



KANSAS CORPORATION COMMISSION 1090288
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

Confidentiality Requested:
 Yes No

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: _____

1090288

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Habiger 1-28
Doc ID	1090288

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Habiger 1-28
Doc ID	1090288

Tops

Name	Top	Datum
Base Anhydrite	2318	+629
Heebner	3908	-961
Lansing	3945	-998
Muncie Creek	4112	-1165
Stark Shale	4206	-1259
Hushpuckney	4248	-1304
BKC	4293	-1346
Pawnee	4411	-1464
L. Cherokee Shale	4487	-1540
Johnson	4526	-1579
Morrow Shale	4558	-1611
Mississippian	4567	-1620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

ATTN: Pat Deenihan

Job Ticket: 48386

DST#: 1

Test Start: 2012.06.22 @ 21:09:00

GENERAL INFORMATION:

Formation: **Lansing "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:29:45

Time Test Ended: 04:08:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: 3964.00 ft (KB) To 3988.00 ft (KB) (TVD)

Reference Elevations: 2947.00 ft (KB)

Total Depth: 3988.00 ft (KB) (TVD)

2942.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 6668 Outside

Press @ RunDepth: 77.51 psig @ 3965.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.22

End Date:

2012.06.23

Last Calib.:

2012.06.23

Start Time: 21:09:15

End Time:

04:08:00

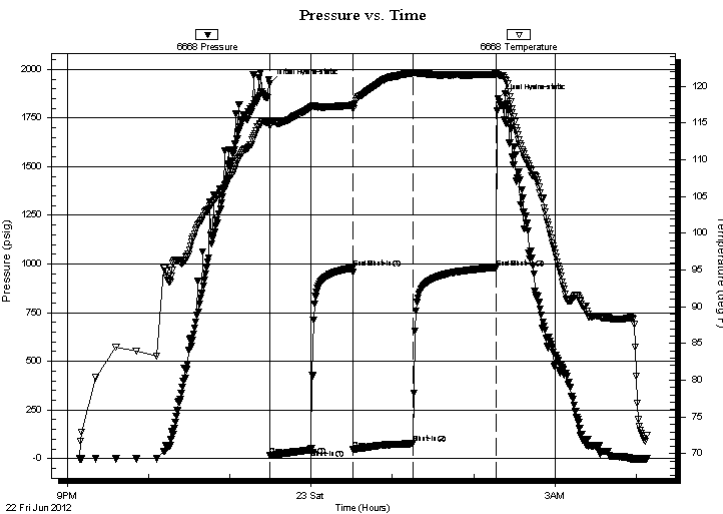
Time On Btm:

2012.06.22 @ 23:29:30

Time Off Btm:

2012.06.23 @ 02:18:15

TEST COMMENT: IF: Built to 1/2" blow
IS: No return blow
FF: Built to a weak surface blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1925.76	115.25	Initial Hydro-static
1	15.30	114.56	Open To Flow (1)
31	45.10	117.17	Shut-In(1)
62	979.47	117.41	End Shut-In(1)
62	48.15	116.94	Open To Flow (2)
106	77.51	121.82	Shut-In(2)
168	982.00	121.64	End Shut-In(2)
169	1851.27	121.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
144.00	mud with a trace of oil	0.89

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

Job Ticket: 48386

DST#: 1

ATTN: Pat Deenihan

Test Start: 2012.06.22 @ 21:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
144.00	mud with a trace of oil	0.890

Total Length: 144.00 ft Total Volume: 0.890 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

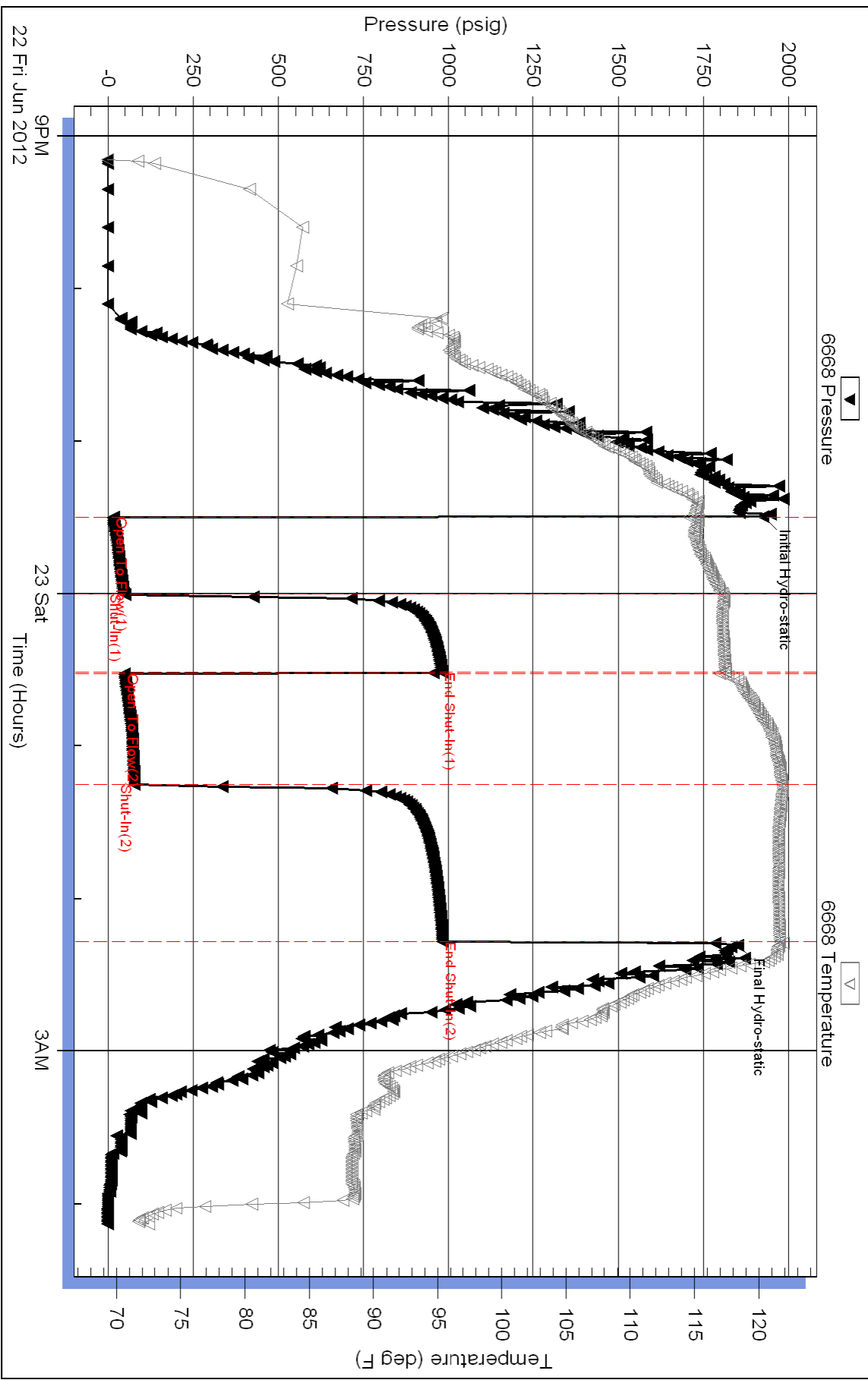
Serial #: 6668

Outside Shakespeare Oil Co., Inc.

Habiger #1

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48386

Printed: 2012.06.23 @ 08:24:07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

ATTN: Pat Deenihan

Job Ticket: 48387

DST#: 2

Test Start: 2012.06.23 @ 15:06:15

GENERAL INFORMATION:

Formation: **Lansing "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:53:45

Time Test Ended: 21:10:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4018.00 ft (KB) To 4037.00 ft (KB) (TVD)

Total Depth: 4037.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2947.00 ft (KB)

2942.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8736

Inside

Press @ Run Depth: 677.09 psig @ 4019.00 ft (KB)

Start Date: 2012.06.23

End Date:

2012.06.23

Start Time: 15:06:15

End Time:

21:10:30

Capacity: 8000.00 psig

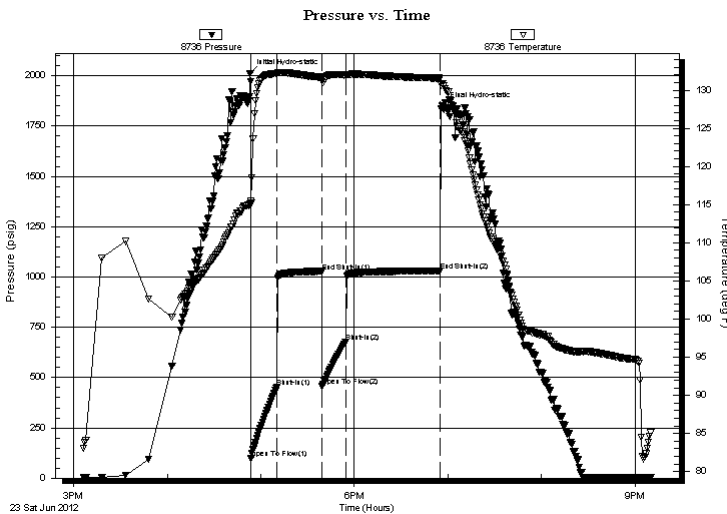
Last Calib.: 2012.06.23

Time On Btm: 2012.06.23 @ 16:53:00

Time Off Btm: 2012.06.23 @ 18:56:30

TEST COMMENT: IF:BOB in 2 min.
IS:No return blow
FF:BOB in 2 min.
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2012.58	115.11	Initial Hydro-static
1	98.82	115.15	Open To Flow (1)
18	449.75	132.13	Shut-In(1)
46	1027.78	131.66	End Shut-In(1)
47	455.28	131.37	Open To Flow (2)
62	677.09	131.96	Shut-In(2)
122	1029.65	131.55	End Shut-In(2)
124	1849.26	130.89	Final Hydro-static

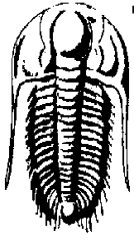
Recovery

Length (ft)	Description	Volume (bbl)
124.00	sw	0.61
1302.00	sw with a trace of oil	18.26

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

ATTN: Pat Deenihan

Job Ticket: 48387

DST#: 2

Test Start: 2012.06.23 @ 15:06:15

GENERAL INFORMATION:

Formation: **Lansing "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:53:45

Time Test Ended: 21:10:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4018.00 ft (KB) To 4037.00 ft (KB) (TVD)

Reference Elevations: 2947.00 ft (KB)

Total Depth: 4037.00 ft (KB) (TVD)

2942.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 6668 Outside

Press @ Run Depth: psig @ 4019.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.23

End Date: 2012.06.23

Last Calib.: 2012.06.23

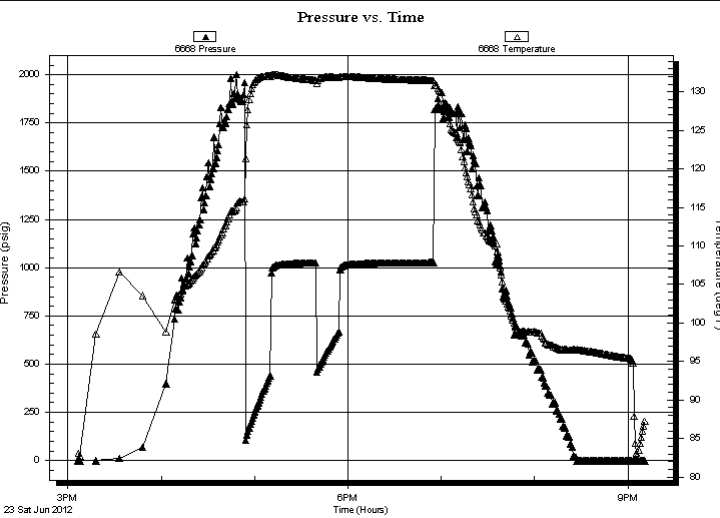
Start Time: 15:06:15

End Time: 21:10:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 2 min.
IS:No return blow
FF:BOB in 2 min.
FS:No return blow



PRESSURE SUMMARY

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
124.00	sw	0.61
1302.00	sw with a trace of oil	18.26

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

Job Ticket: 48387

DST#: 2

ATTN: Pat Deenihan

Test Start: 2012.06.23 @ 15:06:15

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:

24000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	sw	0.610
1302.00	sw with a trace of oil	18.264

Total Length: 1426.00 ft Total Volume: 18.874 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .186@ 102.4*= 24,000 ppm

