



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1156438
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: _____



1156438

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Zerr Trust 4-23
Doc ID	1156438

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Zerr Trust 4-23
Doc ID	1156438

Tops

Name	Top	Datum
Base Anhydrite	2376	+504
Heebner	3895	-1015
Lansing	3940	-1060
Muncie Creek	4094	-1214
Stark shale	4174	-1294
Hushpuckney	4210	-1330
Pawnee	4368	-1488
Cherokee Shale	4458	-1578
Johnson	4504	-1624
Mississippian	4544	-1664

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 137309
Invoice Date: Jul 10, 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	60761	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jul 10, 2013	8/9/13

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Zerr Trust #4-23 Class A Common	17.90	3,043.00
3.00	MAT	Gel	23.40	70.20
6.00	MAT	Chloride	64.00	384.00
183.83	SER	Cubic Feet	2.48	455.87
184.58	SER	Ton Mileage	2.60	479.91
1.00	SER	<u>Surface</u>	1,512.25	1,512.25
20.00	SER	Pump Truck Mileage	7.70	154.00
1.00	SER	Manifold Head Rental	275.00	275.00
20.00	SER	Light Vehicle Mileage	4.40	88.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	D J Gray		
1.00	EQUIP OPER	Talon Jones		

INT

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

\$ 1,680.17

ONLY IF PAID ON OR BEFORE
Aug 4, 2013

Subtotal	6,462.23
Sales Tax	276.28
Total Invoice Amount	6,738.51
Payment/Credit Applied	
TOTAL	6,738.51

DW



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 137584

Invoice Date: Jul 22, 2013

Page: 1

Bill To:

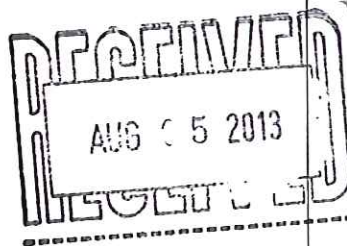
Shakespeare Oil Co., Inc.
202 West Main St.
Salem, IL 62881

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Shak	60825	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Jul 22, 2013	8/21/13

Quantity	Item	Description	Unit Price	Amount
180.00	MAT	Zerr Trust #4-23		
		ASC	20.90	3,762.00
19.00	MAT	Salt	26.35	500.65
900.00	MAT	Gilsonite	0.98	882.00
12.00	MAT	WFR-2	58.70	704.40
127.00	MAT	CD-31	10.30	1,308.10
232.17	SER	Cubic Feet	2.48	575.80
202.36	SER	Ton Mileage	2.60	526.14
1.00	SER	Production ✓	2,765.75	2,765.75
20.00	SER	Pump Truck Mileage	7.70	154.00
1.00	SER	Manifold Head Rental	275.00	275.00
20.00	SER	Light Vehicle Mileage	4.40	88.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Kevin Ryan		



INT

1050285

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

\$ 3,000.93

ONLY IF PAID ON OR BEFORE
Aug 16, 2013

Subtotal	11,541.84
Sales Tax	565.41
Total Invoice Amount	12,107.25
Payment/Credit Applied	
TOTAL	12,107.25

DW

ALLIED OIL & GAS SERVICES, LLC 060825

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Dallas, TX

DATE <u>7/22/13</u>	SEC. <u>23</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>1:00p</u>	JOB FINISH <u>2:00p</u>
LEASE <u>Zarr Trust</u>	WELL # <u>4-23</u>	LOCATION <u>Dallas 115.5E 35.1E 1/4S East</u>			COUNTY <u>Coll</u>	STATE <u>TX</u>	
OLD OR NEW (Circle one)							

CONTRACTOR H.A. #2

TYPE OF JOB Prod

HOLE SIZE 7 7/8 T.D. 4631

CASING SIZE 5 1/2 18 1/2 DEPTH 4629

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL Port Collar DEPTH 2335-12

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 42.55

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 109 1/4 BBL 150

EQUIPMENT

OWNER Same

CEMENT AMOUNT ORDERED 180 ASL 1070 Sulf 270 gal

5th Silicate 34-170 CD 31

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC 180 @ 20.70 3762.00

Sulf 195L @ 26.35 500.65

Alfonite 900lb @ .98 882.00

WFB II 12 BBL @ 58.70 704.40

CD 31 12716 @ 10.30 1308.10

HANDLING 232.176 @ 2.40 575.80

MILEAGE 20.70 @ 10.18 210.66

TOTAL 8257.09

PUMP TRUCK CEMENTER Alan Ryan

422 HELPER Wayn McGinley

BULK TRUCK

347 DRIVER Kevin Ryan

BULK TRUCK DRIVER

REMARKS:

Dallas, County, May WFB II, May 30th R.H.

May 150 Sulf down 5 1/2, Wash Trubly

Displace Pkg to later down w/ 109 1/4 BBL w/ 1800 P.S.F.

with hand Pkg @ 12:00 P.S.F. Float Hold

Thank You

Alan, Wayn, Kevin

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE 2765.70

EXTRA FOOTAGE @ _____

MILEAGE 20.70 @ 7.20 154.20

MANIFOLD Hand @ _____ 275.00

@ 4.80 88.00

TOTAL 3282.25

CHARGE TO Stokespeare

STREET _____

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 the well of 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 Doug Roberts

SIGNATURE Doug Roberts

SALES TAX (If Any) _____

TOTAL CHARGES 11,542.04

DISCOUNT 3,000.93 IF PAID IN 30 DAYS

8,541.11 Net



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 137581
Invoice Date: Jul 26, 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	60768	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Jul 26, 2013	8/25/13

Quantity	Item	Description	Unit Price	Amount
169.00	MAT	Zerr Trust #4-23	17.90	3,025.10
91.00	MAT	Class A Common	9.35	850.85
18.00	MAT	Pozmix	23.40	421.20
10.00	MAT	Gel	35.00	350.00
65.00	MAT	Cottonseed Hulls	2.97	193.05
648.87	SER	Flo Seal	2.48	1,609.20
531.78	SER	Cubic Feet	2.60	1,382.62
1.00	SER	Ton Mileage	2,483.59	2,483.59
20.00	SER	Port Collar ✓	7.70	154.00
20.00	SER	Pump Truck Mileage	4.40	88.00
1.00	CEMENTER	Light Vehicle Mileage		
1.00	EQUIP OPER	Andrew Forslund		
1.00	OPER ASSIST	D J Gray		
		Chris Helpingstine		



INT
Port Collar Cement
10502-5

Subtotal	10,557.61
Sales Tax	382.38
Total Invoice Amount	10,939.99
Payment/Credit Applied	
TOTAL	10,939.99

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

\$ 2,744.97

ONLY IF PAID ON OR BEFORE
Aug 20, 2013

DW



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

23-13s-31w

202 W Main Street
Salem, IL 62881

Zerr Trust #4-23

Job Ticket: 53319

DST#: 1

ATTN: Tim Priest

Test Start: 2013.07.15 @ 09:35:00

GENERAL INFORMATION:

Formation: **Lansing "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:18:40

Time Test Ended: 17:56:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Cornelio Landa III (

Unit No: 62

Interval: 3954.00 ft (KB) To 3986.00 ft (KB) (TVD)

Reference Elevations: 2880.00 ft (KB)

Total Depth: 3986.00 ft (KB) (TVD)

