



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1093963
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: _____

1093963

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
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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	Ottley 3-16
Doc ID	1093963

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Ottley 3-16
Doc ID	1093963

Tops

Name	Top	Datum
Base Anhydrite	2244	+529
Heebner	3725	-952
Lansing	3766	-993
Muncie Creek	3924	-1151
Stark Shale	4010	-1237
Hushpuckney	4044	-1271
BKC	4094	-1321
Pawnee	4225	-1452
Cherokee Shale	4307	-1534
Johnson	4351	-1580
Mississippian	4420	-1647



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 132345
Invoice Date: Aug 15, 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	Ottley #3-16	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 15, 2012	9/14/12

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Class A Common	16.25	2,681.25
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
178.42	SER	Cubic Feet	2.10	374.68
179.08	SER	Ton Mileage	2.35	420.84
1.00	SER	Surface	1,125.00	1,125.00
22.00	SER	Pump Truck Mileage	7.00	154.00
1.00	SER	Manifold Swedge Rental	200.00	200.00
22.00	SER	Light Vehicle Mileage	4.00	88.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Type Flipse		
1.00	OPER ASSIST	Jeremy Sterger		

surface cementing
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

\$ 1091.34

ONLY IF PAID ON OR BEFORE
Sep 9, 2012

Subtotal	5,456.72
Sales Tax	241.35
Total Invoice Amount	5,698.07
Payment/Credit Applied	
TOTAL	5,698.07

DW

ALLIED OIL & GAS SERVICES, LLC 056671

Federal Tax I.D.# 20-5976804

RHMITTO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Oakley

DATE <i>8-15-12</i>	SEC. <i>16</i>	TWP. <i>14</i>	RANGE <i>32</i>	CALLED OUT	ON LOCATION	JOB START <i>8-16-12</i> <i>2:30</i> AM	JOB FINISH <i>3:00</i> AM
LEASE <i>Ottley</i>	WELL # <i>3-16</i>	LOCATION <i>Oakley 20.8-1/2-into</i>			COUNTY <i>Logan</i>	STATE <i>KS</i>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR *HD #2*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* TD. *226'*

CASING SIZE *8 5/8* DEPTH *226'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRIS. MAX MINIMUM

MEAS. LINE SHOBJOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *13.50*

OWNER *Same*

CEMENT AMOUNT ORDERED *165 SKs Com. 3% @ 2.286 gal*

COMMON	<i>165 SKs</i>	@ <i>\$16.25</i>	<i>\$2681.25</i>
POZMIX		@	
OIL	<i>3 SKs</i>	@ <i>\$21.25</i>	<i>\$63.75</i>
CHLORIDE	<i>6 SKs</i>	@ <i>\$158.20</i>	<i>\$949.20</i>
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER *Drum Loader 1*

428-281 HELPER *Tyler Flipse 2*

BULK TRUCK

540-287 DRIVER *Jerney Stenger 3*

BULK TRUCK

DRIVER

HANDLING	<i>178.42 x</i>	@ <i>\$1.20</i>	<i>\$214.10</i>
MILEAGE	<i>8.14 x 2.2 x</i>	@ <i>\$12.25</i>	<i>\$200.84</i>
			TOTAL <i>\$3889.24</i>

REMARKS:

mix 165 SKs Cement

Displace with water

Cement did circulate

179.08

SERVICE

DEPTH OF JOB	<i>226'</i>	
PUMP TRUCK CHARGE		<i>\$1125.20</i>
EXTRA FOOTAGE	@	
MILEAGE	<i>22</i>	@ <i>\$7.00</i> <i>\$154.00</i>
MANIFOLD <i>Switche</i>	@	<i>\$202.00</i>
<i>L.V. mileage</i>	@ <i>\$4.00</i>	<i>\$88.00</i>

CHARGE TO: *Shakespeare Oil Co.*

STREET

CITY STATE ZIP

TOTAL *\$1567.20*

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

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

PRINTED NAME *Brad Roberts*

SIGNATURE *Brad Roberts*

TOTAL

SALES TAX (if Any)	<i>241.34</i>
TOTAL CHARGES	<i>5,456.72</i>
DISCOUNT <i>20</i>	<i>1091.34</i> IF PAID IN 30 DAYS

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 132540
Invoice Date: Aug 30, 2012
Page: 1

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



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Shak	Ottley #-16 <i>3-16</i>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Aug 30, 2012	9/29/12

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
211.43	SER	Ton Mileage	2.35	496.88
1.00	SER	Plug to Abandon	1,250.00	1,250.00
23.00	SER	Pump Truck Mileage	7.00	161.00
23.00	SER	Light Vehicle Mileage	4.00	92.00
1.00	EQP	8.5/8 Wooden Plug	92.00	92.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McHghy		
1.00	OPER ASSIST	Adam Holcomb		

INT

Plug 10502-S

RECEIVED
SEP 10 2012

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

\$ 1384.11

ONLY IF PAID ON OR BEFORE
Sep 24, 2012

Subtotal	5,536.44
Sales Tax	431.84
Total Invoice Amount	5,968.28
Payment/Credit Applied	
TOTAL	5,968.28

DW

ALLIED CEMENTING CO., LLC. 044132

Federal Tax I.D.# 20-5976804

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

SERVICE POINT:

Dakley H.

DATE <i>8/30/12</i>	SEC. <i>16</i>	TWP. <i>14</i>	RANGE <i>32</i>	CALLED OUT	ON LOCATION	JOB START <i>7:00 AM</i>	JOB FINISH <i>2:00 PM</i>
LEASE <i>otley</i>	WELL # <i>3-110</i>	LOCATION <i>Dakley 205 2 1/2 W 20</i>		COUNTY <i>Logan</i>	STATE <i>KS</i>		
OLD OR NEW (Circle one)							

CONTRACTOR *HO*

TYPE OF JOB *PTA*

HOLE SIZE *7 7/8* T.D.

CASINO SIZE *8 7/8* DEPTH

TUDING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX DEPTH

MEAS. LINE MINIMUM

CEMENT LEFT IN CSG. SHOE JOINT

PERFS.

DISPLACEMENT

OWNER *Sine*

CEMENT AMOUNT ORDERED *205 60/40 40 gal*

1/4 P.C. Seal

COMMON	<i>123</i>	@ <i>16.25</i>	<i>1992.25</i>
POZMIX	<i>82</i>	@ <i>8.50</i>	<i>697.00</i>
GHL	<i>7</i>	@ <i>21.25</i>	<i>148.75</i>
CHLORIDE		@	
ASC		@	
<i>Flo Seal</i>	<i>51 lb</i>	@ <i>2.20</i>	<i>117.20</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Alan Ryan*

HELPER *Wayne McGibay*

BULK TRUCK DRIVER *396 - Adam Hickman*

BULK TRUCK DRIVER

HANDLING *220.17 CF* @ *2.10* *462.36*

MILEAGE *211.43* / mile @ *9.19* *1946.88*

TOTAL *3941.44*

REMARKS:

82.50' - 25 SK

12.75' - 100 SK

2.75' - 40 SK

40' - 10 SK

Hole 30 SK

SERVICE

DEPTH OF JOB *8225*

PUMP TRUCK CHARGE *1250.00*

EXTRA FOOTAGE @

MILEAGE *23* @ *7.00* *161.00*

MANIFOLD *23* @ *4.00* *92.00*

Whistle @

TOTAL *1503.00*

Thank You

Alan Wayne Ryan

CHARGE TO: *Shakespeare*

TREET

ITY STATE ZIP

PLUG & FLOAT EQUIPMENT

8" R Wooder Plug @ *92.00*

TOTAL *92.00*

I, Allied Cementing Co., L.L.C.
do hereby request to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as listed. The above work was one 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) *431.84*

TOTAL CHARGES *5536.44*

DISCOUNT *2.00* *1107.28* IF PAID IN 30 DAYS

PRINTED NAME *William S. Smith*

SIGNATURE *William S. Smith*



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

16-14s-32w Logan,KS

202 W. Main St.
Salem IL 62881

Ottley # 3-16

Job Ticket: 48827

DST#: 1

ATTN: Tim Priest

Test Start: 2012.08.21 @ 10:56:05

GENERAL INFORMATION:

Formation: **LKC " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:24:30

Time Test Ended: 18:05:14

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 40

Interval: 3783.00 ft (KB) To 3820.00 ft (KB) (TVD)

Reference Elevations: 2773.00 ft (KB)

Total Depth: 3820.00 ft (KB) (TVD)

2763.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 260.24 psig @ 3784.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.21

End Date:

2012.08.21

Last Calib.:

2012.08.21

Start Time: 10:56:05

End Time:

18:05:14

Time On Btm:

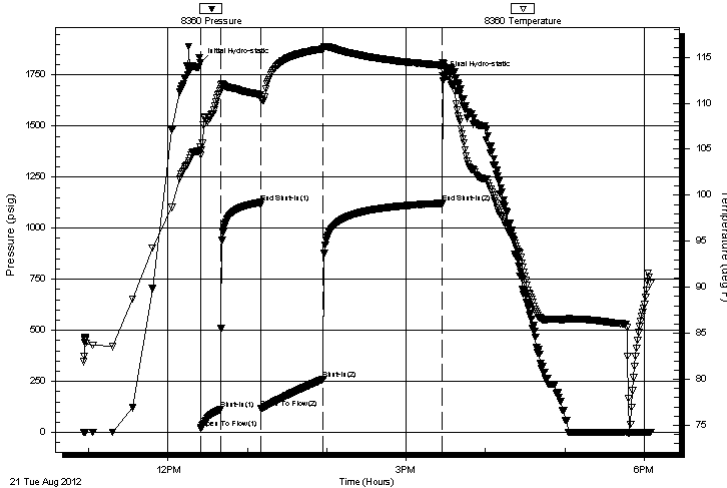
2012.08.21 @ 12:24:15

Time Off Btm:

2012.08.21 @ 15:27:29

TEST COMMENT: IF- Surface Blow Built to BOB in 9min
IS- No Blow
FF- Surface Blow Built to BOB in 10min
FS- No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1811.85	105.29	Initial Hydro-static
1	18.45	104.34	Open To Flow (1)
16	113.53	111.58	Shut-In(1)
46	1126.13	110.95	End Shut-In(1)
46	116.58	110.45	Open To Flow (2)
93	260.24	115.88	Shut-In(2)
183	1122.47	114.12	End Shut-In(2)
184	1747.36	114.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MCW 7%w 93%w	1.98
180.00	MCW 15%w 85%w	2.52
110.00	WCM 32%w 68%w with Few Oil Spots	1.54

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

16-14s-32w Logan,KS

202 W. Main St.
Salem IL 62881

Ottley # 3-16

Job Ticket: 48827

DST#: 1

ATTN: Tim Priest

Test Start: 2012.08.21 @ 10:56:05

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:

33000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 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
240.00	MCW 7% <i>m</i> 93% <i>w</i>	1.982
180.00	MCW 15% <i>m</i> 85% <i>w</i>	2.525
110.00	WCM 32% <i>w</i> 68% <i>m</i> with Few Oil Spots	1.543

Total Length: 530.00 ft Total Volume: 6.050 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .178 @ 98f = 33000

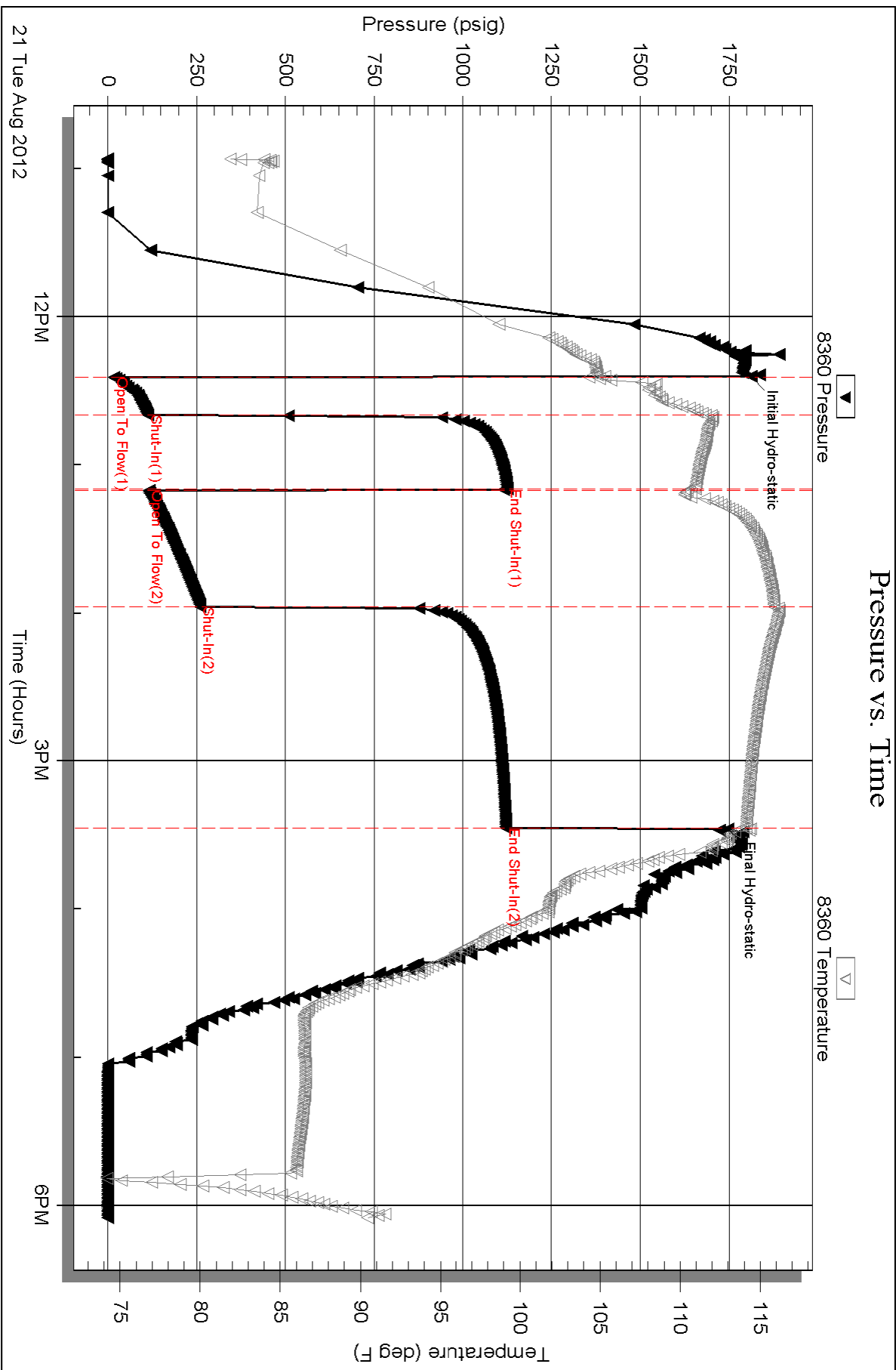
Serial #: 8360

Inside

Shakespeare Oil Co. Inc

Oilley # 3-16

DST Test Number: 1





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc
 202 W. Main St.
 Salem IL 62881
 ATTN: Tim Priest

16-14s-32w Logan Co. KS
Ottely # 3-16
 Job Ticket: 48828 **DST#: 2**
 Test Start: 2012.08.22 @ 03:12:00

GENERAL INFORMATION:

Formation: **LKC "C - D"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 05:13:55 Tester: Will MacLean
 Time Test Ended: 10:30:39 Unit No: 40
Interval: 3816.00 ft (KB) To 3857.00 ft (KB) (TVD)
 Reference Elevations: 2773.00 ft (KB)
 Total Depth: 3857.00 ft (KB) (TVD) 2763.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

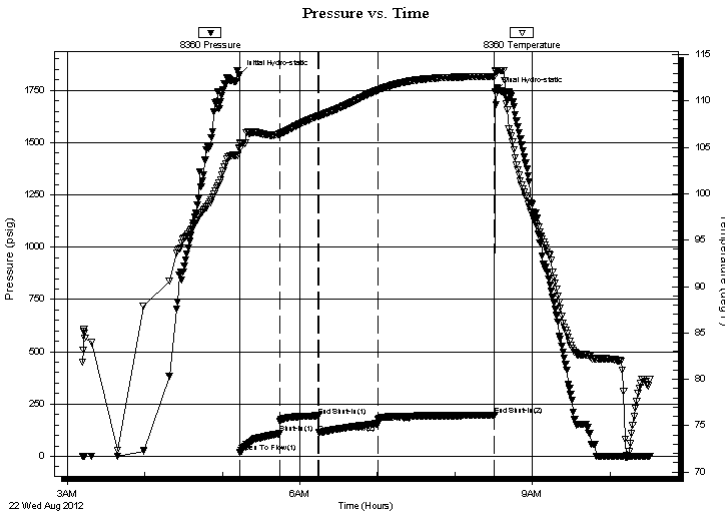
Serial #: 8360

Inside

Press @ Run Depth: 156.34 psig @ 3821.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.22 End Date: 2012.08.22 Last Calib.: 2012.08.22
 Start Time: 03:12:00 End Time: 10:30:39 Time On Btm: 2012.08.22 @ 05:13:40
 Time Off Btm: 2012.08.22 @ 08:31:09

TEST COMMENT: IF- Surface Blow Built to BOB in 17min
 IS- No Blow
 FF- Weak Surface Blow Built to 6"
 FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.13	105.51	Initial Hydro-static
1	20.56	104.86	Open To Flow (1)
31	108.86	106.44	Shut-In(1)
61	193.81	108.36	End Shut-In(1)
61	112.42	108.35	Open To Flow (2)
107	156.34	111.16	Shut-In(2)
197	195.71	112.62	End Shut-In(2)
198	1742.43	113.22	Final Hydro-static

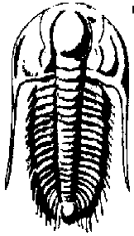
Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW 18%m 82%w	0.59
60.00	MW 50%m 50%w with Skim of Oil on	0.55
130.00	OMCW 1%oil 22%m 77%w	1.82

* 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

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottely # 3-16

Job Ticket: 48828

DST#: 2

ATTN: Tim Priest

Test Start: 2012.08.22 @ 03:12:00

GENERAL INFORMATION:

Formation: **LKC " C - D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:13:55

Time Test Ended: 10:30:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 3816.00 ft (KB) To 3857.00 ft (KB) (TVD)

Reference Elevations: 2773.00 ft (KB)

Total Depth: 3857.00 ft (KB) (TVD)

2763.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8353 Outside

Press @ Run Depth: psig @ 3821.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.22 End Date: 2012.08.22

Last Calib.: 2012.08.22

Start Time: 03:12:15 End Time: 10:30:45

Time On Btm:

Time Off Btm:

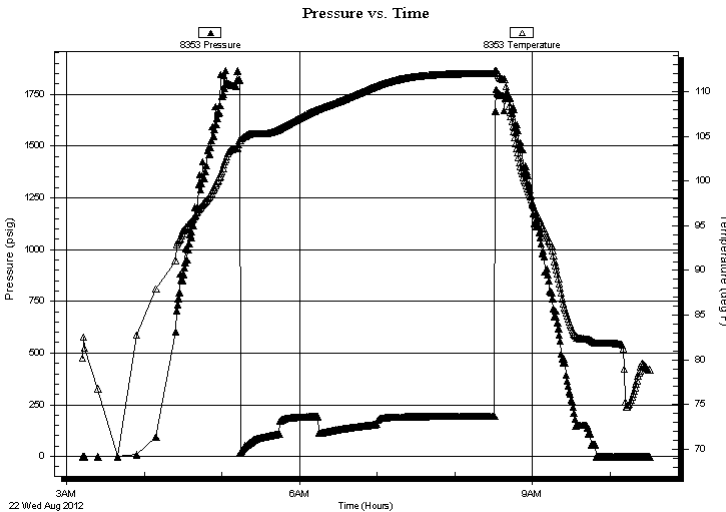
TEST COMMENT: IF- Surface Blow Built to BOB in 17min

IS- No Blow

FF- Weak Surface Blow Built to 6"

FS- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW 18%m 82%w	0.59
60.00	MW 50%m 50%w with Skim of Oil on	0.55
130.00	OMCW 1%oil 22%m 77%w	1.82

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

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottely # 3-16

Job Ticket: 48828

DST#: 2

ATTN: Tim Priest

Test Start: 2012.08.22 @ 03:12:00

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:

36000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 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
120.00	MCW 18%m 82%w	0.590
60.00	MW 50%m 50%w with Skim of Oil on Top	0.550
130.00	OMCW 1%oil 22%m 77%w	1.824

Total Length: 310.00 ft Total Volume: 2.964 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .217 @ 78f = 36000

