



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1140860
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: _____



1140860

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	Nightengale 1-28
Doc ID	1140860

All Electric Logs Run

Array Induction
Photo density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Nightengale 1-28
Doc ID	1140860

Tops

Name	Top	Datum
Base Anhydrite	2464	+676
Heebner	3986	-846
Lansing	4028	-888
Muncie Creek	4212	-1072
Stark Shale	4308	-1168
Hushpuckney	4354	-1214
BKC	4400	-1260
Pawnee	4524	-1384
L. Cherokee Shale	4601	-1461
Johnson	4646	-1506
Morrow Shale	4726	-1586
Mississippian	4796	-1656

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 135588
Invoice Date: Apr 3, 2013
Page: 1

Bill To:

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Shak	60194	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Apr 3, 2013	5/3/13

Quantity	Item	Description	Unit Price	Amount
325.00	MAT	Nightingale #1-28	17.90	5,817.50
175.00	MAT	Class A Common	9.35	1,636.25
34.00	MAT	Pozmix	23.40	795.60
125.00	MAT	Gel	2.97	371.25
16.00	MAT	Flo Seal	35.00	560.00
698.80	SER	Cottonseed Hulls	2.48	1,733.02
1,321.99	SER	Cubic Feet	2.60	3,437.18
1.00	SER	Ton Mileage	2,483.59	2,483.59
46.00	SER	Port Collar	7.70	354.20
46.00	SER	Pump Truck Mileage	4.40	202.40
1.00	CEMENTER	Light Vehicle Mileage		
1.00	EQUIP OPER	Darren Racette		
1.00	OPER ASSIST	Tyler Flipse		
1.00	OPER ASSIST	Brandon Wilkinson		
1.00	OPER ASSIST	David Scariano		

INT

RECEIVED
 APR 15 2013
 155517 LD

Port Collar Cement
10502-S

Subtotal	17,390.99
Sales Tax	761.99
Total Invoice Amount	18,152.98
Payment/Credit Applied	
TOTAL	18,152.98

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

\$ 4,521.65 ✓

ONLY IF PAID ON OR BEFORE
Apr 28, 2013

DW

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 135470
Invoice Date: Mar 31, 2013
Page: 1

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

Now Includes:

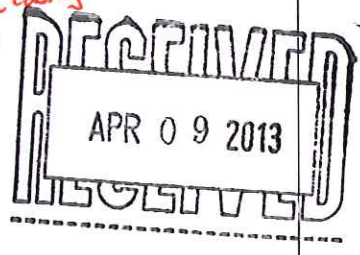


Customer ID	Field Ticket #	Payment Terms	
Shak	60229	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Mar 31, 2013	4/30/13

Quantity	Item	Description	Unit Price	Amount
5.00	MAT	Nightingale #1-28 Gel	23.40	117.00
235.00	MAT	ASC	20.90	4,911.50
24.00	MAT	Salt	26.35	632.40
1,175.00	MAT	Gilsonite	0.98	1,151.50
166.00	MAT	CD-31	10.30	1,709.80
12.00	MAT	Super Flush	58.70	704.40
304.41	SER	Cubic Feet	2.48	754.94
594.00	SER	Ton Mileage	2.60	1,544.40
1.00	SER	Production Casing	2,765.75	2,765.75
45.00	SER	Pump Truck Mileage	7.70	346.50
1.00	SER	Manifold Head Rental	275.00	275.00
45.00	SER	Light Vehicle Mileage	4.40	198.00
1.00	CEMENTER	LaRene Wentz		
1.00	OPER ASSIST	Paul Beaver		
1.00	OPER ASSIST	Brandon Wilkinson		

INT

Production Casing
Cement
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

\$ 3,475.59

ONLY IF PAID ON OR BEFORE
Apr 25, 2013

Subtotal	15,111.19
Sales Tax	765.81
Total Invoice Amount	15,877.00
Payment/Credit Applied	
TOTAL	15,877.00

DW

ALLIED OIL & GAS SERVICES, LLC 060229

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley, KS

DATE <u>3-31-13</u>	SEC. <u>28</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>4:30am</u>	JOB START <u>6:00am</u>	JOB FINISH <u>2:00pm</u>
WELL# <u>1-28</u>	LOCATION <u>Panzer, Ks 1/2 S, Winto</u>			COUNTY <u>Scott</u>	STATE <u>Ks</u>		

CONTRACTOR HO # 2
 TYPE OF JOB Production
 CEMENT SIZE 2 7/8 T.D. 4875'
 CEMENTING SIZE 4 1/2 DEPTH 4875.71'
 CEMENTING PIPE DEPTH
 CEMENTING COLLAR DEPTH 2409.52
 CEMENTING MAX MINIMUM
 CEMENTING LINE SHOE JOINT 47'
 CEMENT LEFT IN CSG. 47'
 CEMENT PLACEMENT 74.83 661
 EQUIPMENT

OWNER same
 CEMENT AMOUNT ORDERED 235 sks ASC, 1025 sks salt, 549 lbs sulfate, .75% CD 31
 COMMON @
 POZMIX @
 GEL 5 sks @ 23.40 117.00
 CHLORIDE @
 ASC 235 sks @ 20.90 4911.50
 salt 2# sks @ 26.33 632.40
 sulfate 1175# @ .98 1151.50
 CD 31 166# @ 10.30 1709.80
 Super flush 12.661 @ 58.70 704.40
 HANDLING 304.41 @ 2.48 754.94
 MILEAGE 13.27 @ 45 x 2.60 1544.40
 TOTAL 11526.04

MP TRUCK CEMENTER Lakene E. White
128/281 HELPER Paul Beaver
 ILK TRUCK DRIVER Brandon Wilkinson
376/1306
 ILK TRUCK DRIVER

REMARKS:
11x Super flush, Plug R.H. 30 sks
11x 205 sks cement down casing
replace with water
shaplug 2000#. float held.

Thank you!

TARGET TO: Shakespeare Oil
 REET
 CITY STATE ZIP

SERVICE
 DEPTH OF JOB 4875.71
 PUMP TRUCK CHARGE 2765.75
 EXTRA FOOTAGE @
 MILEAGE MI 45 @ 7.90 346.50
 MANIFOLD head @ 275.00
MI 45 @ 4.40 198.00
 TOTAL 3585.25

PLUG & FLOAT EQUIPMENT

I, Allied Oil & Gas Services, LLC,
 do hereby request 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.

TOTAL

PRINTED NAME Doug Roberts
 SIGNATURE Doug Roberts

SALES TAX (if Any)
 TOTAL CHARGES 10,111.29
 DISCOUNT 3,475.59 IF PAID IN 30 DAYS
11,635.69 Net.

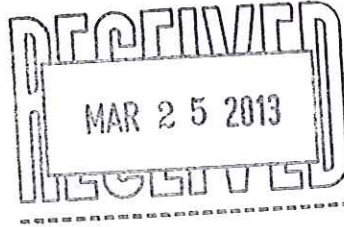
PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 135264
Invoice Date: Mar 16, 2013
Page: 1

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



Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Shak	60140	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Mar 16, 2013	4/15/13

Quantity	Item	Description	Unit Price	Amount
180.00	MAT	Nightingale #1-28		
		Class A Common	17.90	3,222.00
3.00	MAT	Gel	23.40	70.20
6.00	MAT	Chloride	64.00	384.00
194.71	SER	Cubic Feet	2.48	482.88
408.61	SER	Ton Mileage	2.60	1,062.41
1.00	SER	Surface	1,512.25	1,512.25
46.00	SER	Pump Truck Mileage	7.70	354.20
1.00	SER	Manifold Rental	275.00	275.00
46.00	SER	Light Vehicle Mileage	4.40	202.40
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Brandon Wilkinson		

INT

Surface
10502-S

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

\$ 1,664.37

ONLY IF PAID ON OR BEFORE
Apr 10, 2013

Subtotal	7,565.34
Sales Tax	305.12
Total Invoice Amount	7,870.46
Payment/Credit Applied	
TOTAL	7,870.46

DW



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

28 16s 34w Scott, Ks

202 W Main Street
Salem, Il 62881

Nightengale 1-28

Job Ticket: 49152

DST#: 1

ATTN: Tim Priest

Test Start: 2013.03.22 @ 10:29:00

GENERAL INFORMATION:

Formation: **LKC - B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:44:45

Time Test Ended: 17:13:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4050.00 ft (KB) To 4080.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4080.00 ft (KB) (TVD)

