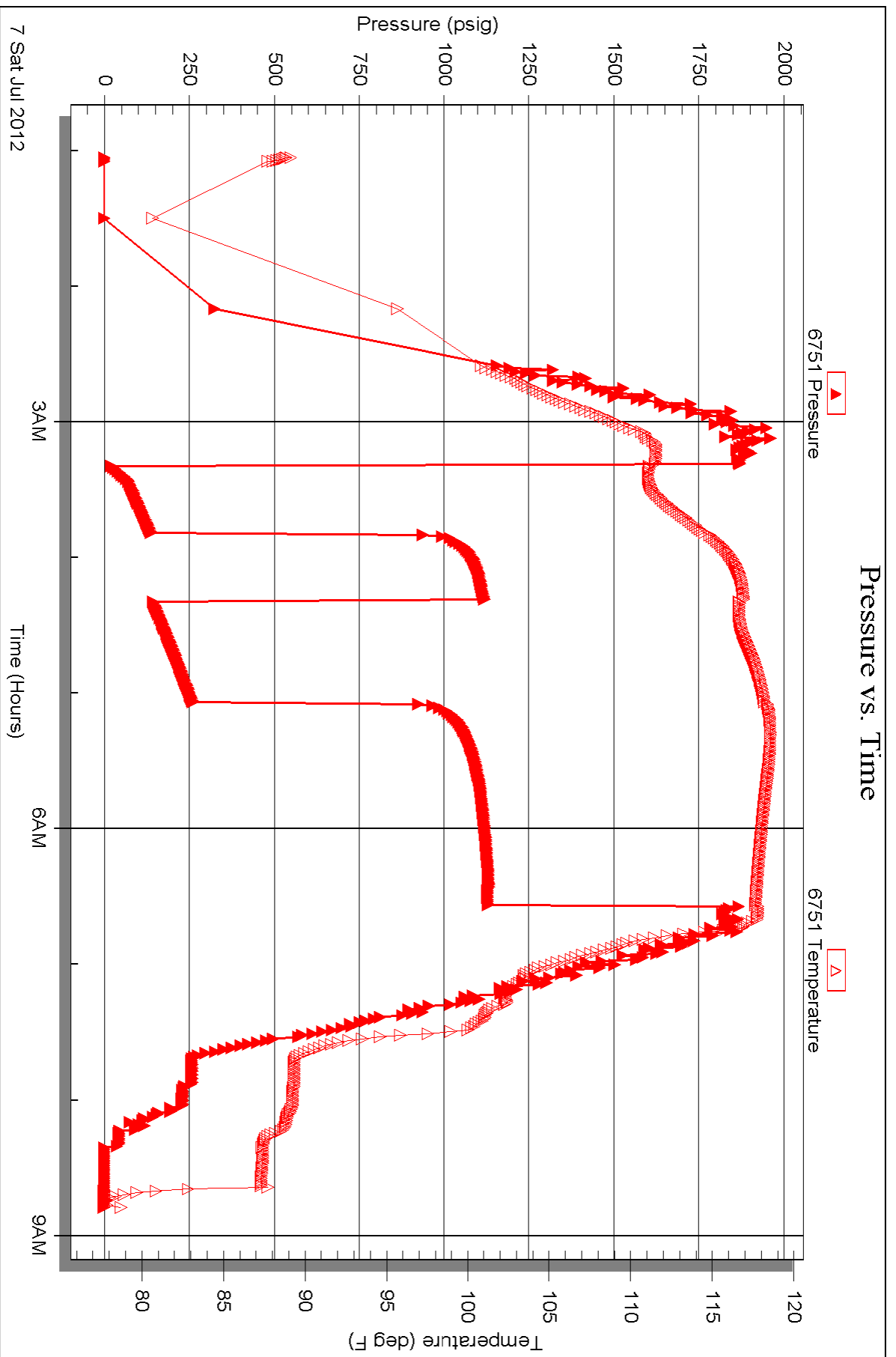


Serial #: 6751

Outside Shakespeare Oil Co.

Zanobia #1-22

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespear Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48928

DST#: 3

ATTN: Tim Priest

Test Start: 2012.07.07 @ 22:56:00

GENERAL INFORMATION:

Formation: **LKC 'L'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:02:50

Time Test Ended: 06:46:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4100.00 ft (KB) To 4122.00 ft (KB) (TVD)

Total Depth: 4122.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2813.00 ft (KB)

2803.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8018 Inside

Press @ Run Depth: 98.29 psig @ 4102.00 ft (KB)

Start Date: 2012.07.07

End Date:

2012.07.08

Start Time: 22:56:02

End Time:

06:46:50

Capacity: 8000.00 psig

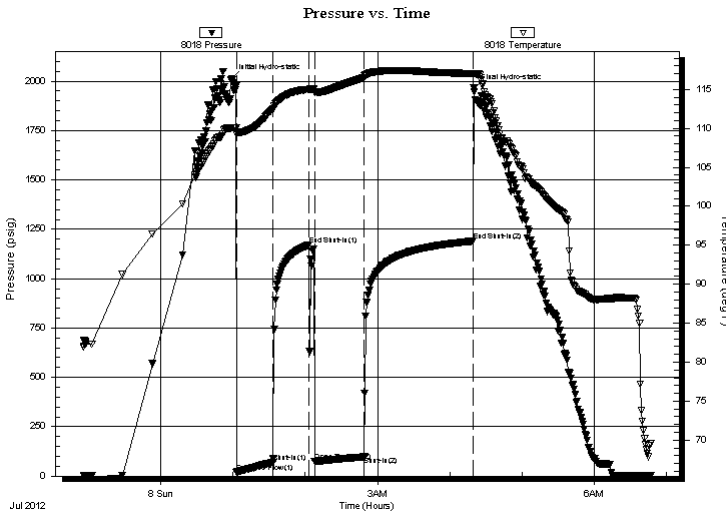
Last Calib.: 2012.07.08

Time On Btm: 2012.07.08 @ 00:59:00

Time Off Btm: 2012.07.08 @ 04:20:00

TEST COMMENT: 4" Blow.
No return.
4" Blow.
Weak return died @ 4 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2013.89	110.06	Initial Hydro-static
4	19.11	109.26	Open To Flow (1)
35	69.76	112.47	Shut-In(1)
64	1171.18	115.01	End Shut-In(1)
69	73.90	114.55	Open To Flow (2)
110	98.29	116.50	Shut-In(2)
201	1189.98	117.02	End Shut-In(2)
201	1964.15	117.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: 227 @ 70 Degrees F = 34000PPM	0.00
182.00	OSMW 40m 60w	1.44
10.00	OCWM 2o 15w 83m	0.14

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespear Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48928

DST#: 3

ATTN: Tim Priest

Test Start: 2012.07.07 @ 22:56:00

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:

34000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 14000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	RW:.227 @ 70 Degrees F = 34000PPM	0.000
182.00	OSMW 40m 60w	1.442
10.00	OCWM 2o 15w 83m	0.140

Total Length: 192.00 ft

Total Volume: 1.582 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

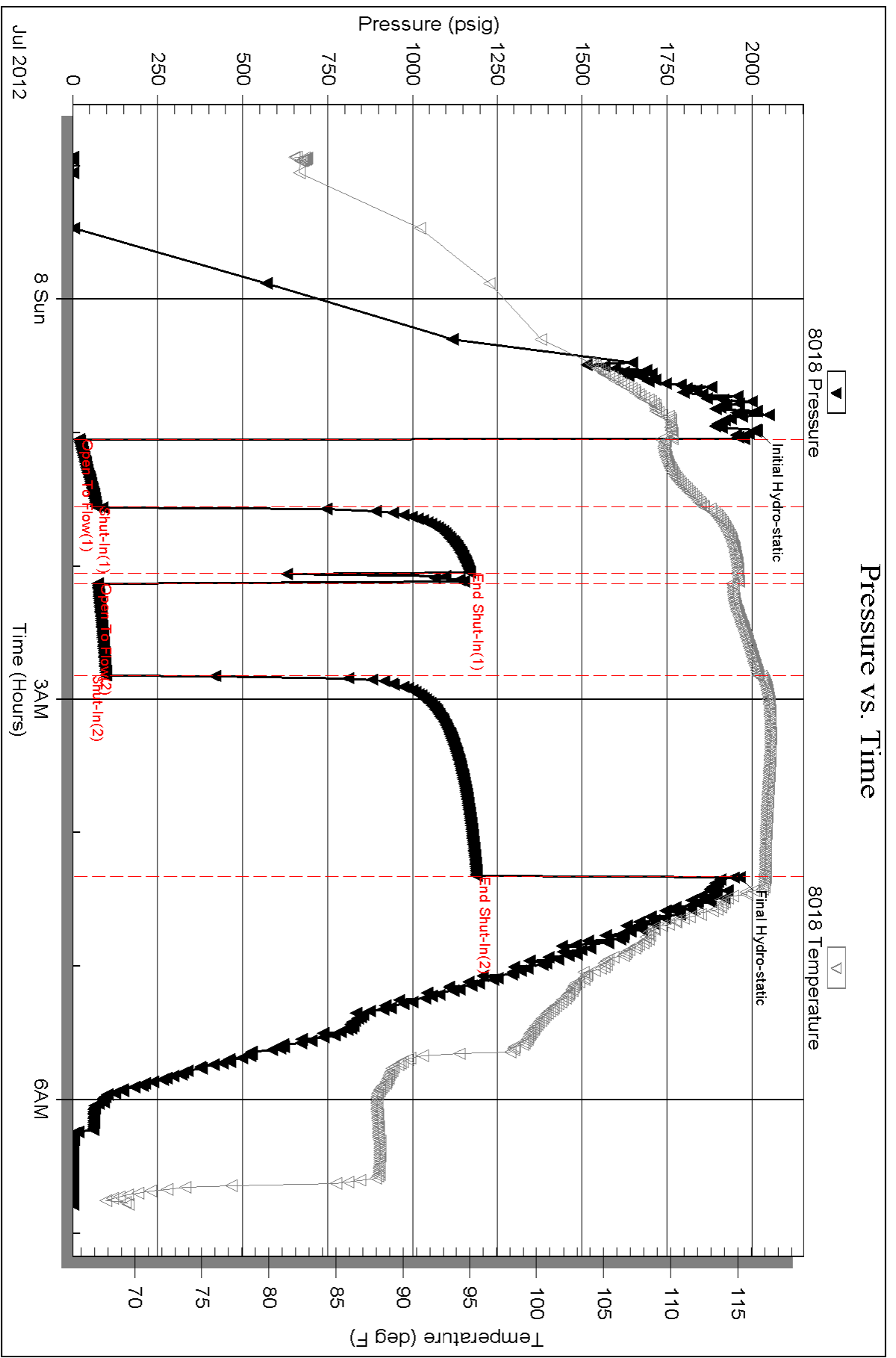
Serial #: 8018

Inside

Shakespeare Oil Co.