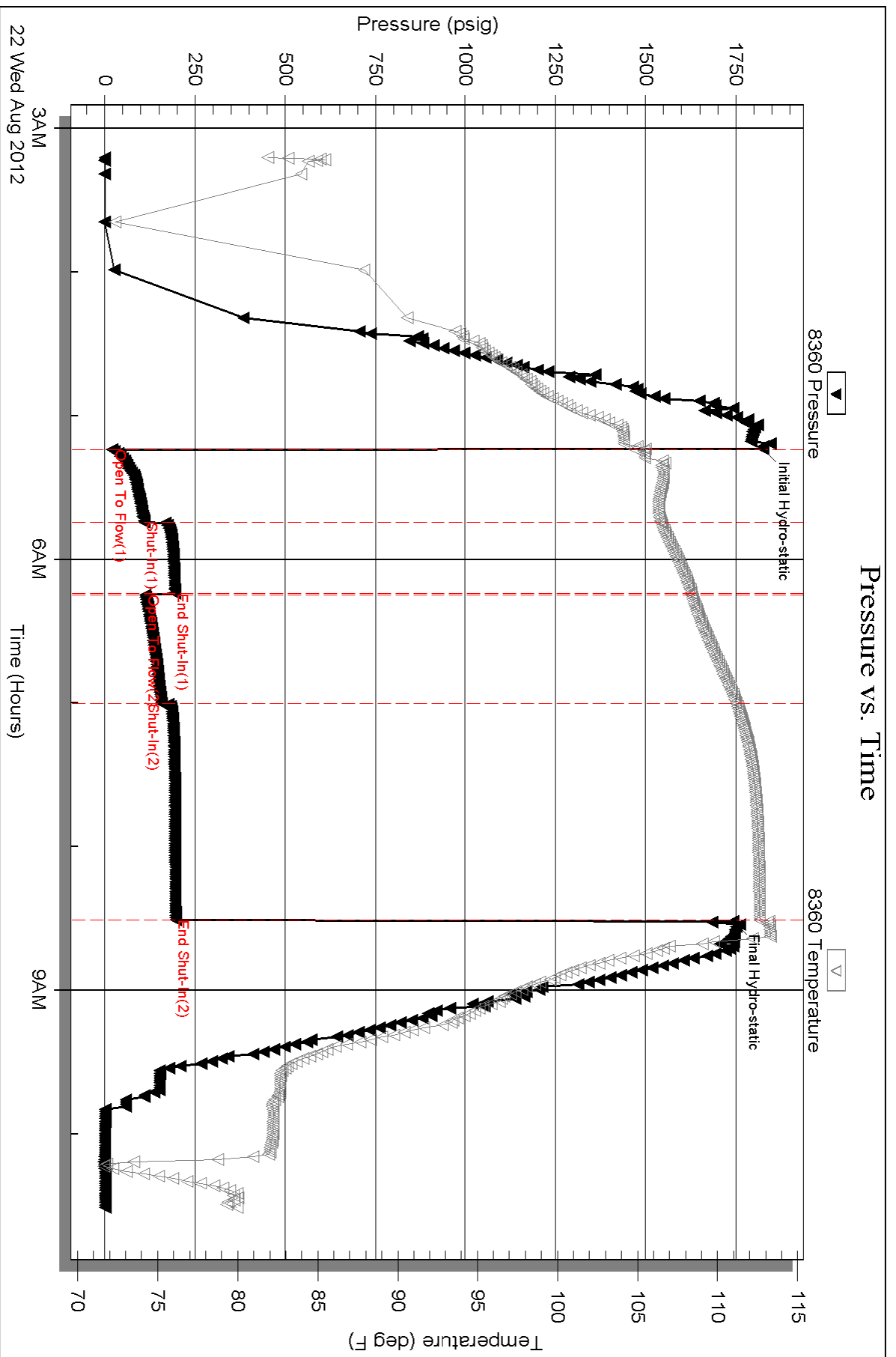
Serial #: 8360

Inside

Shakespeare Oil Co. Inc

Otley # 3-16

DST Test Number: 2

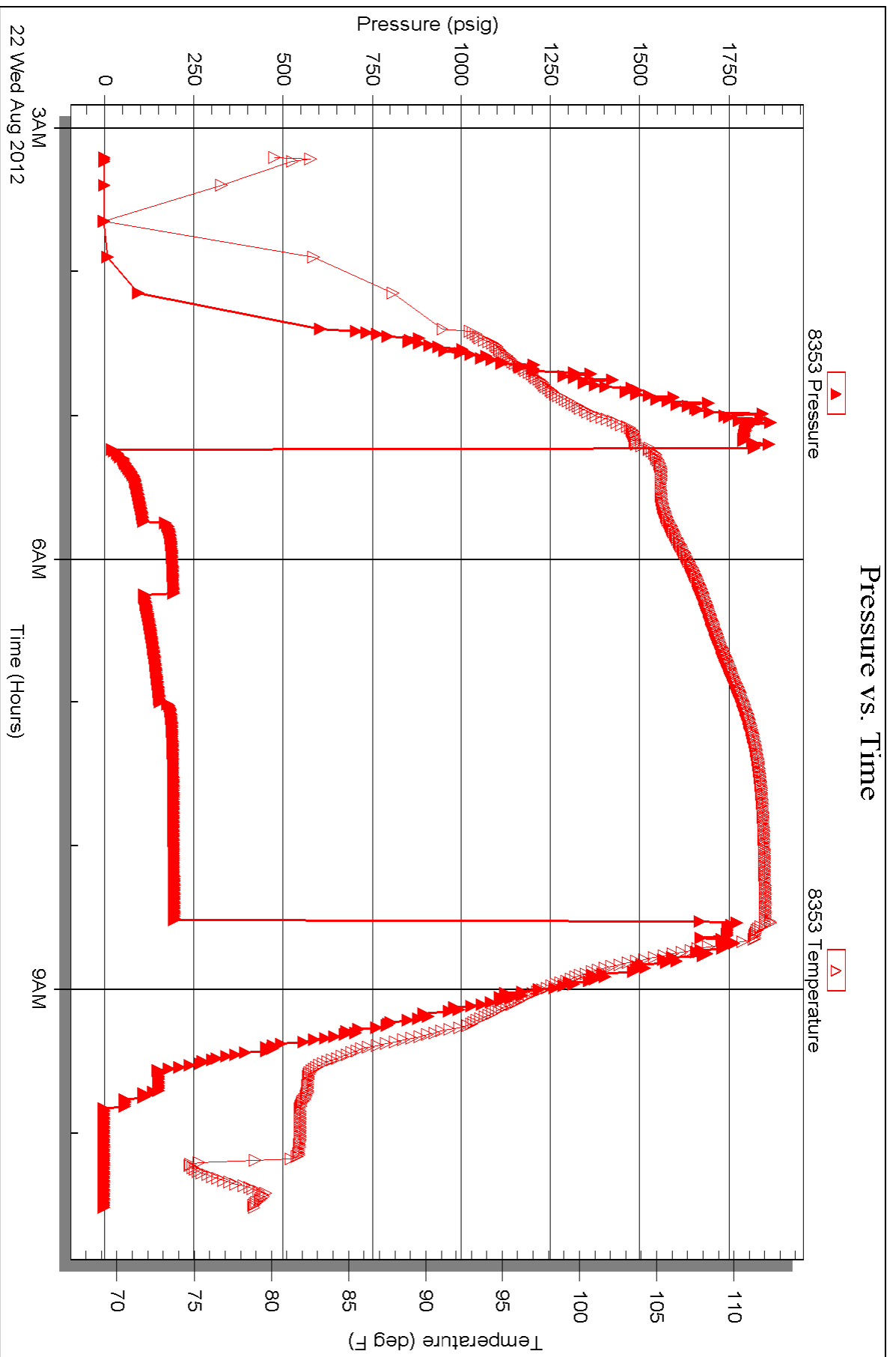


Serial #: 8353

Outside Shakespeare Oil Co. Inc

Oltey # 3-16

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottley # 3-16

Job Ticket: 48829

DST#: 3

ATTN: Tim Priest

Test Start: 2012.08.22 @ 19:14:00

GENERAL INFORMATION:

Formation: **LKC " E - F "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:34:25

Time Test Ended: 01:29:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 3863.00 ft (KB) To 3878.00 ft (KB) (TVD)

Reference Elevations: 2773.00 ft (KB)

Total Depth: 3878.00 ft (KB) (TVD)

2763.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 74.81 psig @ 3865.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.22

End Date:

2012.08.23

Last Calib.:

2012.08.23

Start Time:

19:14:00

End Time:

01:29:09

Time On Btm:

2012.08.22 @ 20:34:10

Time Off Btm:

2012.08.22 @ 23:24:25

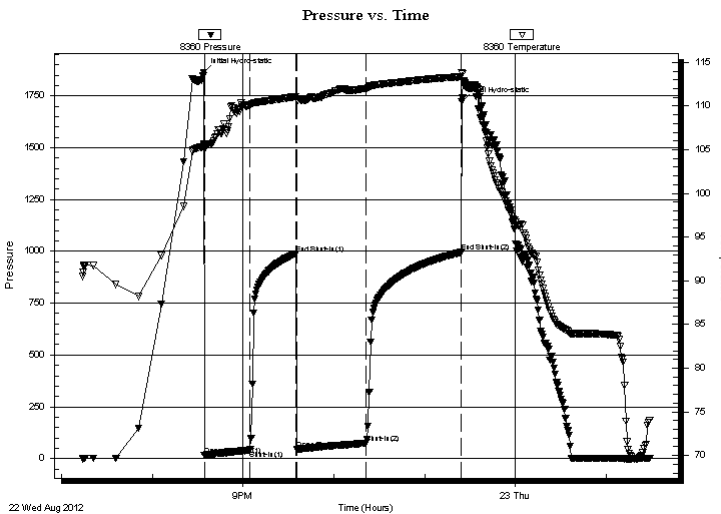
TEST COMMENT: IF- Weak Surface Blow 1/4"

IS- No Blow

FF- Weak Surface Blow Built to 3/4"

FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1864.35	105.64	Initial Hydro-static
1	15.30	105.07	Open To Flow (1)
31	40.80	110.12	Shut-In(1)
61	989.75	111.07	End Shut-In(1)
62	44.51	110.70	Open To Flow (2)
108	74.81	112.01	Shut-In(2)
170	995.56	113.35	End Shut-In(2)
171	1722.29	113.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OMCW 1%oil 16%m 83%w	0.30
70.00	OMCW 4%oil 20%m 76%w	0.34

* 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

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottley # 3-16

Job Ticket: 48829

DST#: 3

ATTN: Tim Priest

Test Start: 2012.08.22 @ 19:14:00

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:

31000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.57 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 bbf
60.00	OMCW 1%oil 16%m 83%w	0.295
70.00	OMCW 4%oil 20%m 76%w	0.344

Total Length: 130.00 ft Total Volume: 0.639 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .211 @ 73f = 31000