3130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 325.50 psig @ 4051.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.22

End Date:

2013.03.22

Last Calib.:

2013.03.22

Start Time: 10:29:05

End Time:

17:12:59

Time On Btm:

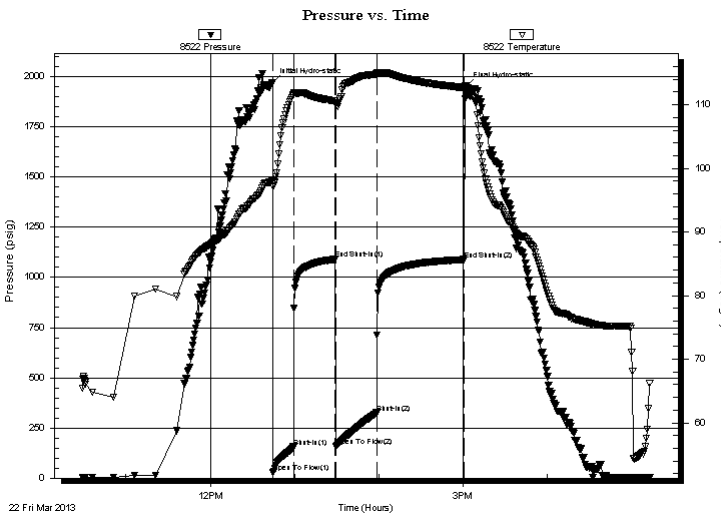
2013.03.22 @ 12:44:30

Time Off Btm:

2013.03.22 @ 15:02:15

TEST COMMENT: IF: BOB @ 6 min.
IS: No return.
FF: BOB @ 6 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.74	98.18	Initial Hydro-static
1	29.87	97.20	Open To Flow (1)
15	155.78	111.60	Shut-In(1)
45	1090.73	110.55	End Shut-In(1)
45	157.88	110.16	Open To Flow (2)
74	325.50	114.81	Shut-In(2)
136	1089.18	112.70	End Shut-In(2)
138	1951.05	112.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
680.00	mcw 10m 90w	6.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co, Inc

28 16s 34w Scott, Ks

202 W Main Street
Salem, Il 62881

Nightengale 1-28

Job Ticket: 49152

DST#: 1

ATTN: Tim Priest

Test Start: 2013.03.22 @ 10:29:00

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:

50000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
680.00	mcw 10m 90w	6.166

Total Length: 680.00 ft Total Volume: 6.166 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

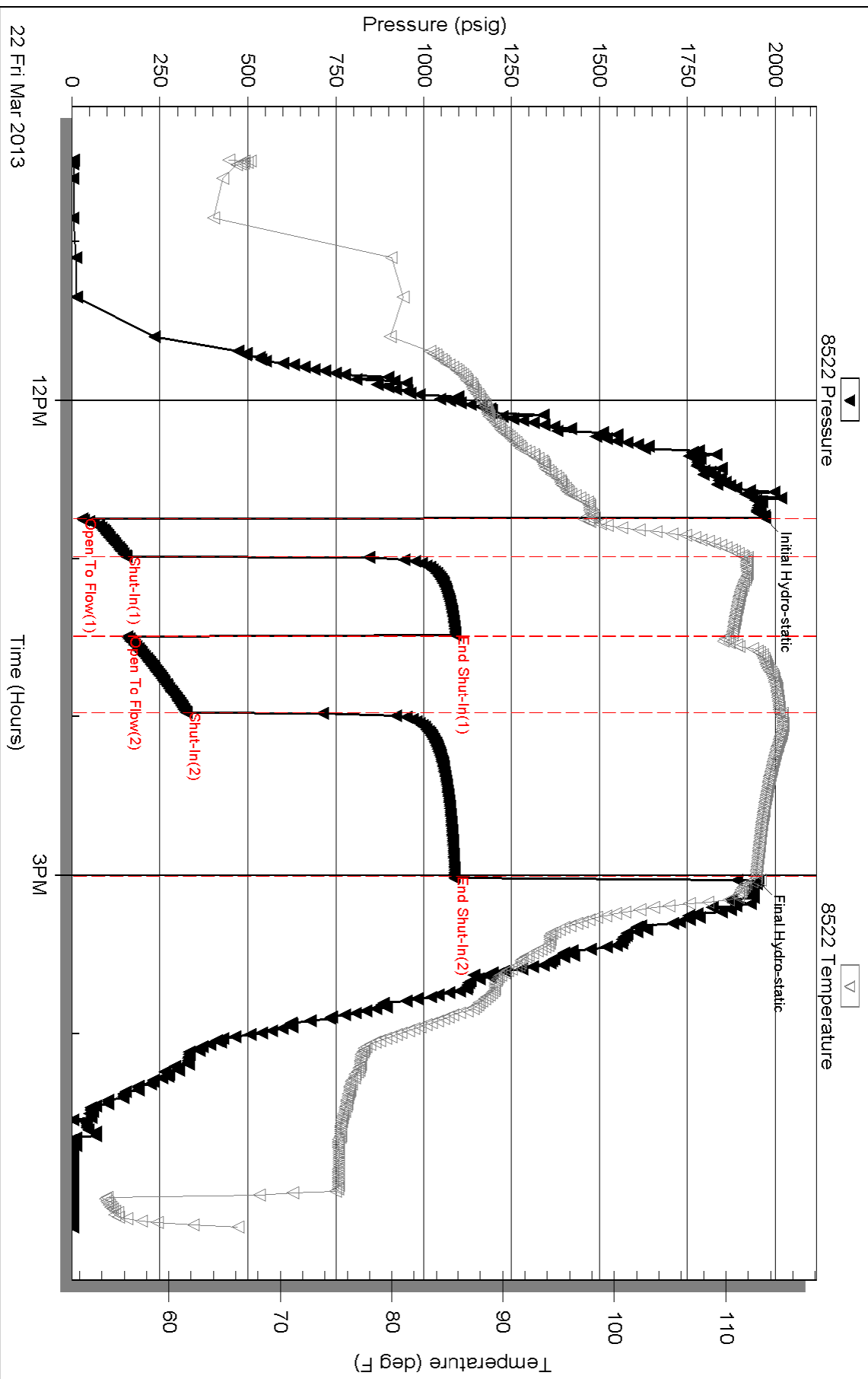
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .150 @ 71F = 50,000ppm

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespear Oil Co, Inc
202 W Main Street
Salem, IL 62881
ATTN: Tim Priest

28 16s 34w Scott, Ks
Nightengale 1-28
Job Ticket: 49153 **DST#: 2**
Test Start: 2013.03.23 @ 05:21:00

GENERAL INFORMATION:

Formation: **LKC - E&F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:37:30
Time Test Ended: 12:17:30
Interval: **4121.00 ft (KB) To 4151.00 ft (KB) (TVD)**
Total Depth: 4151.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 53
Reference Elevations: 3140.00 ft (KB)
3130.00 ft (CF)
KB to GR/CF: 10.00 ft

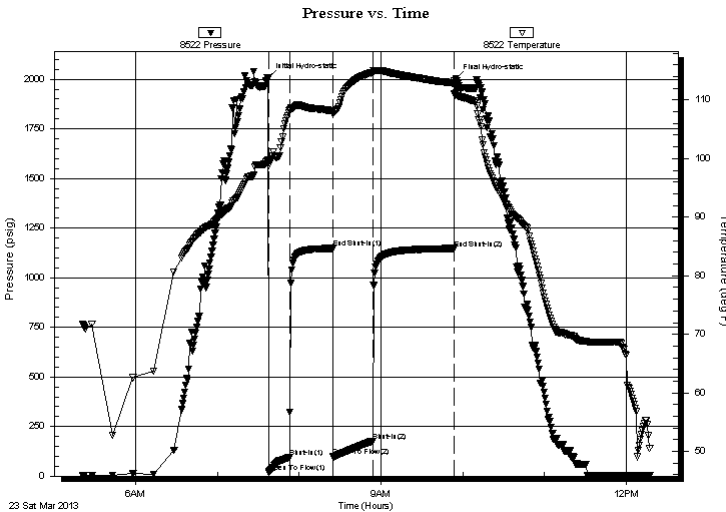
Serial #: 8522 Outside

Press @ RunDepth: 176.67 psig @ 4122.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.03.23 End Date: 2013.03.23 Last Calib.: 2013.03.23
Start Time: 05:21:05 End Time: 12:17:29 Time On Btm: 2013.03.23 @ 07:37:15
Time Off Btm: 2013.03.23 @ 09:55:00

TEST COMMENT: IF: BOB @ 10 min.
IS: No return.
FF: BOB @ 18 min.
FS: No return.