Serial #: 8736

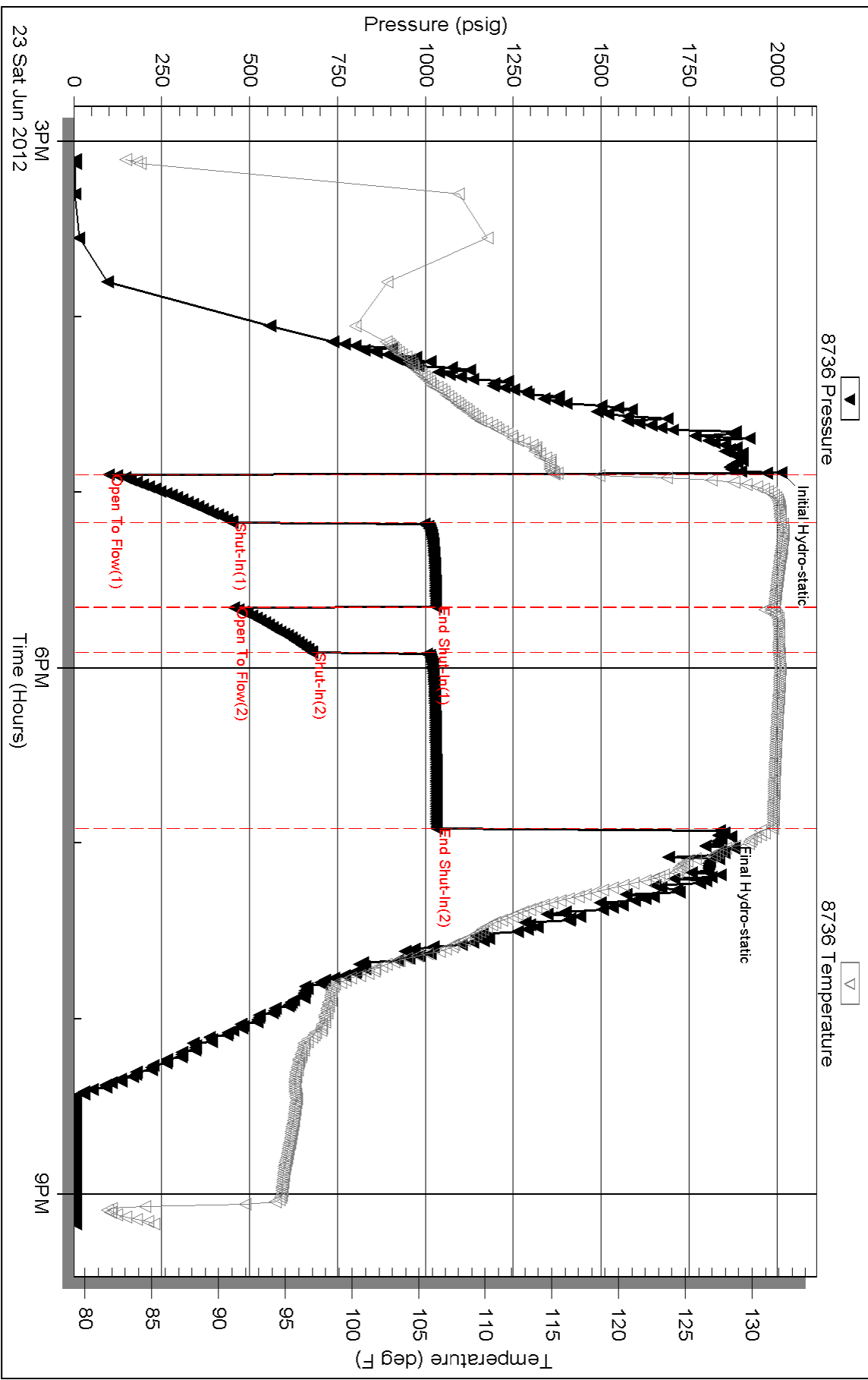
Inside

Shakespeare Oil Co., Inc.

Habiger #1

DST Test Number: 2

Pressure vs. Time

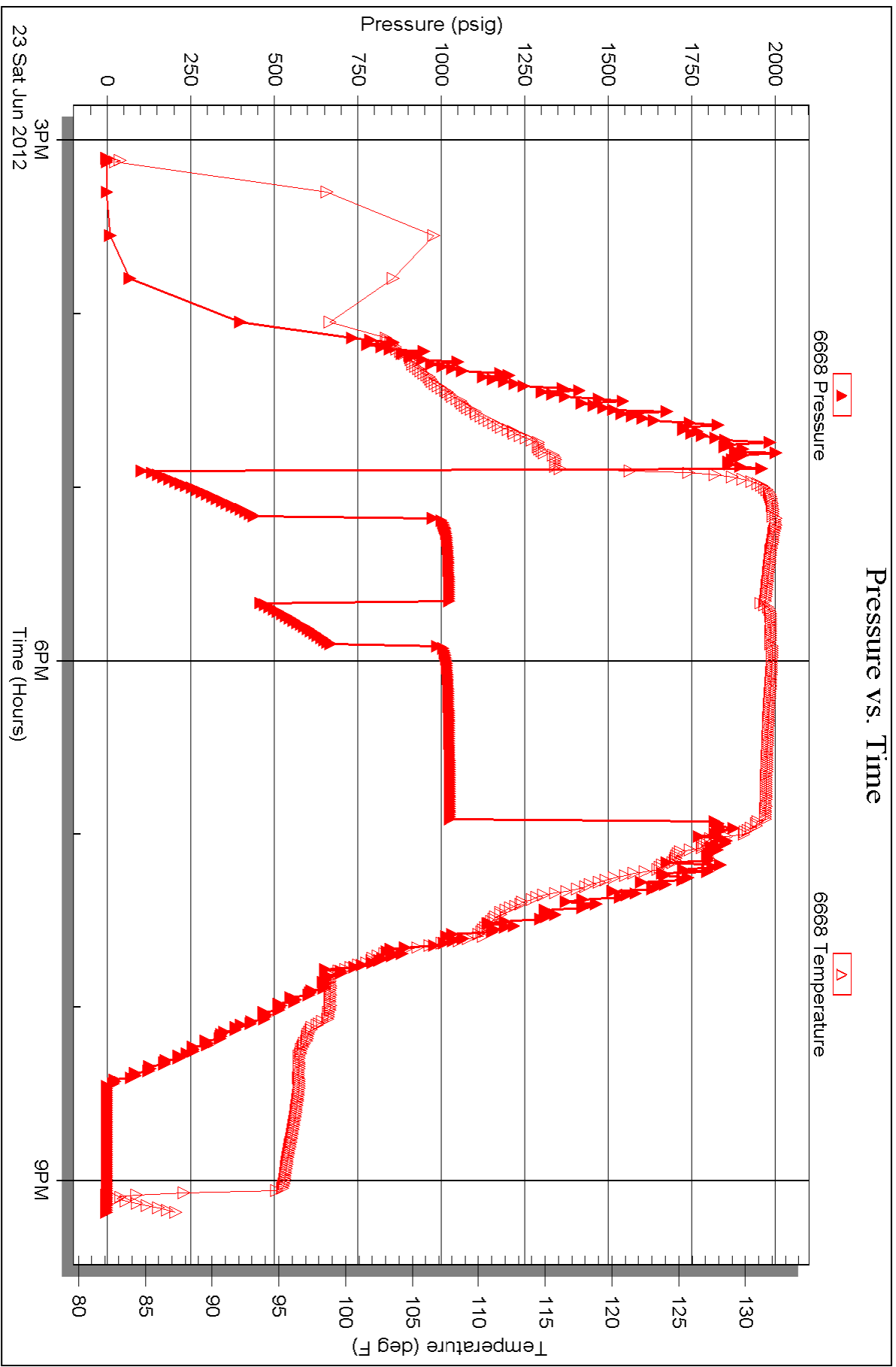


Serial #: 6668

Outside Shakespeare Oil Co., Inc.

Habiger #1

DST Test Number: 2





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

ATTN: Pat Deenihan

Job Ticket: 48388

DST#: 3

Test Start: 2012.06.23 @ 12:45:00

GENERAL INFORMATION:

Formation: **Lansing I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:28:30

Time Test Ended: 18:16:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4148.00 ft (KB) To 4180.00 ft (KB) (TVD)

Total Depth: 4180.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2947.00 ft (KB)

2942.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8736

Inside

Press @ Run Depth: 68.31 psig @ 4149.00 ft (KB)

Start Date: 2012.06.23

End Date: 2012.06.23

Start Time: 12:45:15

End Time: 18:16:45

Capacity: 8000.00 psig

Last Calib.: 2012.06.24

Time On Btm: 2012.06.23 @ 14:28:15

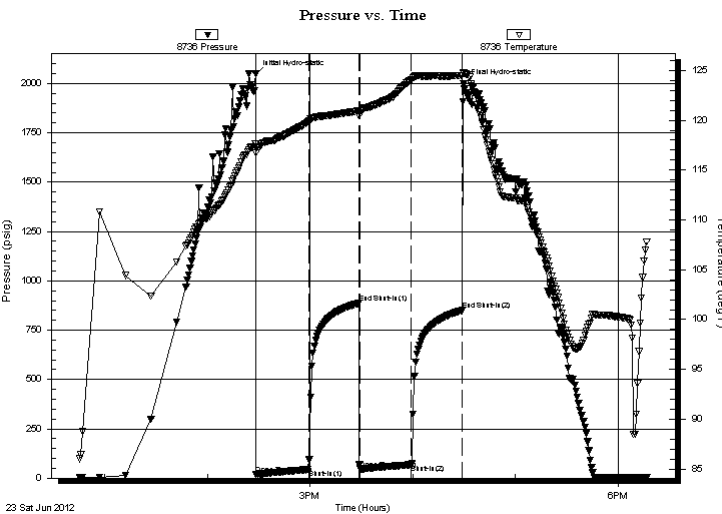
Time Off Btm: 2012.06.23 @ 16:29:45

TEST COMMENT: IF: Built to weak surface blow

IS: No return blow

FF: No blow

FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2046.95	117.66	Initial Hydro-static
1	19.08	116.73	Open To Flow (1)
31	43.80	119.88	Shut-In(1)
61	886.09	120.94	End Shut-In(1)
61	46.81	120.77	Open To Flow (2)
91	68.31	124.07	Shut-In(2)
121	850.84	124.51	End Shut-In(2)
122	1997.82	124.77	Final Hydro-static

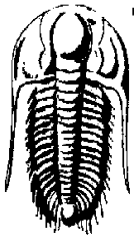
Recovery

Length (ft)	Description	Volume (bbl)
70.00	mud with oil spots	0.34

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

Job Ticket: 48388

DST#: 3

ATTN: Pat Deenihan

Test Start: 2012.06.23 @ 12:45:00

GENERAL INFORMATION:

Formation: **Lansing I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:28:30

Time Test Ended: 18:16:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: **4148.00 ft (KB) To 4180.00 ft (KB) (TVD)**

Reference Elevations: 2947.00 ft (KB)

Total Depth: 4180.00 ft (KB) (TVD)

2942.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 6668 Outside

Press @ RunDepth: psig @ 4149.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.23 End Date: 2012.06.23

Last Calib.: 2012.06.24

Start Time: 12:45:15 End Time: 18:17:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to weak surface blow

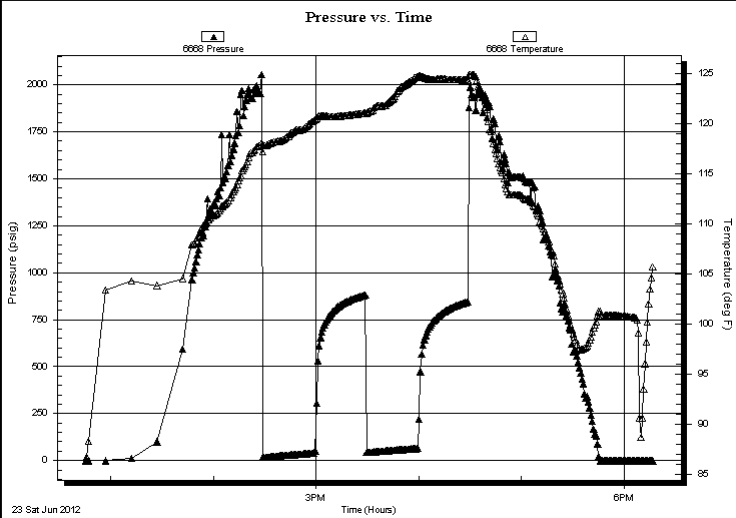
IS: No return blow

FF: No blow

FS: No return blow

PRESSURE SUMMARY

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



Recovery

Length (ft)	Description	Volume (bbl)
70.00	mud with oil spots	0.34

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

Job Ticket: 48388

DST#: 3

ATTN: Pat Deenihan

Test Start: 2012.06.23 @ 12:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	mud w ith oil spots	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8736