2870.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6751 Outside

Press @ Run Depth: 199.74 psig @ 3959.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.15

End Date:

2013.07.15

Last Calib.:

2013.07.15

Start Time: 09:35:05

End Time:

17:56:10

Time On Btm:

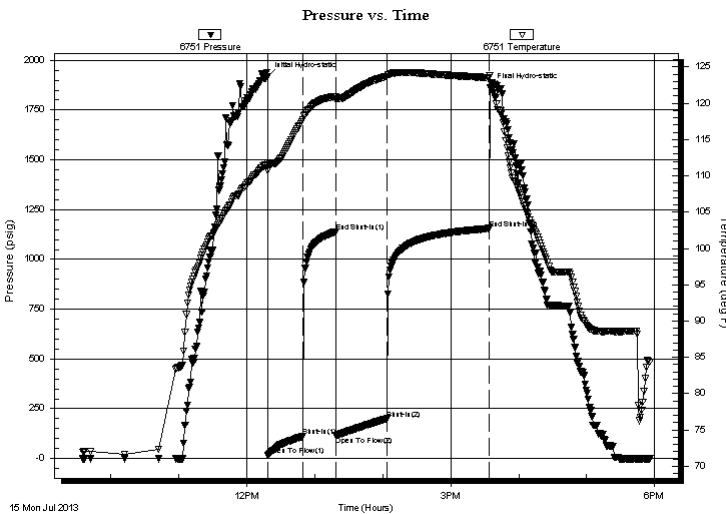
2013.07.15 @ 12:18:30

Time Off Btm:

2013.07.15 @ 15:34:30

TEST COMMENT: IF: Bob in 20 mins.
IS: No return
FF: Bob in 24 mins.
FS: No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1917.74	111.73	Initial Hydro-static
1	14.80	110.69	Open To Flow (1)
31	111.48	117.70	Shut-In(1)
60	1138.59	120.92	End Shut-In(1)
61	113.85	120.47	Open To Flow (2)
106	199.74	123.70	Shut-In(2)
196	1154.94	123.53	End Shut-In(2)
196	1861.70	123.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
59.00	Mw 20m 80w	0.29
59.00	Mw 5m 95w	0.29
300.00	Mw 5m 95w	4.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co, Inc

23-13s-31w

202 W Main Street
Salem, IL 62881

Zerr Trust #4-23

Job Ticket: 53319

DST#: 1

ATTN: Tim Priest

Test Start: 2013.07.15 @ 09:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
59.00	Mw 20m 80w	0.290
59.00	Mw 5m 95w	0.290
300.00	Mw 5m 95w	4.208

Total Length: 418.00 ft Total Volume: 4.788 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

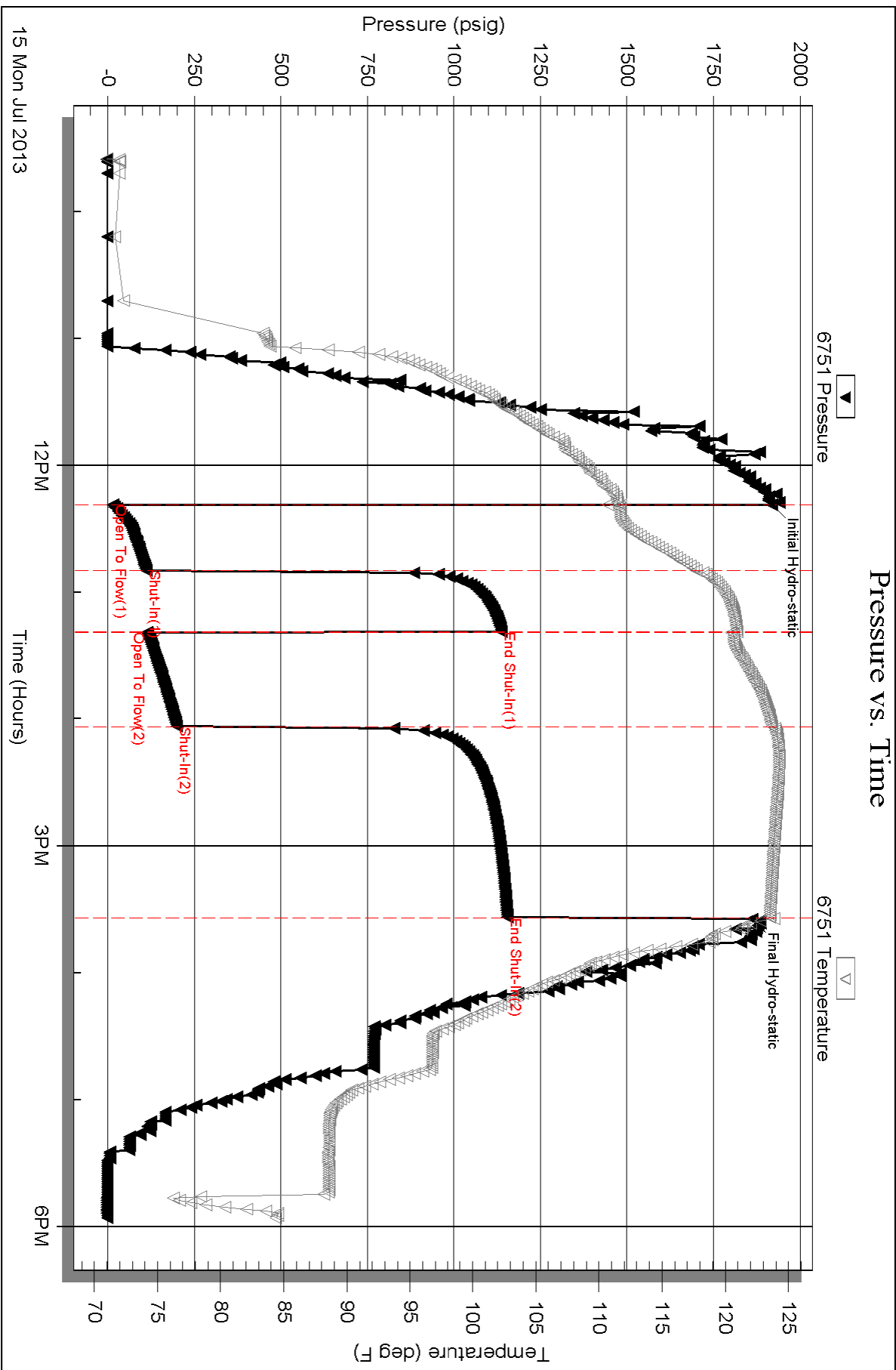
Recovery Comments:

Serial #: 6751

Outside Shakespeare Oil Co, Inc

Zerr Trust #4-23

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

23-13s-31w

202 W Main Street
Salem, IL 62881

Zerr Trust #4-23

ATTN: Tim Priest

Job Ticket: 53320

DST#: 2

Test Start: 2013.07.16 @ 04:20:00

GENERAL INFORMATION:

Formation: **Lansing "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:55:10

Time Test Ended: 12:16:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III (

Unit No: 62

Interval: 4003.00 ft (KB) To 4025.00 ft (KB) (TVD)

Reference Elevations: 2880.00 ft (KB)

Total Depth: 4025.00 ft (KB) (TVD)

2870.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6751 Outside

Press @ RunDepth: 169.18 psig @ 4008.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.16