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.70	99.76	Initial Hydro-static
1	20.22	98.79	Open To Flow (1)
16	95.43	108.14	Shut-In(1)
48	1148.20	108.13	End Shut-In(1)
48	97.34	107.58	Open To Flow (2)
77	176.67	114.67	Shut-In(2)
137	1147.52	112.87	End Shut-In(2)
138	2001.80	111.93	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
360.00	mcw 10m 90w (oil spots in tool)	2.98

* 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, Inc

28 16s 34w Scott, Ks

202 W Main Street
Salem, Il 62881

Nightengale 1-28

Job Ticket: 49153

DST#: 2

ATTN: Tim Priest

Test Start: 2013.03.23 @ 05:21:00

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:

37000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	mcw 10m 90w (oil spots in tool)	2.983

Total Length: 360.00 ft Total Volume: 2.983 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .225 @ 61F = 37,000ppm

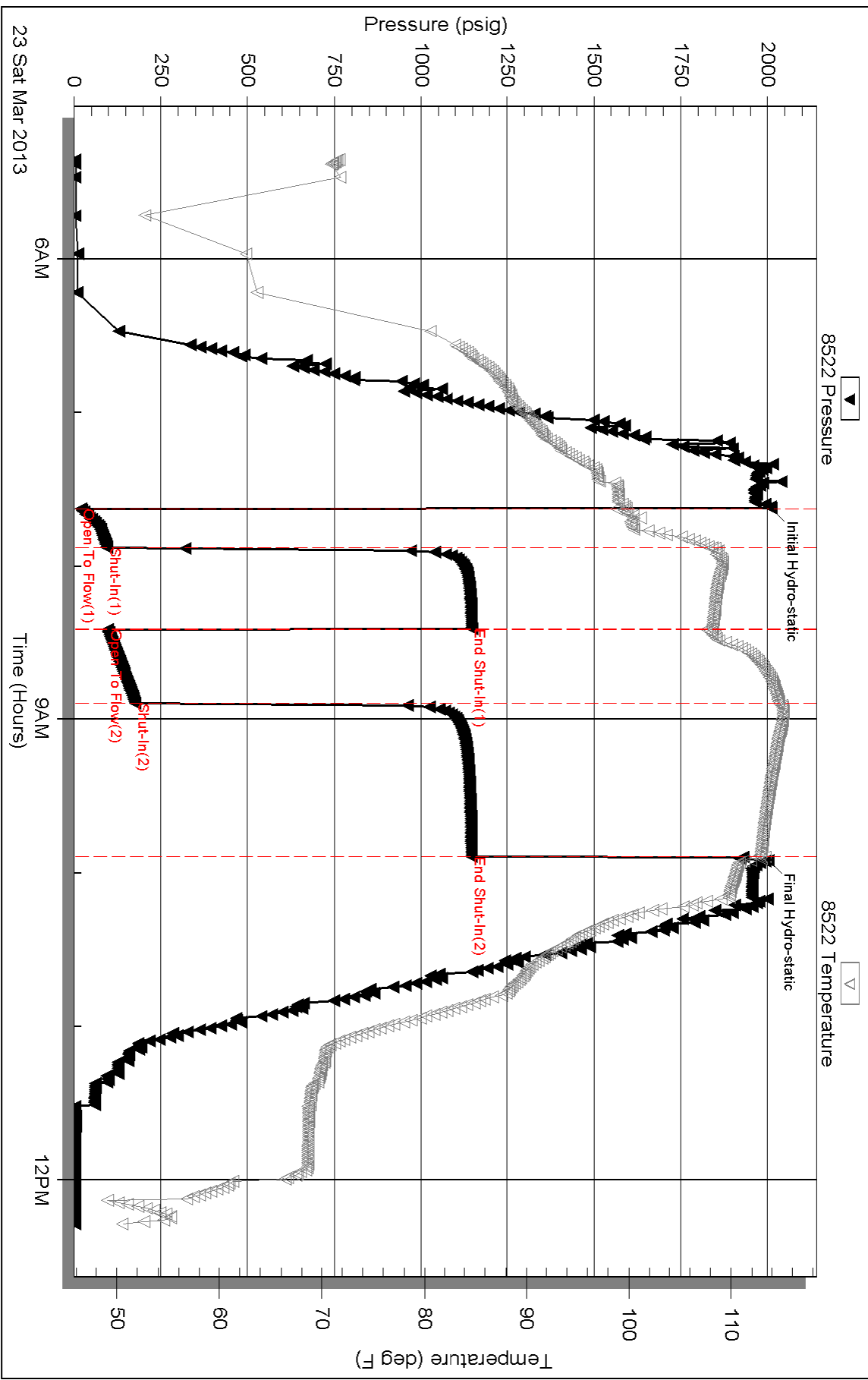
Serial #: 8522

Outside Shakespeare Oil Co, Inc

Nightengale 1-28

DST Test Number: 2

Pressure vs. Time



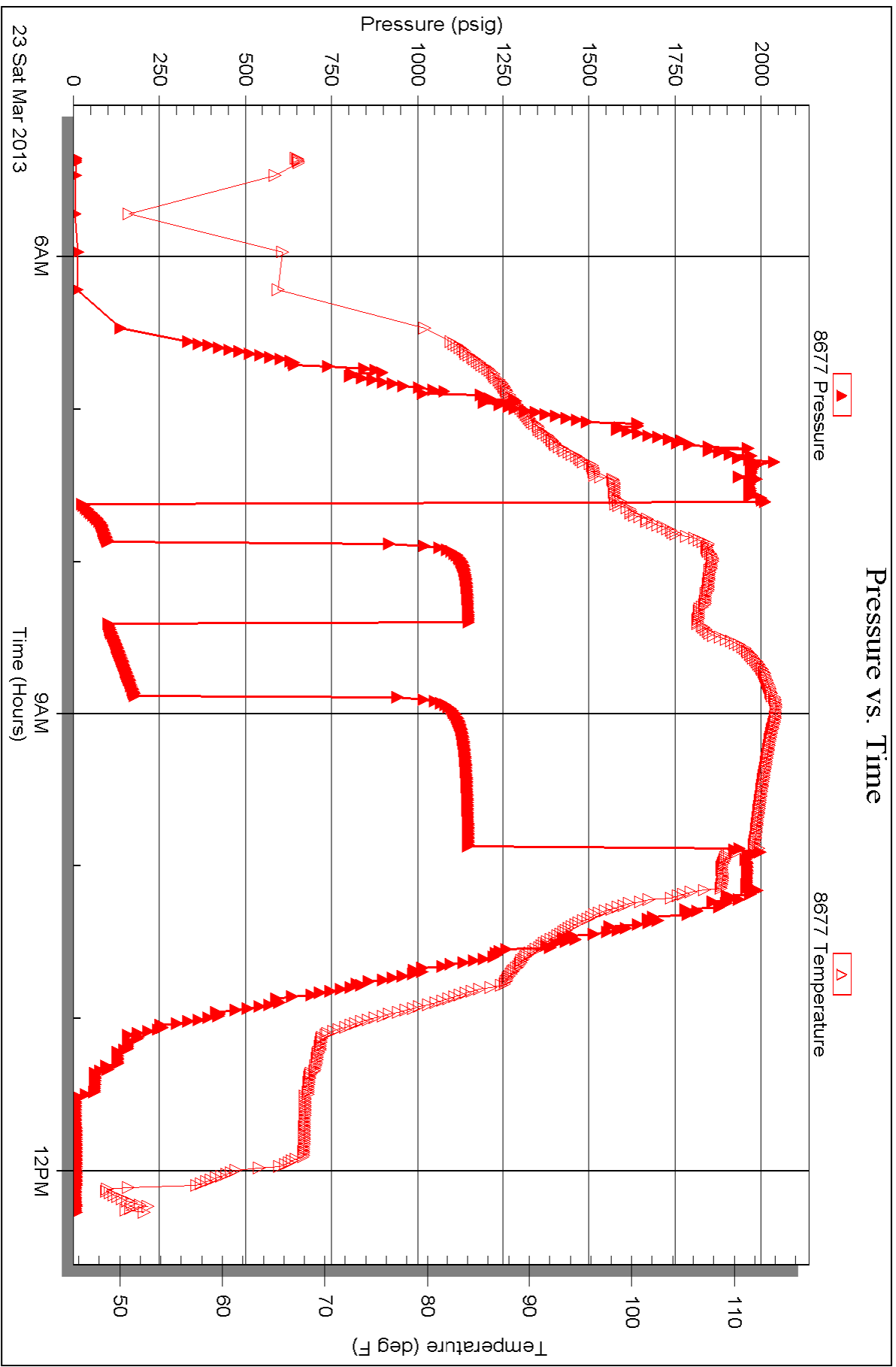
Serial #: 8677

Inside

Shakespeare Oil Co, Inc

Nightengale 1-28

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespear Oil Co, Inc

28 16s 34w Scott, Ks

202 W Main Street
Salem, Il 62881

Nightengale 1-28

Job Ticket: 49154

DST#: 3

ATTN: Tim Priest

Test Start: 2013.03.24 @ 05:00:00

GENERAL INFORMATION:

Formation: **LKC- H & I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:07:15

Time Test Ended: 12:29:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4226.00 ft (KB) To 4280.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4280.00 ft (KB) (TVD)

3130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 122.14 psig @ 4227.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.24

End Date: 2013.03.24

Last Calib.: 2013.03.24

Start Time: 05:00:05

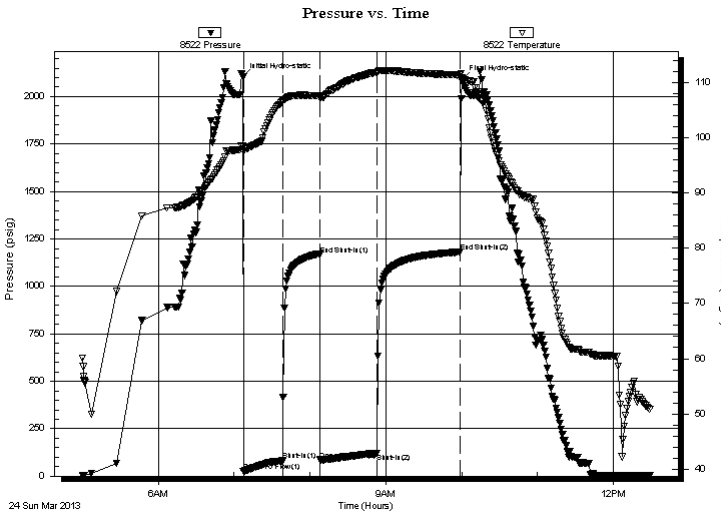
End Time: 12:29:29

Time On Btm: 2013.03.24 @ 07:07:00

Time Off Btm: 2013.03.24 @ 10:00:15

TEST COMMENT: IF: 5 1/2" blow .
IS: No return.
FF: 8" blow .
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2102.77	98.54	Initial Hydro-static
1	24.59	97.47	Open To Flow (1)
32	81.11	106.58	Shut-In(1)
61	1167.70	107.68	End Shut-In(1)
61	85.32	107.25	Open To Flow (2)
106	122.14	111.87	Shut-In(2)
172	1181.36	111.39	End Shut-In(2)
174	2090.60	110.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	mcw 20m 80w	1.19
40.00	ocm 10o 90m	0.40
10.00	oil 100o	0.10

* 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, Inc

28 16s 34w Scott, Ks

202 W Main Street
Salem, Il 62881

Nightengale 1-28

Job Ticket: 49154

DST#: 3

ATTN: Tim Priest

Test Start: 2013.03.24 @ 05:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

36000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	mcw 20m 80w	1.192
40.00	ocm 10o 90m	0.398
10.00	oil 100o	0.099

Total Length: 230.00 ft Total Volume: 1.689 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

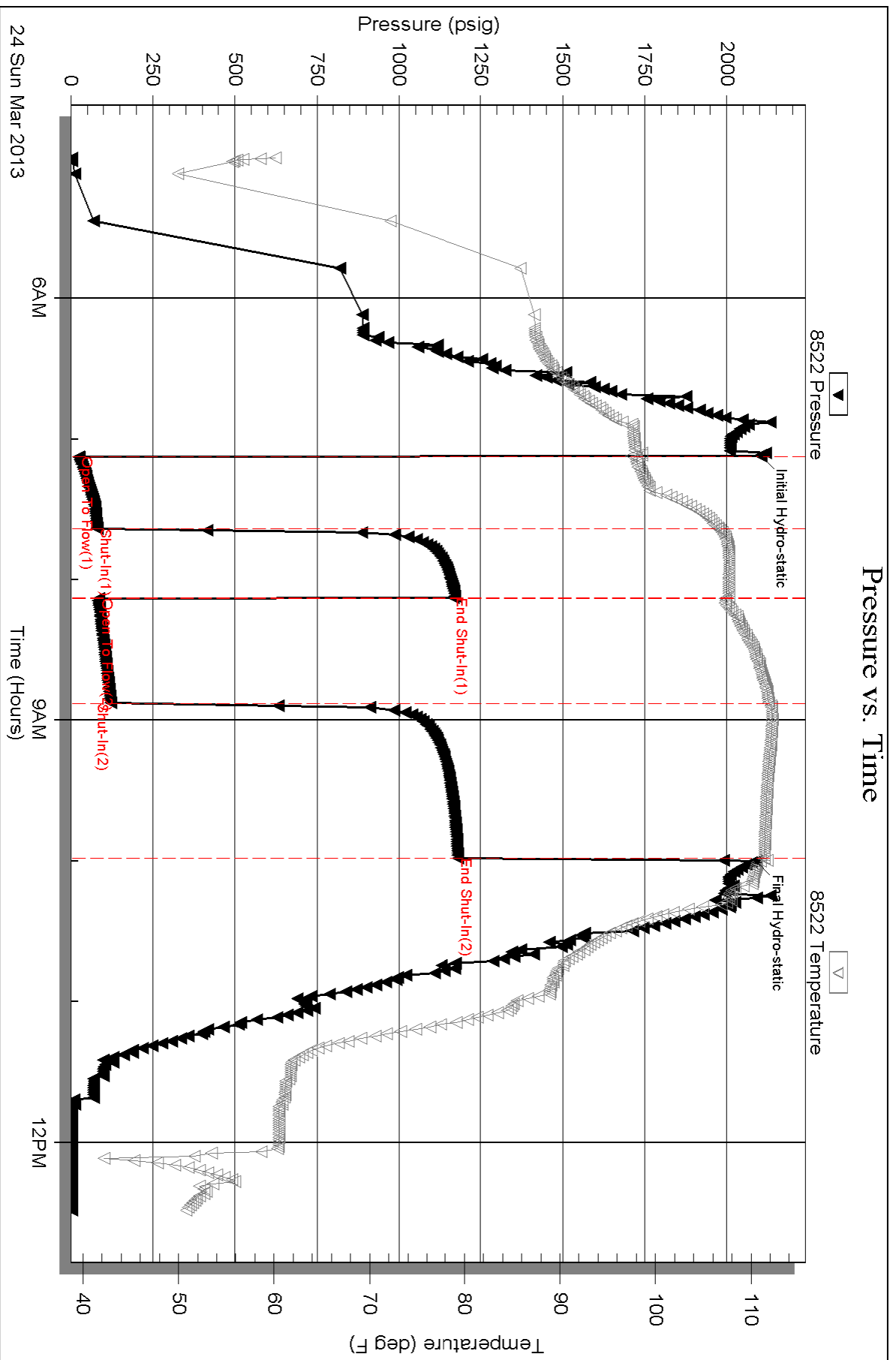
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .290 @ 48F = 36000ppm

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co, Inc

28 16s 34w Scott, Ks

202 W Main Street
Salem, Il 62881

Nightengale 1-28

Job Ticket: 49155

DST#: 4

ATTN: Tim Priest

Test Start: 2013.03.24 @ 21:43:00

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:

40000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
280.00	mcw 10m 90w (oil spots)	2.187

Total Length: 280.00 ft Total Volume: 2.187 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

