

1268544

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Bader 2-23
Doc ID	1268544

All Electric Logs Run

Array Induciton
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Bader 2-23
Doc ID	1268544

Tops

Name	Top	Datum
Base Anhydrite	2502	+505
Heebner	3955	-948
Lansing	3998	-991
Muncie Creek	4148	-1141
Stark Shale	4234	-1227
Hushpuckney	4270	-1263
Pawnee	4430	-1423
Cherokee Shale	4514	-1507
Johnson	4556	-1549
Mississippian	4610	-1603



INVOICE

P.O. Box 205803
Dallas, TX 75320-5803

Invoice Number: 150590
Invoice Date: Aug 20, 2015
Page: 1

Voice: (832) 482-3742
Fax: (832) 482-3738



Federal Tax I.D.#: 20-8651475

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

Customer ID	Field Ticket #	Payment Terms	
Shak	67792	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 20, 2015	9/19/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	<u>Bader #2-23</u>		
185.00	CEMENT MATERIALS	Class A Common	17.90	3,311.50
348.00	CEMENT MATERIALS	Gel	0.50	174.00
522.00	CEMENT MATERIALS	Chloride	1.10	574.20
200.06	CEMENT SERVICE	Cubic Feet Charge	2.48	496.15
136.88	CEMENT SERVICE	Ton Mileage Charge	2.75	376.42
1.00	CEMENT SERVICE	Surface ✓	1,512.25	1,512.25
15.00	CEMENT SERVICE	Pump Truck Mileage	7.70	115.50
15.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	66.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	1,299.11	-1,299.11
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	821.23	-821.23
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		
1.00	OPERATOR ASSISTANT	Cory Brown		

INT

10502-5
KW

<p>ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE</p> <p>Sep 19, 2015</p> <p>1 1/2% CHARGED THEREAFTER.</p>	Subtotal	4,505.68
	Sales Tax	220.85
	Total Invoice Amount	4,726.53
	Payment/Credit Applied	
	TOTAL	4,726.53

DW



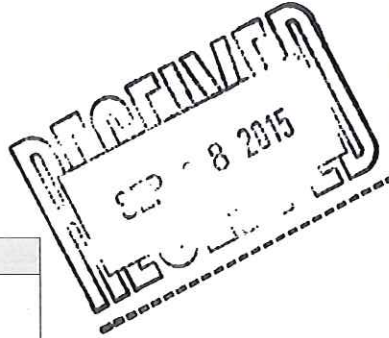
P.O. Box 205803
Dallas, TX 75320-5803

Voice: (832) 482-3742
Fax: (832) 482-3738

INVOICE

Invoice Number: 150658
Invoice Date: Aug 31, 2015
Page: 1

Federal Tax I.D.#: 20-8651475



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

Customer ID	Field Ticket #	Payment Terms	
Shak	67797	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Aug 31, 2015	9/30/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Bader #3-23		
165.00	CEMENT MATERIALS	ASC <u>2-23</u>	23.50	3,877.50
825.00	CEMENT MATERIALS	Gilsonite	0.98	808.50
47.00	CEMENT MATERIALS	CD-31	7.73	363.31
23.00	CEMENT MATERIALS	Defoamer	3.50	80.50
12.00	CEMENT MATERIALS	WFR II	41.09	493.08
207.25	CEMENT SERVICE	Cubic Feet Charge	2.48	513.98
138.31	CEMENT SERVICE	Ton Mileage Charge	2.75	380.35
1.00	CEMENT SERVICE	Production Casing ✓	2,765.75	2,765.75
15.00	CEMENT SERVICE	Pump Truck Mileage	7.70	115.50
15.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	66.00
1.00	CEMENT SERVICE	Head Manifold Rotater Rental	475.00	475.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	1,799.33	-1,799.33
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	1,381.32	-1,381.32
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	CEMENT SUPERVISOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		

<p>ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE</p> <p>Sep 30, 2015</p> <p>1 1/2% CHARGED THEREAFTER.</p>	Subtotal	6,758.82
	Sales Tax	305.88
	Total Invoice Amount	7,064.70
	Payment/Credit Applied	
	TOTAL	7,064.70