End Date: 2013.07.16

Last Calib.: 2013.07.16

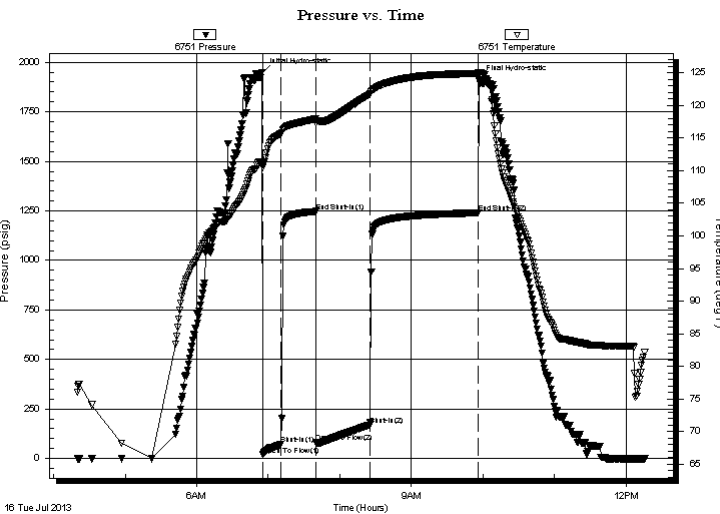
Start Time: 04:20:05

End Time: 12:15:59

Time On Btm: 2013.07.16 @ 06:55:00

Time Off Btm: 2013.07.16 @ 09:56:20

TEST COMMENT: IF: B.o.b. in 6 1/2 mins.
IS: Bled off for 3 mins-1/2 return
FF: B.o.b in 5 1/2 mins.
FS: Bled off in 1 1/2 mins- B.o.b. in 33 mins-blow started dying 1 hr into-lost 1 inch



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1948.95	111.39	Initial Hydro-static
1	18.66	110.50	Open To Flow (1)
16	70.97	115.71	Shut-In(1)
45	1246.83	117.95	End Shut-In(1)
46	81.70	117.39	Open To Flow (2)
91	169.18	121.71	Shut-In(2)
181	1239.30	124.84	End Shut-In(2)
182	1910.47	125.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
118.00	Go 20g 80o	0.58
382.00	Go 5g 95o	5.36
0.00	1000 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

23-13s-31w

202 W Main Street
Salem, IL 62881

Zerr Trust #4-23

Job Ticket: 53320

DST#: 2

ATTN: Tim Priest

Test Start: 2013.07.16 @ 04:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

43 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
118.00	Go 20g 80o	0.580
382.00	Go 5g 95o	5.358
0.00	1000 GIP	0.000

Total Length: 500.00 ft

Total Volume: 5.938 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

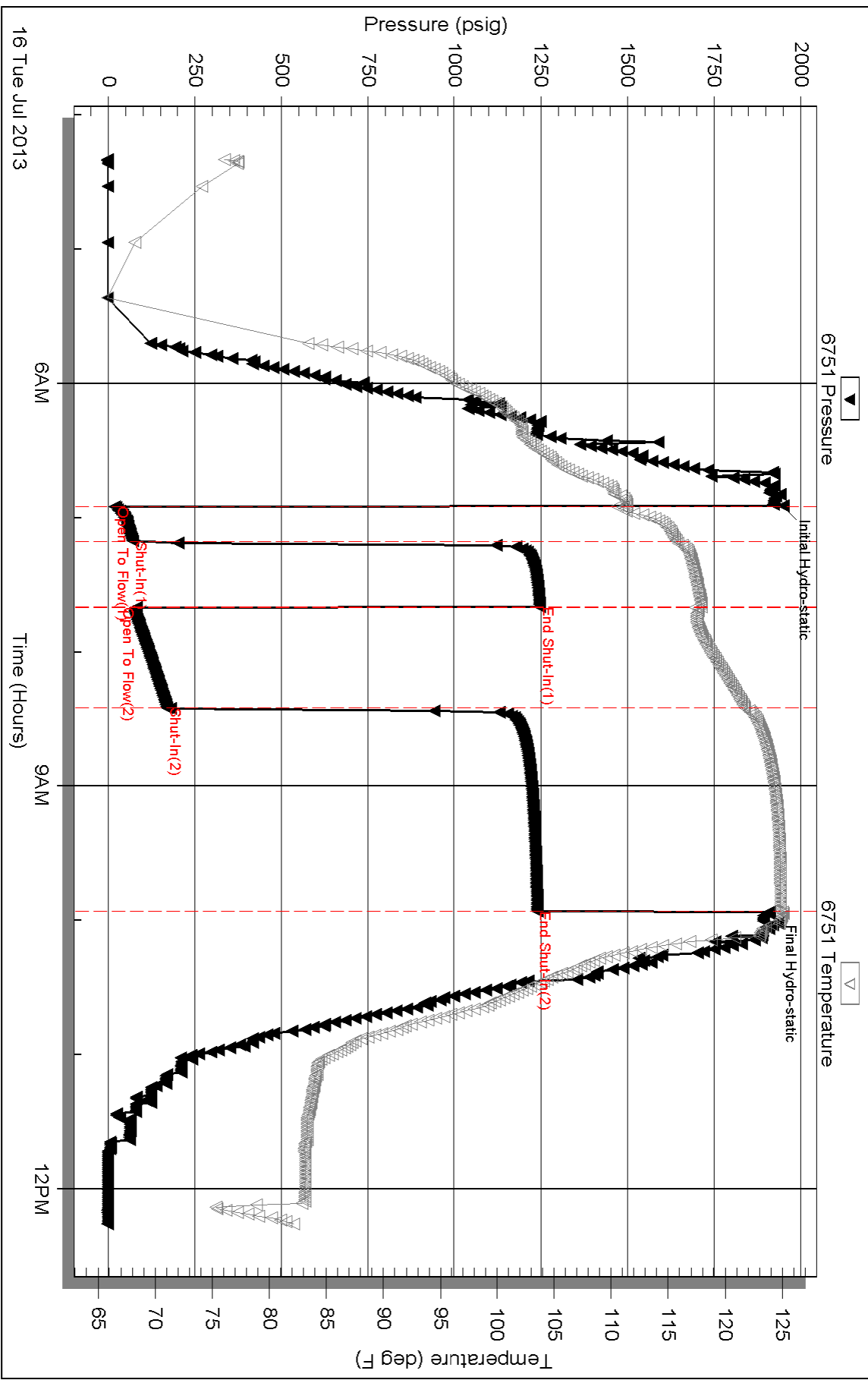
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 41 @ 84

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

23-13s-31w

Zerr Trust #4-23

Job Ticket: 53321

DST#: 3

Test Start: 2013.07.17 @ 03:55:00

GENERAL INFORMATION:

Formation: **Lkc "I"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 06:25:30 Tester: Cornelio Landa III (
 Time Test Ended: 11:25:50 Unit No: 62
 Interval: **4125.00 ft (KB) To 4156.00 ft (KB) (TVD)** Reference Elevations: 2880.00 ft (KB)
 Total Depth: 4156.00 ft (KB) (TVD) 2870.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

