



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

H&B Petroleum Corp

**2-21s-12w Stafford, KS**

PO Box 277  
Ellinwood KS 67526

**Salem V #1**

Job Ticket: 49666

**DST#: 1**

ATTN: Al Hammersmith/Jim M

Test Start: 2012.10.22 @ 23:26:24

### GENERAL INFORMATION:

Formation: **Lower Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:43:09

Time Test Ended: 06:48:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

Interval: **3271.00 ft (KB) To 3334.00 ft (KB) (TVD)**

Reference Elevations: 1830.00 ft (KB)

Total Depth: 3334.00 ft (KB) (TVD)

1822.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6755**

**Outside**

Press@RunDepth: 31.93 psig @ 3272.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.22 End Date: 2012.10.23

Last Calib.: 2012.10.23

Start Time: 23:26:29 End Time: 06:48:53

Time On Btm: 2012.10.23 @ 01:40:09

Time Off Btm: 2012.10.23 @ 05:00:24

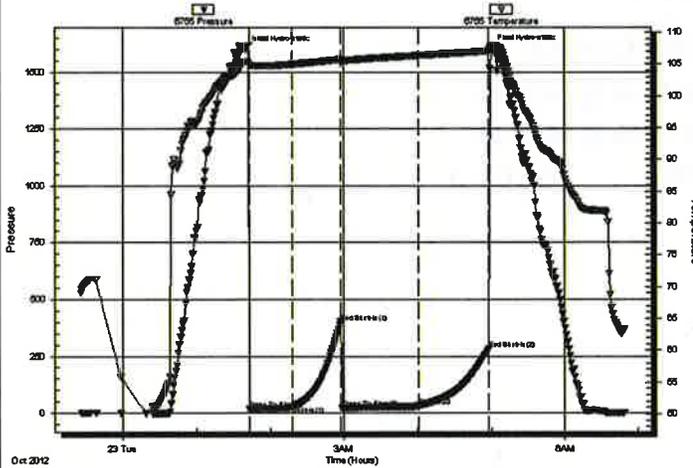
TEST COMMENT: IF: Weak blow 1 3/4"

IS: No blow back

FF: Weak blow 1 3/4"

FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1600.31	105.29	Initial Hydro-static
3	18.03	104.85	Open To Flow (1)
38	28.85	104.96	Shut-In(1)
78	400.04	105.75	End Shut-In(1)
80	23.40	105.56	Open To Flow (2)
141	31.93	106.34	Shut-In(2)
198	280.55	107.06	End Shut-In(2)
201	1602.40	107.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud with oil spots 1%oil 99% mud	0.42

Gas Rates

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





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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&B Petroleum Corp

**2-21s-12w Stafford,KS**

PO Box 277  
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**Salem V #1**

Job Ticket: 49666

**DST#: 1**

ATTN: Al Hammersmith/Jim M

Test Start: 2012.10.22 @ 23:26:24

### Tool Information

Drill Pipe:	Length: 3270.00 ft	Diameter: 3.80 inches	Volume: 45.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 45.87 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3271.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3251.00	
Shut In Tool	5.00			3256.00	
Hydraulic tool	5.00			3261.00	
Packer	5.00			3266.00	21.00 Bottom Of Top Packer
Packer	5.00			3271.00	
Stubb	1.00			3272.00	
Recorder	0.00	6773	Outside	3272.00	
Recorder	0.00	6755	Outside	3272.00	
Perforations	5.00			3277.00	
Change Over Sub	0.50			3277.50	
Drill Pipe	31.00			3308.50	
Change Over Sub	0.50			3309.00	
Perforations	22.00			3331.00	
Bullnose	3.00			3334.00	63.00 Bottom Packers & Anchor