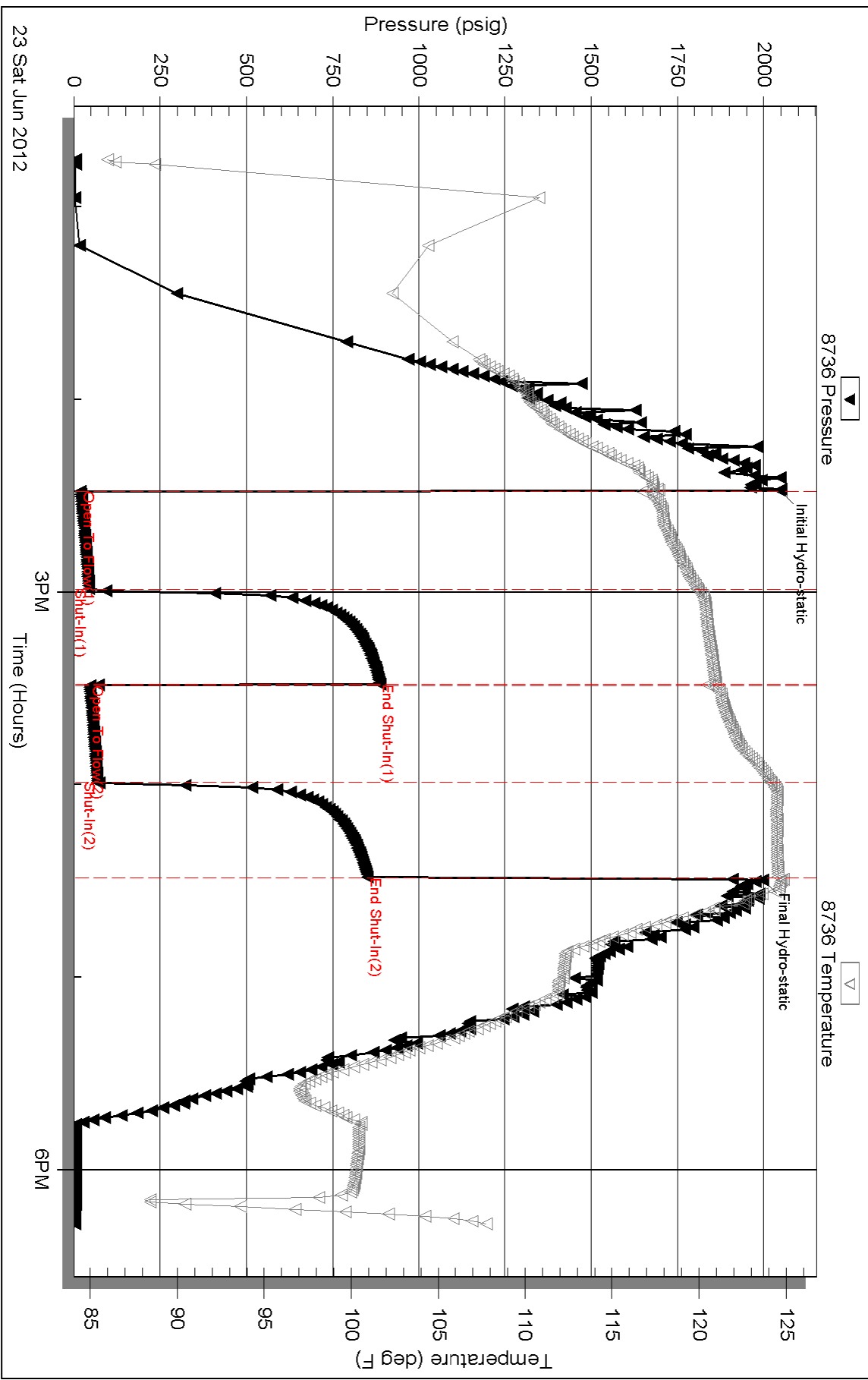
Inside

Shakespeare Oil Co., Inc.

Habiger #1

DST Test Number: 3

Pressure vs. Time



23 Sat Jun 2012

Triobite Testing, Inc

Ref. No: 48388

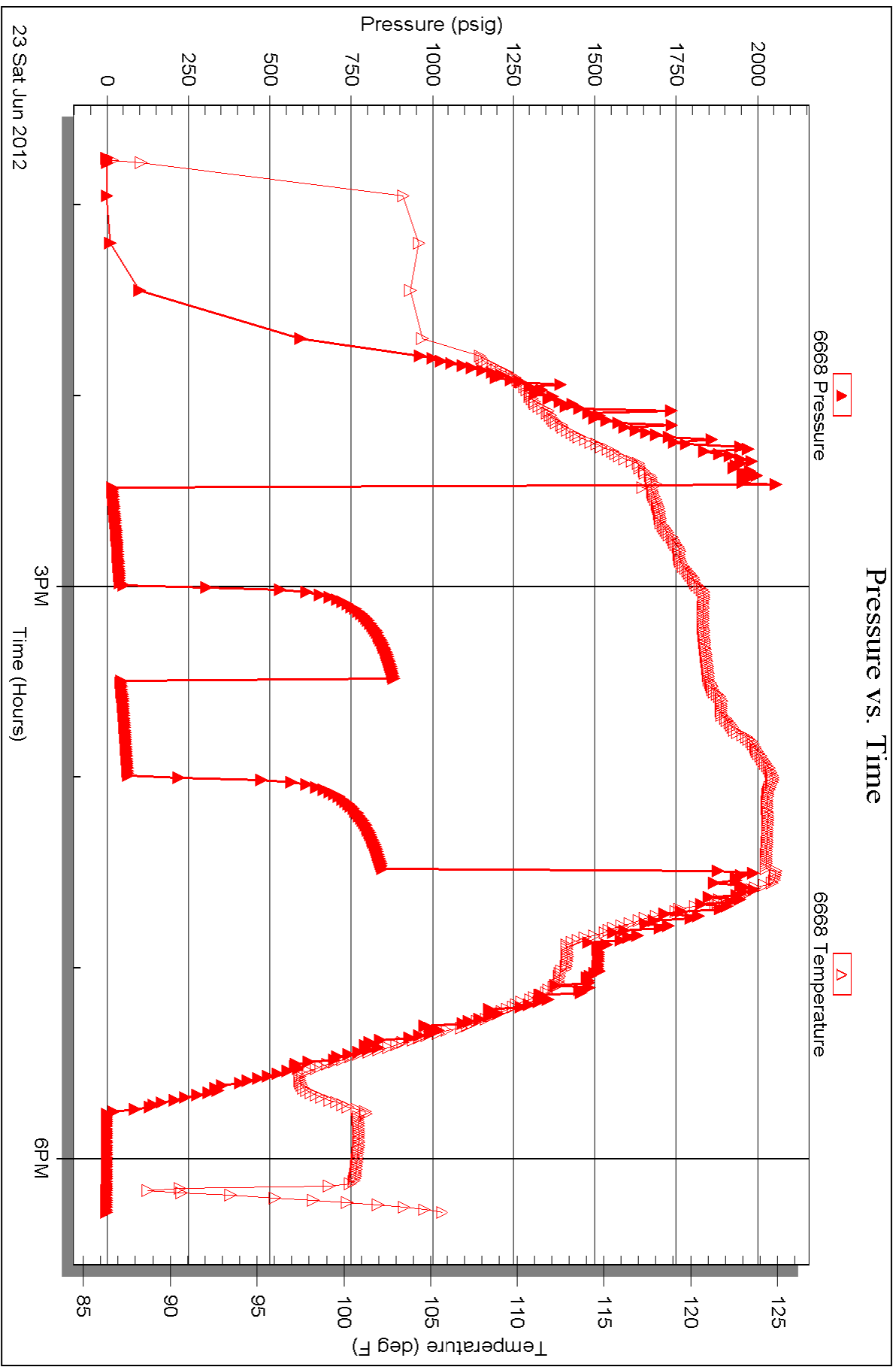
Printed: 2012.06.24 @ 23:35:21

Serial #: 6668

Outside Shakespeare Oil Co., Inc.

Habiger #1

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

ATTN: Pat Deenihan

Job Ticket: 48389

DST#: 4

Test Start: 2012.06.24 @ 01:45:15

GENERAL INFORMATION:

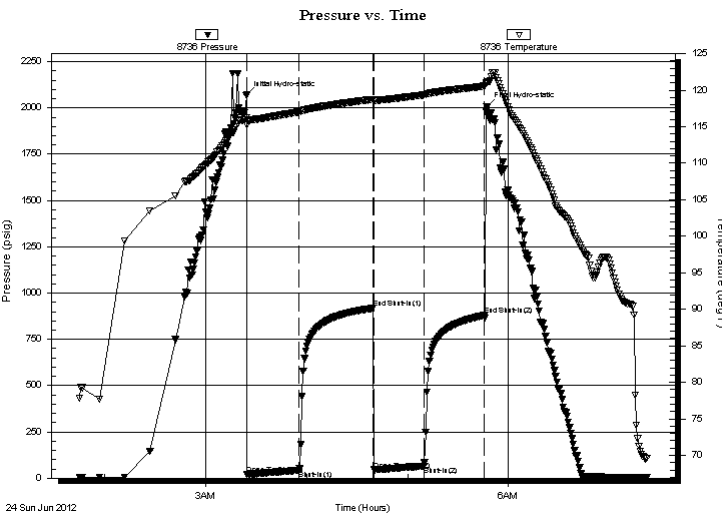
Formation: **"J"**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **03:24:45** Tester: **Mike Roberts**
 Time Test Ended: **07:22:30** Unit No: **48**
Interval: 4170.00 ft (KB) To 4210.00 ft (KB) (TVD) Reference Elevations: **2947.00 ft (KB)**
 Total Depth: **4210.00 ft (KB) (TVD)** **2942.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor** KB to GR/CF: **5.00 ft**

Serial #: 8736

Inside

Press @ Run Depth: **65.15 psig @ 4172.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.06.24** End Date: **2012.06.24** Last Calib.: **2012.06.25**
 Start Time: **01:45:15** End Time: **07:22:30** Time On Btm: **2012.06.24 @ 03:24:30**
 Time Off Btm: **2012.06.24 @ 05:47:00**

TEST COMMENT: IF: Built to 1" blow
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2069.33	116.25	Initial Hydro-static
1	20.70	115.31	Open To Flow (1)
31	42.63	117.02	Shut-In(1)
75	917.57	118.75	End Shut-In(1)
76	45.12	118.50	Open To Flow (2)
106	65.15	119.34	Shut-In(2)
142	879.46	120.53	End Shut-In(2)
143	2005.33	121.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	ocmw 2%o 40%m 58%w	0.39

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

Job Ticket: 48389

DST#: 4

ATTN: Pat Deenihan

Test Start: 2012.06.24 @ 01:45:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
80.00	ocmw 2%o 40%m 58%w	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .286@92.3=25,000 ppm