10502-5
KW

DW



INVOICE

P.O. Box 205803
Dallas, TX 75320-5803

Invoice Number: 150768
Invoice Date: Sep 8, 2015
Page: 1

Voice: (832) 482-3742
Fax: (832) 482-3738

Federal Tax I.D.#: 20-8651475

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



Customer ID	Field Ticket #	Payment Terms	
Shak	67849	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Sep 8, 2015	10/8/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	<u>Bader #2-23</u>		
195.00	CEMENT MATERIALS	Class A Common	17.90	3,490.50
105.00	CEMENT MATERIALS	Pozmix	9.35	981.75
2,088.00	CEMENT MATERIALS	Gel	0.50	1,044.00
75.00	CEMENT MATERIALS	Flo Seal	2.97	222.75
300.00	CEMENT MATERIALS	Cottonseed Hulls	0.99	297.00
600.00	CEMENT SERVICE	Cubic Feet Charge	2.48	1,488.00
357.00	CEMENT SERVICE	Ton Mileage Charge	2.75	981.75
1.00	CEMENT SERVICE	<u>Port Collar</u> ✓	2,483.59	2,483.59
15.00	CEMENT SERVICE	Pump Truck Mileage	7.70	115.50
15.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	66.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	3,018.00	-3,018.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	2,567.42	-2,567.42
1.00	CEMENT SUPERVISOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Brandon Wilkinson		
1.00	OPERATOR ASSISTANT	Cory Brown		

INT

<p>ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE</p> <p>Oct 8, 2015</p> <p>1 1/2% CHARGED THEREAFTER.</p>	Subtotal	5,585.42
	Sales Tax	241.44
	Total Invoice Amount	5,826.86
	Payment/Credit Applied	
	TOTAL	5,826.86

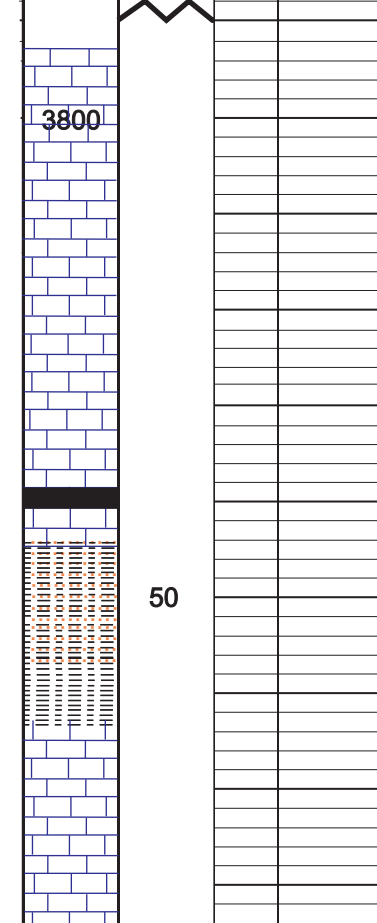
DW
10502-S
RW

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPARE OIL CO.** EL ELEVATIONS
 LEASE **Bader 2-23** KB 3007'
 FIELD **Whitetail** DF _____
 LOCATION **13307 FSL, 11007 FWL** GL 2998'
 SEC **23** T15SP **13S** R0E **32W**
 COUNTY **Logan** STATE **Kansas** Measurements Are All From **KB**
 CONTRACTOR **HD Drilling Rig #3**
 SPUD **8-20-15** COMP **8-30-15**
 RTD **4715'** LTD **4712'** CASING CONDUCTION **N/A**
 MUD UP **3300'** TYPE MUD **Chemical** SURFACE **8-5/8" @ 264'**
 SAMPLES SAVED FROM **3800'** to RTD PRODUCTION **5 1/2" @ 4715'**
 DRILLING TIME KEPT FROM **3800'** to RTD
 SAMPLES EXAMINED FROM **3800'** to RTD
 GEOLOGICAL SUPERVISION FROM **3900'** to RTD
 GEOLOGIST ON WELL **Tim Priest** By: **Weatherford**

FORMATION TOPS

FORMATION	ELECTRIC LOG	SAMPLE
Anhydrite	2480 (-527)	2480 (+527)
Heebner Shale	3555 (-948)	3559 (-952)
Toronto	3980 (-973)	3980 (-973)
Lansing	3998 (-991)	3999 (-992)
Stark	4234 (-1227)	4237 (-1230)
B/K.C.	4308 (-1301)	4312 (-1305)
Fort Scott	4484 (-1477)	4486 (-1479)
Cherokee Shale	4516 (-1509)	4516 (-1509)
Mississippian	4610 (-1603)	4613 (-1606)



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 #15-109-21430-00-00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Comp. Inc

23-13s-32w Logan , Ks

202 West Main St
Salem, IL
62881 - 1519
ATTN: Tim Priest

Bader #2-23

Job Ticket: 45505

DST#: 1

Test Start: 2015.08.25 @ 12:00:30

GENERAL INFORMATION:

Formation: **A - B**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 13:59:00

Time Test Ended: 18:55:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 84

Interval: 3991.00 ft (KB) To 4045.00 ft (KB) (TVD)

Reference Elevations: 3007.00 ft (KB)

Total Depth: 4045.00 ft (KB) (TVD)

2998.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 9120 Outside

Press @ Run Depth: 126.36 psig @ 3992.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.25

End Date:

2015.08.25

Last Calib.:

2015.08.25

Start Time: 12:00:30

End Time:

18:33:15

Time On Btm:

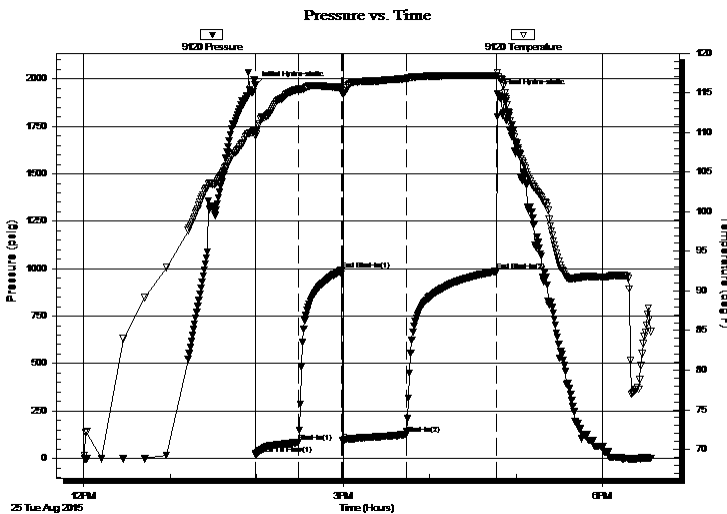
2015.08.25 @ 13:58:45

Time Off Btm:

2015.08.25 @ 16:47:00

TEST COMMENT: B.O.B. in 25 min.
No return
B.O.B. in 33 min.
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1967.19	110.35	Initial Hydro-static
1	22.01	109.63	Open To Flow (1)
30	85.74	115.46	Shut-In(1)
60	991.27	115.70	End Shut-In(1)
61	93.27	115.04	Open To Flow (2)
105	126.36	116.80	Shut-In(2)
168	985.93	117.19	End Shut-In(2)
169	1922.92	117.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	s g m & w c o 5g 25m 30w 40o	0.30
170.00	s g w & m c o 5g 20w 30m 45o	1.80
20.00	c g o 5g 95o	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Comp. Inc

23-13s-32w Logan , Ks

202 West Main St
Salem, Il
62881 - 1519
ATTN: Tim Priest

Bader #2-23

Job Ticket: 45505

DST#: 1

Test Start: 2015.08.25 @ 12:00:30

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	s g m & w c o 5g 25m 30w 40o	0.295
170.00	s g w & m c o 5g 20w 30m 45o	1.802
20.00	c g o 5g 95o	0.281

Total Length: 250.00 ft Total Volume: 2.378 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

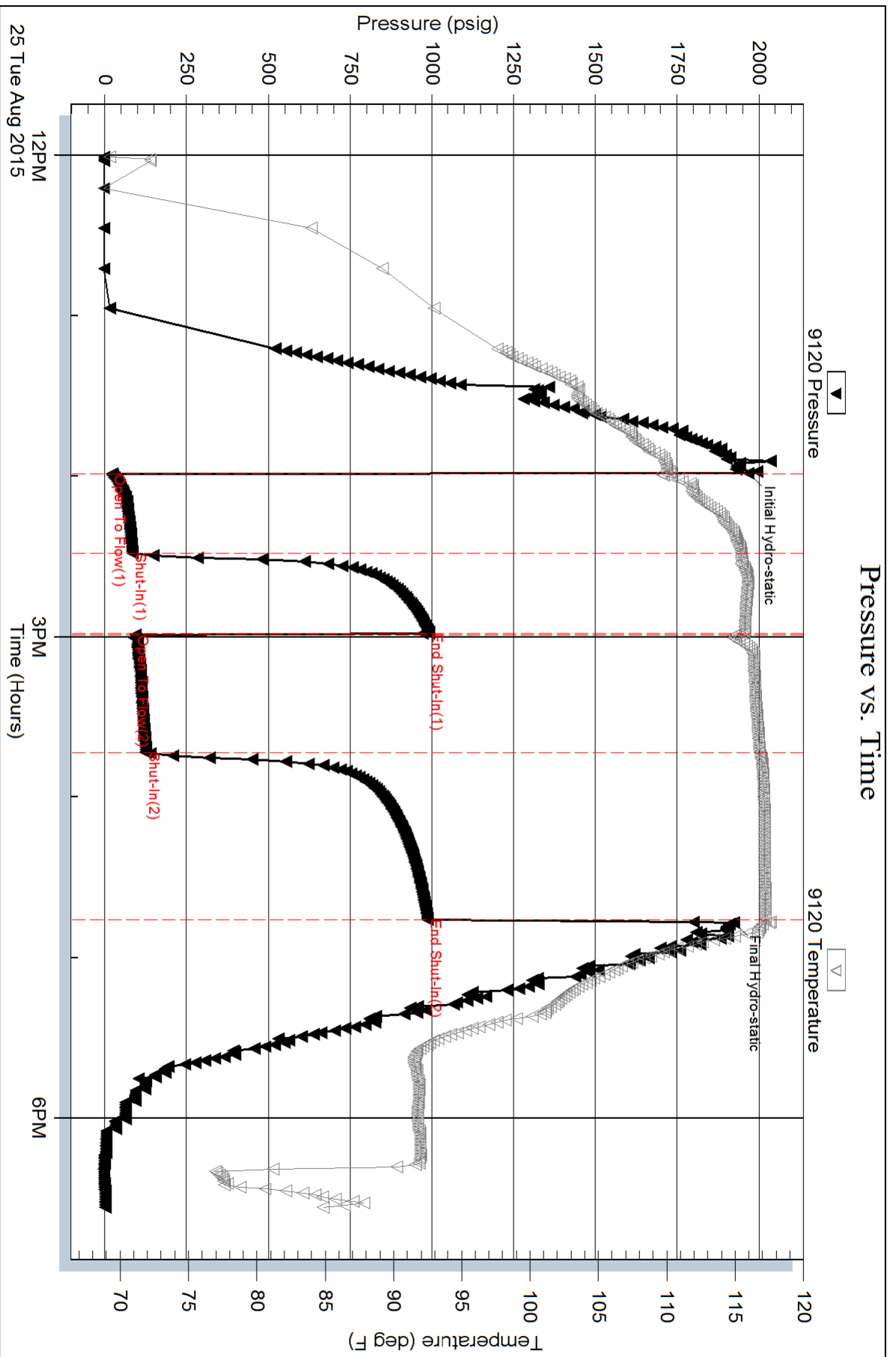
Recovery Comments:

Serial #: 9120

Outside Shakespeare Oil Corp. Inc

Bader #-2-23

DST Test Number: 1





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Comp. Inc

23-13s-32w Logan , Ks

202 West Main St
Salem, Il
62881 - 1519
ATTN: Tim Priest

Bader #2-23

Job Ticket: 45506

DST#: 2

Test Start: 2015.08.26 @ 14:10:16

GENERAL INFORMATION:

Formation: **H - I**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 15:57:31

Time Test Ended: 20:55:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 84

Interval: 4165.00 ft (KB) To 4210.00 ft (KB) (TVD)

Reference Elevations: 3007.00 ft (KB)

Total Depth: 4210.00 ft (KB) (TVD)

2998.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8938

Inside

Press@RunDepth: 86.03 psig @ 4166.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.26

End Date:

2015.08.26

Last Calib.:

2015.08.26

Start Time: 14:10:16

End Time:

20:40:46

Time On Btm:

2015.08.26 @ 15:57:16

Time Off Btm:

2015.08.26 @ 19:00:01

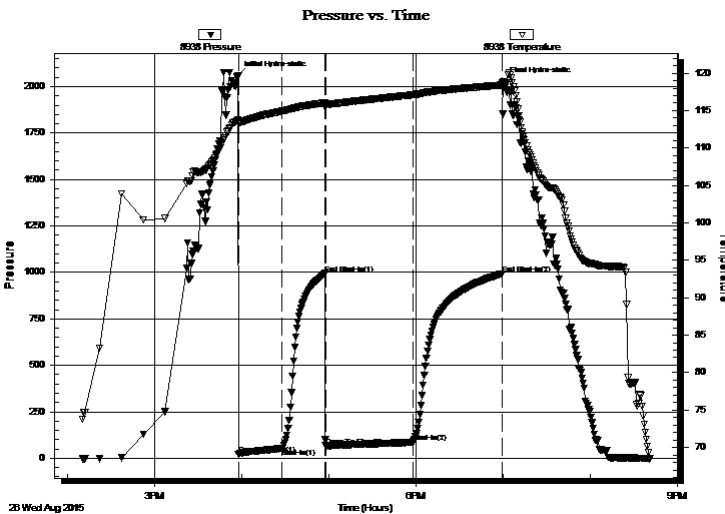
TEST COMMENT: 3 3/4" in blow

No return

5" in blow

No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2057.60	113.76	Initial Hydro-static
1	20.31	113.27	Open To Flow (1)
31	54.24	114.92	Shut-In(1)
60	993.99	116.04	End Shut-In(1)
61	67.32	115.81	Open To Flow (2)
121	86.03	117.10	Shut-In(2)
182	993.62	118.41	End Shut-In(2)
183	2029.25	118.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	s m c w tr/of oil 5m 95w	0.59
35.00	s o & w c m 5o 10w 85m	0.45
5.00	free oil 100%o	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 Comp. Inc