**Total Tool Length: 84.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&B Petroleum Corp

**2-21s-12w Stafford,KS**

PO Box 277  
Ellinwood KS 67526

**Salem V #1**

Job Ticket: 49666

**DST#: 1**

ATTN: Al Hammersmith/Jim M

Test Start: 2012.10.22 @ 23:26:24

## 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:	48.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	7.98 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3400.00 ppm				
Filter Cake:	0.02 inches				

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	Mud with oil spots 1%oil 99% mud	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

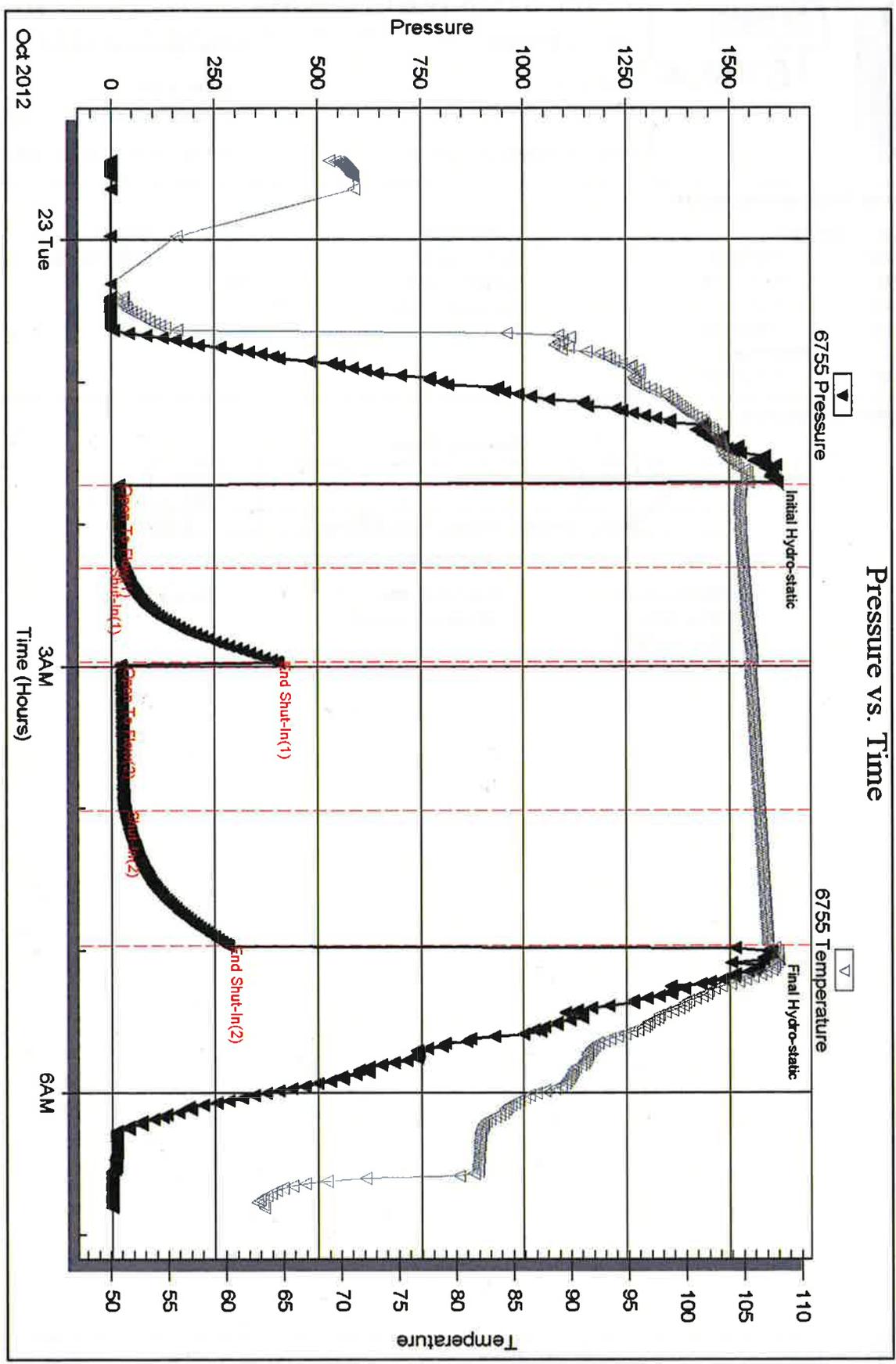
Serial #: 6755

Outside H&B Petroleum Corp

Salem V #1

DST Test Number: 1

### Pressure vs. Time



Triolite Testing, Inc

Ref. No: 49666

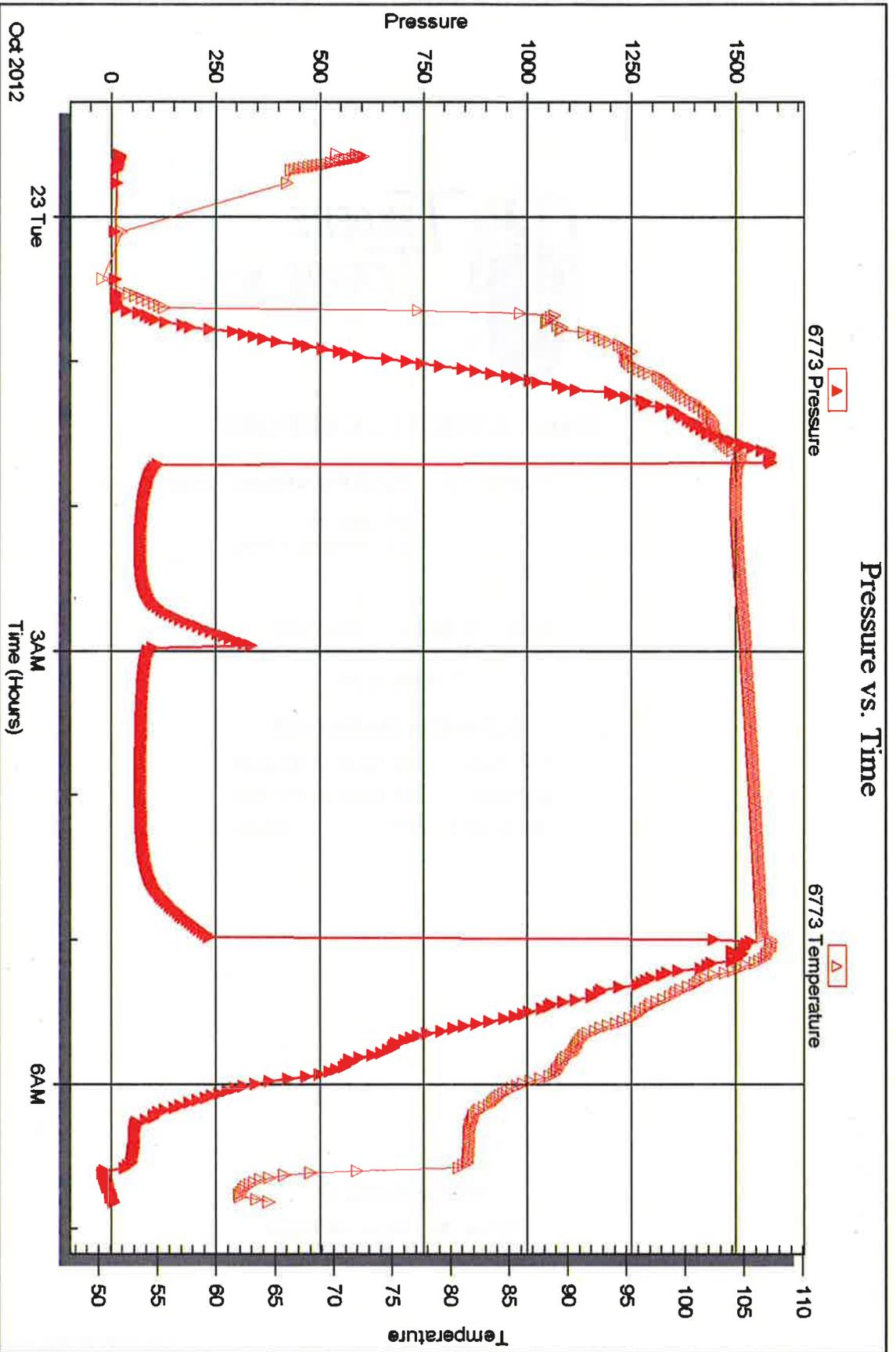
Printed: 2012.10.30 @ 08:07:34

Serial #: 6773

Outside H&B Petroleum Corp