Serial #: 8736

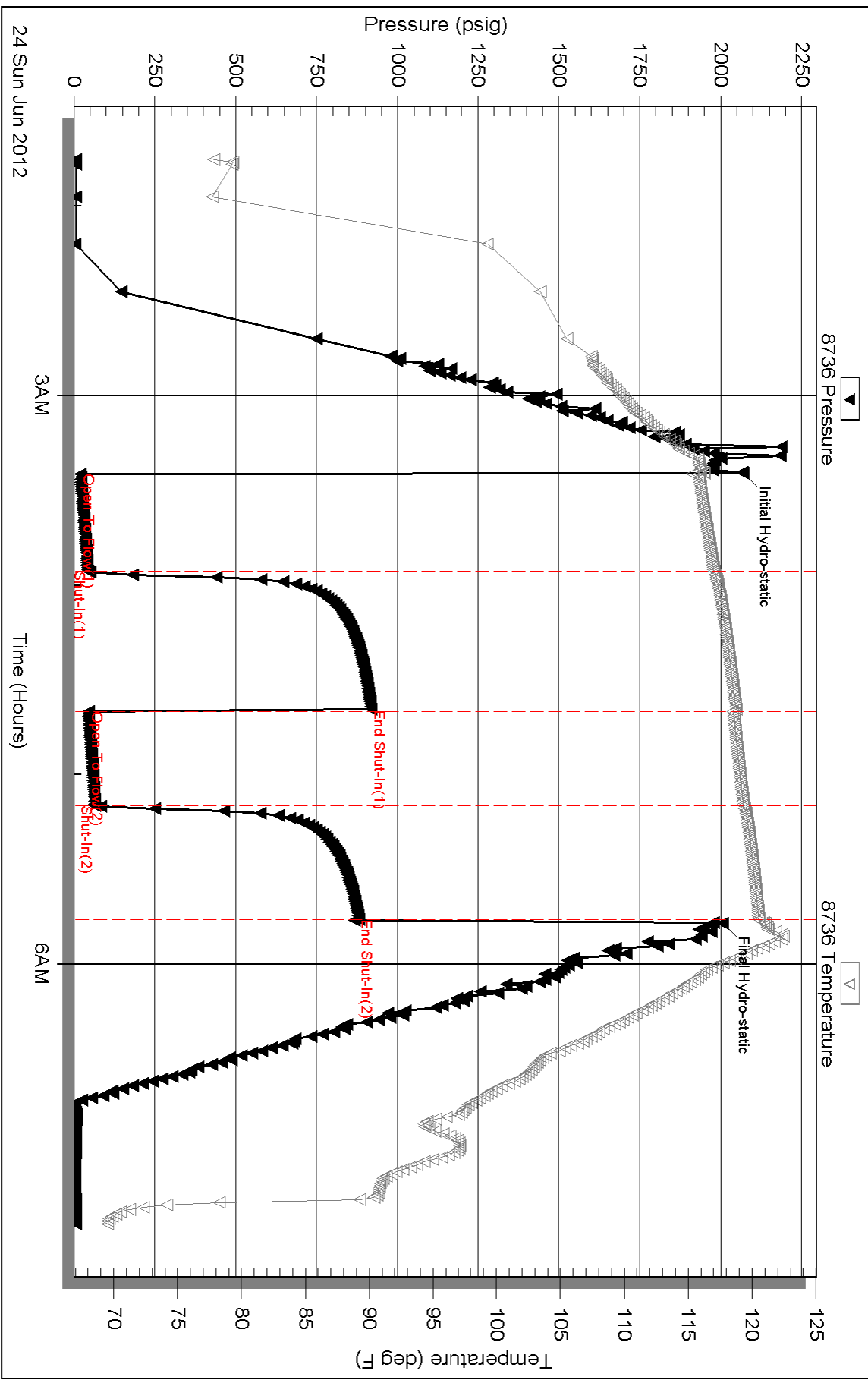
Inside

Shakespeare Oil Co., Inc.

Habiger #1

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48389

Printed: 2012.06.25 @ 08:31:37



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

ATTN: Pat Deenihan

Job Ticket: 48390

DST#: 5

Test Start: 2012.06.25 @ 15:21:15

GENERAL INFORMATION:

Formation: "K"
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:22:30
 Tester: Mike Roberts
 Time Test Ended: 21:50:15
 Unit No: 48
 Interval: **4200.00 ft (KB) To 4250.00 ft (KB) (TVD)**
 Reference Elevations: 2947.00 ft (KB)
 Total Depth: 4250.00 ft (KB) (TVD)
 2942.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 KB to GR/CF: 5.00 ft

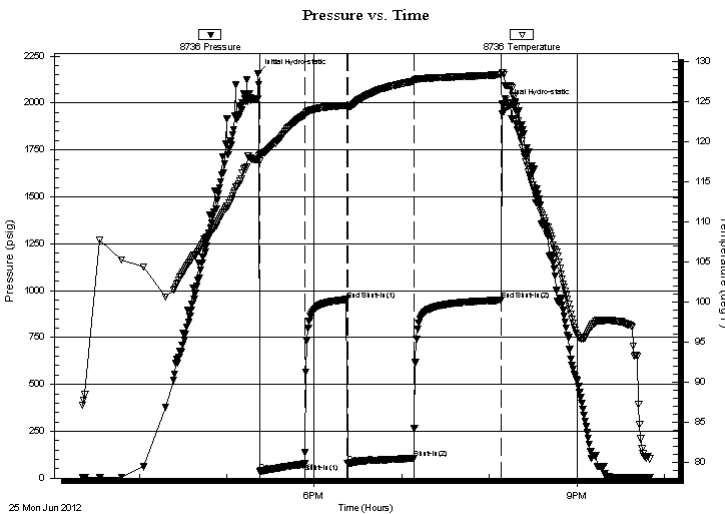
Serial #: 8736

Inside

Press @ Run Depth: 106.44 psig @ 4202.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.25 End Date: 2012.06.25 Last Calib.: 2012.06.25
 Start Time: 15:21:15 End Time: 21:50:15 Time On Btm: 2012.06.25 @ 17:21:30
 Time Off Btm: 2012.06.25 @ 20:08:45

TEST COMMENT: IF: Built to 1 1/2" blow
 IS: No return blow
 FF: Built to 1" blow
 FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2158.58	117.84	Initial Hydro-static
1	36.35	117.58	Open To Flow (1)
32	76.68	123.36	Shut-In(1)
61	952.47	124.56	End Shut-In(1)
62	79.47	124.31	Open To Flow (2)
107	106.44	127.57	Shut-In(2)
167	949.09	128.37	End Shut-In(2)
168	1996.06	128.65	Final Hydro-static

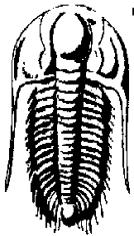
Recovery

Length (ft)	Description	Volume (bbl)
154.00	mud w ith oil spots	1.03

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

Job Ticket: 48390

DST#: 5

ATTN: Pat Deenihan

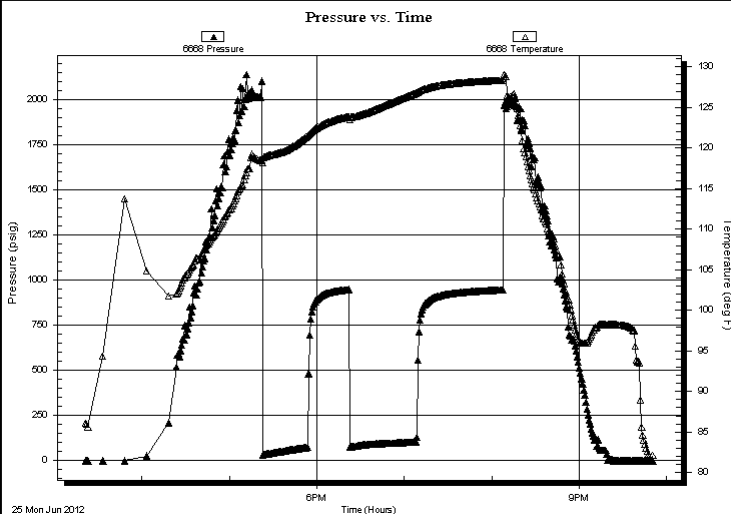
Test Start: 2012.06.25 @ 15:21:15

GENERAL INFORMATION:

Formation: "K"
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:22:30 Tester: Mike Roberts
 Time Test Ended: 21:50:15 Unit No: 48
 Interval: 4200.00 ft (KB) To 4250.00 ft (KB) (TVD) Reference Elevations: 2947.00 ft (KB)
 Total Depth: 4250.00 ft (KB) (TVD) 2942.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 5.00 ft

Serial #: 6668 Outside
 Press @ Run Depth: psig @ 4202.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.25 End Date: 2012.06.25 Last Calib.: 2012.06.25
 Start Time: 15:21:15 End Time: 21:50:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Built to 1 1/2" blow
 IS: No return blow
 FF: Built to 1" blow
 FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
154.00	mud w ith oil spots	1.03

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

Job Ticket: 48390

DST#: 5

ATTN: Pat Deenihan

Test Start: 2012.06.25 @ 15:21:15

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
154.00	mud w ith oil spots	1.031

Total Length: 154.00 ft

Total Volume: 1.031 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8736

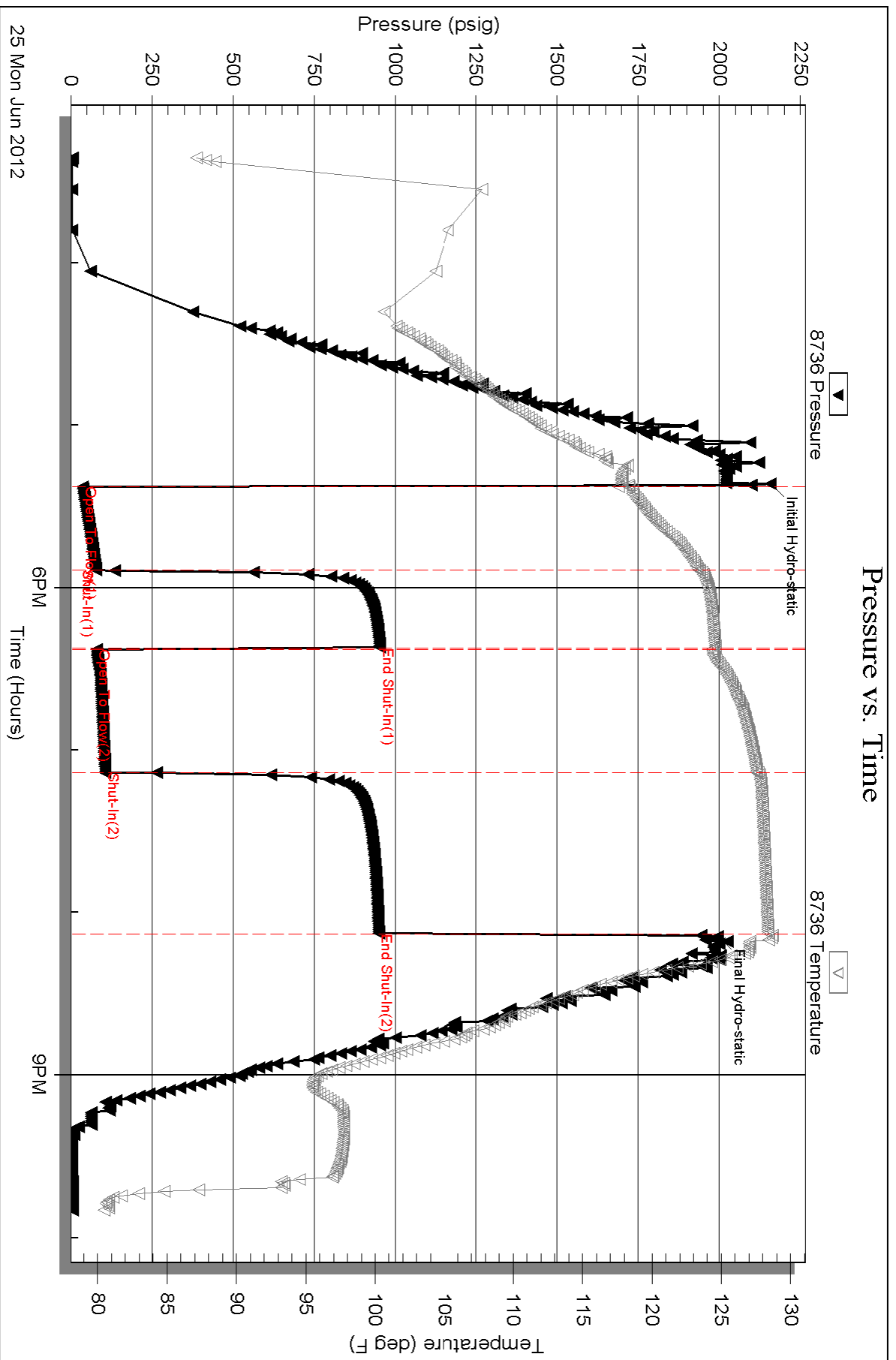
Inside

Shakespeare Oil Co., Inc.