23-13s-32w Logan , Ks

202 West Main St
Salem, Il
62881 - 1519
ATTN: Tim Priest

Bader #2-23

Job Ticket: 45506

DST#: 2

Test Start: 2015.08.26 @ 14:10:16

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.97 in³

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 36 deg API

Water Salinity: 30000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	s m c w tr/of oil 5m 95w	0.590
35.00	s o & w c m 5o 10w 85m	0.455
5.00	free oil 100%o	0.070

Total Length: 160.00 ft Total Volume: 1.115 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .176 @ 88*f = 30,000 chlor

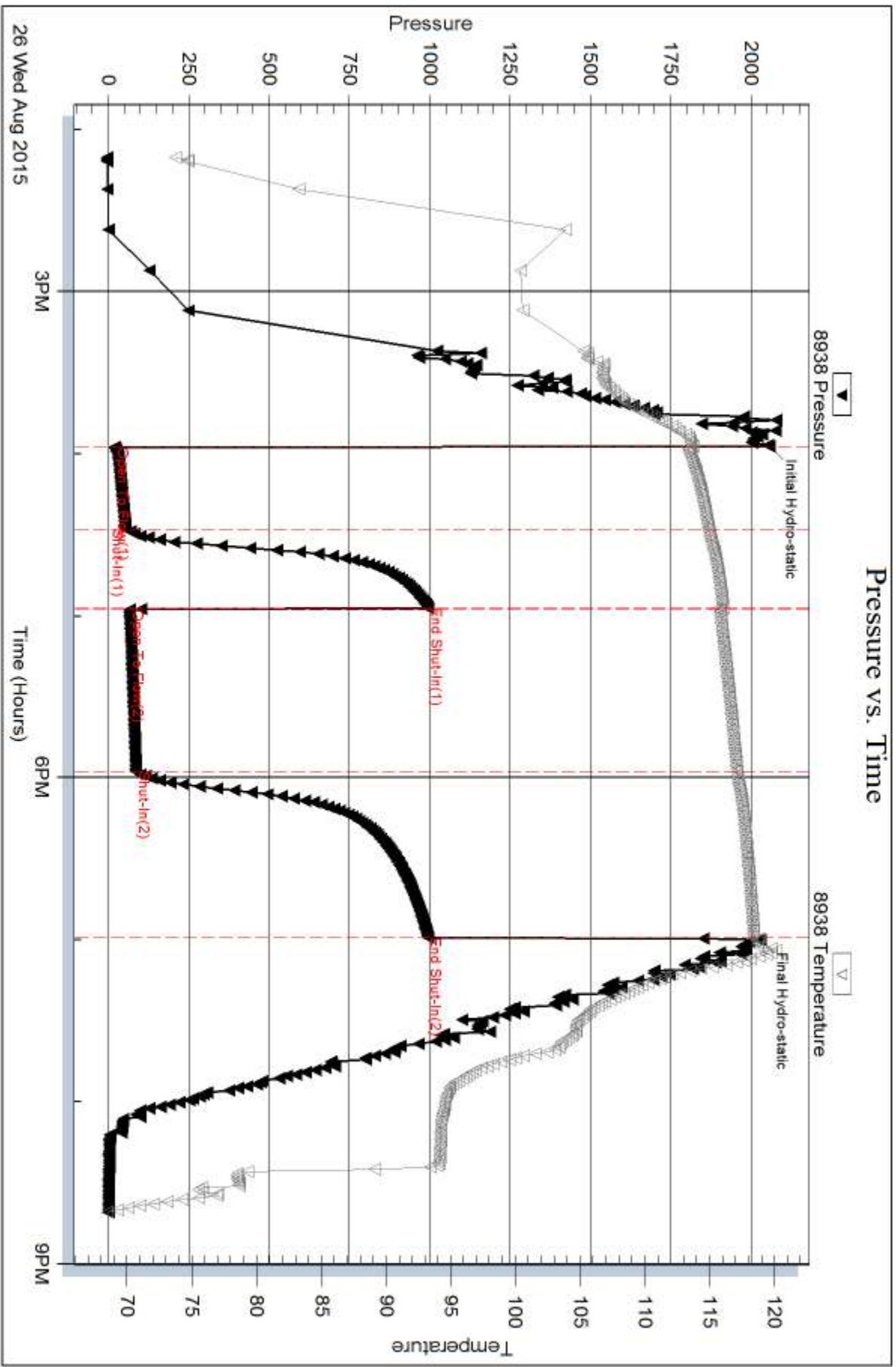
Serial #: 8938

Inside

Shakespeare Oil Comp. Inc

Bader #2-23

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 45506

Printed: 2015.08.27 @ 07:55:15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Comp. Inc

23-13s-32w Logan , Ks

202 West Main St
Salem, Il
62881 - 1519
ATTN: Tim Priest

Bader #2-23

Job Ticket: 45507

DST#: 3

Test Start: 2015.08.27 @ 07:10:17

GENERAL INFORMATION:

Formation: **K**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 08:45:17
 Time Test Ended: 13:35:17
 Interval: **4234.00 ft (KB) To 4265.00 ft (KB) (TVD)**
 Total Depth: 4265.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 84
 Reference Elevations: 3007.00 ft (KB)
 2998.00 ft (CF)
 KB to GR/CF: 9.00 ft

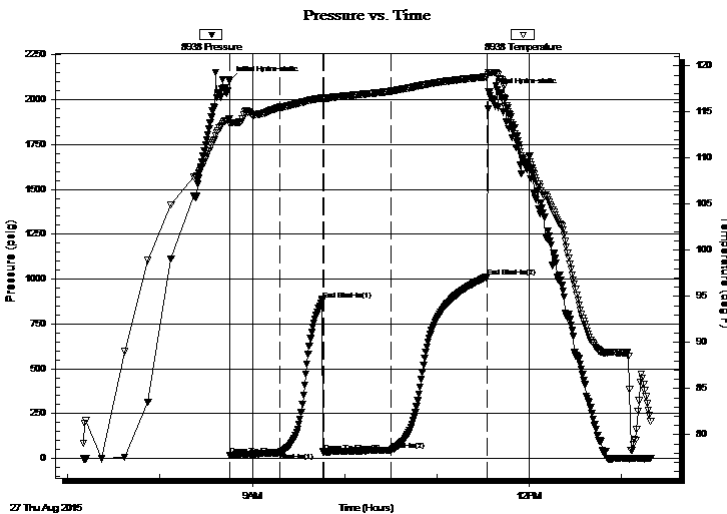
Serial #: 8938

Inside

Press@RunDepth: 47.69 psig @ 4235.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.08.27 End Date: 2015.08.27 Last Calib.: 2015.08.27
 Start Time: 07:10:17 End Time: 13:19:17 Time On Btm: 2015.08.27 @ 08:45:02
 Time Off Btm: 2015.08.27 @ 11:33:47

TEST COMMENT: Surface blow , blew throughout
 No return
 Surface blow , blew throughout
 No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.57	114.24	Initial Hydro-static
1	16.41	113.73	Open To Flow (1)
33	31.81	115.48	Shut-In(1)
61	885.76	116.55	End Shut-In(1)
62	34.23	116.38	Open To Flow (2)
106	47.69	117.25	Shut-In(2)
168	1012.66	118.82	End Shut-In(2)
169	2041.77	119.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	s o c m 3%o 97%m	0.30
0.00	2" inches free oil on top	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 Comp. Inc

23-13s-32w Logan , Ks

202 West Main St
Salem, Il
62881 - 1519
ATTN: Tim Priest

Bader #2-23

Job Ticket: 45507

DST#: 3

Test Start: 2015.08.27 @ 07:10:17

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.98 in³

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	s o c m 3%o 97%m	0.295
0.00	2" inches free oil on top	0.000