Zanobia #1-22

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespear Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48929

DST#: 4

ATTN: Tim Priest

Test Start: 2012.07.08 @ 18:36:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:27:10

Time Test Ended: 00:39:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4152.00 ft (KB) To 4190.00 ft (KB) (TVD)

Total Depth: 4190.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2813.00 ft (KB)

2803.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 17.54 psig @ 4154.00 ft (KB)

Start Date: 2012.07.08

End Date:

2012.07.09

Start Time: 18:36:02

End Time:

00:39:00

Capacity: 8000.00 psig

Last Calib.: 2012.07.09

Time On Btm: 2012.07.08 @ 20:22:30

Time Off Btm: 2012.07.08 @ 22:29:00

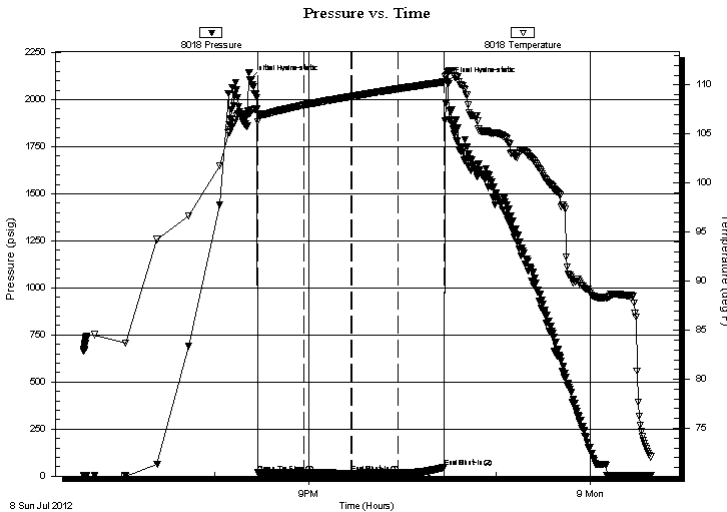
TEST COMMENT: Weak blow died @ 1 min.

No return.

No blow, flushed tool, no blow.

No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2105.94	107.12	Initial Hydro-static
5	16.90	106.28	Open To Flow (1)
35	16.99	107.95	Shut-In(1)
65	16.81	108.82	End Shut-In(1)
65	14.58	108.83	Open To Flow (2)
95	17.54	109.60	Shut-In(2)
124	47.37	110.31	End Shut-In(2)
127	2094.26	111.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100m	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

Shakespear Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48929

DST#: 4

ATTN: Tim Priest

Test Start: 2012.07.08 @ 18:36:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 18000.00 ppm

Filter Cake: 3.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 100m	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:

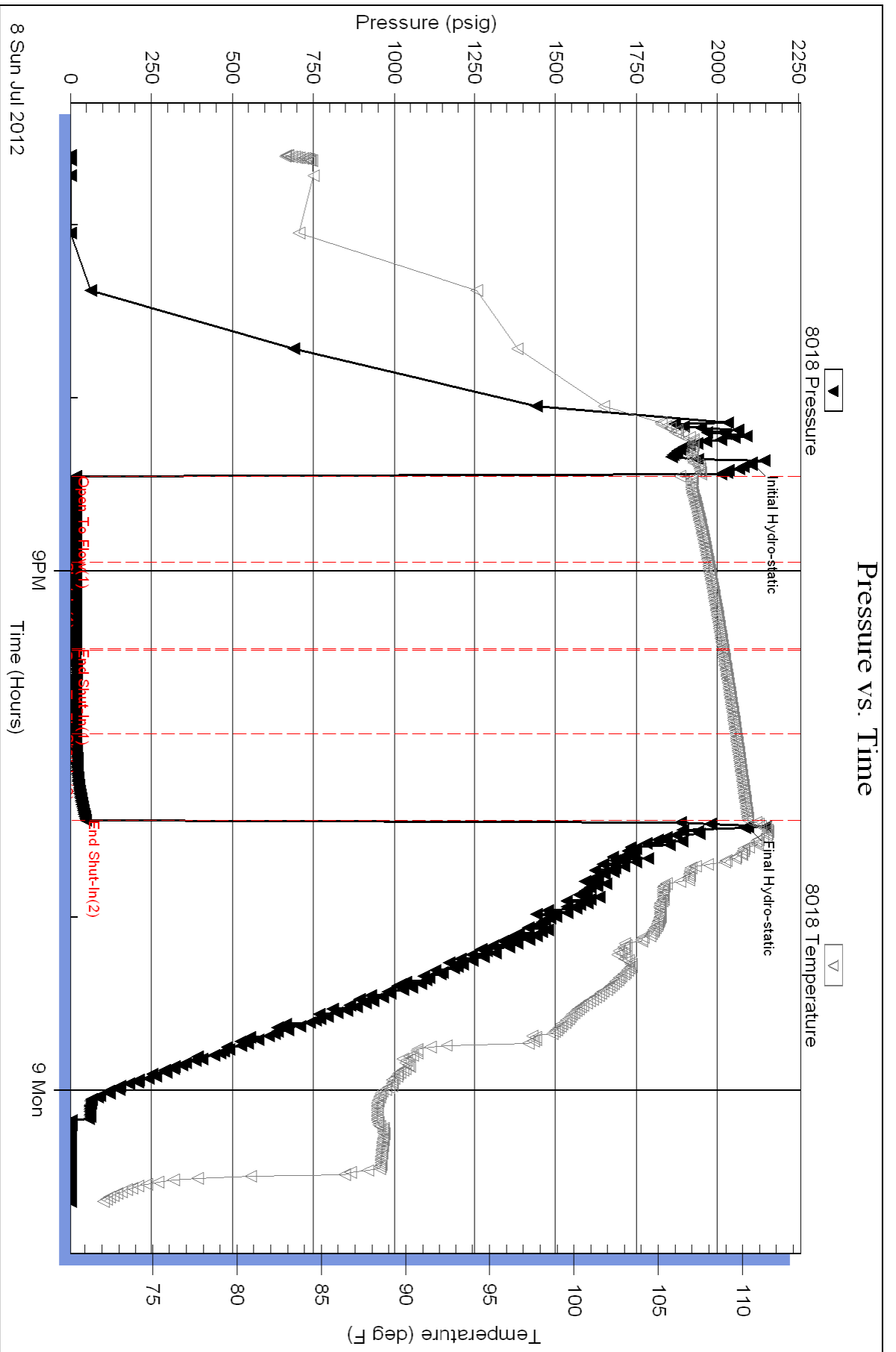
Serial #: 8018

Inside

Shakespeare Oil Co.