Salem V #1

DST Test Number: 1





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TESTING, INC.**

## DRILL STEM TEST REPORT

H&B Petroleum Corp

**2-21s-12w Stafford,KS**

PO Box 277  
Ellinwood KS 67526

**Salem V #1**

Job Ticket: 49667

**DST#: 2**

ATTN: Al Hammersmith/Jim M

Test Start: 2012.10.23 @ 18:26:36

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:17:36

Time Test Ended: 01:31:21

Test Type: Conventional Bottom Hole (Reset)

Tester: Chris Staats

Unit No: 47

Interval: **3377.00 ft (KB) To 3412.00 ft (KB) (TVD)**

Total Depth: 3412.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1830.00 ft (KB)

1822.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6755**

**Outside**

Press@RunDepth: 138.40 psig @ 3378.00 ft (KB)

Start Date: 2012.10.23

End Date:

2012.10.24

Start Time: 18:26:41

End Time:

01:31:20

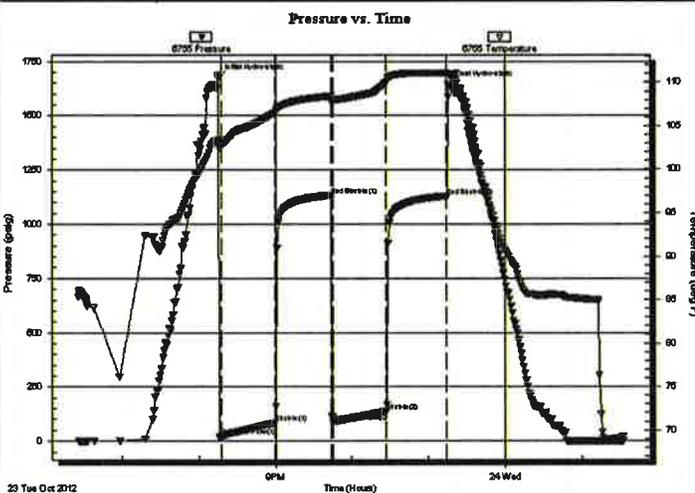
Capacity: 8000.00 psig

Last Calib.: 2012.10.24

Time On Btm: 2012.10.23 @ 20:15:36

Time Off Btm: 2012.10.23 @ 23:15:36

TEST COMMENT: IF: Strong blow BOB 18 min  
IS: Weak surface blow back  
FF: Strong blow BOB 30 min  
FS: Weak surface blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1675.17	103.33	Initial Hydro-static
2	20.64	102.82	Open To Flow (1)
44	84.10	106.47	Shut-In(1)
89	1133.69	108.38	End Shut-In(1)
90	86.62	107.93	Open To Flow (2)
132	138.40	109.96	Shut-In(2)
179	1129.18	111.04	End Shut-In(2)
180	1642.35	110.89	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
170.00	OIL 100%	2.38
90.00	O,G,M 5% oil 10% gas 85% mud	1.26
60.00	M,G,O,W 5% water 10% gas 10% oil 75%	0.84

\* Recovery from multiple tests

### Gas Rates

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





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TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&B Petroleum Corp