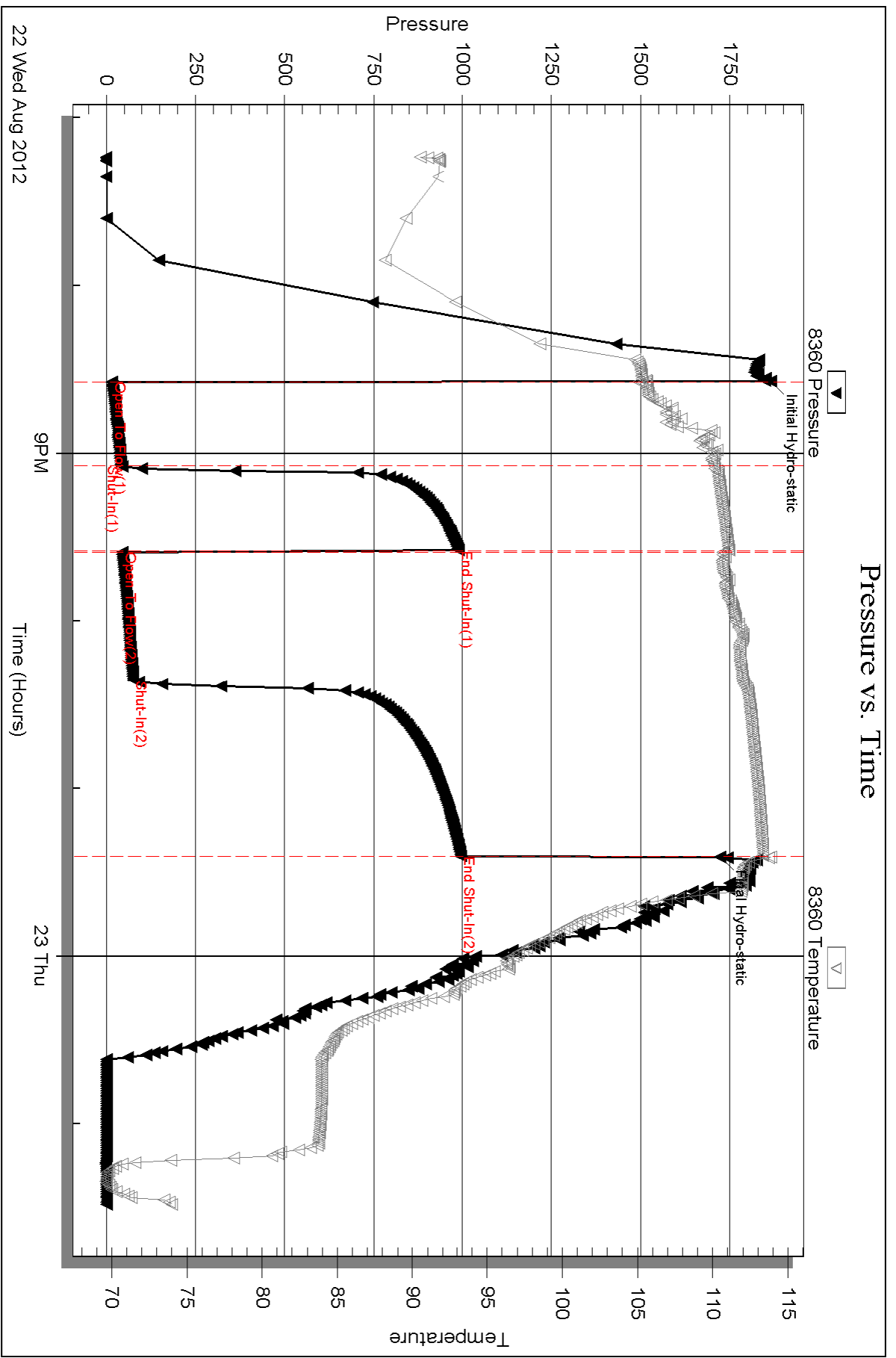
Serial #: 8360

Inside

Shakespeare Oil Co. Inc

Oilley # 3-16

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottely # 3-16

Job Ticket: 48830

DST#: 4

ATTN: Tim Priest

Test Start: 2012.08.23 @ 13:44:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:21:55

Time Test Ended: 19:50:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 3933.00 ft (KB) To 3960.00 ft (KB) (TVD)

Reference Elevations: 2773.00 ft (KB)

Total Depth: 3960.00 ft (KB) (TVD)

2763.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 59.31 psig @ 3934.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.23

End Date:

2012.08.23

Last Calib.:

2012.08.23

Start Time: 13:44:00

End Time:

19:50:24

Time On Btm:

2012.08.23 @ 15:21:40

Time Off Btm:

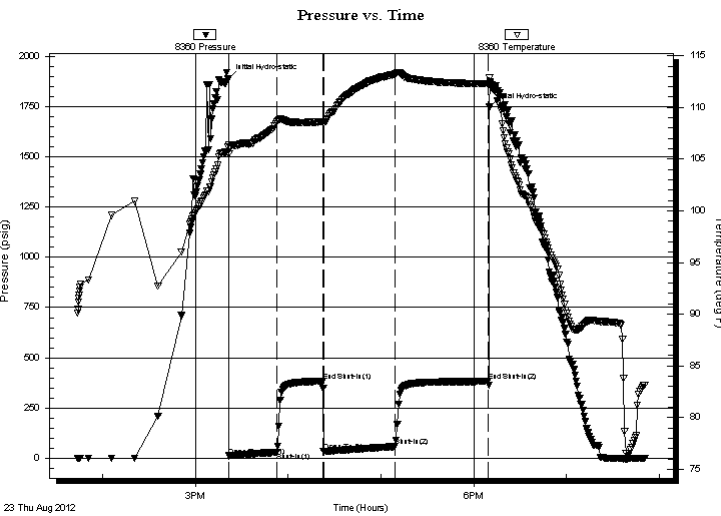
2012.08.23 @ 18:10:09

TEST COMMENT: IF- Weak Surface Blow Built to 1/2"

IS- No Blow

FF- Weak Surface Blow Built to 1"

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1889.96	106.41	Initial Hydro-static
1	12.91	105.50	Open To Flow (1)
31	31.31	108.60	Shut-In(1)
61	383.74	108.63	End Shut-In(1)
62	34.21	108.47	Open To Flow (2)
108	59.31	113.25	Shut-In(2)
168	382.89	112.32	End Shut-In(2)
169	1746.26	112.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW 26%w 74%m	0.30
20.00	WCM 45%w 55%m with Skim of Oil	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

Shakespeare Oil Co. Inc

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottely # 3-16

Job Ticket: 48830

DST#: 4

ATTN: Tim Priest

Test Start: 2012.08.23 @ 13:44:00

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:

33000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.70 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 bbf
60.00	MCW 26%w 74%w	0.295
20.00	WCM 45%w 55%w with Skim of Oil	0.098

Total Length: 80.00 ft Total Volume: 0.393 bbf

Num Fluid Samples: 0

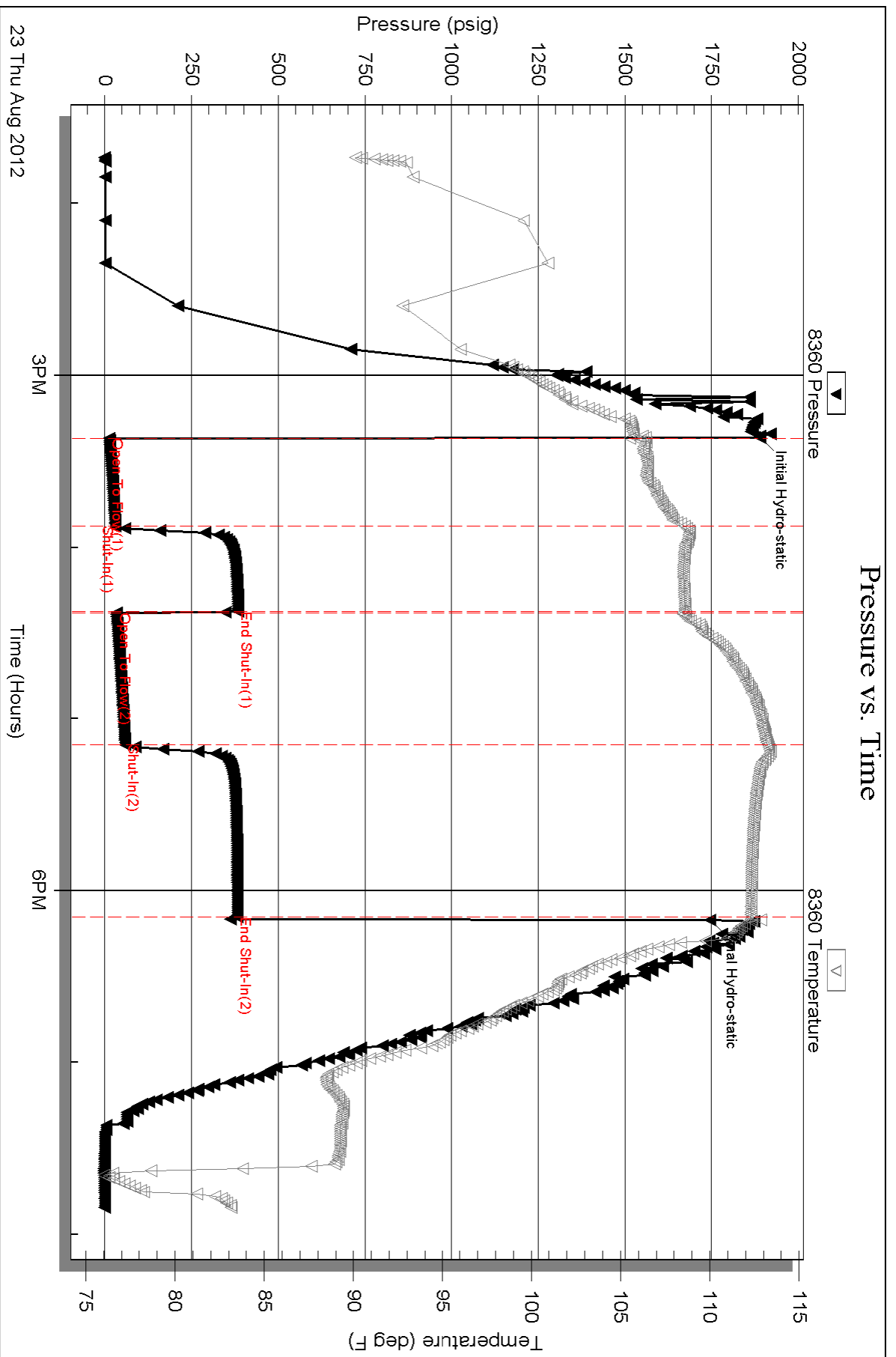
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .174 @ 82f = 33000





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottley # 3-16

Job Ticket: 48831

DST#: 5

ATTN: Tim Priest

Test Start: 2012.08.24 @ 23:26:00

GENERAL INFORMATION:

Formation: **LKC " I "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:43:40

Time Test Ended: 07:03:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 3959.00 ft (KB) To 3990.00 ft (KB) (TVD)

Reference Elevations: 2773.00 ft (KB)

Total Depth: 3990.00 ft (KB) (TVD)

2763.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 523.12 psig @ 3964.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.24

End Date:

2012.08.25

Last Calib.:

2012.08.25

Start Time: 23:26:00

End Time:

07:03:54

Time On Btm:

2012.08.25 @ 01:43:25

Time Off Btm:

2012.08.25 @ 04:18:54

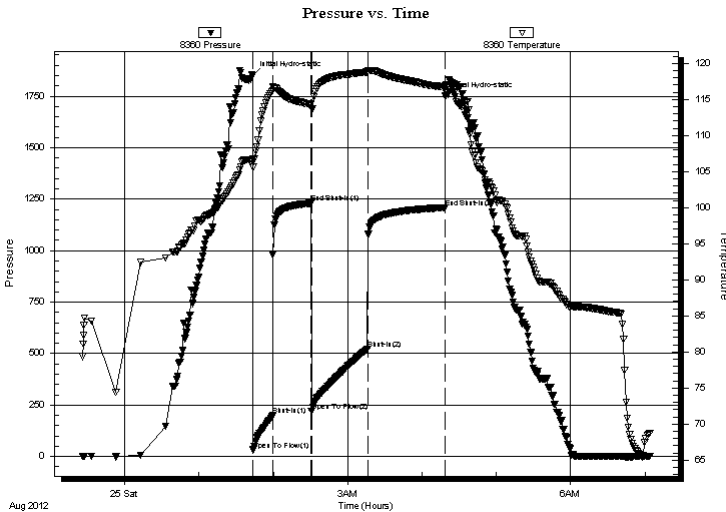
TEST COMMENT: IF- Surface Blow Built to BOB in 4 1/2min

IS- No Blow

FF- Surface Blow Built to BOB in 7min

FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.00	106.70	Initial Hydro-static
1	32.09	105.59	Open To Flow (1)
16	198.91	116.24	Shut-In(1)
47	1230.30	114.31	End Shut-In(1)
48	219.15	113.76	Open To Flow (2)
93	523.12	118.80	Shut-In(2)
156	1209.15	116.66	End Shut-In(2)
156	1750.19	116.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
840.00	MCW 4% <i>m</i> 96% <i>w</i>	10.40
240.00	MCW 33% <i>m</i> 67% <i>w</i>	3.37
20.00	WCM 41% <i>w</i> 59% <i>m</i> with a Few Oil Sp	0.28

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

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottley # 3-16

Job Ticket: 48831

DST#: 5

ATTN: Tim Priest

Test Start: 2012.08.24 @ 23:26:00

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:

36000 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.92 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
840.00	MCW 4% <i>m</i> 96% <i>w</i>	10.398
240.00	MCW 33% <i>m</i> 67% <i>w</i>	3.367
20.00	WCM 41% <i>w</i> 59% <i>m</i> with a Few Oil Spots	0.281

Total Length: 1100.00 ft Total Volume: 14.046 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .203 @ 66f = 36000

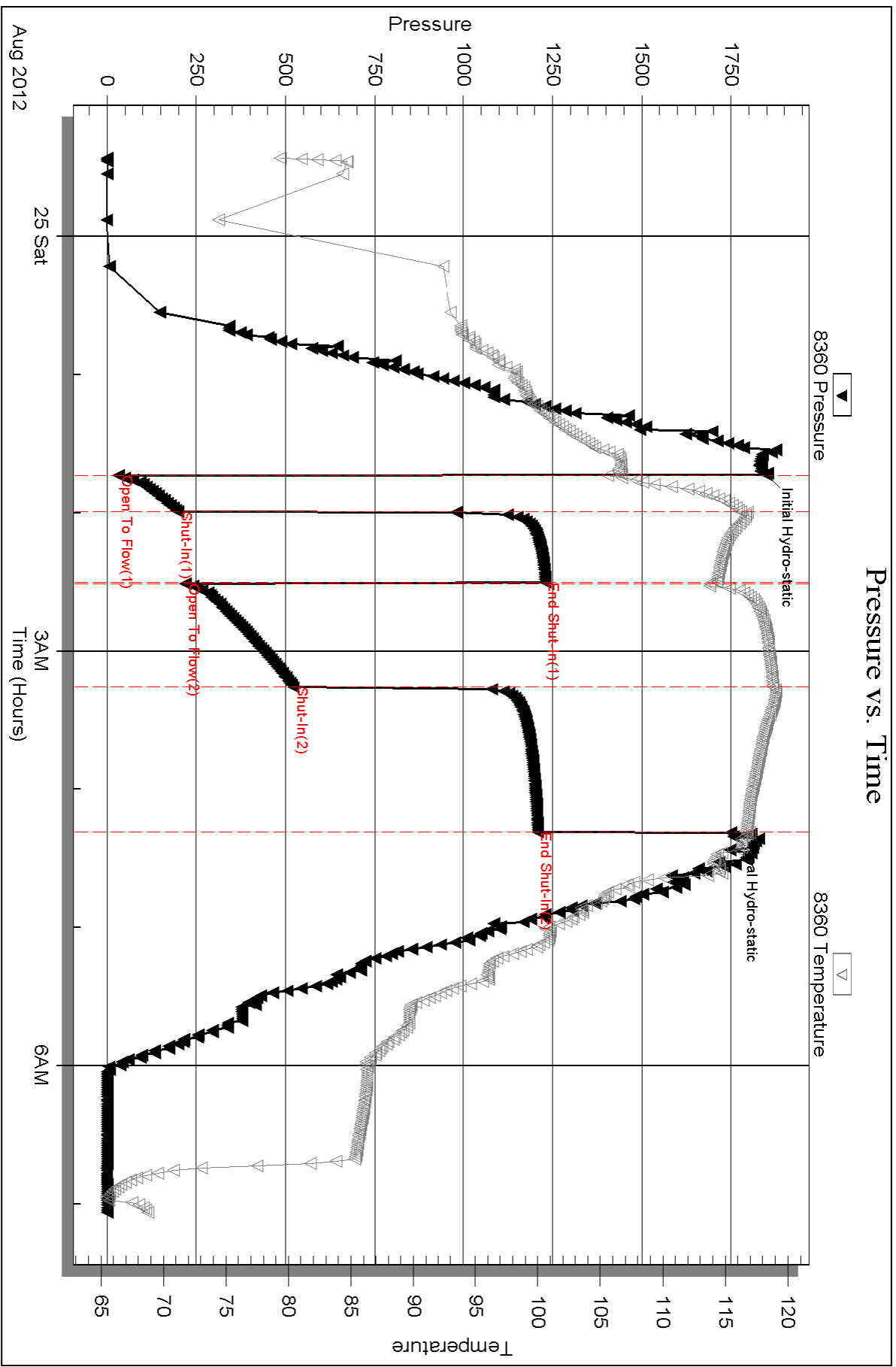
Serial #: 8360

Inside

Shakespeare Oil Co. Inc

Oilley # 3-16

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 48831

Printed: 2012.08.29 @ 13:10:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottely # 3-16

Job Ticket: 48832

DST#: 6

ATTN: Tim Priest

Test Start: 2012.08.25 @ 14:34:00

GENERAL INFORMATION:

Formation: **LKC " J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:03:40

Time Test Ended: 19:54:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 3989.00 ft (KB) To 4012.00 ft (KB) (TVD)

Reference Elevations: 2773.00 ft (KB)

Total Depth: 4012.00 ft (KB) (TVD)

2763.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 90.65 psig @ 3990.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.25

End Date: 2012.08.25

Last Calib.: 2012.08.25

Start Time: 14:34:00

End Time: 19:54:54

Time On Btm: 2012.08.25 @ 16:03:10

Time Off Btm: 2012.08.25 @ 18:06:55

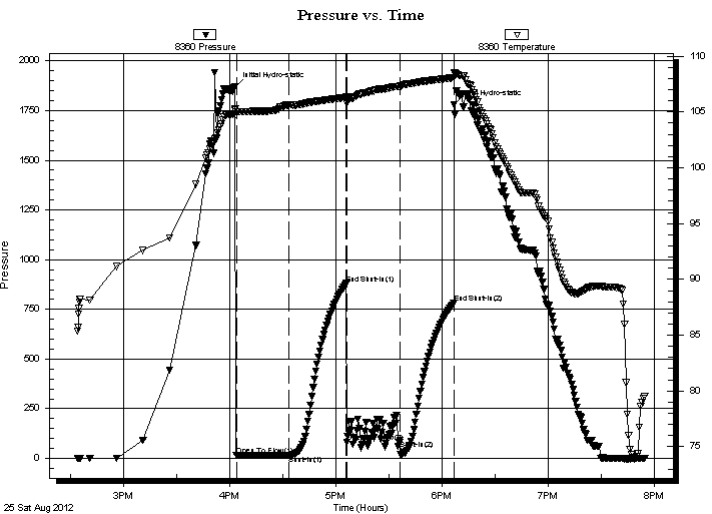
TEST COMMENT: IF- Weak Surface Blow Died in 6min

IS- No Blow

FF- No Blow

FS- No Blow

Tool w as Plugging on FF



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1871.71	105.29	Initial Hydro-static
1	14.61	104.77	Open To Flow (1)
31	15.26	105.63	Shut-In(1)
63	879.96	106.32	End Shut-In(1)
63	80.76	105.75	Open To Flow (2)
93	90.65	107.31	Shut-In(2)
124	782.17	108.08	End Shut-In(2)
124	1780.87	108.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	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

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottely # 3-16

Job Ticket: 48832

DST#: 6

ATTN: Tim Priest

Test Start: 2012.08.25 @ 14:34:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 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
5.00	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:

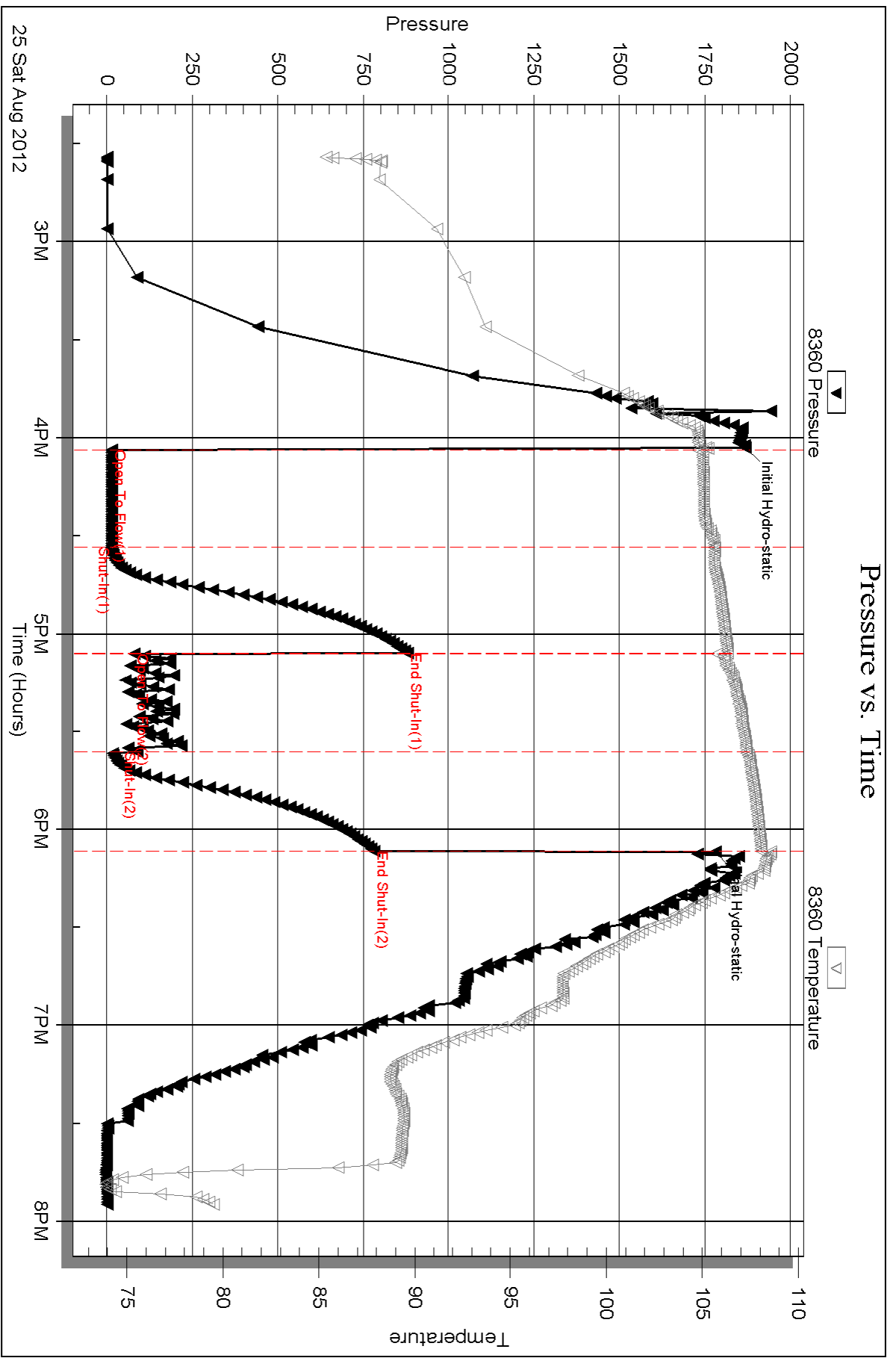
Serial #: 8360

Inside

Shakespeare Oil Co. Inc

Oltey # 3-16

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 48832

Printed: 2012.08.26 @ 23:21:57



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottely # 3-16

Job Ticket: 48834

DST#: 7

ATTN: Tim Priest

Test Start: 2012.08.26 @ 03:44:00

GENERAL INFORMATION:

Formation: **LKC " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:51:10

Time Test Ended: 10:31:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4016.00 ft (KB) To 4042.00 ft (KB) (TVD)

Reference Elevations: 2773.00 ft (KB)

Total Depth: 4042.00 ft (KB) (TVD)

2763.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 202.93 psig @ 4020.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.26

End Date:

2012.08.26

Last Calib.:

2012.08.26

Start Time: 03:44:00

End Time:

10:31:54

Time On Btm:

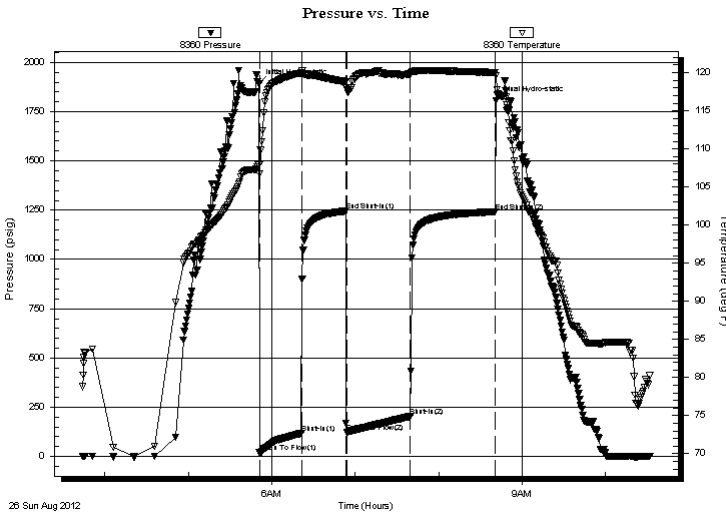
2012.08.26 @ 05:50:55

Time Off Btm:

2012.08.26 @ 08:41:24

TEST COMMENT: IF- Surface Blow Built to BOB in 18min
IS- No Blow
FF- Weak Surface Blow Built to BOB in 27min
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1892.47	107.89	Initial Hydro-static
1	19.42	106.71	Open To Flow (1)
31	118.58	119.94	Shut-In(1)
63	1245.71	118.81	End Shut-In(1)
63	121.57	118.06	Open To Flow (2)
109	202.93	119.82	Shut-In(2)
170	1242.45	120.00	End Shut-In(2)
171	1807.38	119.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MCW 8% m 92% w	1.98
120.00	MCW 5% m 95% w with Skim of Oil on T	1.68
29.00	OCMW 2% oil 15% m 83% w	0.41
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

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottely # 3-16

Job Ticket: 48834

DST#: 7

ATTN: Tim Priest

Test Start: 2012.08.26 @ 03:44:00

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:

39000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 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 bbbl
240.00	MCW 8%m 92%w	1.982
120.00	MCW 5%m 95%w with Skim of Oil on Top	1.683
29.00	OCMW 2%oil 15%m 83%w	0.407
1.00	Oil	0.014

Total Length: 390.00 ft Total Volume: 4.086 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .149 @ 84f = 39000

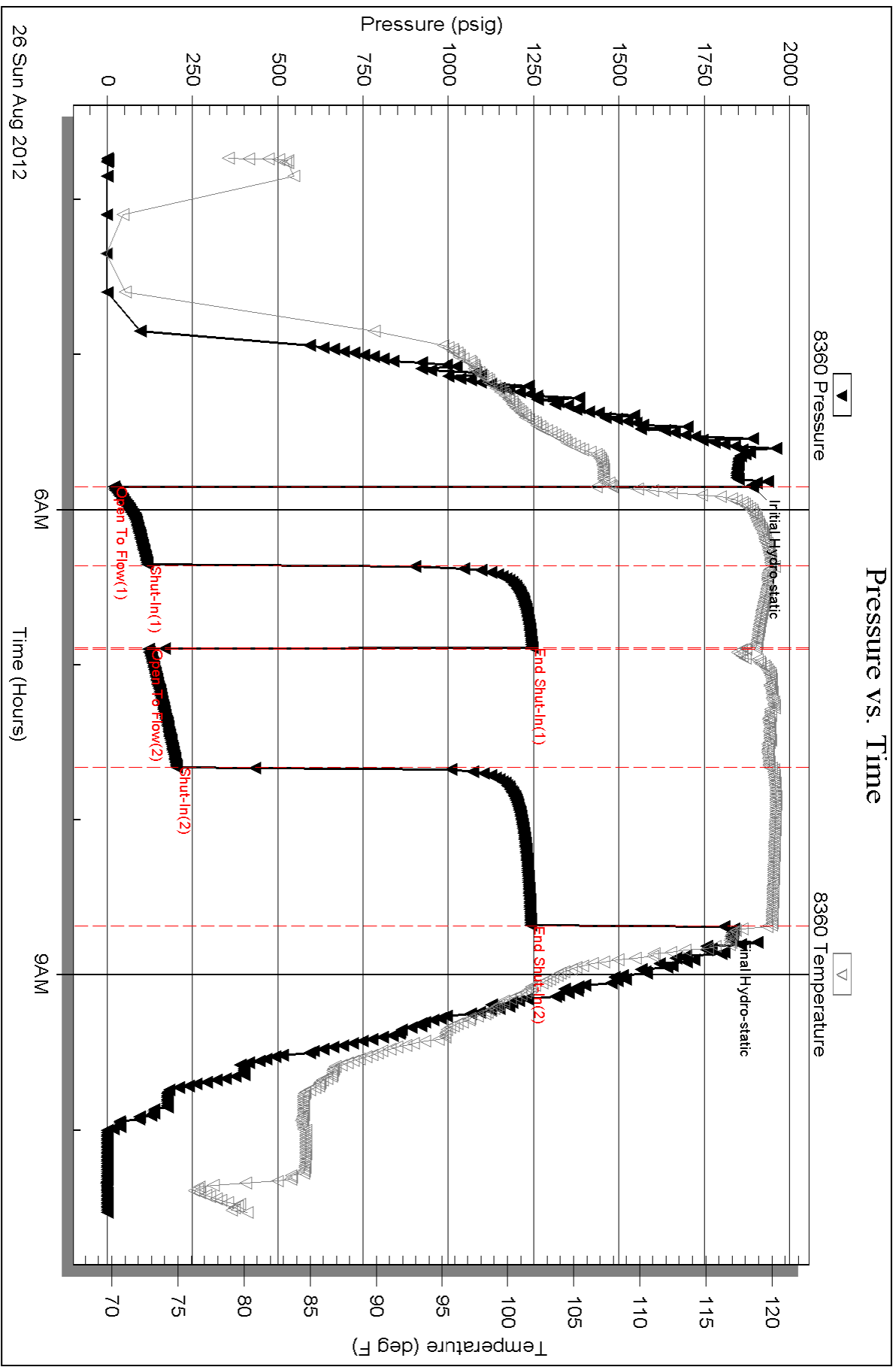
Serial #: 8360

Inside

Shakespeare Oil Co. Inc

Otley # 3-16

DST Test Number: 7





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottely # 3-16

Job Ticket: 48835

DST#: 8

ATTN: Tim Priest

Test Start: 2012.08.26 @ 19:48:00

GENERAL INFORMATION:

Formation: **LKC " L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:12:25

Time Test Ended: 02:42:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4047.00 ft (KB) To 4075.00 ft (KB) (TVD)

Reference Elevations: 2773.00 ft (KB)

Total Depth: 4075.00 ft (KB) (TVD)

2763.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 1139.94 psig @ 4048.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.26

End Date:

2012.08.27

Last Calib.:

2012.08.27

Start Time: 19:48:00

End Time:

02:42:39

Time On Btm:

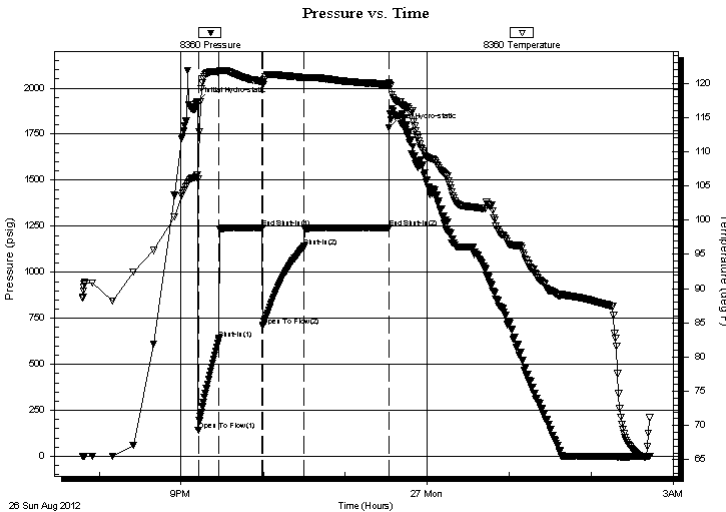
2012.08.26 @ 21:12:10

Time Off Btm:

2012.08.26 @ 23:31:55

TEST COMMENT: IF- Strong Surface Blow Built to BOB in 1min
IS- No Blow
FF- Strong Surface Blow Built to BOB in 1min
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1926.74	106.65	Initial Hydro-static
1	140.89	106.09	Open To Flow (1)
16	639.16	121.63	Shut-In(1)
47	1243.01	120.21	End Shut-In(1)
48	707.20	119.89	Open To Flow (2)
78	1139.94	120.82	Shut-In(2)
140	1242.62	119.87	End Shut-In(2)
140	1784.86	120.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2100.00	MCW 6%w 94%w	28.07
120.00	MCW 31%w 69%w	1.68
185.00	WCM 28%w 72%w	2.60
0.00	Skim of Oil on Top of tool	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottely # 3-16

Job Ticket: 48835

DST#: 8

ATTN: Tim Priest

Test Start: 2012.08.26 @ 19:48:00

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:

44000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2100.00	MCW 6%m 94%w	28.073
120.00	MCW 31%m 69%w	1.683
185.00	WCM 28%w 72%m	2.595
0.00	Skim of Oil on Top of tool	0.000

Total Length: 2405.00 ft Total Volume: 32.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .173 @ 66f = 44000

Serial #: 8360

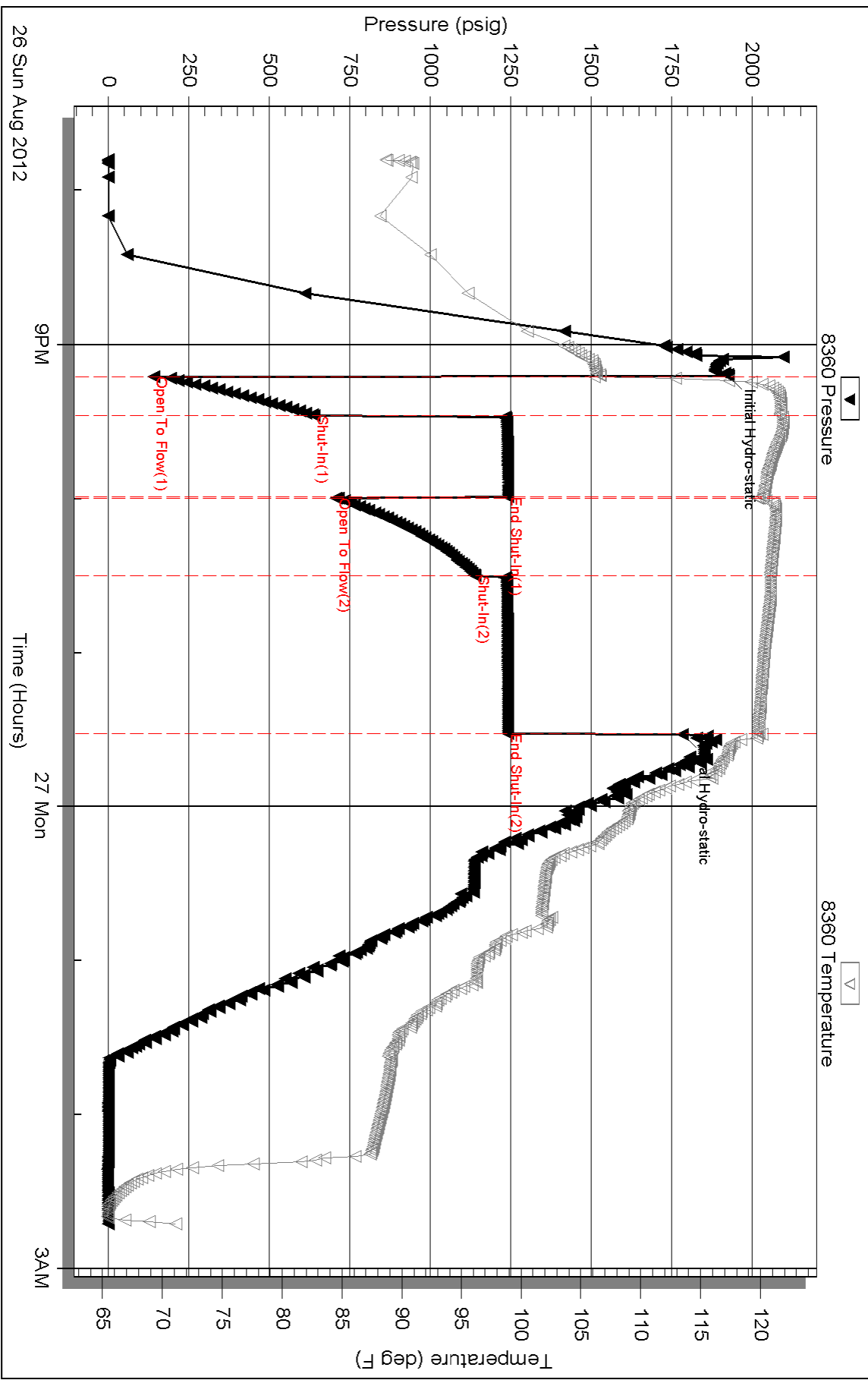
Inside

Shakespeare Oil Co. Inc

Oltey # 3-16

DST Test Number: 8

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48835

Printed: 2012.08.27 @ 04:08:06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottley #3-16

Job Ticket: 48836

DST#: 9

ATTN: Tim Priest

Test Start: 2012.08.28 @ 04:36:00

GENERAL INFORMATION:

Formation: **Mryic / Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:47:25

Time Test Ended: 10:35:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4250.00 ft (KB) To 4305.00 ft (KB) (TVD)

Reference Elevations: 2773.00 ft (KB)

Total Depth: 4305.00 ft (KB) (TVD)

2763.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 26.19 psig @ 4251.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.28

End Date:

2012.08.28

Last Calib.:

2012.08.28

Start Time: 04:36:00

End Time:

10:35:54

Time On Btm:

2012.08.28 @ 06:46:25

Time Off Btm:

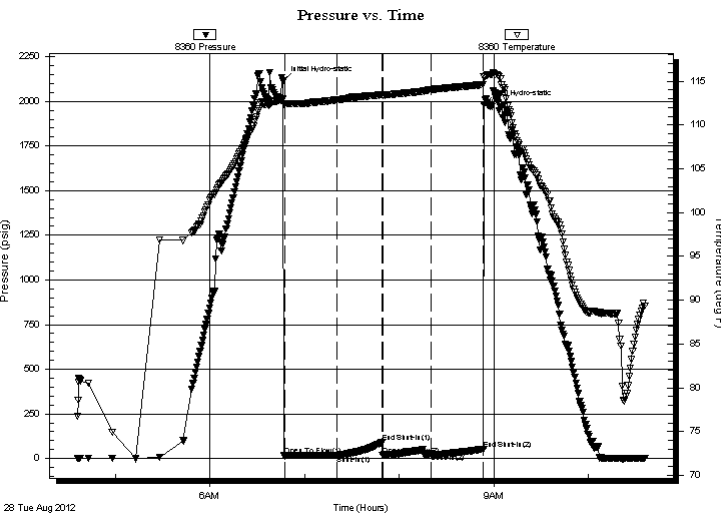
2012.08.28 @ 08:53:39

TEST COMMENT: IF- Weak Surface Blow Died in 17 min

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2114.54	112.98	Initial Hydro-static
1	15.34	112.47	Open To Flow (1)
34	17.56	112.87	Shut-In(1)
63	91.34	113.45	End Shut-In(1)
63	18.93	113.42	Open To Flow (2)
94	26.19	114.02	Shut-In(2)
127	53.45	114.61	End Shut-In(2)
128	1982.65	115.46	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	100% m with Oil Spots	0.02

	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

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottley #3-16

Job Ticket: 48836

DST#: 9

ATTN: Tim Priest

Test Start: 2012.08.28 @ 04:36:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% m with Oil Spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

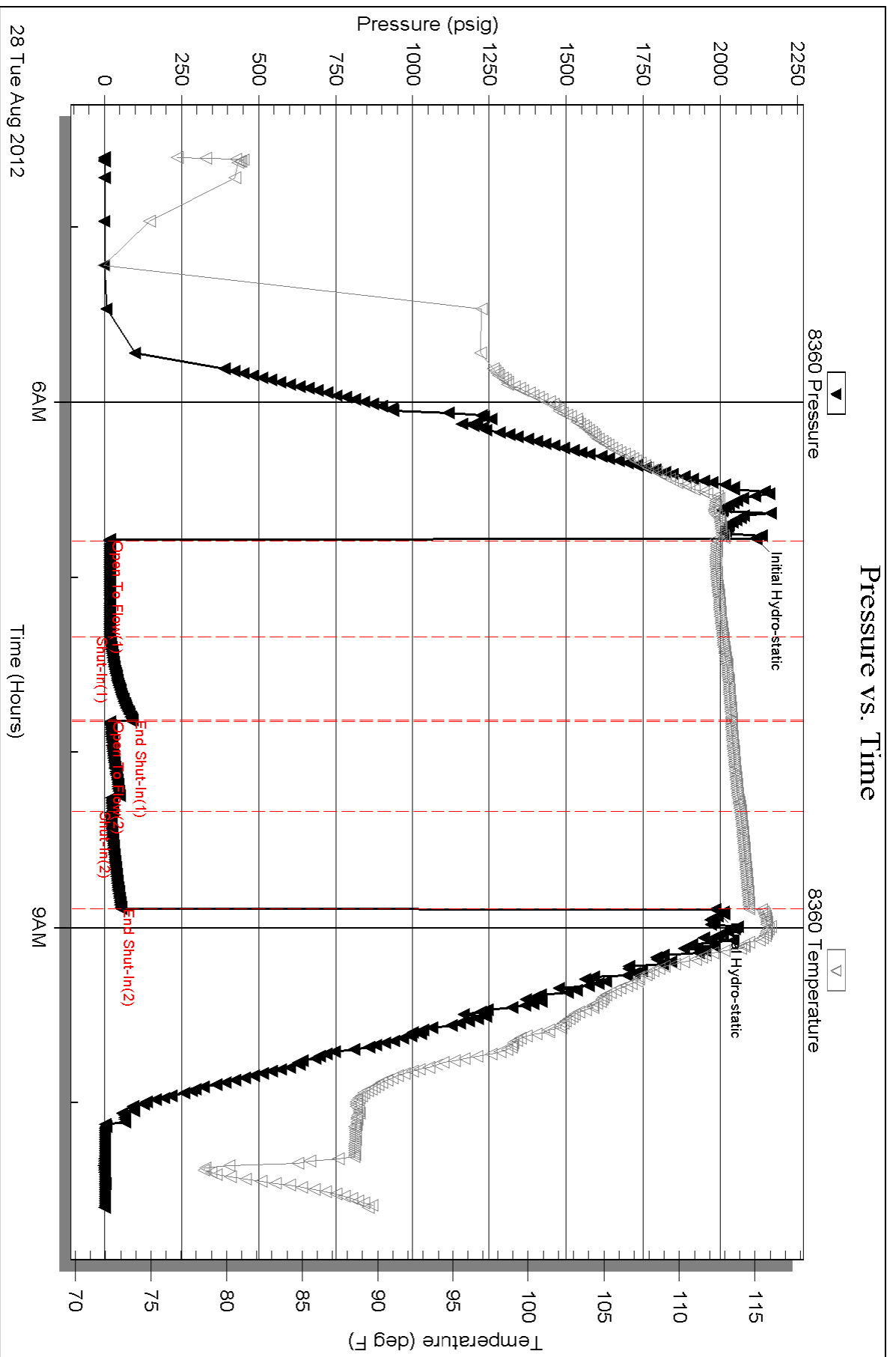
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottley # 3-16