Zanobia #1-22

DST Test Number: 4





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespear Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48930

DST#: 5

ATTN: Tim Priest

Test Start: 2012.07.09 @ 17:50:00

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:52:10

Time Test Ended: 00:13:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4190.00 ft (KB) To 4237.00 ft (KB) (TVD)

Reference Elevations: 2813.00 ft (KB)

Total Depth: 4237.00 ft (KB) (TVD)

2803.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 52.30 psig @ 4192.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.09

End Date:

2012.07.10

Last Calib.: 2012.07.10

Start Time: 17:50:02

End Time:

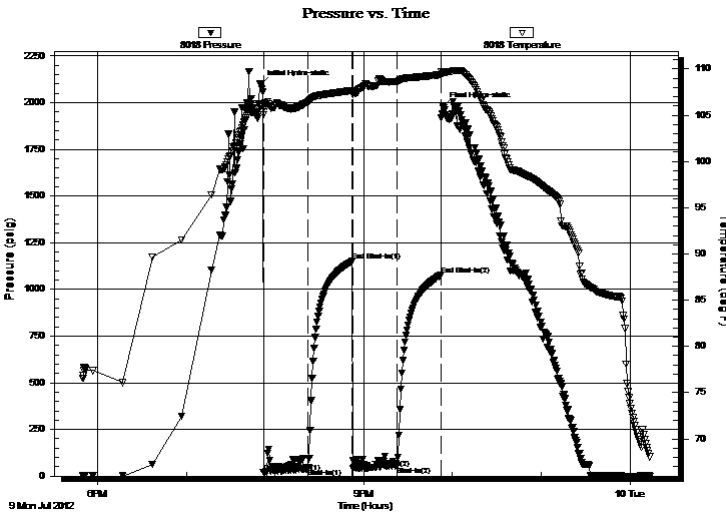
00:13:20

Time On Btm: 2012.07.09 @ 19:50:20

Time Off Btm: 2012.07.09 @ 21:53:30

TEST COMMENT: 1/2" Blow .
No return.
No blow .
No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2099.00	106.06	Initial Hydro-static
2	20.11	105.07	Open To Flow (1)
32	39.02	106.42	Shut-In(1)
62	1150.14	107.69	End Shut-In(1)
63	40.35	107.42	Open To Flow (2)
93	52.30	108.58	Shut-In(2)
122	1076.90	109.38	End Shut-In(2)
124	1980.54	109.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	SOCM 1 to 99m	0.32

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespear Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48930

DST#: 5

ATTN: Tim Priest

Test Start: 2012.07.09 @ 17:50:00

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	SOCM 1o 99m	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