Habiger #1

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48390

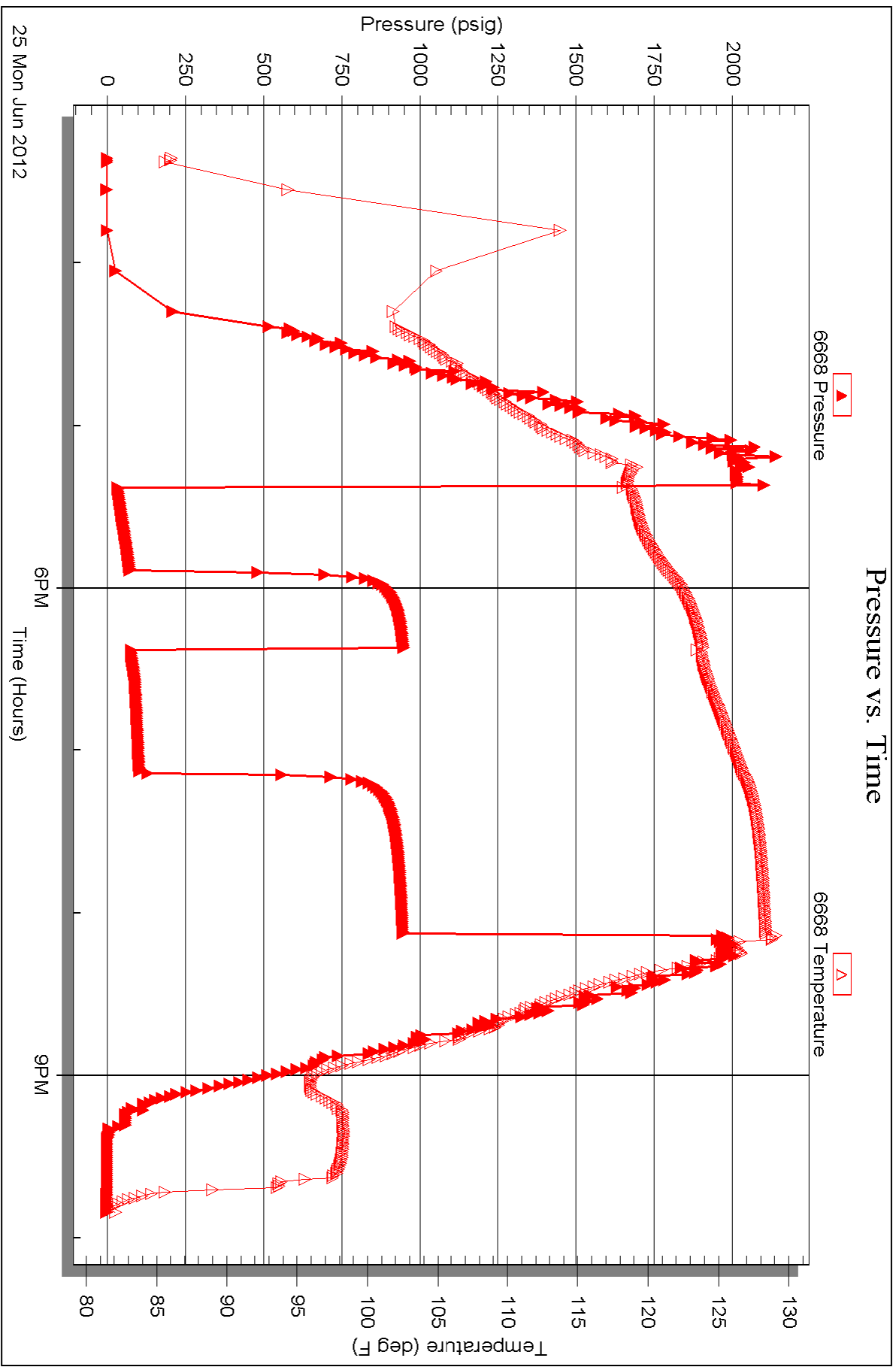
Printed: 2012.06.25 @ 23:28:14

Serial #: 6668

Outside Shakespeare Oil Co., Inc.

Habiger #1

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 48390

Printed: 2012.06.25 @ 23:28:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

ATTN: Pat Deenihan

Job Ticket: 48391

DST#: 6

Test Start: 2012.06.26 @ 06:40:15

GENERAL INFORMATION:

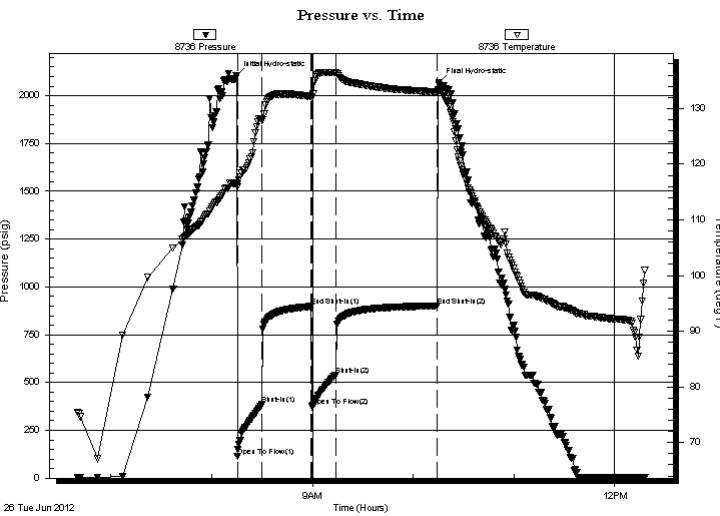
Formation: "L"
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:15:15
 Time Test Ended: 12:18:15
 Interval: **4241.00 ft (KB) To 4296.00 ft (KB) (TVD)**
 Total Depth: 4296.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 48
 Reference Elevations: 2947.00 ft (KB)
 2942.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8736

Inside

Press @ Run Depth: 539.32 psig @ 4243.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.26 End Date: 2012.06.26 Last Calib.: 2012.06.26
 Start Time: 06:40:15 End Time: 12:18:15 Time On Btm: 2012.06.26 @ 08:15:00
 Time Off Btm: 2012.06.26 @ 10:15:15

TEST COMMENT: IF:BOB in 2 min
 IS:No return blow
 FF:BOB in 2 min.
 FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.54	116.71	Initial Hydro-static
1	114.30	115.90	Open To Flow (1)
15	384.85	127.93	Shut-In(1)
45	898.00	132.14	End Shut-In(1)
45	374.07	131.86	Open To Flow (2)
59	539.32	136.44	Shut-In(2)
120	900.71	132.98	End Shut-In(2)
121	2067.15	133.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1054.00	ocmw 5%o 30%m 65%w	13.66

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

Job Ticket: 48391

DST#: 6

ATTN: Pat Deenihan

Test Start: 2012.06.26 @ 06:40:15

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:

23000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1054.00	ocmw 5%o 30%m 65%w	13.655

Total Length: 1054.00 ft Total Volume: 13.655 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .267@105.2=23,000 ppm

Serial #: 8736

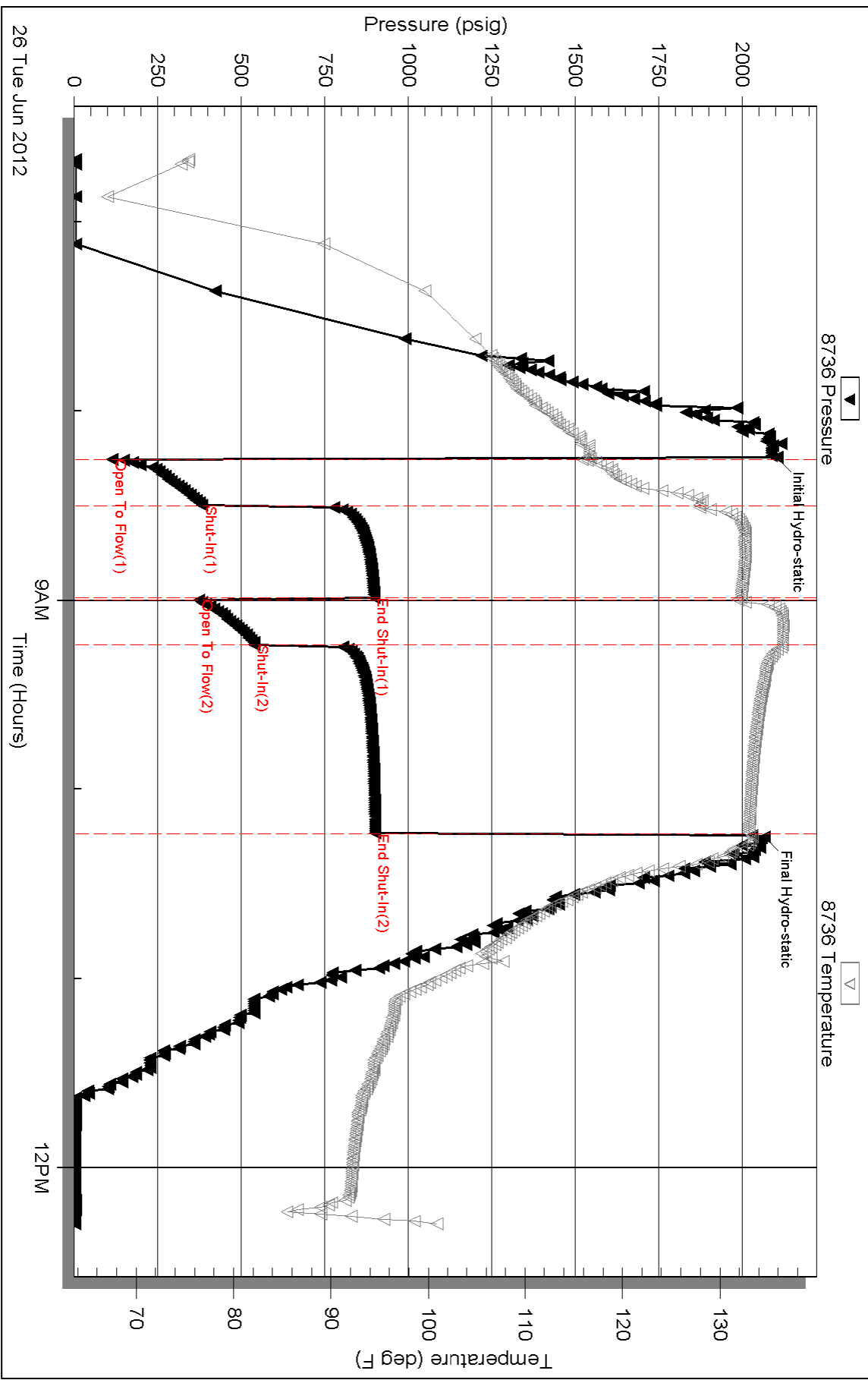
Inside

Shakespeare Oil Co., Inc.

Habiger #1

DST Test Number: 6

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

ATTN: Pat Deenihan

Job Ticket: 48392

DST#: 7

Test Start: 2012.06.27 @ 10:10:15

GENERAL INFORMATION:

Formation: **Pawnee-Myrick St.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:57:30

Time Test Ended: 15:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4410.00 ft (KB) To 4458.00 ft (KB) (TVD)

Reference Elevations: 2947.00 ft (KB)

Total Depth: 4458.00 ft (KB) (TVD)

2942.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8736

Inside

Press @ Run Depth: 60.15 psig @ 4412.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.27 End Date: 2012.06.27

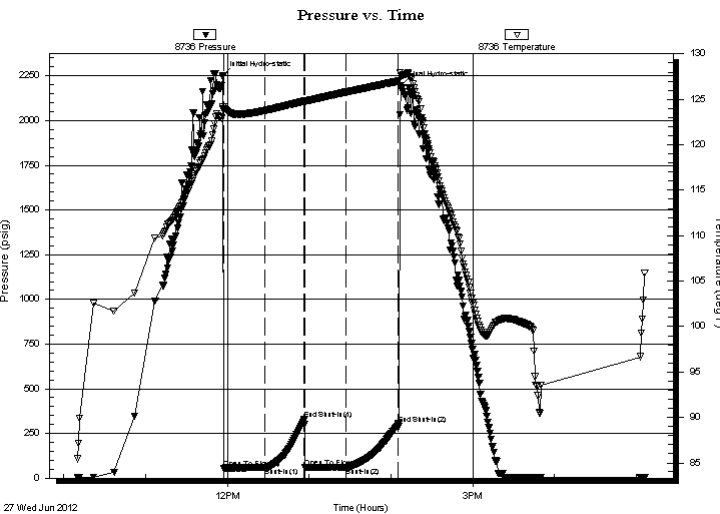
Last Calib.: 2012.06.27

Start Time: 10:10:15 End Time: 17:06:00

Time On Btm: 2012.06.27 @ 11:57:00

Time Off Btm: 2012.06.27 @ 14:07:30

TEST COMMENT: IF: Built to 1/8" blow
IS: No return blow
FF: No blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2252.61	124.15	Initial Hydro-static
1	55.58	123.98	Open To Flow (1)
31	58.80	123.78	Shut-In(1)
60	327.44	124.83	End Shut-In(1)
60	58.79	124.74	Open To Flow (2)
90	60.15	125.78	Shut-In(2)
129	304.10	127.00	End Shut-In(2)
131	2197.41	127.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