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

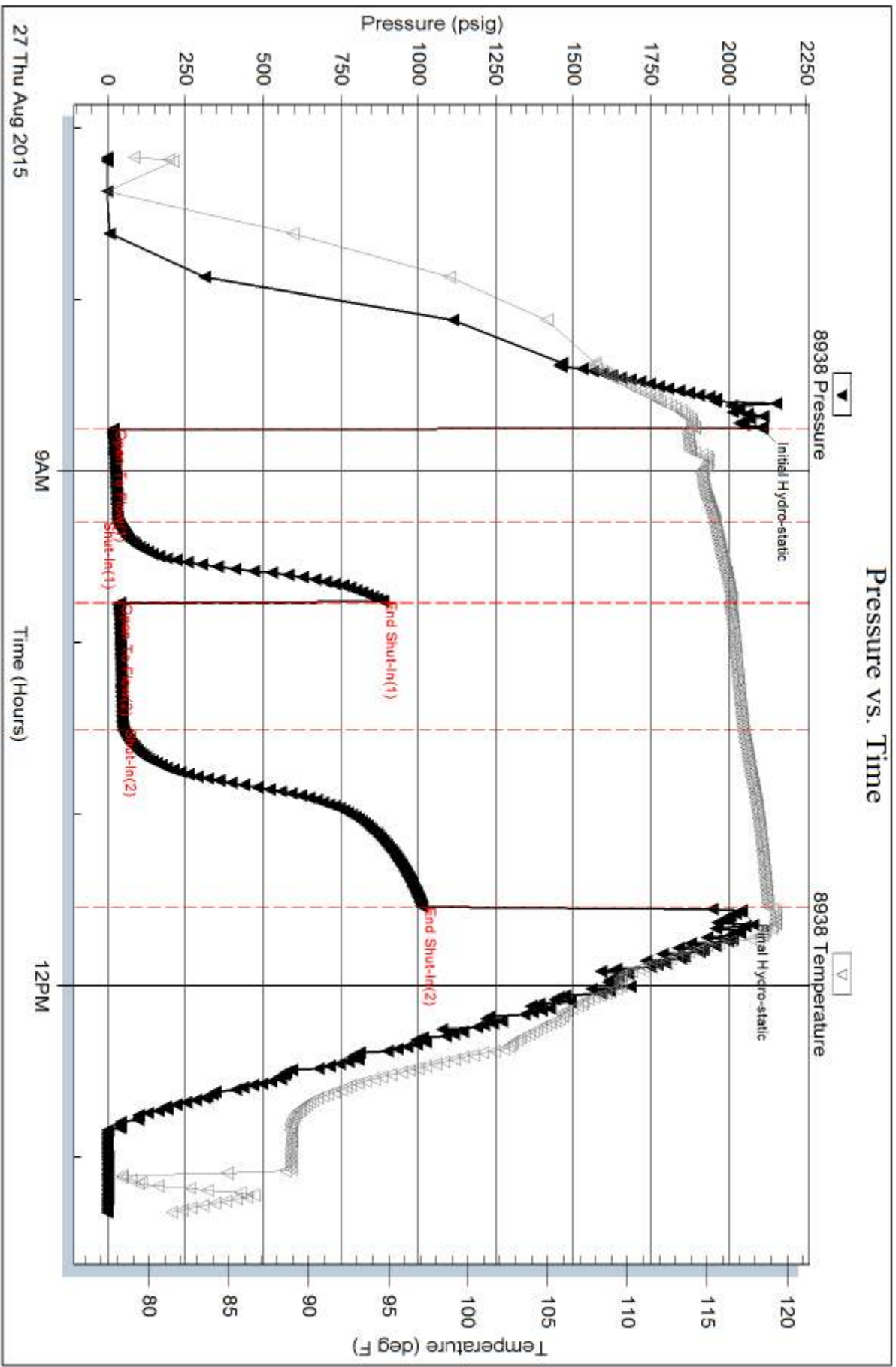
Serial #: 8938

Inside

Shakespeare Oil Comp. Inc

Bader #2-23

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 45507

Printed: 2015.08.27 @ 14:44:17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Comp. Inc

23-13s-32w Logan , Ks

202 West Main St
Salem, Il
62881 - 1519
ATTN: Tim Priest

Bader #2-23

Job Ticket: 45508

DST#: 4

Test Start: 2015.08.29 @ 02:46:01

GENERAL INFORMATION:

Formation: **Johnson - Sand**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 04:46:31

Time Test Ended: 10:30:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 84

Interval: 4553.00 ft (KB) To 4600.00 ft (KB) (TVD)

Reference Elevations: 3007.00 ft (KB)

Total Depth: 4600.00 ft (KB) (TVD)

2998.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8938

Inside

Press @ Run Depth: 113.22 psig @ 4554.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.29

End Date: 2015.08.29

Last Calib.: 2015.08.29

Start Time: 02:46:01

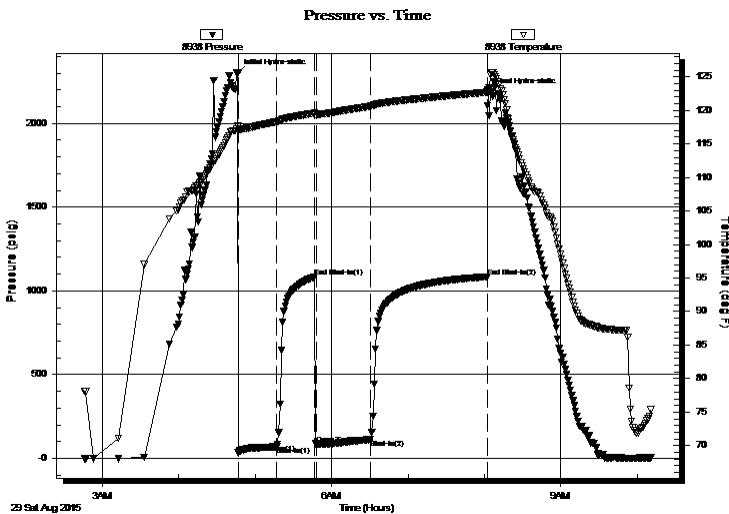
End Time: 10:11:01

Time On Btm: 2015.08.29 @ 04:46:16

Time Off Btm: 2015.08.29 @ 08:03:16

TEST COMMENT: B.O.B in 17 min
2 1/2" in return blow
B.O.B. in 17 min.
3" in return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.08	117.62	Initial Hydro-static
1	32.64	116.99	Open To Flow (1)
31	70.01	118.31	Shut-In(1)
61	1084.17	119.58	End Shut-In(1)
62	85.85	119.37	Open To Flow (2)
105	113.22	120.60	Shut-In(2)
196	1084.78	122.70	End Shut-In(2)
197	2181.60	122.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	g m c o 30g 30m 40o	0.30
300.00	c g o 30g 70o	3.63
0.00	480' gas in pipe	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 Comp. Inc