Job Ticket: 48837

DST#: 10

ATTN: Tim Priest

Test Start: 2012.08.28 @ 23:28:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:13:10

Time Test Ended: 06:13:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4330.00 ft (KB) To 4380.00 ft (KB) (TVD)

Reference Elevations: 2773.00 ft (KB)

Total Depth: 4380.00 ft (KB) (TVD)

2763.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360 Inside

Press @ Run Depth: 17.63 psig @ 4331.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.28

End Date:

2012.08.29

Last Calib.:

2012.08.29

Start Time: 23:28:00

End Time:

06:13:39

Time On Btm:

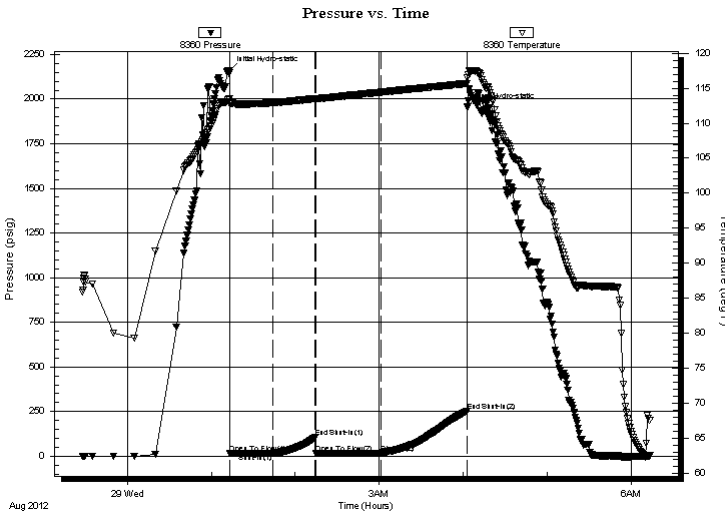
2012.08.29 @ 01:12:55

Time Off Btm:

2012.08.29 @ 04:03:09

TEST COMMENT: IF- Weak Surface Blow
IS- No Blow
FF- Weak Surface Blow Died in 7min
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2160.85	113.52	Initial Hydro-static
1	15.90	112.79	Open To Flow (1)
31	15.05	112.91	Shut-In(1)
61	103.48	113.51	End Shut-In(1)
62	15.78	113.49	Open To Flow (2)
109	17.63	114.43	Shut-In(2)
170	252.94	115.66	End Shut-In(2)
171	1955.19	116.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	GOCM 3%g 28%oil 69%m	0.01
2.00	GO 2%g 98%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

16-14s-32w Logan Co. KS

202 W. Main St.
Salem IL 62881

Ottley # 3-16

Job Ticket: 48837

DST#: 10

ATTN: Tim Priest

Test Start: 2012.08.28 @ 23:28:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	GOCM 3%g 28%oil 69%m	0.015
2.00	GO 2%g 98%oil	0.010

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:

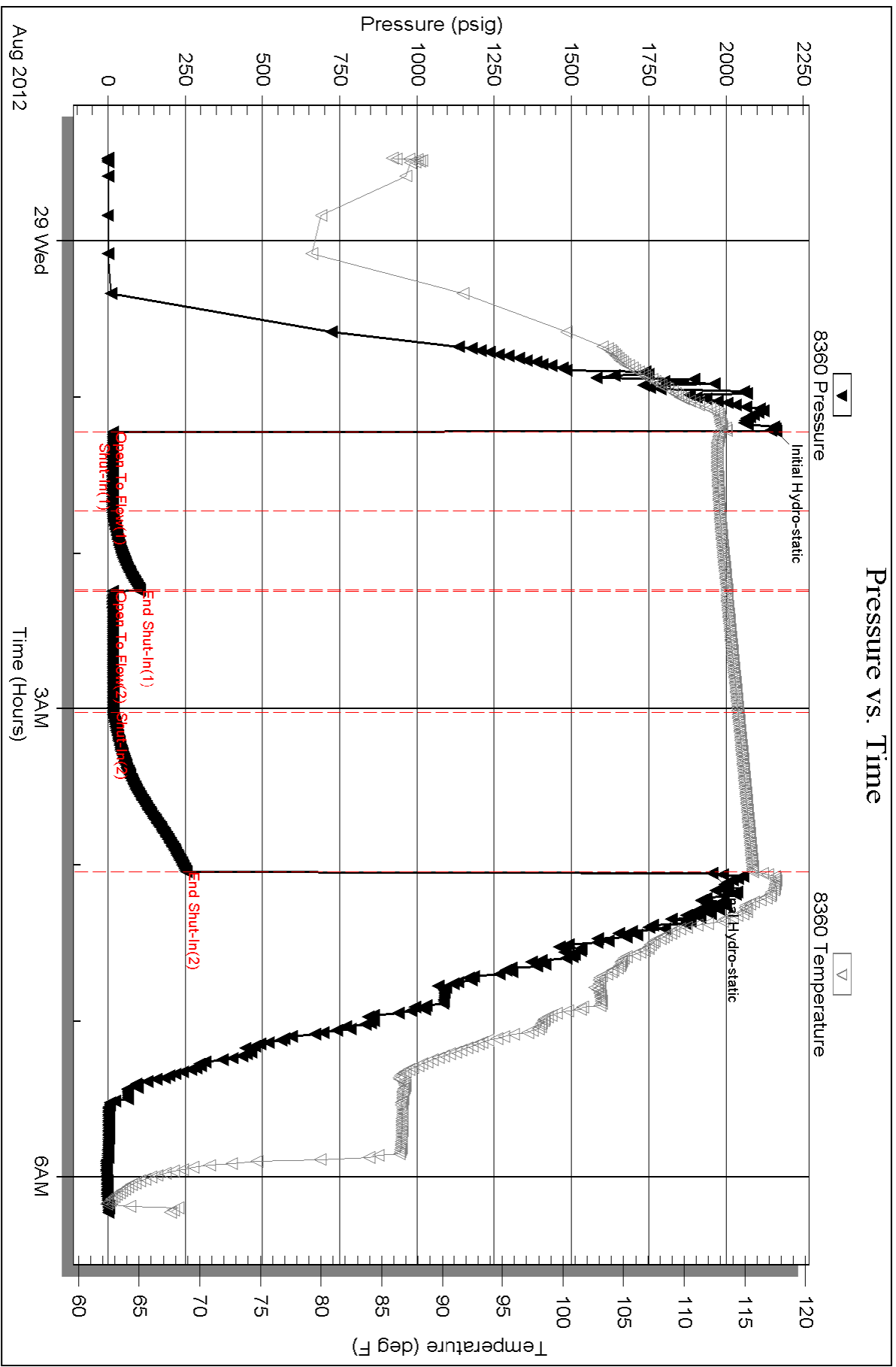
Serial #: 8360

Inside

Shakespeare Oil Co. Inc

Oilley # 3-16

DST Test Number: 10



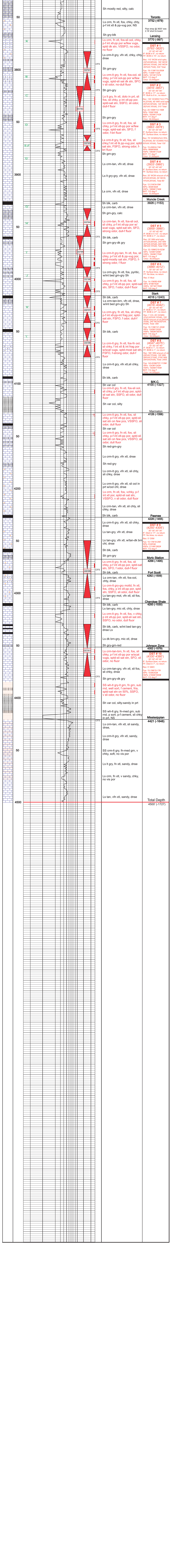
GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPEAR OIL CO.** EL ELEVATIONS
 LEASE **Shake 3-16** KB 2773'
 FIELD **Wildcat** DF _____
 LOCATION **750' TMS, 950' FWTL** GL 2763'
 SEC **16** TMS **14S** RPE **32W**
 COUNTY **Logan** STATE **Kansas** Measurements Are All From **KB**
 CONTRACTOR **HD Drilling Rig #2**
 SPUD **8-15-12** COMP _____
 RTD **4500'** LTD _____
 MUD UP **3500'** TYPE MUD **Chemical** CONDUCTOR **N/A**
 SAMPLES SAVED FROM **3600'** to RTD SURFACE **8-5/8" @ 226'**
 DRILLING TIME KEPT FROM **3600'** to RTD PRODUCTION _____
 SAMPLES EXAMINED FROM **3650'** to RTD
 GEOLOGICAL SUPERVISION FROM **3700'** to RTD
 GEOLOGIST ON WELL **Tim Priest** By: **Weathertford**

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anyvrite	2223 (+550)	
Heebner Shale	3727 (+954)	
Austung	3770 (+997)	
SBRK	4016 (+1233)	
BRC	4100 (+1327)	
Fort Scott	4282 (+1509)	
Cherokee Shale	4310 (+1537)	
Mississippian	4421 (+1648)	

REMARKS
 Respectfully Submitted,
 Tim Priest
 Petroleum Geologist

API #15-109-21119-00-00



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

September 19, 2012

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

Re: ACO1
API 15-109-21119-00-00
Ottley 3-16
SW/4 Sec.16-14S-32W
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