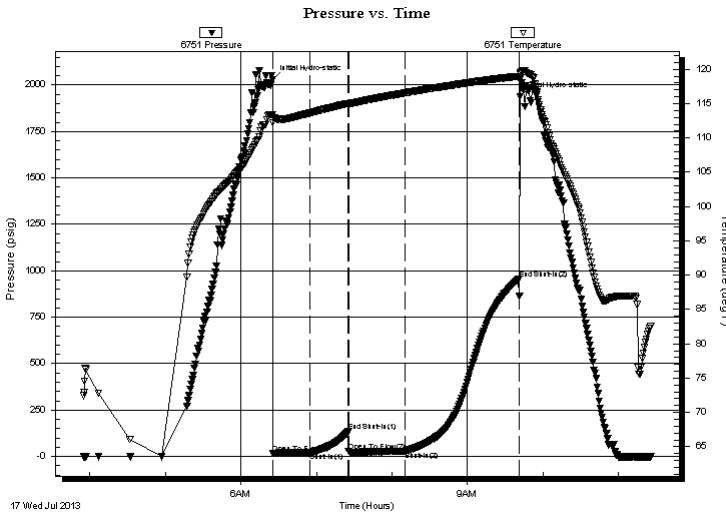
Serial #: 6751

Outside

Press @ Run Depth: 28.49 psig @ 4130.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.17 End Date: 2013.07.17 Last Calib.: 2013.07.17
 Start Time: 03:55:05 End Time: 11:25:50 Time On Btm: 2013.07.17 @ 06:25:20
 Time Off Btm: 2013.07.17 @ 09:41:50

TEST COMMENT: IF: 3 in. of blow
 IS: No return
 FF: 3 in. of blow
 FS: No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2030.88	113.36	Initial Hydro-static
1	15.48	112.23	Open To Flow (1)
30	19.87	113.65	Shut-In(1)
60	133.06	115.02	End Shut-In(1)
61	26.28	114.94	Open To Flow (2)
105	28.49	116.54	Shut-In(2)
196	954.06	118.98	End Shut-In(2)
197	1937.16	119.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
59.00	Gom 10g 30o 60m	0.29
0.00	59 GIP	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

23-13s-31w

202 W Main Street
Salem, IL 62881

Zerr Trust #4-23

Job Ticket: 53321

DST#: 3

ATTN: Tim Priest

Test Start: 2013.07.17 @ 03:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
59.00	Gom 10g 30o 60m	0.290
0.00	59 GIP	0.000

Total Length: 59.00 ft Total Volume: 0.290 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

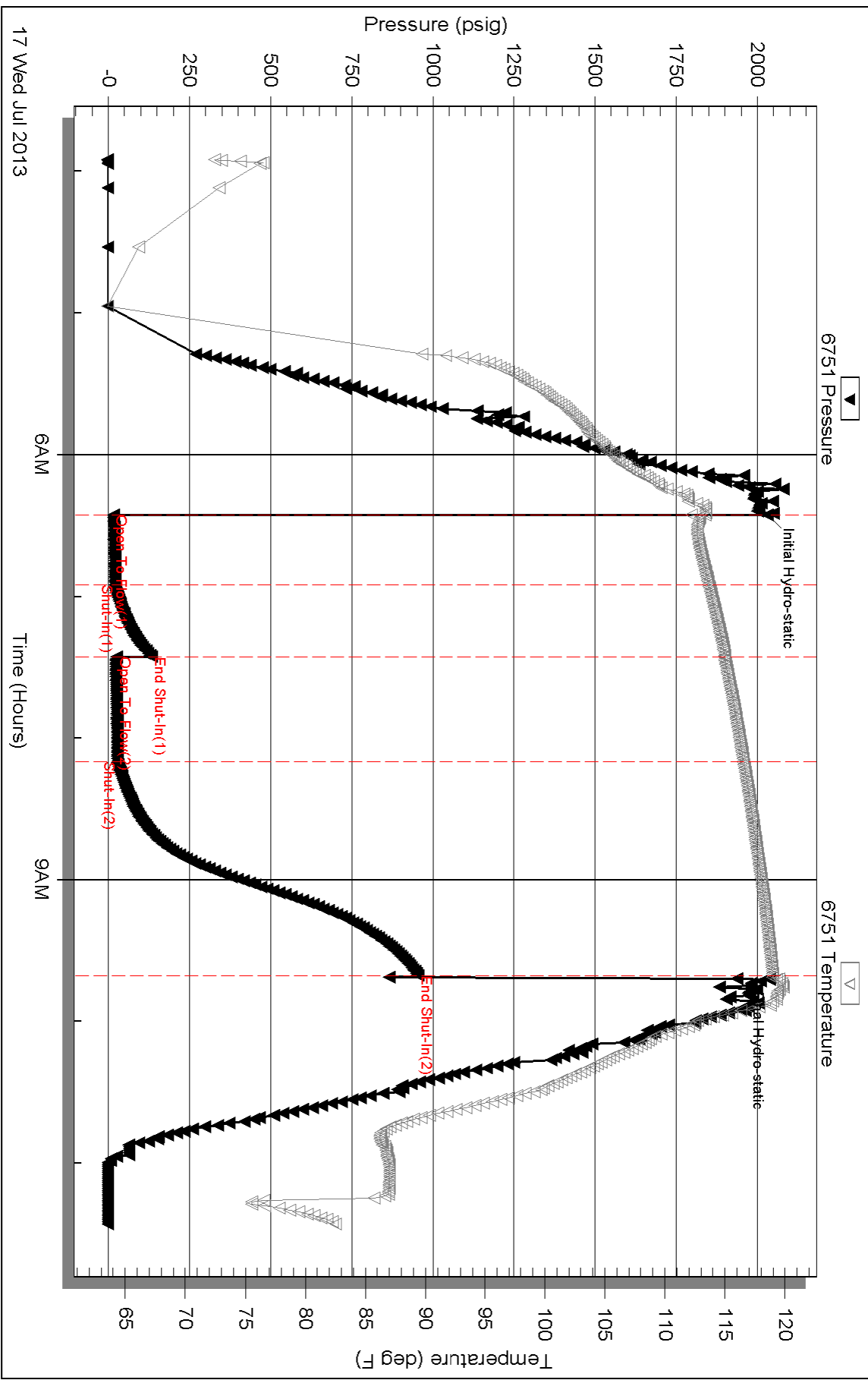
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

23-13s-31w

Zerr Trust #4-23

Job Ticket: 53322

DST#: 4

Test Start: 2013.07.17 @ 19:00:00

GENERAL INFORMATION:

Formation: **LKC"J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:33:30 Tester: Cornelio Landa III (
 Time Test Ended: 02:51:09 Unit No: 62
 Interval: **4160.00 ft (KB) To 4176.00 ft (KB) (TVD)** Reference Elevations: 2880.00 ft (KB)
 Total Depth: 4176.00 ft (KB) (TVD) 2870.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