23-13s-32w Logan , Ks

202 West Main St
Salem, Il
62881 - 1519
ATTN: Tim Priest

Bader #2-23

Job Ticket: 45508

DST#: 4

Test Start: 2015.08.29 @ 02:46:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.20 in³

Resistivity: 0.00 ohm.m

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

26 deg API

Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	g m c o 30g 30m 40o	0.295
300.00	c g o 30g 70o	3.625
0.00	480' gas in pipe	0.000

Total Length: 360.00 ft Total Volume: 3.920 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

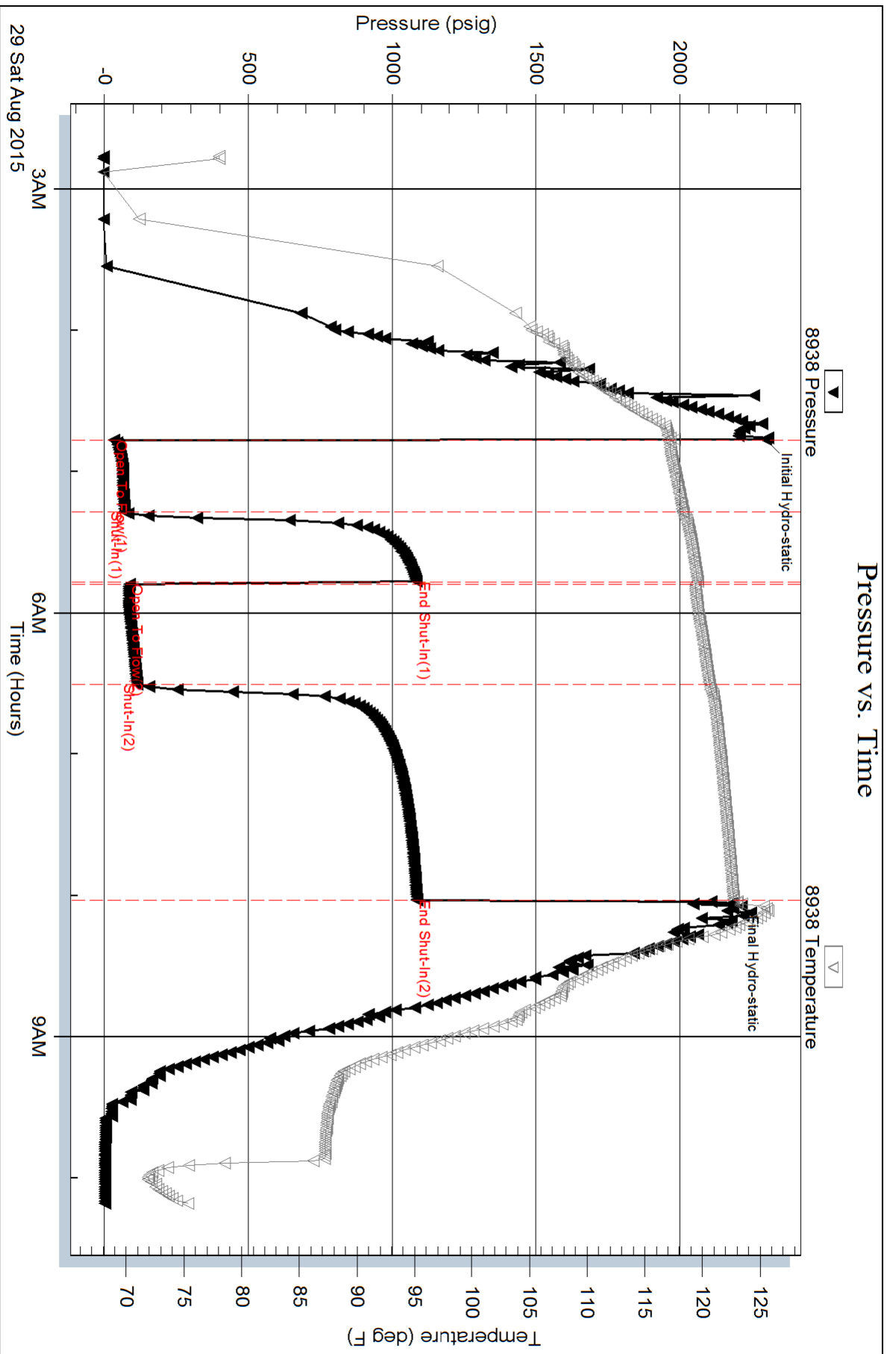
Serial #: 8938

Inside

Shakespeare Oil Corp. Inc

Bader #2-23

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 45508

Printed: 2015.08.29 @ 22:54:24