**2-21s-12w Stafford,KS**

PO Box 277  
Ellinwood KS 67526

**Salem V #1**

Job Ticket: 49667

**DST#: 2**

ATTN: Al Hammersmith/Jim M

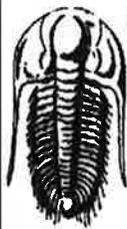
Test Start: 2012.10.23 @ 18:26:36

### Tool Information

Drill Pipe:	Length: 3362.00 ft	Diameter: 3.80 inches	Volume: 47.16 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.16 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3377.00 ft			Final 46500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3357.00	
Shut In Tool	5.00			3362.00	
Hydraulic tool	5.00			3367.00	
Packer	5.00			3372.00	21.00 Bottom Of Top Packer
Packer	5.00			3377.00	
Stubb	1.00			3378.00	
Recorder	0.00	6773	Outside	3378.00	
Recorder	0.00	6755	Outside	3378.00	
Perforations	31.00			3409.00	
Bullnose	3.00			3412.00	35.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>56.00</b>				



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**FLUID SUMMARY**

H&B Petroleum Corp

**2-21s-12w Stafford,KS**

PO Box 277  
Ellinwood KS 67526

**Salem V #1**

Job Ticket: 49667

**DST#: 2**

ATTN: Al Hammersmith/Jim M

Test Start: 2012.10.23 @ 18:26:36

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 64.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 3400.00 ppm  
Filter Cake: 0.02 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
170.00	OIL 100%	2.385
90.00	O,G,M 5% oil 10% gas 85% mud	1.262
60.00	M,G,O,W 5%water 10%gas 10%oil 75%mud	0.842

Total Length: 320.00 ft      Total Volume: 4.489 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