28-17s-31w

202 W Main St.
Salem IL 62881

Habiger #1

Job Ticket: 48392

DST#: 7

ATTN: Pat Deenihan

Test Start: 2012.06.27 @ 10:10:15

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: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 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 #: 8736

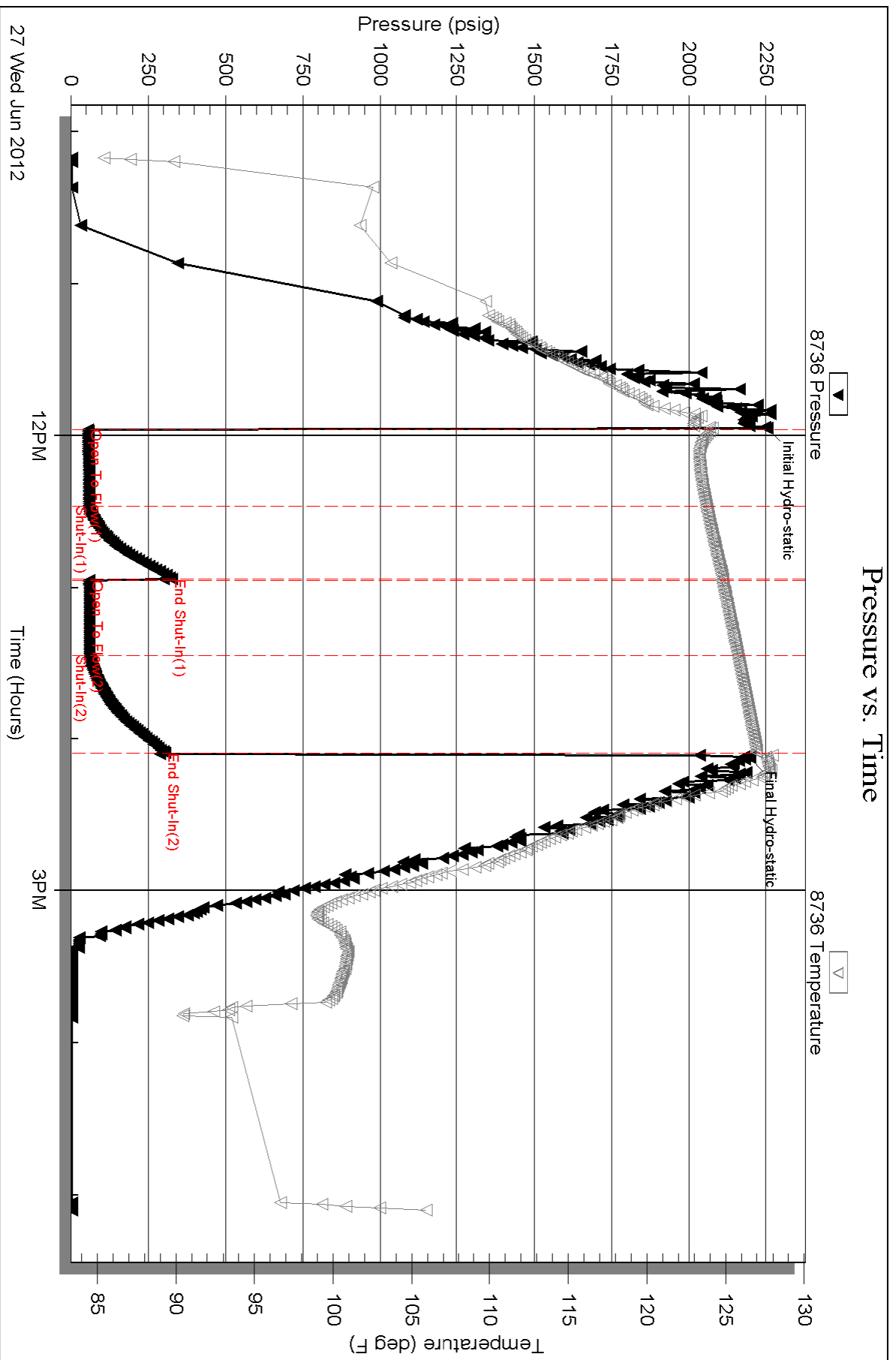
Inside

Shakespeare Oil Co., Inc.

Habiger #1

DST Test Number: 7

Pressure vs. Time



27 Wed Jun 2012

Triobite Testing, Inc

Ref. No: 48392

Printed: 2012.06.27 @ 16:29:52



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 131580

Invoice Date: Jun 18, 2012

Page: 1



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	Habiger # 1-28	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Jun 18, 2012	7/18/12

Quantity	Item	Description	Unit Price	Amount
160.00	MAT	Class A Common	16.25	2,600.00
3.00	MAT	Gel	21.25	63.75
5.00	MAT	Chloride	58.20	291.00
172.00	SER	Handling	2.10	361.20
50.00	SER	Ton Miles	18.49	924.72
1.00	SER	Surface	1,125.00	1,125.00
50.00	SER	Heavy Vehicle Mileage	7.00	350.00
50.00	SER	Light Vehicle Mileage	4.00	200.00
1.00	EQUIP OPER	Dustin Chambers		
1.00	EQUIP OPER	Kerry Rose		
1.00	OPER ASSIST	Kevin Weighous		



*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

\$ *1478.91*

ONLY IF PAID ON OR BEFORE

Jul 13, 2012

Subtotal	5,915.67
Sales Tax	215.70
Total Invoice Amount	6,131.37
Payment/Credit Applied	
TOTAL	6,131.37

DW

ALLIED OIL & GAS SERVICE, LLC 053630

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Great Bend, KS

DATE <u>6-18-12</u>	SEC. <u>28</u>	TWP. <u>17</u>	RANGE <u>31W</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00</u>	JOB FINISH <u>9:00</u>
LEASE <u>Hobiger</u>		WELL # <u>1-28</u>		LOCATION <u>SCOTT CITY GE UN</u>		COUNTY <u>SCOTT</u>	STATE <u>Kan 67665</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				E. INFO			

CONTRACTOR Ww Drilling #8

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 1/4 DEPTH 260.63

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15 ft

PERFS.

DISPLACEMENT 15.64 BBLs Freshwater

EQUIPMENT

PUMP TRUCK CEMENTER Russell C

394 HELPER Kerry R

BULK TRUCK

344 DRIVER Kevin W

BULK TRUCK

DRIVER

OWNER

CEMENT

AMOUNT ORDERED 160 sks Class A 39.00

24.901

COMMON <u>160</u>	@ <u>16.25</u>	<u>2600.00</u>
POZMIX	@	
GEL <u>3</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE <u>5</u>	@ <u>58.20</u>	<u>291.00</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>172</u>	@ <u>2.10</u>	<u>361.20</u>
MILEAGE <u>7.87 x 50</u>	@ <u>2.35</u>	<u>184.23</u>
TOTAL		<u>4240.67</u>

REMARKS:

See Cement Log

Plug Down ~~485~~ 7:45

SERVICE

DEPTH OF JOB	<u>260</u>	
PUMP TRUCK CHARGE	<u>1125.00</u>	
EXTRA FOOTAGE	@	
MILEAGE <u>HUM 50</u>	@ <u>7.00</u>	<u>350.00</u>
MANIFOLD	@	
<u>Hum 50</u>	@ <u>4.00</u>	<u>200.00</u>
	@	
TOTAL		<u>1675.00</u>

CHARGE TO: Shakespeare Oil Co.

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.

SALES TAX (If Any) _____

TOTAL CHARGES 5,915.67

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME R. Jason Jackson

SIGNATURE [Signature]

Thank You !!



PO Box 93999
Southlake, TX 76092

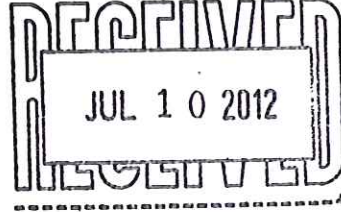
Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 131717
Invoice Date: Jun 29, 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	Habiger #1-28	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Great Bend	Jun 29, 2012	7/29/12

Quantity	Item	Description	Unit Price	Amount
168.00	MAT	Class A Common	16.25	2,730.00
112.00	MAT	Pozmix	8.50	952.00
10.00	MAT	Gel	21.25	212.50
70.00	MAT	Flo Seal	2.70	189.00
301.32	SER	Cubic Feet	2.10	632.77
628.50	SER	Ton Mileage	2.35	1,476.97
1.00	SER	Rotary Plug	1,250.00	1,250.00
50.00	SER	Pump Truck Mileage	7.00	350.00
50.00	SER	Light Vehicle Mileage	4.00	200.00
1.00	CEMENTER	Wayne Davis		
1.00	OPER ASSIST	Marlyn Spangenberg		
1.00	EQUIP OPER	Kerry Rose		

PTA

10502-017

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

\$ 1998.31

ONLY IF PAID ON OR BEFORE
Jul 24, 2012

Subtotal	7,993.24
Sales Tax	583.51
Total Invoice Amount	8,576.75
Payment/Credit Applied	
TOTAL	8,576.75

DW

ALLIED OIL & GAS SERVICES, LLC 053703

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Great Bend

DATE <u>6-29-12</u>	SEC. <u>28</u>	TWP. <u>17</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>5:30 PM</u>	JOB FINISH <u>6:30 PM</u>
LEASE <u>Habitac</u>		WELL# <u>1-28</u>		LOCATION <u>Scott City 8 East</u>		COUNTY <u>Scott</u>	STATE <u>KS</u>
<input checked="" type="radio"/> OLD OR NEW (Circle one)				<u>4 North East into</u>			

CONTRACTOR _____ OWNER Shakespeare

TYPE OF JOB Rotary Plus

HOLE SIZE 7 7/8 T.D. _____

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 2310

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

CEMENT

AMOUNT ORDERED 280 SX 60/40 +
49661 + 1/4 #10 seal

EQUIPMENT

PUMP TRUCK CEMENTER way-up

224 HELPER man-in

BULK TRUCK

544/198 DRIVER Kevin R

BULK TRUCK

_____ DRIVER _____

COMMON	<u>168</u>	@ <u>16.25</u>	<u>2,730.00</u>
POZMIX	<u>112</u>	@ <u>8.50</u>	<u>952.00</u>
GEL	<u>18</u>	@ <u>21.25</u>	<u>212.50</u>
CHLORIDE		@	
ASC		@	
<u>#10 seal</u>	<u>70</u>	@ <u>2.70</u>	<u>189.00</u>
		@	
		@	
		@	
		@	
		@	
HANDLING <u>351.32</u>		@ <u>2.10</u>	<u>632.22</u>
MILEAGE <u>1257 X .50 X</u>		<u>2.35</u>	<u>1,476.22</u>
TOTAL			<u>6,193.24</u>

REMARKS:

1st plus 3310 mix 50 SX

2nd plus 1560 mix 80 SX

3rd plus 750 mix 50 SX

4th plus 300 mix 50 SX

5th plus 60 mix 200 SX

Rot mix 30 SX

SERVICE

DEPTH OF JOB 2310

PUMP TRUCK CHARGE 1250.00

EXTRA FOOTAGE @ _____

MILEAGE Hum 50 @ 7.00 350.00

MANIFOLD @ _____

Hum 50 @ 4.00 200.00

@ _____

CHARGE TO: Shake Speve

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 1800.00

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.

SALES TAX (If Any) _____

TOTAL CHARGES 7,993.24

PRINTED NAME JD Hufziger

SIGNATURE

DISCOUNT _____ IF PAID IN 30 DAYS

PATRICK J. DEENIHAN

Licensed Geologist No. 254

4602 Spyglass Circle

(316) 640-5611

Topeka, KS 67226

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

OPERATOR SHAKESPEARE OIL Co., Inc.
 LEASE HABIGER #1-28
 FIELD WILDCAT
 LOCATION 1980 FSL & 580' FEL
 SEC. 28 TWP. 17^S RGE. 31^W
 COUNTY SCOTT STATE KS

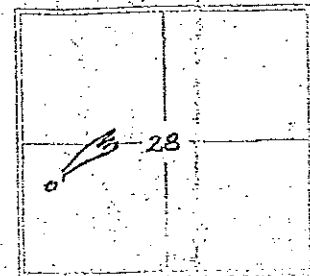
ELEVATION
 KB 2947'
 DF _____
 GL 2942'
 Measurements Are All
 From K.B.