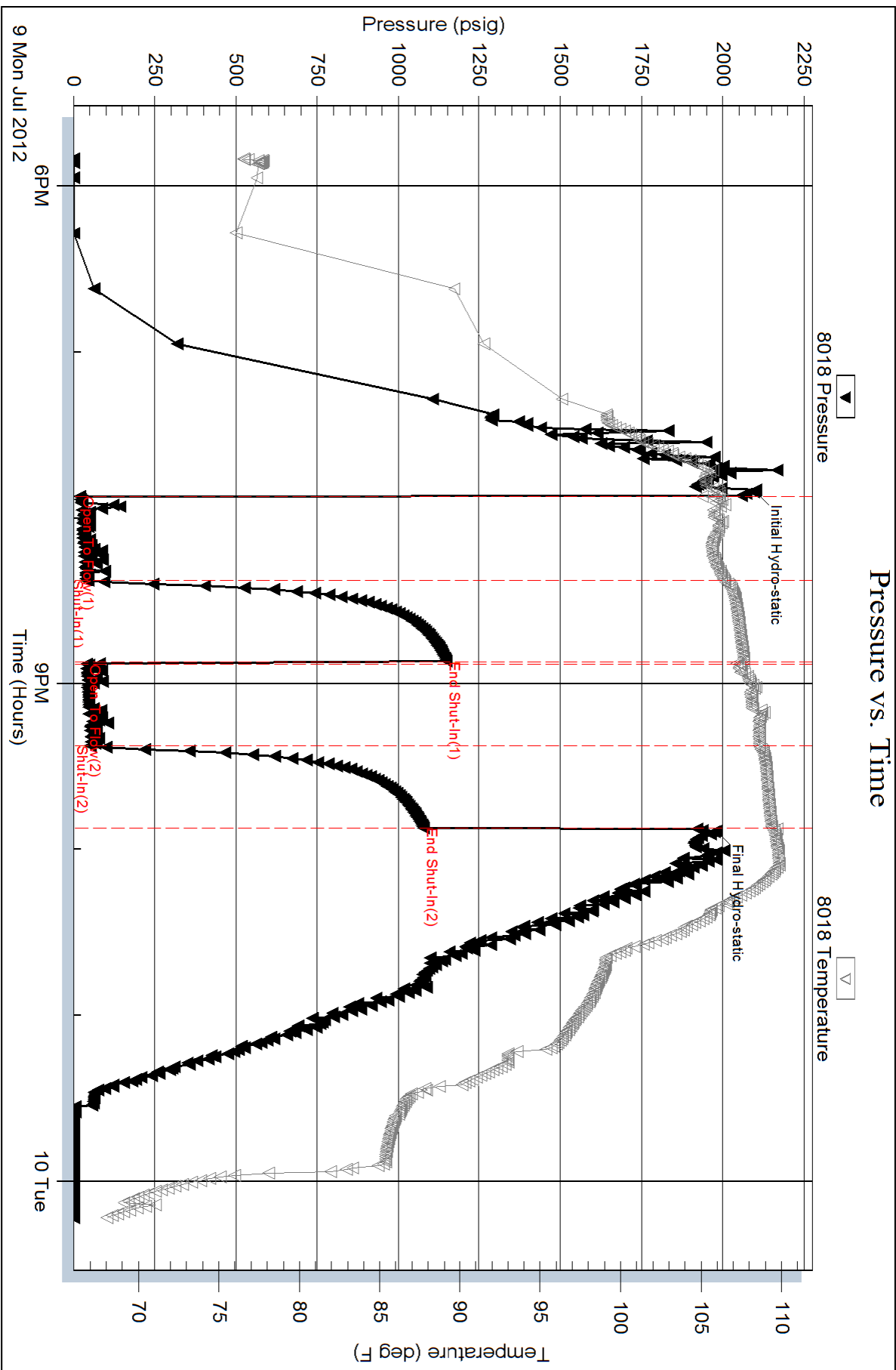
Serial #: 8018

Inside

Shakespeare Oil Co.

Zanobia #1-22

DST Test Number: 5





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespear Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48931

DST#: 6

ATTN: Tim Priest

Test Start: 2012.07.11 @ 08:26:00

GENERAL INFORMATION:

Formation: **Pawnee - Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:22:40

Time Test Ended: 14:14:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4263.00 ft (KB) To 4340.00 ft (KB) (TVD)

Reference Elevations: 2813.00 ft (KB)

Total Depth: 4340.00 ft (KB) (TVD)

2803.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 20.19 psig @ 4265.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.11

End Date:

2012.07.11

Last Calib.:

2012.07.11

Start Time: 08:26:02

End Time:

14:14:40

Time On Btm:

2012.07.11 @ 10:19:50

Time Off Btm:

2012.07.11 @ 12:23:00

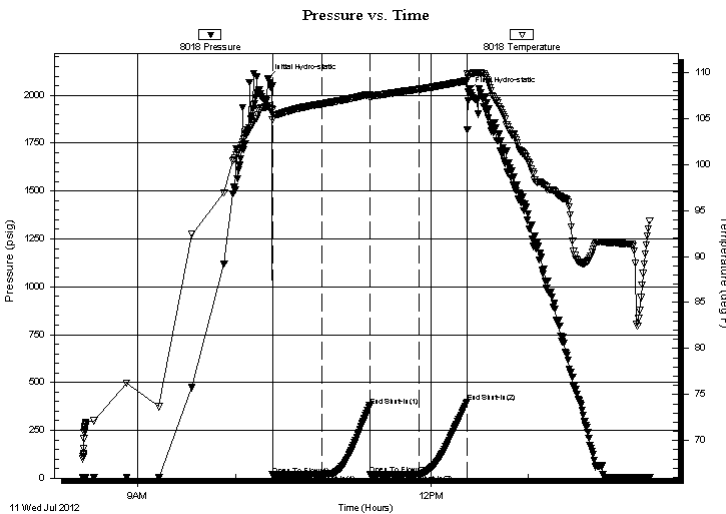
TEST COMMENT: Weak blow died @ 6 min.

No return.

No blow.

No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2085.24	106.39	Initial Hydro-static
3	16.92	104.90	Open To Flow (1)
34	18.17	106.59	Shut-In(1)
63	377.96	107.60	End Shut-In(1)
63	18.92	107.29	Open To Flow (2)
93	20.19	108.17	Shut-In(2)
123	396.85	109.09	End Shut-In(2)
124	2019.26	109.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	OSM 100m	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

Shakespear Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48931

DST#: 6

ATTN: Tim Priest

Test Start: 2012.07.11 @ 08:26:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	OSM 100m	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