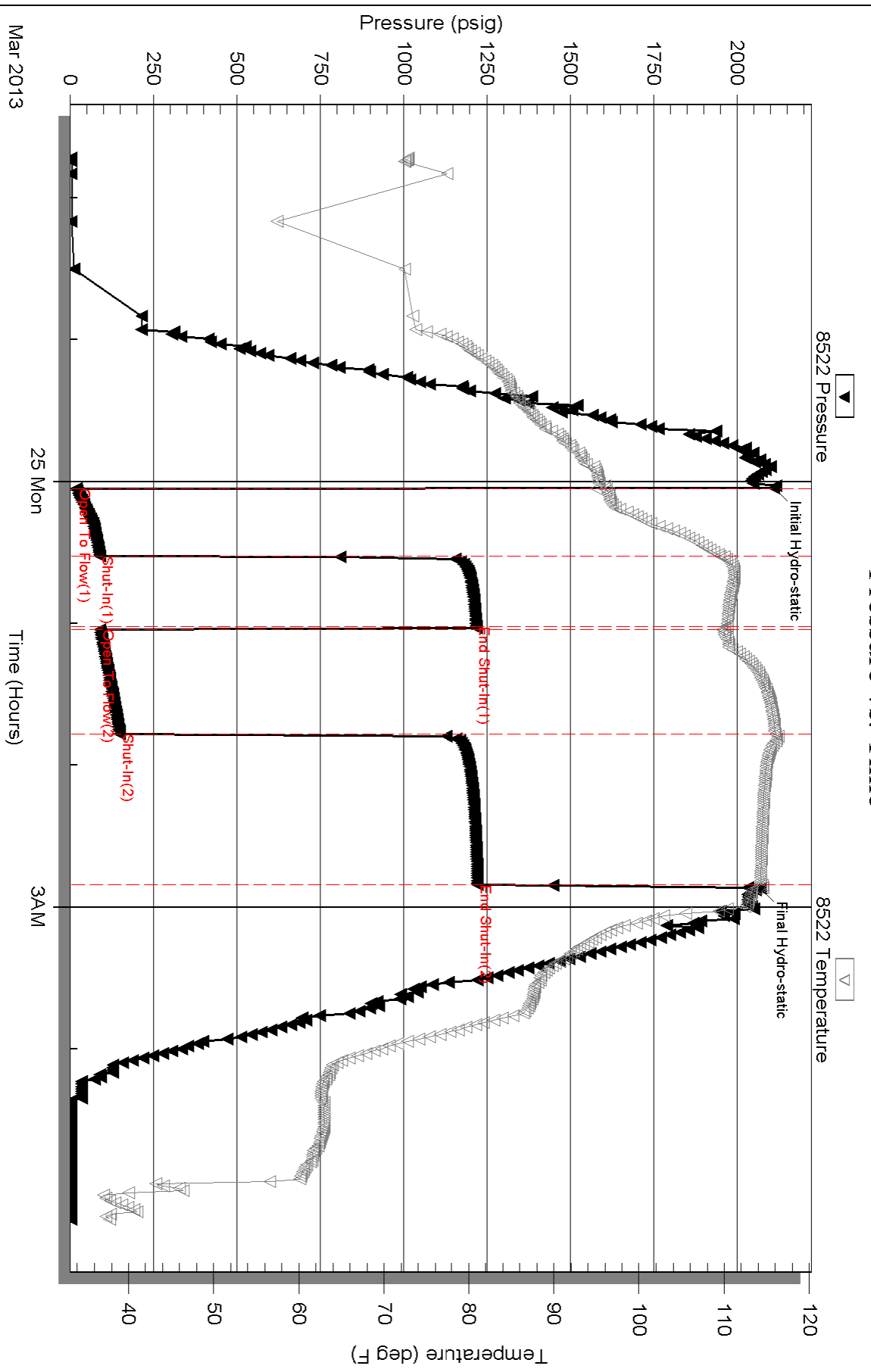
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .360 @ 35F = 40,000ppm

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc
202 W Main Street
Salem, IL 62881
ATTN: Tim Priest

28 16s 34w Scott, Ks
Nightengale 1-28
Job Ticket: 49156 **DST#: 5**
Test Start: 2013.03.26 @ 00:54:00

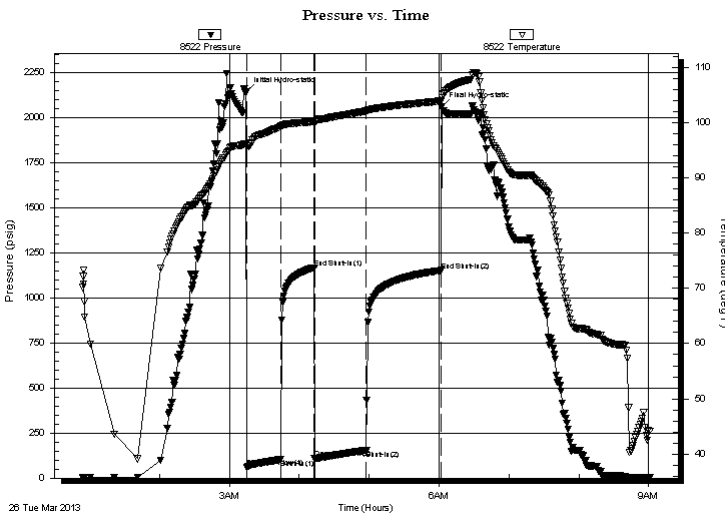
GENERAL INFORMATION:

Formation: **LKC - K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:14:45
Time Test Ended: 09:01:15
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 53
Interval: **4313.00 ft (KB) To 4360.00 ft (KB) (TVD)**
Reference Elevations: 3140.00 ft (KB)
Total Depth: 4360.00 ft (KB) (TVD) 3130.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8522 Outside
Press @ Run Depth: 155.86 psig @ 4314.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.03.26 End Date: 2013.03.26 Last Calib.: 2013.03.26
Start Time: 00:54:05 End Time: 09:01:14 Time On Btm: 2013.03.26 @ 03:14:30
Time Off Btm: 2013.03.26 @ 06:02:45

TEST COMMENT: IF: 8" blow.
IS: No return.
FF: BOB @ 45 min..
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2146.11	96.16	Initial Hydro-static
1	59.43	95.69	Open To Flow (1)
30	103.49	99.20	Shut-In(1)
58	1167.17	100.16	End Shut-In(1)
59	107.47	99.82	Open To Flow (2)
103	155.86	102.06	Shut-In(2)
168	1150.81	103.87	End Shut-In(2)
169	2061.66	104.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	somcw 3o 17m 80w	1.79
70.00	ow cm 10o 30w 60m	0.70
1.00	oil	0.01

* 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 Co, Inc

28 16s 34w Scott, Ks

202 W Main Street
Salem, Il 62881

Nightengale 1-28

Job Ticket: 49156

DST#: 5

ATTN: Tim Priest

Test Start: 2013.03.26 @ 00:54:00

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:

49000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	somcw 3o 17m 80w	1.789
70.00	ow cm 10o 30w 60m	0.696
1.00	oil	0.010