CONTRACTOR WU DRILLING Rig # 8
 COMM. 6-18-12 COMP. 6-30-12
 RTD 4700' LOG TO 4706'
 SAMPLES SAVED FROM 3750 TO T.D.
 DRILLING TIME KEPT FROM 3700 TO T.D.
 SAMPLES EXAMINED FROM 3750 TO T.D.
 GEOLOGICAL SUPERVISION FROM 3800 TO T.D.
 LOG UP 3353' TYPE LOG CHEMICAL
 API # 15-171-20860-00-00

CASING RECORD
 SURFACE 8 5/8 @ 260
 PRODUCTION N/A

WELL LOG SURVEYS
 ARRAY INDUCTION,
 PHOTO-DENSITY,
 COND & MICRO
 WEATHERFORD

FORMATION	LOG		SAMPLE		STRUCT. COMP.
	TOP	DATE	TOP	DATE	
ANHYDRITE	2298	(+649)	2295	(+652)	
BASE/ANHY	2318	(+629)	2318	(+629)	
HELBNER	3905	(-958)	3898	(-951)	
LANGING	3945	(-998)	3938	(-991)	
MUNCIE CREEK	4112	(-1165)	4115	(-1168)	
STARK SHALE	4206	(-1259)	4206	(-1259)	
BKC	4293	(-1346)	4291	(-1344)	
MARMATON	4337	(-1390)	4341	(-1394)	
PAWNEE	4411	(-1464)	4422	(-1475)	
CHEROKEE SH.	4487	(-1540)	4488	(-1541)	
JOHNSON	4526	(-1579)	4481	(-1584)	
MORROW SH.	4558	(-1611)	4546	(-1599)	
MISSISSIPPIAN	4567	(-1620)	4565	(-1618)	



REFERENCE WELL FOR STRUCTURAL COMPARISON: SLAWSON EXPLORATION, INC
#1 HABIGER, SE-SE-30, SEC. 28-T13-R31W

REMARKS: IT WAS RECOMMENDED & AGREED UPON BY ALL PARTIES CONCERNED THAT THIS WELL BE PLUGGED & ABANDONED ON 6-30-12

RESPECTFULLY SUBMITTED

BY: *Patrick J. Deenihan*

PATRICK J. DEENIHAN
PETROLEUM GEOLOGIST

LEGEND

- Anhydrite
- Salt
- Sandstone
- Gypsif.
- Gyps. sh.
- Limestone
- Calc. Lm.
- Chert
- Dolomite

SCALE 1" = 100'

DEPTH	SAMPLE DESCRIPTION	REMARKS
0-18-12	MURM	
0-19-12	600	
0-20-12	2640	
0-21-12	3895	
0-22-12	3988	
0-23-12	3988	
0-24-12	4150	
0-25-12	4210	
0-26-12	4290	

6-27-12 = 8458
9-28-12 = 4560
6-29-12 = 1700

22.50

ANHYDRITE

2295 (7002)

2300

BASE/ANHYDRITE

2378 (7629)

MUD. Co / SERVICE MUD, INC.

3579

WT: 8.8 DT: 8.8 AL: 7.2
CMC: 1500 LCM: 30

3700

50

25, CRIM. GRAY - SING - P-556 76
CHERRY

SM, BLACK - DK GRAY

SM, VARI - COLOR

25, CRIM. GRAY - SING - P-556 76
CHERRY - No. 580 03

SM - GRAY

25, CRIM. GRAY - SING - P-556 76
SM - F55C - CHERRY - No. 580 03

25, A/A

SM, BLACK - CARB

SM, VARI - COLOR

3900

LS, CRM, TAN, SNG - FSS - P. 1188
 NO. 51000

LS, CRM, TAN, SNG, MOTT - PEN -
 XON P. FSSL - SHALEY

LS, CRM, TAN, SNG, MOTT - P. FSS -
 CLIFFSOL 100. 51000

SH, GR, GRN, DRNGE - ARGIL

SH, GRYS - GRN - ARGIL

LS, CRM, GRV, MOTT - P. FSSL
 V. 5 HALEY

SH, GRYS.

LS, GRV, MOTT - P. FSSL V. CHARMY
 P. 50 - XON - NO. 51000

SH, GRV, DRNGE, BRN - ARGIL

SH, BLACK CARB

SH, VAR - SOLOX - PSEDOM. GRV

3900

WIPONER SHALE

3898 (-95T)

TORONTO

3918 (-971)

LANSING

3935 (-991)

-CFS-

-CFS-

-CFS-

LS, WHT, 2F 4M, SING, FISS TO
SOIL, 37% CHALKY

LS, WHT-TAN-FISS, V. CHALKY

SN, GR, 4M, 2M, 1M, 1M

LS, WHT-CHALKY, FISS TO SOIL, 0%
No. 5000

LS, GRP-V-FISS-00L TO SHALLOW, 0%
F. F. W. H. N. IN PART, NO SHAD

LS, GRP, SING, 1M, 2M, 1M, 1M, 1M, 1M
F. F. W. H. N. IN PART, NO SHAD
No. 5000

SH, GRP'S - 1M, 2M, 1M, 1M, 1M, 1M

LS, WHT, 2M, 4M, SING - FISS - 00L TO SOIL
0% F. F. W. H. N. IN PART, NO SHAD
0% F. F. W. H. N. IN PART, NO SHAD
0% F. F. W. H. N. IN PART, NO SHAD
SH, 1M, 1M, 1M, 1M, 1M, 1M

LS, WHT, 2M, 4M, SING - FISS - 00L TO SOIL
0% F. F. W. H. N. IN PART, NO SHAD
0% F. F. W. H. N. IN PART, NO SHAD
SH, 1M, 1M, 1M, 1M, 1M, 1M

LS, WHT - SING - CHALKY

LS, WHT - GRP - SING - CHALKY
TO MICRO, 00L - No. 5000

LS, WHT, 2M, 4M, SING - CHALKY - 00L TO SOIL
0% F. F. W. H. N. IN PART, NO SHAD
0% F. F. W. H. N. IN PART, NO SHAD
0% F. F. W. H. N. IN PART, NO SHAD
No. 5000

SH, VAR - 00L

LS, WHT - SING - CHALKY - 00L TO SOIL
0% F. F. W. H. N. IN PART, NO SHAD
0% F. F. W. H. N. IN PART, NO SHAD
0% F. F. W. H. N. IN PART, NO SHAD
No. 5000

GOY STUCK ON SHORT TRIP
SPOTTED 60 OIL SPARKED FOR
4 HRS - GOT LOOSE ON 1ST PULL

DST #1 (3964) - 3988

30" - 30" - 45" - 60"

IF: GUY TO 1/2 M - NO RETURN

FF: 00L TO 2M - NO RETURN

REC: 1M, 1M, 0.5M, 0.5M, 0.5M, 0.5M

IMP: 1225 FWP: 1851

IPP: 1545 FAP: 4877

ISP: 979 FSP: 982

GMT: 1220 GML: 1500 (399)

VIS: 65 WT: 9.0 NL: 6.4

CHL: 1300 LCM: 2.4

DST #2 (4018) - 4037

15" - 30" - 45" - 60"

IF: 00L TO 2M - NO RETURN

FF: 00L TO 2M - NO RETURN

REC: 1M, 1M, 0.5M, 0.5M, 0.5M, 0.5M

IMP: 1202 FWP: 1849

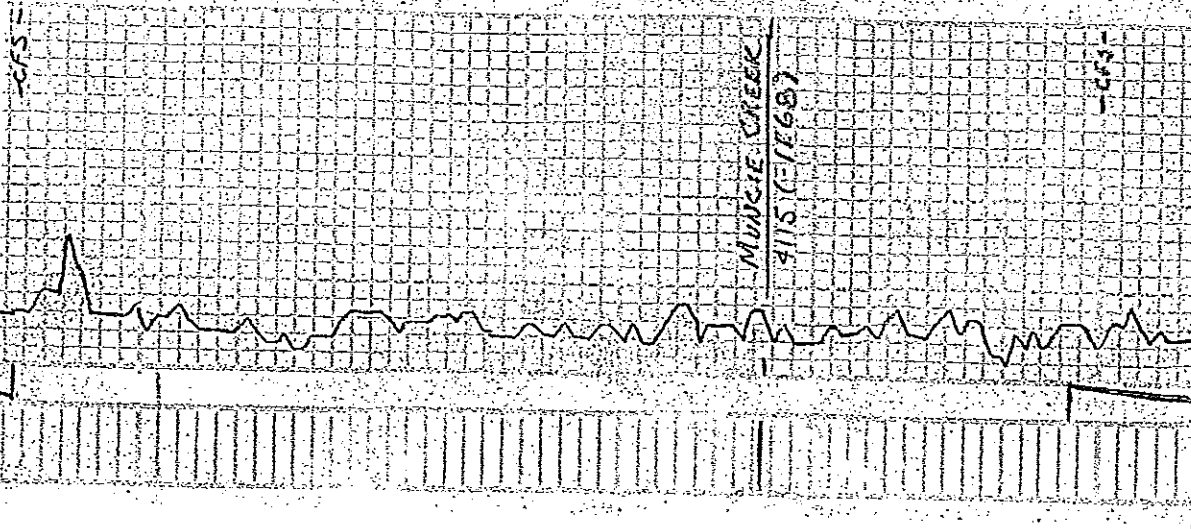
IPP: 1549 FAP: 455-677

ISP: 979 FSP: 982

GMT: 1310 GML: 2400

4114

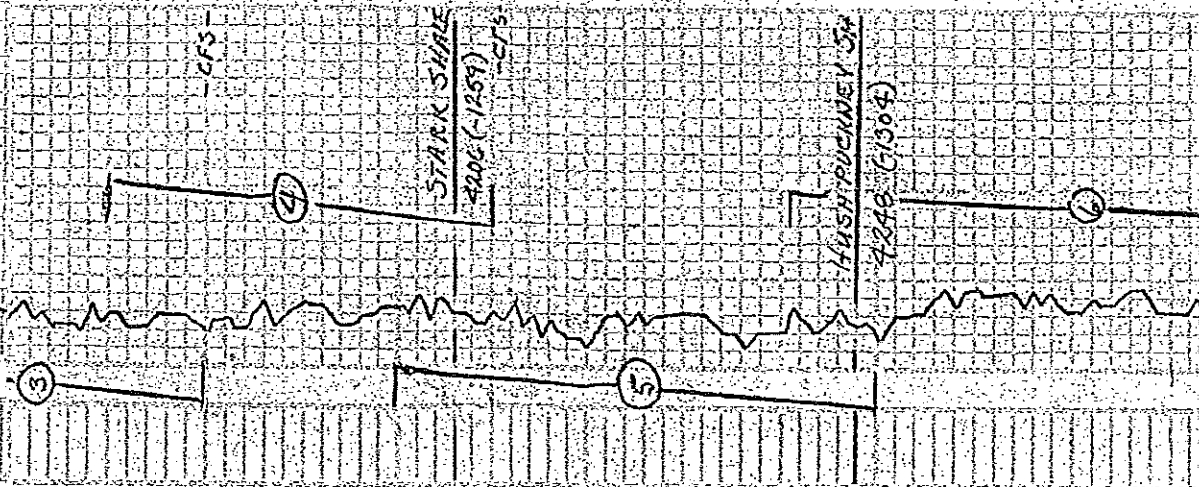
4000



4100

<p>PIPE STAMP 1116 SHORT TO BOARD DEVIATION 3/4"</p>	<p>PIPE STAMP 1116 SHORT TO BOARD DEVIATION 3/4"</p>
<p>SH. BARK CASE - GRAY</p>	<p>SH. BARK CASE - GRAY</p>
<p>LS. GRAY - FA - FIN F50L, SHI - CHALKY - NO SHOW</p>	<p>LS. GRAY - FA - FIN F50L, SHI - CHALKY - NO SHOW</p>
<p>LS. A) H. INCL IN F50L TO THE</p>	<p>LS. A) H. INCL IN F50L TO THE</p>
<p>LS. A) H.</p>	<p>LS. A) H.</p>
<p>LS. GRAY - FA - FIN F50L, SHI - CHALKY - NO SHOW</p>	<p>LS. GRAY - FA - FIN F50L, SHI - CHALKY - NO SHOW</p>
<p>SH. BARK CASE - GRAY</p>	<p>SH. BARK CASE - GRAY</p>
<p>LS. GRAY - FA - FIN F50L, SHI - CHALKY - NO SHOW</p>	<p>LS. GRAY - FA - FIN F50L, SHI - CHALKY - NO SHOW</p>
<p>LS. A) H.</p>	<p>LS. A) H.</p>
<p>SM. BLACK SAND - GRAY TO WHITE</p>	<p>SM. BLACK SAND - GRAY TO WHITE</p>