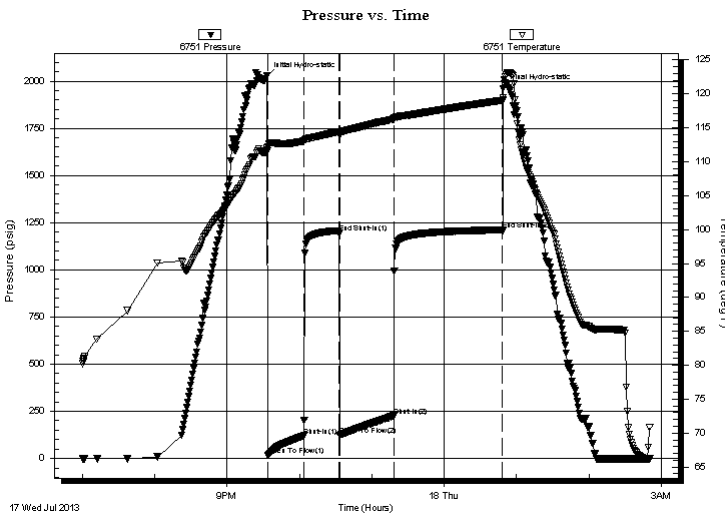
Serial #: 6751

Outside

Press @ Run Depth: 225.87 psig @ 4165.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.17 End Date: 2013.07.18 Last Calib.: 2013.07.18
 Start Time: 19:00:05 End Time: 02:51:10 Time On Btm: 2013.07.17 @ 21:33:10
 Time Off Btm: 2013.07.18 @ 00:49:00

TEST COMMENT: IF: 6 in. of blow
 IS: No return
 FF: 5 1/2 in. of blow - died back to 4 in.
 FS: No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2026.42	111.95	Initial Hydro-static
1	16.65	111.63	Open To Flow (1)
31	120.04	113.02	Shut-In(1)
60	1193.91	114.46	End Shut-In(1)
60	123.48	113.92	Open To Flow (2)
105	225.87	116.26	Shut-In(2)
195	1211.65	119.03	End Shut-In(2)
196	1958.54	119.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
59.00	Ow 5o 95w	0.29
59.00	Mw 5m 95w	0.29
360.00	Mw 5m 95w	5.05

* 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

23-13s-31w

202 W Main Street
Salem, IL 62881

Zerr Trust #4-23

Job Ticket: 53322

DST#: 4

ATTN: Tim Priest

Test Start: 2013.07.17 @ 19:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

93000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
59.00	Ow 5o 95w	0.290
59.00	Mw 5m 95w	0.290
360.00	Mw 5m 95w	5.050

Total Length: 478.00 ft

Total Volume: 5.630 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

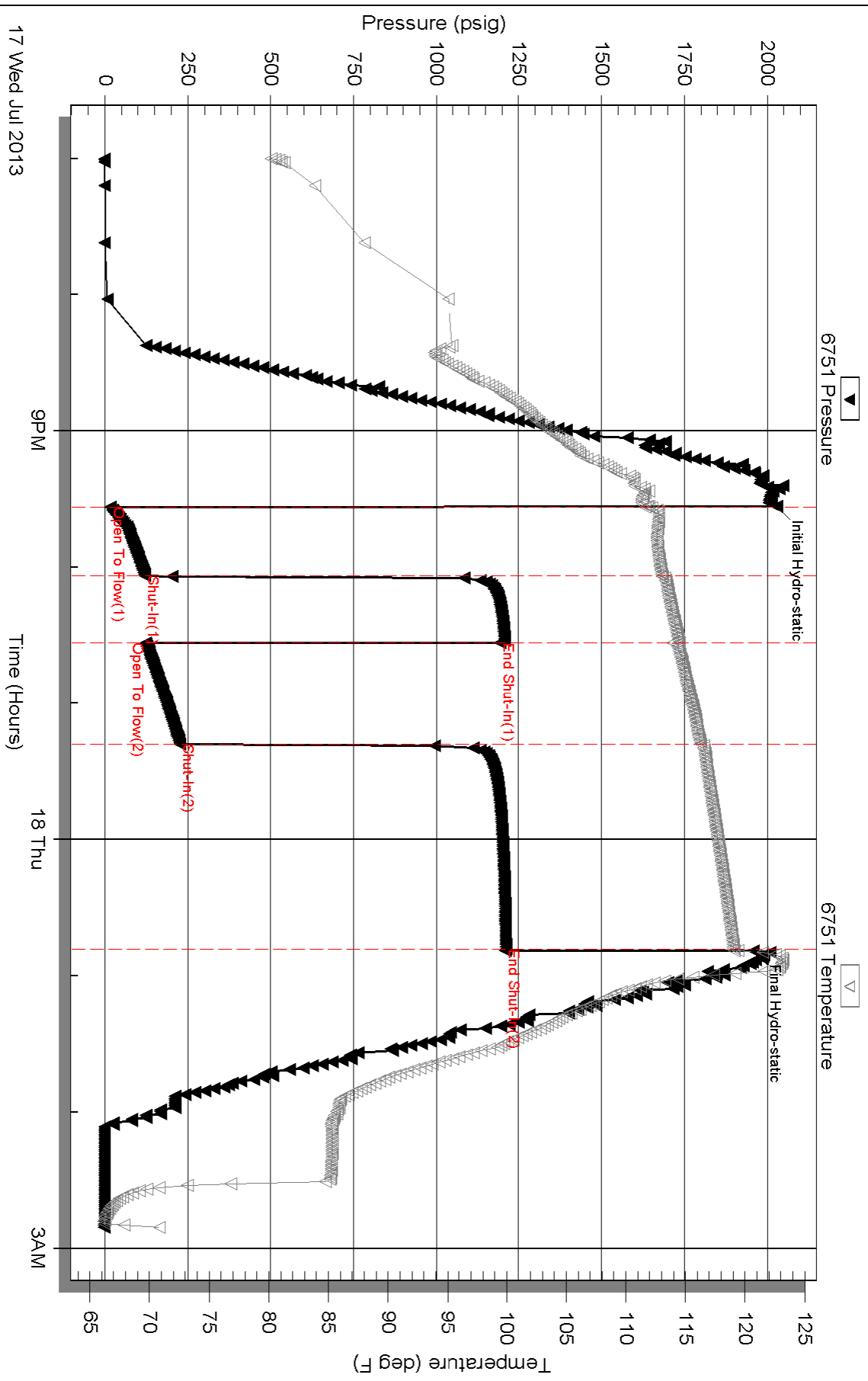
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

23-13s-31w

202 W Main Street
Salem, IL 62881

Zerr Trust #4-23

ATTN: Tim Priest

Job Ticket: 52778

DST#: 5

Test Start: 2013.07.18 @ 10:23:00

GENERAL INFORMATION:

Formation: **LKC 'K'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:28:10

Time Test Ended: 17:47:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4176.00 ft (KB) To 4208.00 ft (KB) (TVD)

Reference Elevations: 2880.00 ft (KB)

Total Depth: 4208.00 ft (KB) (TVD)

2870.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 325.22 psig @ 4181.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.18

End Date: 2013.07.18

Last Calib.: 2013.07.18

Start Time: 10:23:02

End Time: 17:47:40

Time On Btm: 2013.07.18 @ 12:26:30

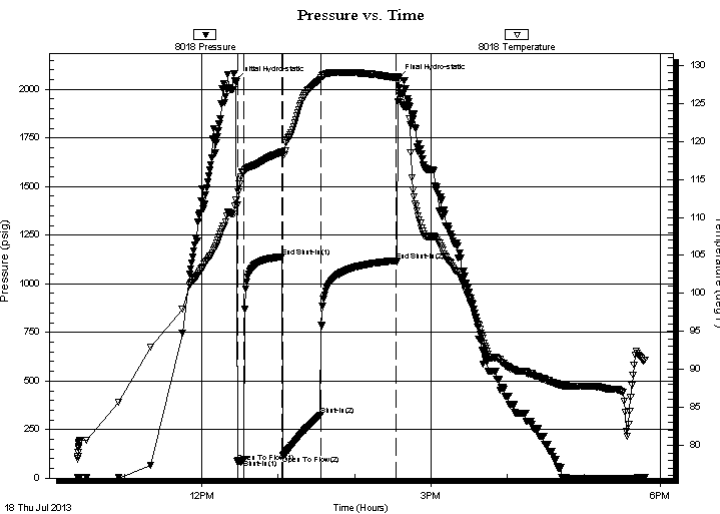
Time Off Btm: 2013.07.18 @ 14:34:20

TEST COMMENT: B.O.B. @ 1 min.