Total Length: 311.00 ft Total Volume: 2.495 bbl

Num Fluid Samples: 0

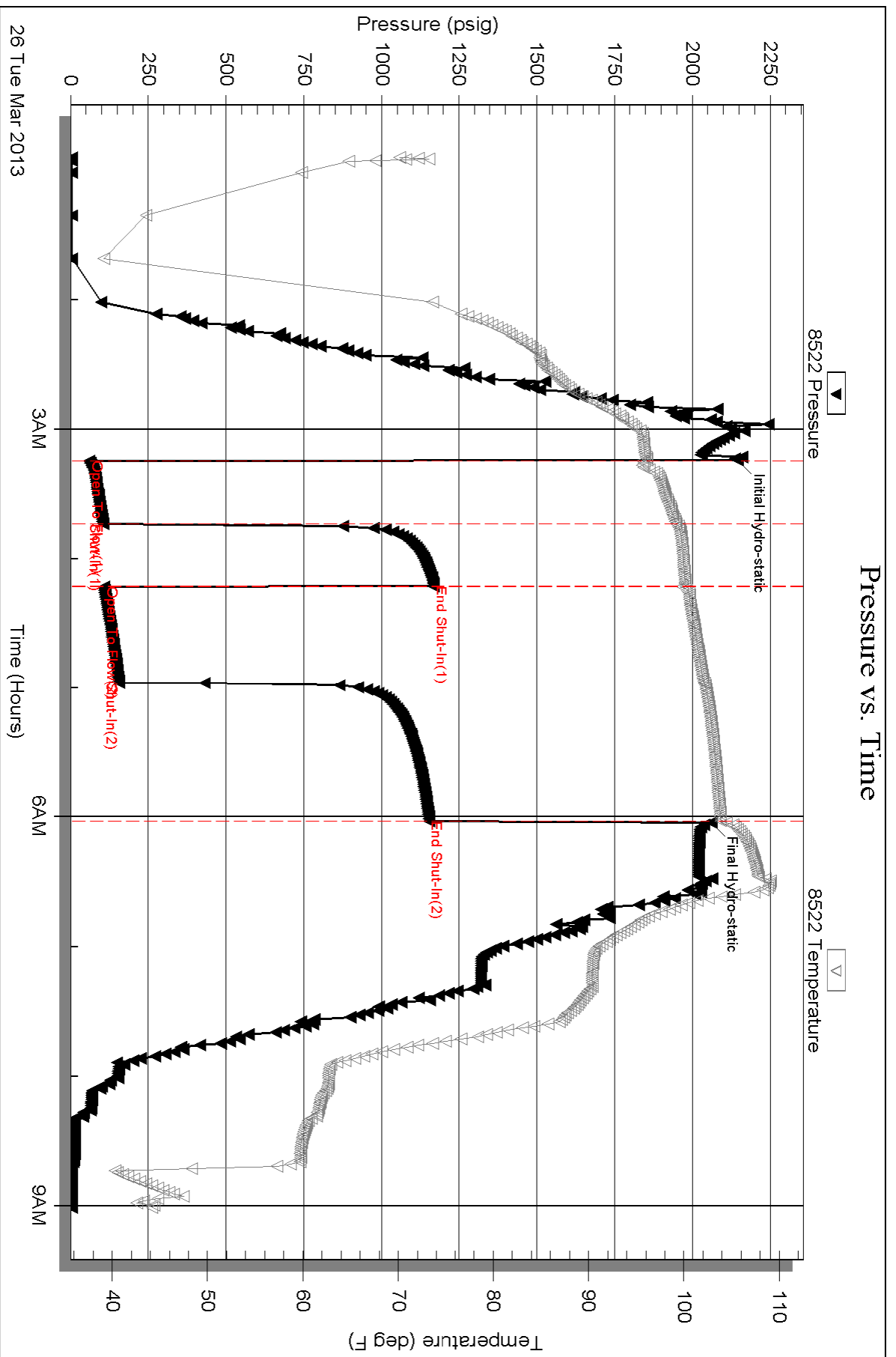
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .301 @ 36F = 49,000ppm





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

28 16s 34w Scott, Ks

202 W Main Street
Salem, Il 62881

Nightengale 1-28

Job Ticket: 49157

DST#: 6

ATTN: Tim Priest

Test Start: 2013.03.27 @ 01:36:00

GENERAL INFORMATION:

Formation: **Marmaton- A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:44:30

Time Test Ended: 09:32:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: **4416.00 ft (KB) To 4465.00 ft (KB) (TVD)**

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4465.00 ft (KB) (TVD)

3130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 32.00 psig @ 4417.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.27

End Date:

2013.03.27

Last Calib.: 2013.03.27

Start Time: 01:36:05

End Time:

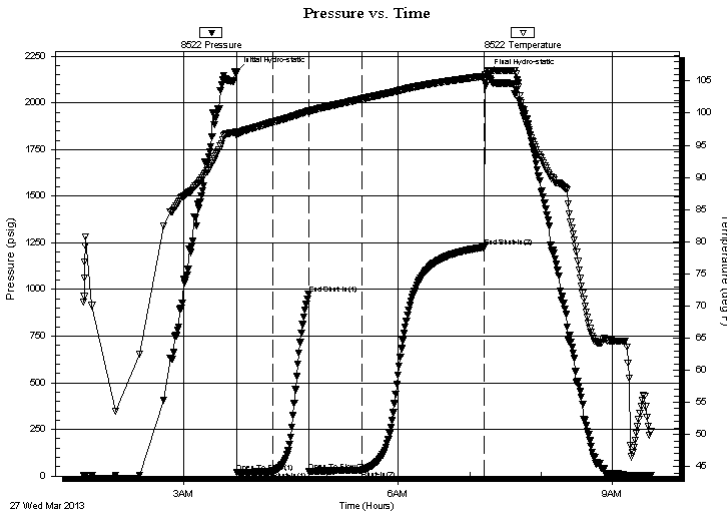
09:32:29

Time On Btm: 2013.03.27 @ 03:44:15

Time Off Btm: 2013.03.27 @ 07:14:45

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2165.58	97.04	Initial Hydro-static
1	19.28	96.53	Open To Flow (1)
31	24.27	98.57	Shut-In(1)
61	976.90	100.29	End Shut-In(1)
61	26.61	100.07	Open To Flow (2)
106	32.00	102.21	Shut-In(2)
208	1226.48	105.73	End Shut-In(2)
211	2157.71	106.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	ocm 15o 85m	0.05
15.00	oil 100o	0.07

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 16s 34w Scott, Ks

202 W Main Street
Salem, Il 62881

Nightengale 1-28

Job Ticket: 49157

DST#: 6

ATTN: Tim Priest

Test Start: 2013.03.27 @ 01:36:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 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: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	ocm 15o 85m	0.049
15.00	oil 100o	0.074

Total Length: 25.00 ft Total Volume: 0.123 bbl

Num Fluid Samples: 0

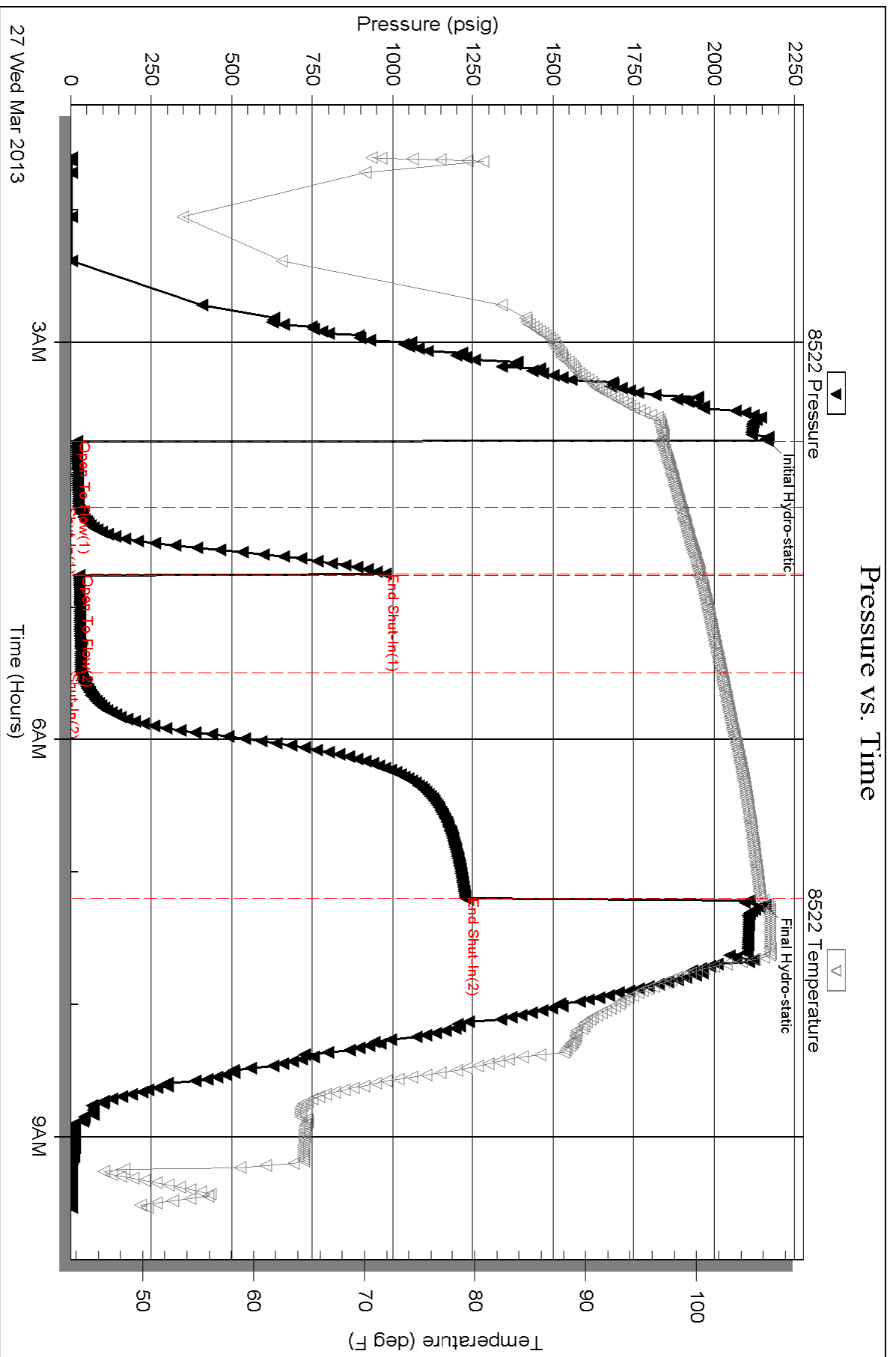
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