DS7-A3 (4140 4180)
 30' - 30" - 30' - 30"
 IF WEAR SURF ALLOW - NO RETURN
 FF: No show - NO RETURN



REC: 70' Mud w/ 100 SPTS
 IHP: 2046 FHP: 1999
 WTR: 19-43 FFP: 46-68
 I/SIP: 866 F/SIP: 850
 BHT: 125 CHL: 3400 (SYS)

VIS: LS WT: 8.7 WL: 7.2
 CAL: 2000 LCM: TRC

DST # 4 (4170 - 4210)
 30" - 45" - 36" - 30"
 IF: 1" - No RETURN
 FF: No BLOW - No RETURN
 REC: 80' OCMW FHP: 2005
 IHP: 2069 FFP: 20-42 F/SIP: 8565
 WTR: 19-43 F/SIP: 879
 BHT: 120 CHL: 35500

DST # 5 (4200 - 4250)
 30" - 30" - 45" - 60"
 IF: 1 1/2" - No RETURN
 FF: 1" - No RETURN
 REC: 134' (100' @ DISC SPTS)
 IHP: 2158 FHP: 1996
 WTR: 19-43 FFP: 29-106
 I/SIP: 952 F/SIP: 749
 BHT: 130 CHL: 5200 (SYS)

VIS: 49 WT: 8.9 WL: 7.2
 CAL: 5200 LCM: 1M

DST # 6 (4241 - 4296)
 15" 45" - 15" - 60"
 IF: 208 IN 2" - No RETURN
 FF: 408 IN 2" - No RETURN
 REC: 1054 OCMW - 5% OIL, 65%
 WTR: 30 1/2 WMO
 IHP: 2104 FHP: 2067
 WTR: 14-384 FFP: 34-539
 I/SIP: 898 F/SIP: 900
 BHT: 133 CHL: 23,000

LS, GRAY - SING/MOTT - TO XCM
 FLOOR - SING/MOTT TO PART
 GIVE D - SING/MOTT TO SU - SUK -
 80 ON - TO - SING/MOTT - OIL
 N. OIL BRN TO SING/MOTT
 SH, BLACK CARB - ABOVE GRAY
 H. 91L

LS, WHT. GRAY - SING/MOTT
 FLOOR - SING/MOTT TO
 30" - 30" - 45" - 60"
 80 ON - TO - SING/MOTT - OIL
 N. OIL BRN TO SING/MOTT
 FULL FLOOR

SIP, BLK. CARB

LS, GRAY - SING/MOTT - V. 302
 FLOOR - SING/MOTT TO
 30" - 30" - 45" - 60"
 80 ON - TO - SING/MOTT - OIL
 N. OIL BRN TO SING/MOTT
 FULL FLOOR

SIP, BLACK CARB

LS, WHT. GRAY - SING/MOTT - SU
 CHRY - SING/MOTT TO
 STRONG BUB. P.C. SING/MOTT FLOOR

LS, WHT. GRAY - SING/MOTT - SU
 CHRY - SING/MOTT TO
 STRONG BUB. P.C. SING/MOTT FLOOR

LS, WHT. GRAY - SING/MOTT - SU
 CHRY - SING/MOTT TO
 STRONG BUB. P.C. SING/MOTT FLOOR

LS, WHT. GRAY - SING/MOTT - SU
 CHRY - SING/MOTT TO
 STRONG BUB. P.C. SING/MOTT FLOOR

6KC
4391 (-1344)
-GFS-

MARMATION "A"
4371 (-1894)

MARMATION "B"
4371 (-1421)

MARMATION "C"
4380 (-1471)

4300

4400

5 STAFF FEELSE - DRY ABOVE
570 - BUT - CHALKY

SH, BLACK CARB. - VARI-COLOR
STILL CARRYING ABOVE COIN
6500/1000

SS, WHIT. COY. - NEEL - REDD - VAD.
6000 - 6200 - SANDY - 30-40% - MICA
A.B. SANDS

SH, AROUND VARI - COLOR - STAY
6300 - 6500 - 1/2" - 3/4" - MICA

SH, DARK CARB.

SH, GRU - GR. FINE

LS, WHIT - GR. FINE - V - COMBIC
FUND - SOL. WASH. TO GIVE
6300 - 6500 - SANDY - FINE
6500 - 6700 - SANDY - FINE

LS, ADA - POK - SHAD - IN DRY
6700 - 6800 - M. CARB.

LS, ADA - POK - SHAD - IN DRY
6800 - 6900 - M. CARB. - FINE
SH, AROUND VARI - COLOR

LS, WHIT. GR. FINE - V - COMBIC
6900 - 7000 - SANDY - FINE

LS, ADA - POK - SHAD - IN DRY
7000 - 7100 - M. CARB.

LS, CAN-TAN - GR. - SING - MOTT
7100 - 7200 - SANDY - FINE
7200 - 7300 - SANDY - FINE

LS, DNT - BGRY - SING - CHARKY
7300 - 7400 - SANDY - FINE

DSI #7 (4410 - 4450)
30" - 30" - 30" - 30"
TF: 1/2" - 1/2" - RETURN

PAWJEE

4422 (-1475)

MYRIK STAM

4482 (-1305)

EDNET 5057

4464 (-1515)

LENE CHALK SH

4488 (-1541) - CFS

JOHNSON BME

SH, BLACK CARB

SH, TAN-COOR-ORANGE, GRT, GRU, ARGIL

LS, UNT, LT, GRT, SING - FA, 284
FSSL - 9 SGRD, F-000R - DRIF
9200 FLUR

LS, A7A - OIL IS SLACK BUT USED
4422 - FA - SGRD TO 2041 - 9500
STRONG 000R

SH, BLACK CARB
SH, GRY TO DK GRY

LS, TAN GRT - SING/MOIT - FSSL -
1-001, 04-004, 9500 - FRY -
9-000, 000R - BRIGHT WHT TO
9-010, FUR

SH, BLK CARB

LS, CRN-LT GRY - SING/SLT - MOIT
F - SGRD - P - FSSL - CHALK CARB
F - 22-000 - STR - STORM 000R
(NO FUR)

LS, A7A

SH, BLACK CARB

LS, CRN GRY - ORATO - XCN - 000R - F

4500

LS, GRT - SING/MOIT - MICRO - XCN
FA - SGRD - FSSL - NO SING

LS, UNT - LT - GRY - SING/SLT - MOIT
FA - SGRD - FSSL - NO SING

LS, CRN - TAN - SLT - FSSL - 000R - SING
FA - SGRD - FSSL - SING FLAVOR
FAINT 000R

SH, VARI-COLOR

FF - UNBLOWN - NO RETURN

REC: 5 MPO
IHP: 2302
FFP: 58-00
FSP: 58-00
LSIP: 327
BMT: 1270
CAL: 4200

VIS: 57 WT 9.3 WLB.0
CAL: 3400 LCM: 14

057-48 (-4500, -4560)

IF: UNBLOWN - DIED IN 20% NO RETURN
FF - UNBLOWN - NO RETURN
REC: 5 MPO
IHP: 2346
FFP: 29-24
LSIP: 65
BMT: 130
CAL: 3700 (CYS)

9587 (1584)

MARROW - 5 INCH

4546 (-159)

MISSISSIPPIAN

4565 (-1615)

4600

LS. WHT. GRAY - LOOK SIMPLY
ORIGHT WHT. - SLT - 500 - 1000
SLT - 500 - 1000 - 1000 - 1000
LS. (A) A - 1 - STRONG - 1000 - 1000
FLUR. - 500 - 1000 - 1000 - 1000
NEAR - MARINE - NOT IN CHANNEL

LS. (A) A - PEREGRINE - SHALE - 1000 - 1000
TRIP - STILL - CARRYING - 500 - 1000
LS. WHT. GRAY - LOOK SIMPLY
ORIGHT WHT. - SLT - 500 - 1000
SLT - 500 - 1000 - 1000 - 1000
LS. (A) A - 1 - STRONG - 1000 - 1000
FLUR. - 500 - 1000 - 1000 - 1000
NEAR - MARINE - NOT IN CHANNEL

15: 87 BT: 9.3 WL: 8.8
CAL: 3400 ICM: 2 #
BIT TRIP: 1 DST BIT IS SHOT

LS. WHT. GRAY - LOOK SIMPLY
ORIGHT WHT. - SLT - 500 - 1000
SLT - 500 - 1000 - 1000 - 1000
LS. (A) A - 1 - STRONG - 1000 - 1000
FLUR. - 500 - 1000 - 1000 - 1000
NEAR - MARINE - NOT IN CHANNEL

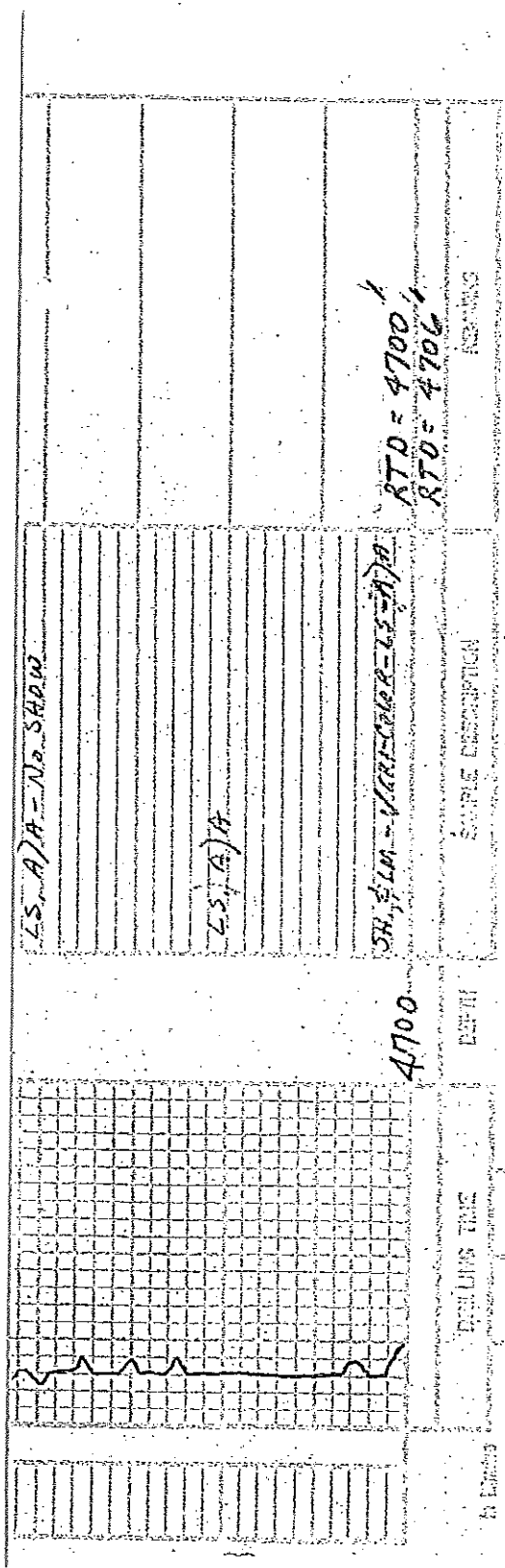
LS. WHT. GRAY - LOOK SIMPLY
ORIGHT WHT. - SLT - 500 - 1000
SLT - 500 - 1000 - 1000 - 1000
LS. (A) A - 1 - STRONG - 1000 - 1000
FLUR. - 500 - 1000 - 1000 - 1000
NEAR - MARINE - NOT IN CHANNEL

LS. (A) A - 1 - STRONG - 1000 - 1000
FLUR. - 500 - 1000 - 1000 - 1000
NEAR - MARINE - NOT IN CHANNEL

LS. (A) A - 1 - STRONG - 1000 - 1000
FLUR. - 500 - 1000 - 1000 - 1000
NEAR - MARINE - NOT IN CHANNEL

LS. GRAY - TAN - 1000 - 1000
TO - 500 - 1000 - 1000 - 1000

LS. (A) A - 1 - STRONG - 1000 - 1000
FLUR. - 500 - 1000 - 1000 - 1000
NEAR - MARINE - NOT IN CHANNEL



4700

ES/A/A

SAMPLE DESCRIPTION

RTD = 4700
RTD = 4706

ES/A/A - No. SHAW

SHAW - VARI-COR-12-A/A

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 10, 2012

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

Re: ACO1
API 15-171-20860-00-00
Habiger 1-28
SW/4 Sec.28-17S-31W
Scott 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