B.O.B. @ 9 min.

B.O.B. @ 2 min.

B.O.B. @ 13 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2043.77	111.48	Initial Hydro-static
2	83.73	111.68	Open To Flow (1)
7	98.55	115.87	Shut-In(1)
37	1138.94	118.60	End Shut-In(1)
38	117.25	118.21	Open To Flow (2)
67	325.22	128.11	Shut-In(2)
127	1118.99	128.35	End Shut-In(2)
128	2056.81	127.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
179.00	GOCM 10g 30o 60m	1.44
427.00	GO 30g 70o	5.99
366.00	GO 60g 40o	5.13
0.00	2867' 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

23-13s-31w

202 W Main Street
Salem, IL 62881

Zerr Trust #4-23

Job Ticket: 52778

DST#: 5

ATTN: Tim Priest

Test Start: 2013.07.18 @ 10:23:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
179.00	GOCM 10g 30o 60m	1.436
427.00	GO 30g 70o	5.990
366.00	GO 60g 40o	5.134
0.00	2867' GIP	0.000

Total Length: 972.00 ft Total Volume: 12.560 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

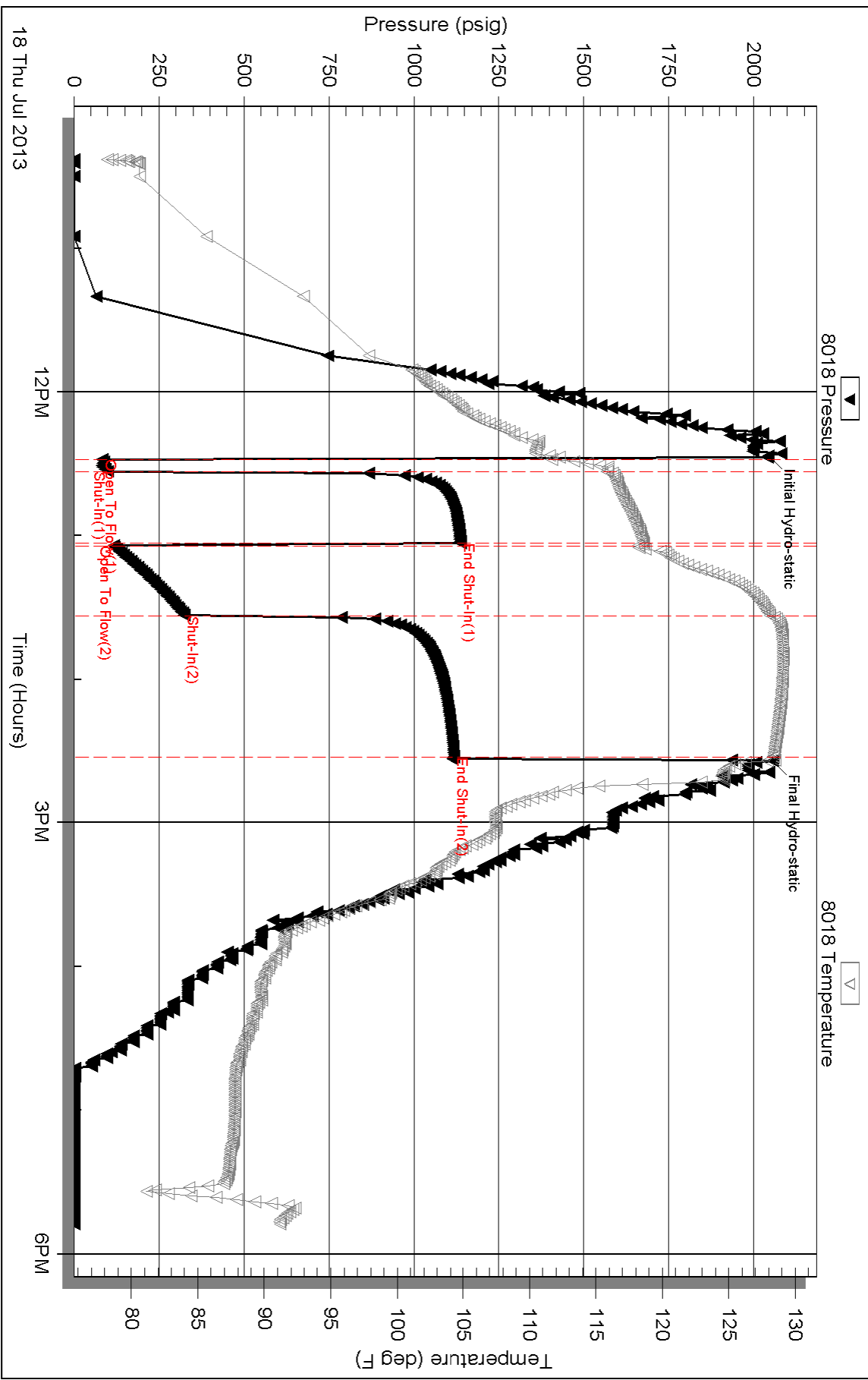
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 41 @ 90 Degrees F = 38

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

23-13s-31w

202 W Main Street
Salem, IL 62881

Zerr Trust #4-23

Job Ticket: 52779

DST#: 6

ATTN: Tim Priest

Test Start: 2013.07.19 @ 21:22:00

GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:29:10

Time Test Ended: 06:32:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4400.00 ft (KB) To 4432.00 ft (KB) (TVD)

Reference Elevations: 2880.00 ft (KB)

Total Depth: 4432.00 ft (KB) (TVD)

2870.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018 Inside

Press @ Run Depth: 131.10 psig @ 4405.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.19

End Date:

2013.07.20

Last Calib.: 2013.07.20

Start Time: 21:22:02

End Time:

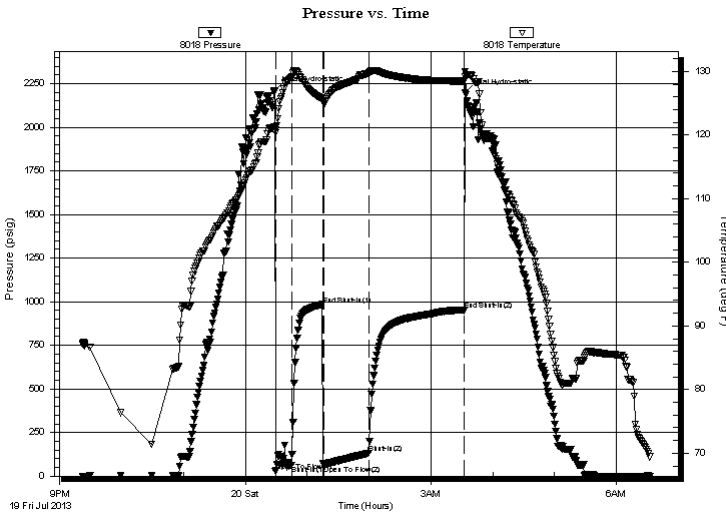
06:32:40

Time On Btm: 2013.07.20 @ 00:28:10

Time Off Btm: 2013.07.20 @ 03:33:10

TEST COMMENT: B.O.B. @ 3 min.
3" Return, died @ 35 min.
B.O.B. @ 2 min.
B.O.B. @ 8 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2208.79	121.25	Initial Hydro-static
1	27.02	120.44	Open To Flow (1)
17	64.56	129.05	Shut-In(1)
47	983.77	125.77	End Shut-In(1)
48	61.47	125.00	Open To Flow (2)
92	131.10	129.67	Shut-In(2)
184	954.23	128.48	End Shut-In(2)
185	2195.84	129.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2410' GIP	0.00
118.00	GOCM 20g 15o 65m	0.58
213.00	GO 20g 80o	2.99

* 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

23-13s-31w

202 W Main Street
Salem, IL 62881

Zerr Trust #4-23

Job Ticket: 52779

DST#: 6

ATTN: Tim Priest

Test Start: 2013.07.19 @ 21:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	2410' GIP	0.000
118.00	GOCM 20g 15o 65m	0.580
213.00	GO 20g 80o	2.988

Total Length: 331.00 ft Total Volume: 3.568 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 39 @ 60 Degrees F = 39.

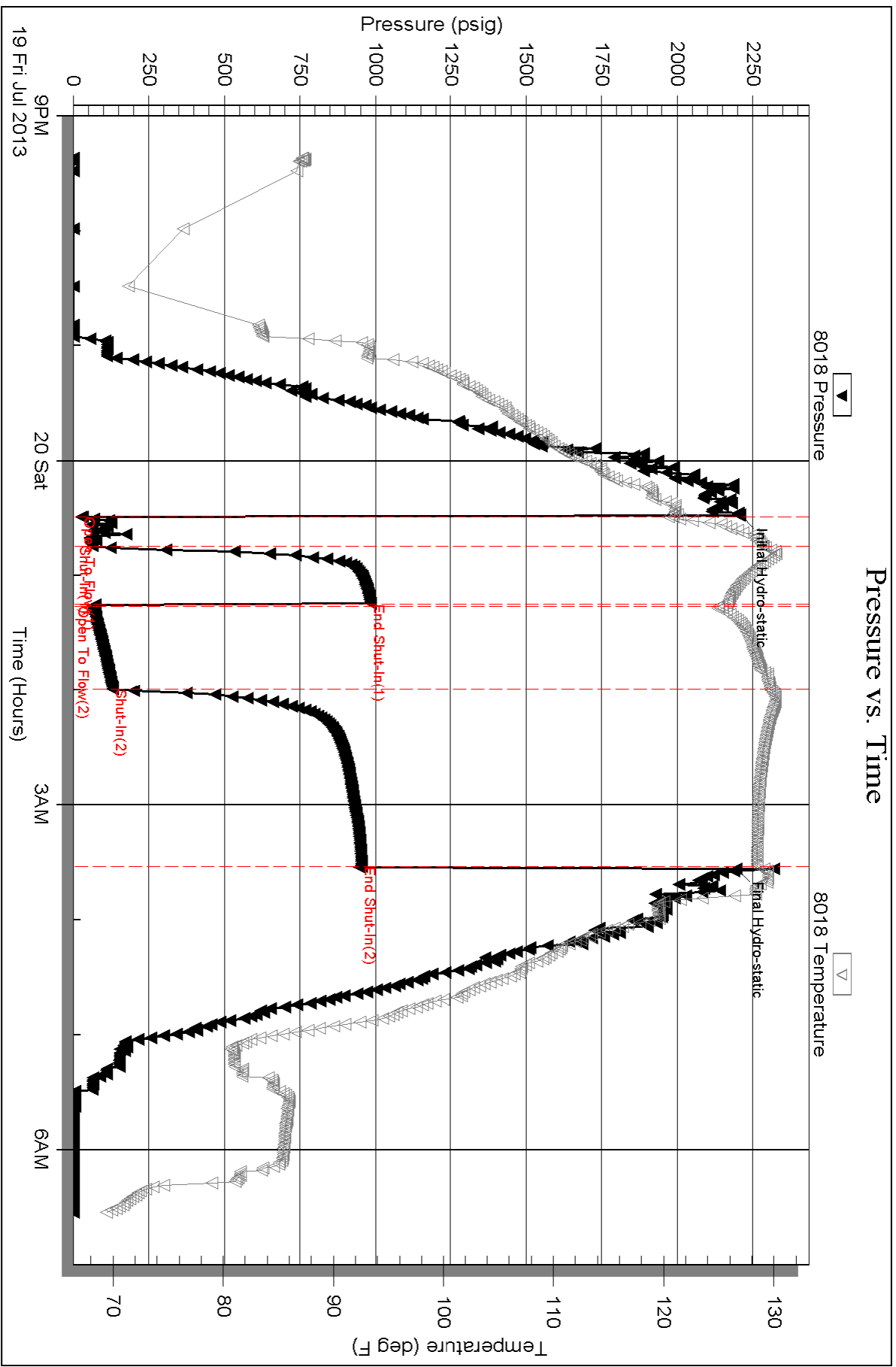
Serial #: 8018

Inside

Shakespeare Oil Co, Inc

Zerr Trust #4-23

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 52779

Printed: 2013.07.20 @ 22:55:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

23-13s-31w

202 W Main Street
Salem, IL 62881

Zerr Trust #4-23

Job Ticket: 52780

DST#: 7

ATTN: Tim Priest

Test Start: 2013.07.20 @ 21:13:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:25:50

Time Test Ended: 05:22:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith 62

Unit No: 62

Interval: 4501.00 ft (KB) To 4530.00 ft (KB) (TVD)

Reference Elevations: 2880.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

2870.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 151.60 psig @ 4503.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.20

End Date:

2013.07.21

Last Calib.: 2013.07.21

Start Time: 21:13:02

End Time:

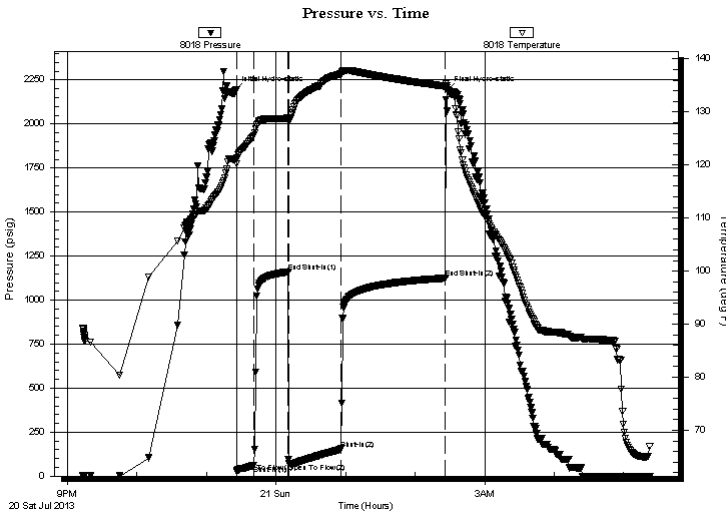
05:22:20

Time On Btm: 2013.07.20 @ 23:24:30

Time Off Btm: 2013.07.21 @ 02:27:40

TEST COMMENT: B.O.B. @ 5 min.
6" Return.
B.O.B. @ 4 min.
B.O.B. @ 20 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.21	121.01	Initial Hydro-static
2	23.76	120.21	Open To Flow (1)
17	59.83	125.48	Shut-In(1)
46	1160.53	128.82	End Shut-In(1)
47	71.23	128.23	Open To Flow (2)
91	151.60	137.13	Shut-In(2)
182	1125.21	134.85	End Shut-In(2)
184	2192.77	134.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2257' GIP	0.00
118.00	GOCM 35g 25o 40m	0.58
310.00	GO 35g 65o	4.35