28 16s 34w Scott, Ks

202 W Main Street
Salem, Il 62881

Nightengale 1-28

Job Ticket: 49158

DST#: 7

ATTN: Tim Priest

Test Start: 2013.03.27 @ 20:12:30

GENERAL INFORMATION:

Formation: **Marmaton B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:21:00

Time Test Ended: 03:27:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4468.00 ft (KB) To 4492.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4492.00 ft (KB) (TVD)

3130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 96.76 psig @ 4469.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.27

End Date: 2013.03.28

Last Calib.: 2013.03.28

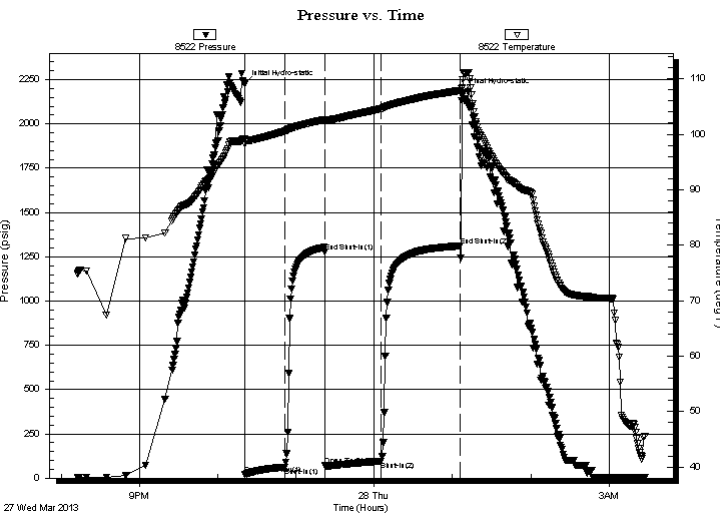
Start Time: 20:12:35

End Time: 03:27:29

Time On Btm: 2013.03.27 @ 22:20:45

Time Off Btm: 2013.03.28 @ 01:07:30

TEST COMMENT: IF: BOB @ 22 min.
IS: 1" Blow.
FF: BOB @ 18 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.03	99.25	Initial Hydro-static
1	21.94	98.32	Open To Flow (1)
31	62.79	100.57	Shut-In(1)
61	1275.94	102.62	End Shut-In(1)
62	70.92	102.23	Open To Flow (2)
105	96.76	104.61	Shut-In(2)
165	1311.38	107.87	End Shut-In(2)
167	2177.47	108.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gmco 20g 40m 40o	0.30
120.00	gmco 15g 10m 65o	0.90
20.00	gsmco 15g 5m 80o	0.20
0.00	340' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co, Inc

28 16s 34w Scott, Ks

202 W Main Street
Salem, Il 62881

Nightengale 1-28

Job Ticket: 49158

DST#: 7

ATTN: Tim Priest

Test Start: 2013.03.27 @ 20:12:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	gmco 20g 40m 40o	0.295
120.00	gmco 15g 10m 65o	0.897
20.00	gsmco 15g 5m 80o	0.199
0.00	340' GIP	0.000

Total Length: 200.00 ft

Total Volume: 1.391 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

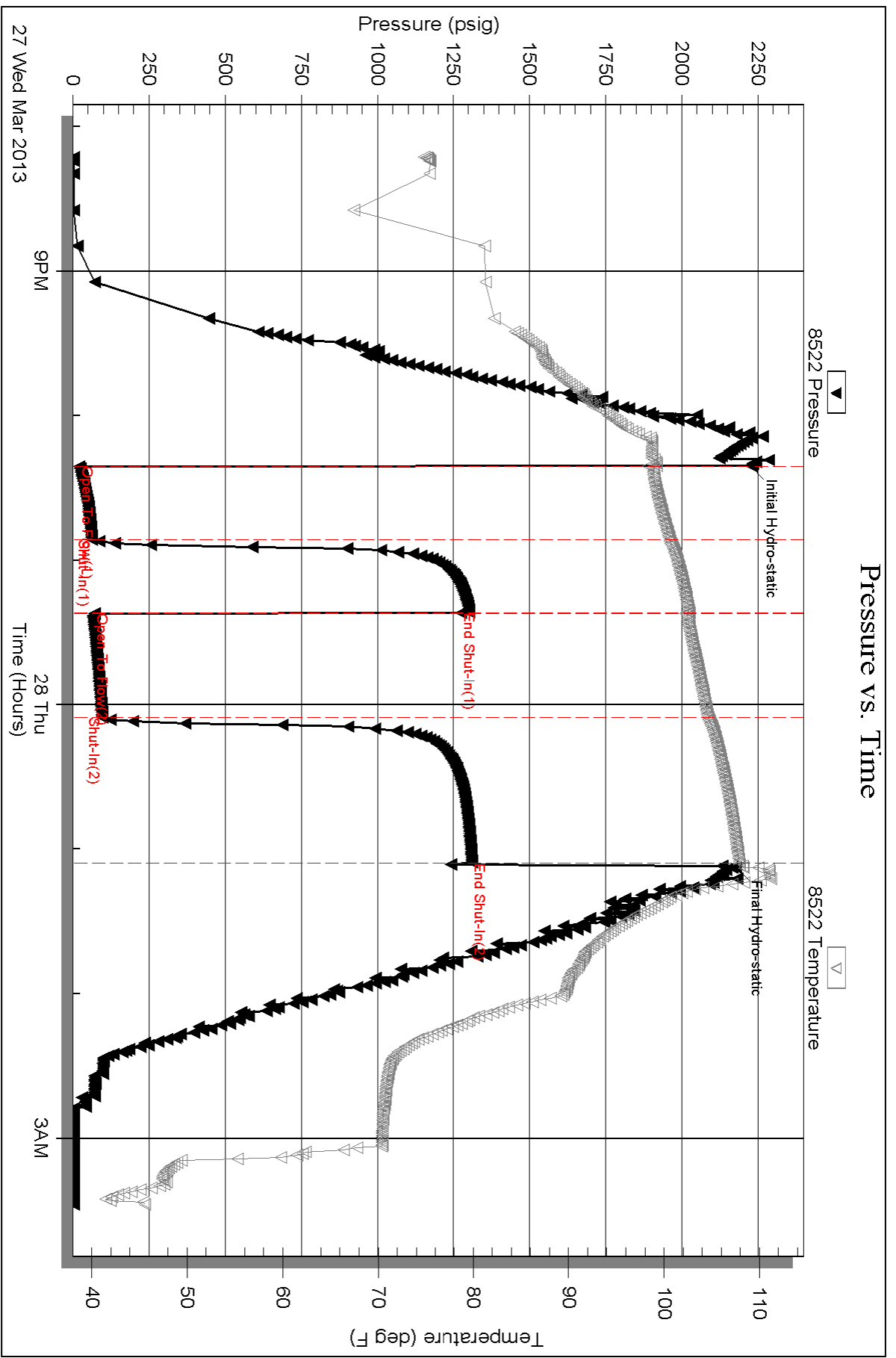
Recovery Comments:

Serial #: 8522

Outside Shakespeare Oil Co, Inc

Nightengale 1-28

DST Test Number: 7



Triobite Testing, Inc

Ref. No: 49158

Printed: 2013.03.28 @ 07:57:04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

28 16s 34w Scott, Ks

202 W Main Street
Salem, Il 62881

Nightengale 1-28

Job Ticket: 49159

DST#: 8

ATTN: Tim Priest

Test Start: 2013.03.29 @ 08:29:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:27:15

Time Test Ended: 14:31:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4640.00 ft (KB) To 4720.00 ft (KB) (TVD)