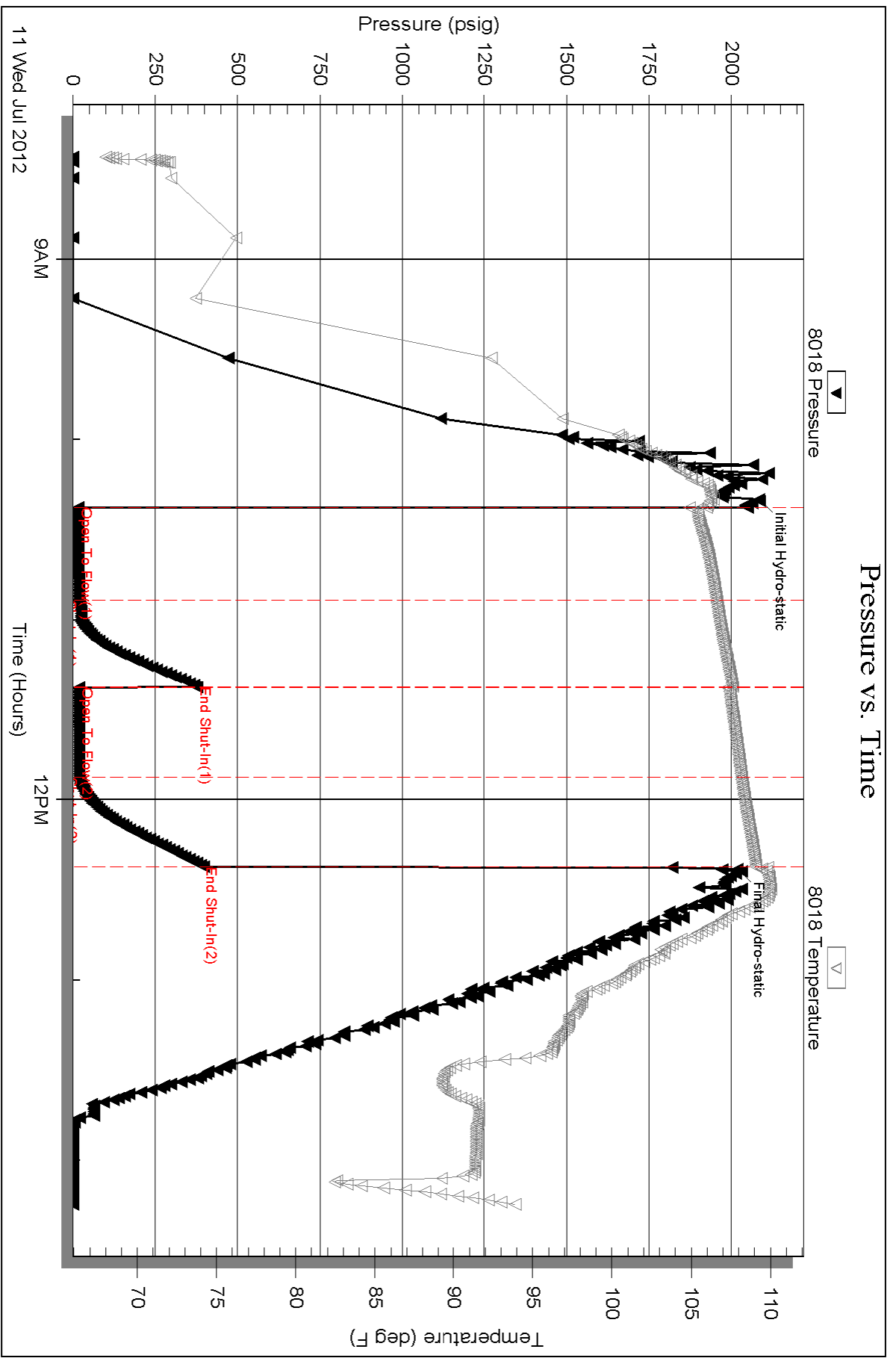
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespear Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48932

DST#: 7

ATTN: Tim Priest

Test Start: 2012.07.12 @ 07:35:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:26:20
 Time Test Ended: 13:14:00
 Interval: **4370.00 ft (KB) To 4438.00 ft (KB) (TVD)**
 Total Depth: 4438.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 62
 Reference Elevations: 2813.00 ft (KB)
 2803.00 ft (CF)
 KB to GR/CF: 10.00 ft

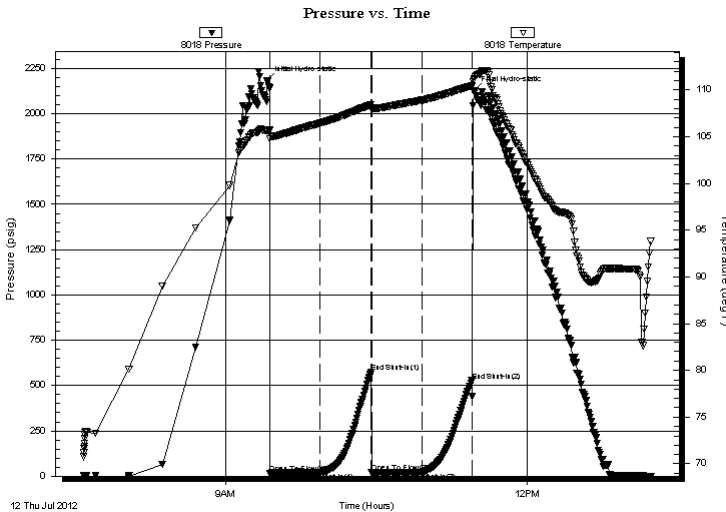
Serial #: 8018

Inside

Press @ RunDepth: 21.40 psig @ 4372.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.07.12 End Date: 2012.07.12 Last Calib.: 2012.07.12
 Start Time: 07:35:02 End Time: 13:14:00 Time On Btm: 2012.07.12 @ 09:24:40
 Time Off Btm: 2012.07.12 @ 11:28:00

TEST COMMENT: Weak blow died @ 10 min.
 No return.
 No blow.
 No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.59	105.67	Initial Hydro-static
2	17.28	104.77	Open To Flow (1)
32	18.96	106.43	Shut-In(1)
62	573.88	108.39	End Shut-In(1)
63	18.98	107.94	Open To Flow (2)
93	21.40	108.89	Shut-In(2)
122	526.31	110.41	End Shut-In(2)
124	2129.06	111.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100m	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespear Oil Co.

S22-15-33 Logan, KS

202 W. Main St.
Salem, IL 62881

Zanobia #1-22

Job Ticket: 48932

DST#: 7

ATTN: Tim Priest

Test Start: 2012.07.12 @ 07:35:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: 9000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 100m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