* 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

23-13s-31w

202 W Main Street
Salem, IL 62881

Zerr Trust #4-23

Job Ticket: 52780

DST#: 7

ATTN: Tim Priest

Test Start: 2013.07.20 @ 21:13:00

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:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 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
0.00	2257' GIP	0.000
118.00	GOCM 35g 25o 40m	0.580
310.00	GO 35g 65o	4.348

Total Length: 428.00 ft Total Volume: 4.928 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 33 @ 70 Degrees F = 32

Serial #: 8018

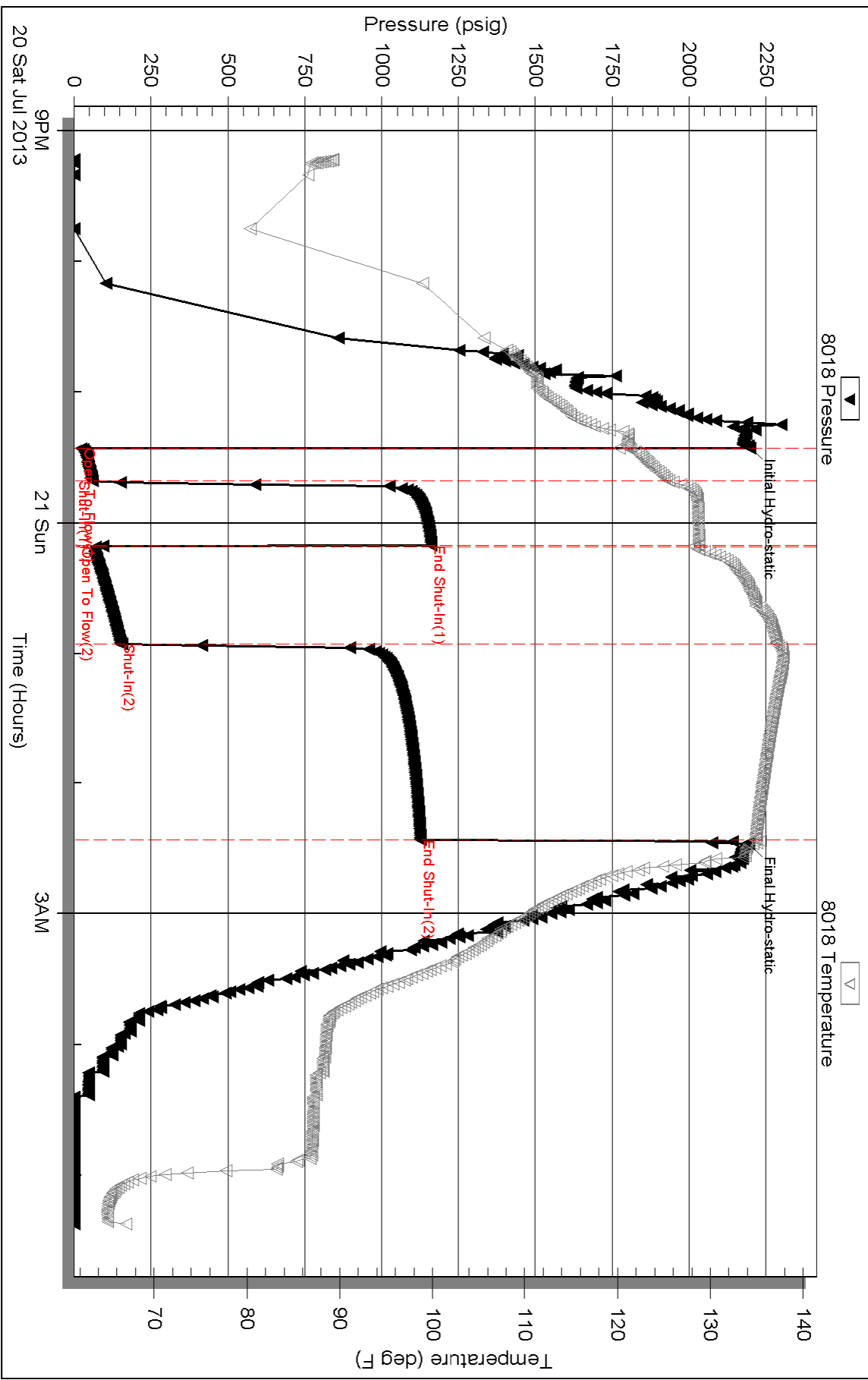
Inside

Shakespeare Oil Co, Inc

Zerr Trust #4-23

DST Test Number: 7

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52780

Printed: 2013.07.21 @ 06:31:38

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPEAR OIL CO.** ELEVATIONS
 LEASE **Zart Truss #4-23** KG 2880'
 FIELD **Wildcat** DF _____
 LOCATION **950 TMS, 1580' FWL** GL 2870'
 SEC **23** TWP **13S** RGE **31W**
 COUNTY **Grave** STATE **Kansas** Measurements Are All From **KB**
 CONTRACTOR **HD Drilling Rig #2**
 SPUD **7-10-13** COMP **7-22-13**
 RTD **4:30P** LTD **4:627'** CASING
 MUD UP **3:00P** TYPE MUD **Chemical** CONDUCTOR **N/A**
 SAMPLES SAVED FROM **3:50P** to RTD SURFACE **8-5/8" @225'**
 DRILLING TIME KEPT FROM **3:50P** to RTD PRODUCTION **5-1/2" @4630'**
 SAMPLES EXAMINED FROM **3:50P** to RTD
 GEOLOGICAL SUPERVISION FROM **3:00P** to RTD
 GEOLOGIST ON WELL **Tim Priest** By: **Weatherford**

FORMATION TOPS ELECTRIC LOG SAMPLE

Anydrite	2392 (+531)	2332 (+528)	
Heebner Shale	3894 (+1014)	3896 (+1016)	O
Austin	3940 (+1060)		
SARC	4174 (+1294)	4176 (+1296)	
BRC	4249 (+1369)	4252 (+1372)	23
Fort Scott	4430 (+1550)	4433 (+1553)	
Cherokee Shale	4458 (+1578)	4458 (+1578)	
Mississippian	4544 (+1664)	4548 (+1668)	

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

Respectfully Submitted,
 Tim Priest
 Petroleum Geologist

API #15-063-22120-00-00

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

August 27, 2013

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

Re: ACO1
API 15-063-22120-00-00
Zerr Trust 4-23
NW/4 Sec.23-13S-31W
Gove 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