Total Depth: 4720.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3140.00 ft (KB)

3130.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 29.78 psig @ 4641.00 ft (KB)

Start Date: 2013.03.29

End Date: 2013.03.29

Start Time: 08:29:05

End Time: 14:31:29

Capacity: 8000.00 psig

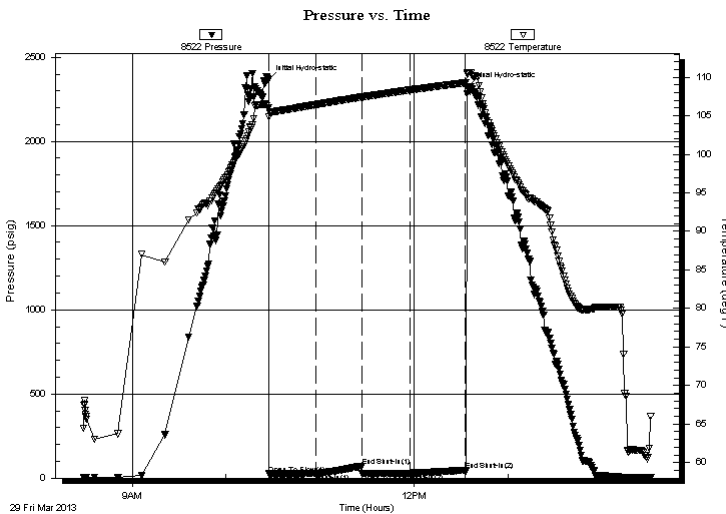
Last Calib.: 2013.03.29

Time On Btm: 2013.03.29 @ 10:27:00

Time Off Btm: 2013.03.29 @ 12:34:15

TEST COMMENT: IF: 1/4" blow , receeded to weak surface blow .
IS: No return.
FF: No blow .
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2366.20	106.05	Initial Hydro-static
1	24.52	104.82	Open To Flow (1)
31	26.68	106.46	Shut-In(1)
60	70.61	107.43	End Shut-In(1)
60	28.07	107.43	Open To Flow (2)
91	29.78	108.36	Shut-In(2)
126	47.39	109.29	End Shut-In(2)
128	2325.53	110.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MUD 100M (OIL SPOTS)	0.15

* 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 16s 34w Scott, Ks

202 W Main Street
Salem, Il 62881

Nightengale 1-28

Job Ticket: 49159

DST#: 8

ATTN: Tim Priest

Test Start: 2013.03.29 @ 08:29:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MUD 100M (OIL SPOTS)	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

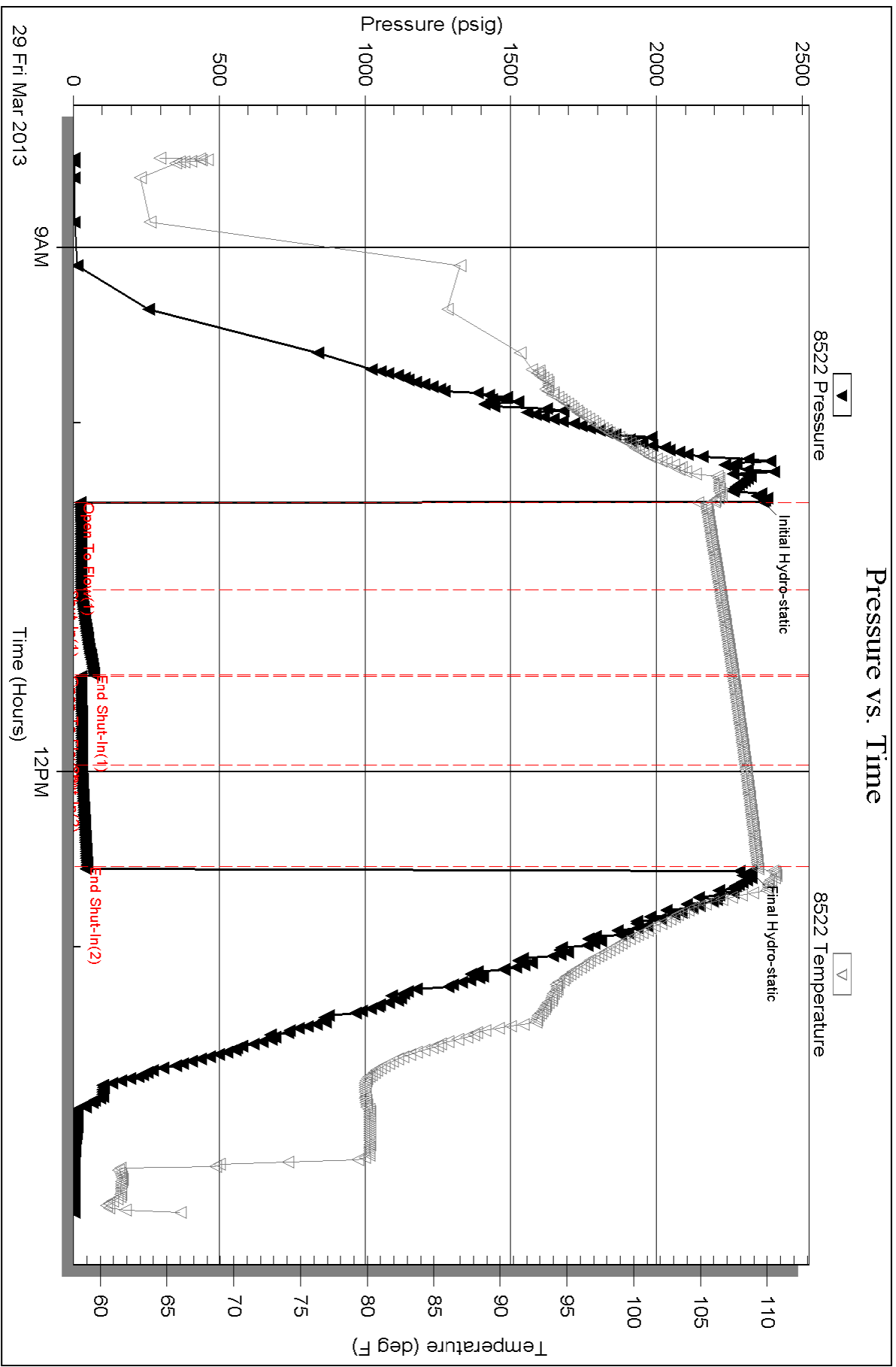
Recovery Comments:

Serial #: 8522

Outside Shakespeare Oil Co, Inc

Nightengale 1-28

DST Test Number: 8



GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPEAR OIL CO.** ELEVATIONS
 LEASE **Nightengale L-28** KG 3140'
 FIELD **Wildcat** DF _____
 LOCATION **9657 TMSL, 335' FEL** GL 3130'
 SEC **28** T15SP **16S** R0E **34W**
 COUNTY **Scott** STATE **Kansas** Measurements Are All From **KB**
 CONTRACTOR **HD Rig #2**
 SPUD **3-16-13** COMP _____ CASING
 RTD **4875'** LTD **4875'** CONDUCTOR **N/A**
 MUD UP **3600'** TYPE MUD **Chemical** SURFACE **8-5/8" @ 262'**
 SAMPLES SAVED FROM **3800'** to RTD PRODUCTION **4 1/2" @ 4875'**
 DRILLING TIME KEPT FROM **3800'** to RTD
 SAMPLES EXAMINED FROM **3800'** to RTD
 GEOLOGICAL SUPERVISION FROM **3900'** to RTD
 GEOLOGIST ON WELL **Tim Priest** Micro _____
 FORMATION TOPS _____ SAMPLE _____
 Amyville **2445 (-695')** **3988 (-848')**
 Heebner **3988 (-846')** **4028 (-888')**
 Jansing **4028 (-888')** **4308 (-1169')**
 SARC **4308 (-1169')** **4400 (-1260')**
 Fort Scott **4400 (-1260')** **4574 (-1434')** **4575 (-1435')**
 Cherokee Shale **4574 (-1434')** **4603 (-1463')** **4796 (-1656')**

REMARKS Due to the results of DSTs it was decided to set production casing to further test the well.

Respectfully Submitted,
 Tim Priest
 Petroleum Geologist

API #15-171-20930-00-00

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

May 22, 2013

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

Re: ACO1
API 15-171-20930-00-00
Nightengale 1-28
NE/4 Sec.28-16S-34W
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