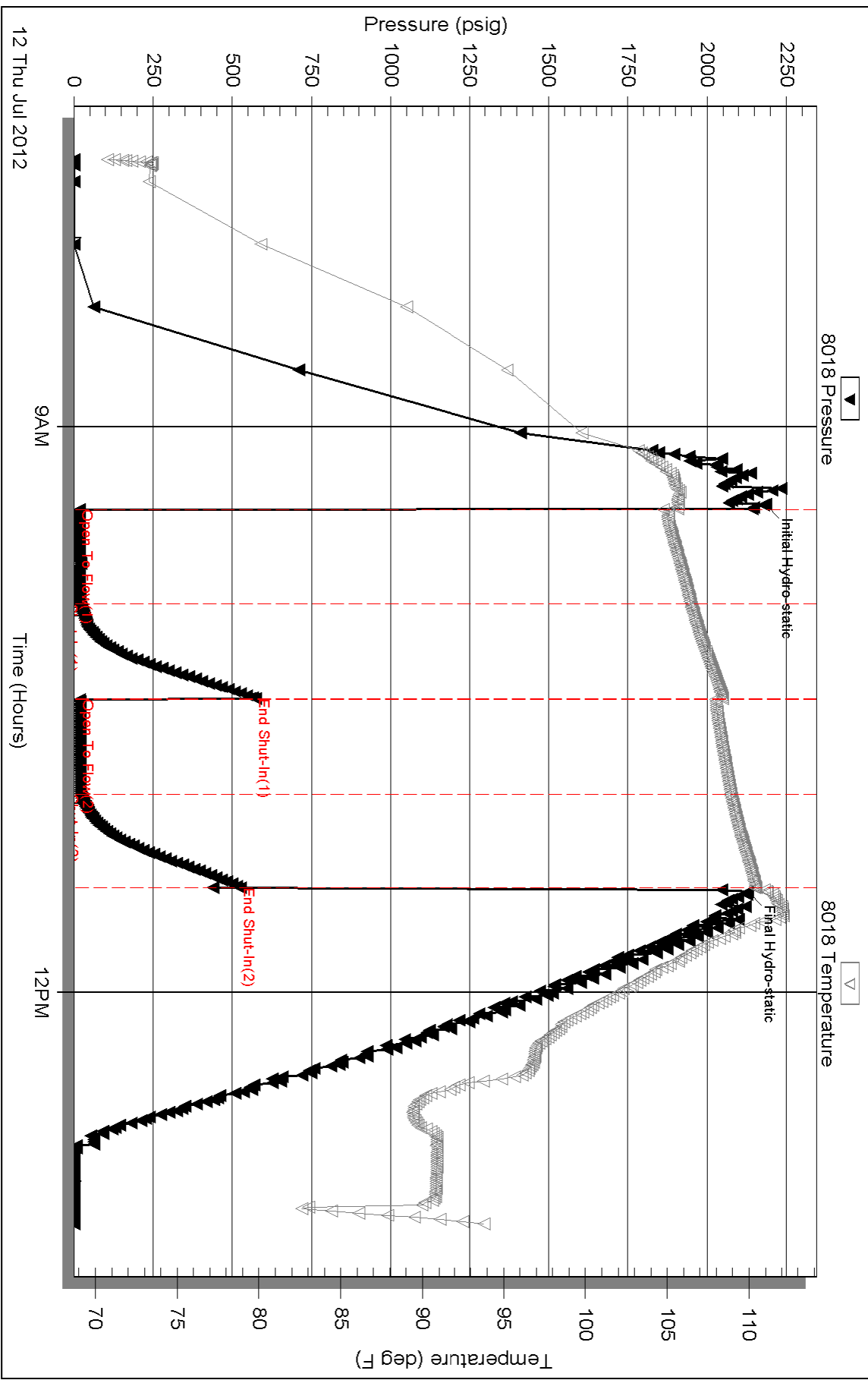
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPEAR OIL CO.**
 LEASE **Zandohla T-22**
 FIELD **Wildcat**
 LOCATION **10907 FSL, 2305' FWL**
 SEC **22** TWP **15S** R **15E**
 COUNTY **Logan** STATE **Kansas**

ELEVATIONS
 KG 2813'
 DF _____
 GL 2803'

CONTRACTOR **HD Drilling Rig #2**
 SPUD **6-28-12** COMP _____
 RTD **4585'** LTD **4585'**
 MUD UP **3500'** 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
 Anydvrite **2214 (+999)**
 Heebner Shale **3752 (-939)**
 Austung **3795 (-984)**
 SARC **4053 (-1240)**
 BRC **4142 (-1329)**
 Fort Scott **4327 (-1514)**
 Cherokee Shale **4334 (-1541)**
 Missisippian **4505 (-1692)**

ELECTRIC LOG
 SAMPLE
 2217 (+996)
 3752 (-939)
 3796 (-983)
 4053 (-1240)
 4142 (-1329)
 4324 (-1511)
 4334 (-1541)
 4505 (-1692)

DRILLING TIME AND SAMPLE LOG
 SURFACE **8-5/8" @ 253'**
 CONDUCTION **N/A**
 CASING _____
 From **KB**
 Measurements Are All _____

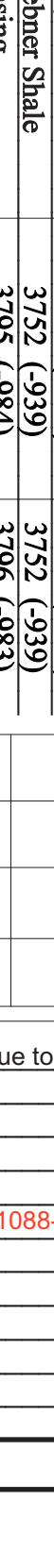
PRODUCTION _____
 ELECTRICAL SURVEYS **CND/D/SP/P.E.**
 GEOLOGIST ON WELL **Tim Priest**
 By: **Weatherford**

REMARKS **Due to the negative results of DST's, it was decided to plug and abandon the well.**

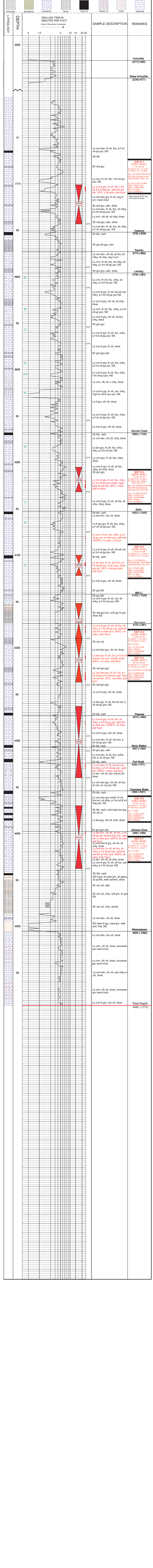
Respectfully Submitted,
Tim Priest
 Petroleum Geologist

API #15-109-21088-00-00

22



FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anydvrite	2214 (+999)	2217 (+996)
Heebner Shale	3752 (-939)	3752 (-939)
Austung	3795 (-984)	3796 (-983)
SARC	4053 (-1240)	4053 (-1240)
BRC	4142 (-1329)	4142 (-1329)
Fort Scott	4327 (-1514)	4324 (-1511)
Cherokee Shale	4334 (-1541)	4334 (-1541)
Missisippian	4505 (-1692)	4505 (-1692)





PO Box 93999
Southlake, TX 76092

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

INVOICE

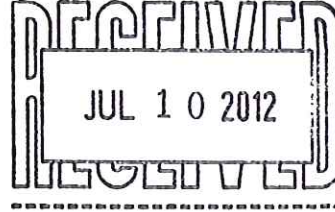
Invoice Number: 131739

Invoice Date: Jun 28, 2012

Page: 1

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

INT



Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Shak	Zanobia #1-22	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 28, 2012	7/28/12

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	Class A Common	16.25	2,843.75
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
189.24	SER	Handling	2.10	397.40
388.80	SER	Ton mlles	2.35	913.68
1.00	SER	Surface	1,125.00	1,125.00
45.00	SER	Heavy Vehicle Mileage	7.00	315.00
1.00	SER	Manifold Head Rental	200.00	200.00
45.00	SER	Light Vehicle Mileage	4.00	180.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhght		
1.00	OPER ASSIST	Chris Helpingstine		

Surface
10502-5

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

\$ 1596.94

ONLY IF PAID ON OR BEFORE
Jul 23, 2012

Subtotal	6,387.78
Sales Tax	237.74
Total Invoice Amount	6,625.52
Payment/Credit Applied	
TOTAL	6,625.52

DW

ALLIED CEMENTING CO., LLC. 035424

Federal Tax I.D.# 20-5975804

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

SERVICE POINT

Oakley, KS

DATE <i>6/28/12</i>	SEC. <i>22</i>	TWR. <i>15</i>	RANGE <i>33</i>	CALLED OUT	ON LOCATION	JOB START <i>1:30 PM</i>	JOB FINISH <i>2:00 PM</i>
LEAS. <i>Zanobia</i>	WELL # <i>1-22</i>	LOCATION <i>Rance 2 E to grant 5 N 70</i>			COUNTY <i>Cogan</i>	STATE <i>Ks</i>	
OLD OR NEW (Circle one)			<i>Coyote 134 E N. 100</i>				

CONTRACTOR *HD # 2* OWNER *Same*

TYPE OF JOB *Surface*
 HOLE SIZE *12 1/4* T.D. *257*
 CASING SIZE *8 5/8* DEPTH *257*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. *15'*
 PERFS.
 DISPLACEMENT *15.41*

CEMENT AMOUNT ORDERED *175 Cum 307 PCC*
200 gal

COMMON <i>175</i>	@ <i>16.25</i>	<i>2843.75</i>
POZMIX	@	
GEL <i>3</i>	@	<i>63.75</i>
CHLORIDE <i>0</i>	@	<i>349.20</i>
ASC	@	

EQUIPMENT

PUMP TRUCK	CEMENTER <i>Alan Ryan</i>
# <i>401</i>	HELPER <i>Wayne McHugh</i>
BULK TRUCK	
# <i>247</i>	DRIVER <i>Chris Helmsingme</i>
BULK TRUCK	
#	DRIVER

HANDLING <i>189.24</i>	@ <i>2.10</i>	<i>397.40</i>
MILEAGE <i>257 mi</i>	@ <i>2.64</i>	<i>678.48</i>
TOTAL		<i>4567</i>

REMARKS:
Run Log, Circulate, Mix cement
Displace cement
Cement did Circulate

Thank You
Alan, Wayne, Chris

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

SERVICE

DEPTH OF JOB <i>257'</i>		
PUMP TRUCK CHARGE <i>1125.00</i>		
EXTRA FOOTAGE @		
MILEAGE <i>45</i>	@ <i>7.00</i>	<i>315.00</i>
MANIFOLD <i>45</i>	@ <i>4.00</i>	<i>180.00</i>

TOTAL *1820.00*

PLUG & FLOAT EQUIPMENT

@		
@		
@		
@		

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES *6,387.78*

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME *LEWYNE TRESNER*

SIGNATURE *Lewyne Tresner*

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.



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 131894
Invoice Date: Jul 13, 2012
Page: 1

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



INT

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 #1-22	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jul 13, 2012	8/12/12

Quantity	Item	Description	Unit Price	Amount
123.00	MAT	Class A Common	16.25	1,998.75
82.00	MAT	Pozmix	8.50	697.00
7.00	MAT	Gel	21.25	148.75
51.00	MAT	Flo Seal	2.70	137.70
220.17	SER	Cubic Feet	2.10	462.36
413.68	SER	Ton Mileage	2.35	972.16
1.00	SER	Plug to Abandon	1,250.00	1,250.00
45.00	SER	Pump Truck Mileage	7.00	315.00
45.00	SER	Light Vehicle Mileage	4.00	180.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Chris Helpingstine		



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

\$ 1232.34

ONLY IF PAID ON OR BEFORE
Aug 7, 2012

Subtotal	6,161.72
Sales Tax	480.61
Total Invoice Amount	6,642.33
Payment/Credit Applied	
TOTAL	6,642.33

DW

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

Sam Brownback, Governor

August 01, 2012

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

Re: ACO1
API 15-109-21088-00-00
Zanobia 1-22
SW/4 Sec.22-15S-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