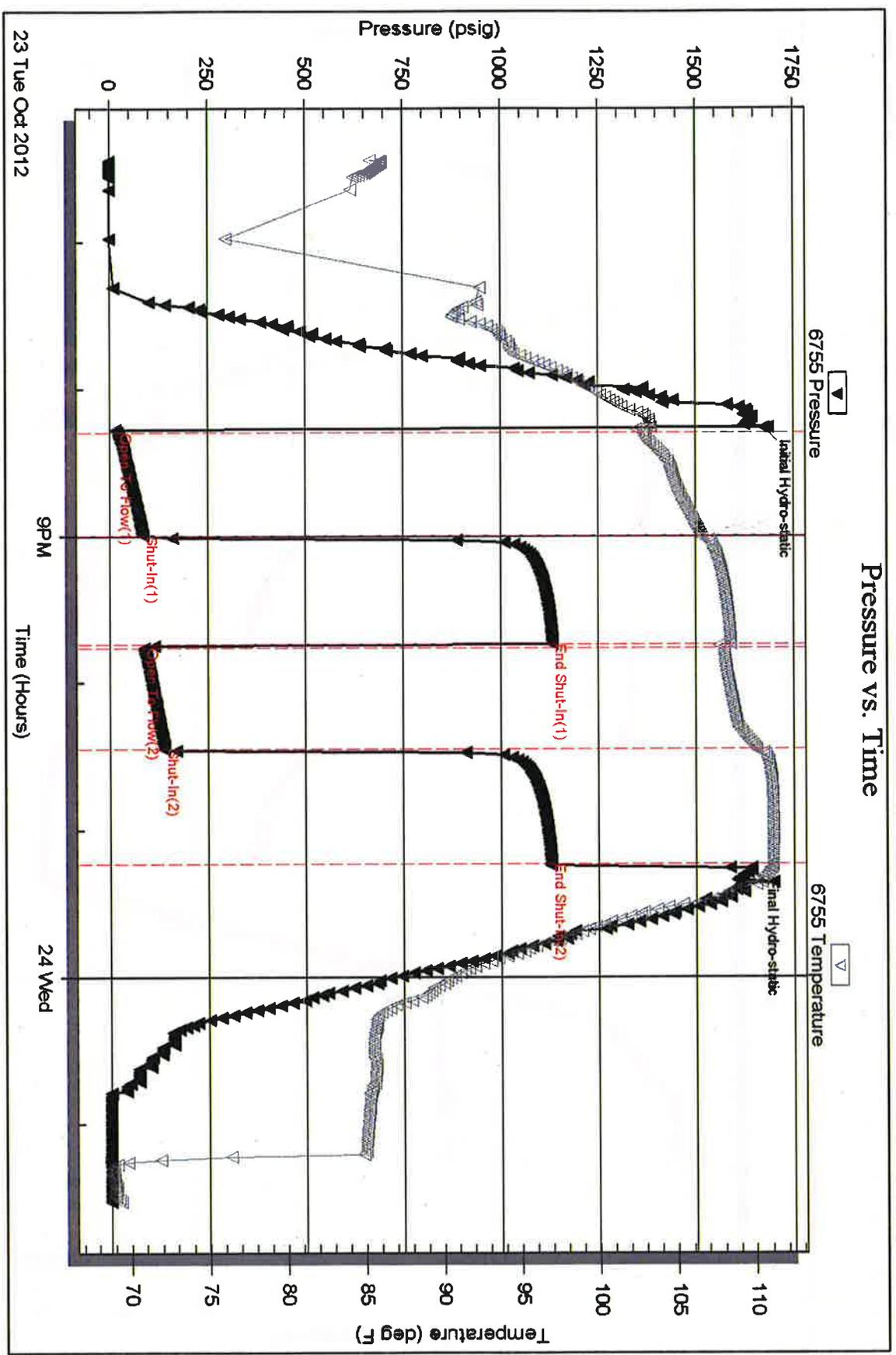
Serial #: 6755

Outside H&B Petroleum Corp

Salern V #1

DST Test Number: 2

### Pressure vs. Time

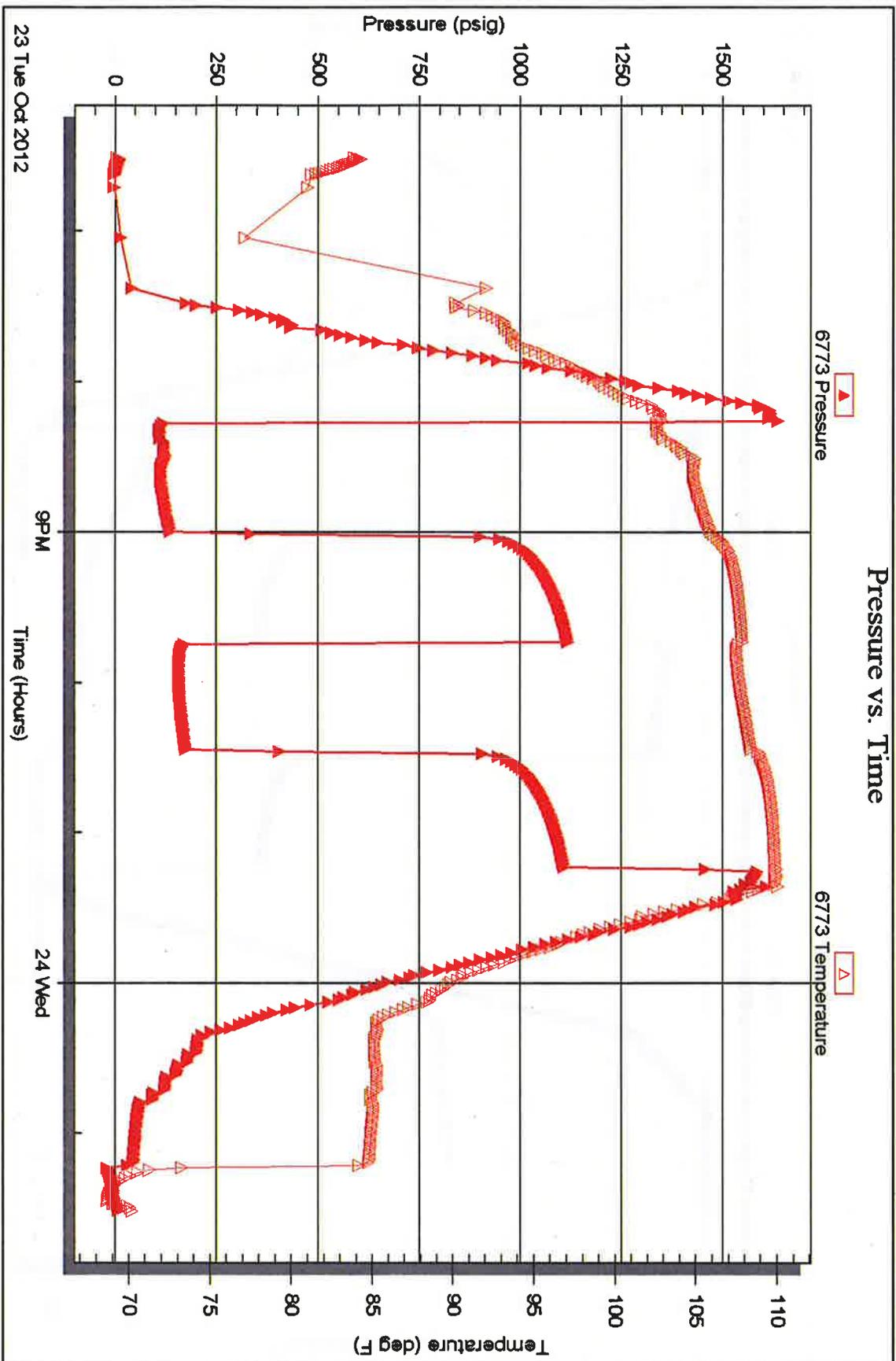


Serial #: 6773

Outside H&B Petroleum Corp

Salem V #1

DST Test Number: 2



Triadite Testing, Inc

Ref. No: 49667

Printed: 2012.10.30 @ 08:06:19



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49666

Well Name & No. Salem V #1 Test No. 1 Date 10-22-12  
 Company H+B Petroleum CORP. Elevation 1830 KB 1822 GL  
 Address Pobox 277 Ellinwood KS 67526  
 Co. Rep / Geo. A Hammersmith / Jim Musgrove Rig Southwind #6  
 Location: Sec. 2 Twp. 21 Rge. 12 Co. STAFFORD State KS

Interval Tested 3271-3334 Zone Tested Lansins  
 Anchor Length 63' Drill Pipe Run 3270 Mud Wt. 9.3  
 Top Packer Depth 3266 Drill Collars Run 0 Vis 48  
 Bottom Packer Depth 3271 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3334 Chlorides 3400 ppm System LCM 0

Blow Description IF: weak blow 1 3/4"  
ISI: No blow back

FF: weak blow 1 3/4"  
FST: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</u>	<u>MUD with oil spots</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

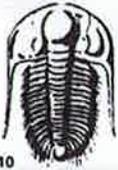
Rec Total 30' BHT 108 Gravity — API RW — @ — °F Chlorides 3400 ppm

(A) Initial Hydrostatic 1600  Test 1150 T-On Location 23:10  
 (B) First Initial Flow 18  Jars T-Started 23:26  
 (C) First Final Flow 28  Safety Joint T-Open 1:43  
 (D) Initial Shut-In 400  Circ Sub T-Pulled 5:00  
 (E) Second Initial Flow 23  Hourly Standby T-Out 6:45  
 (F) Second Final Flow 31  Mileage 100 miles 155 Comments \_\_\_\_\_  
 (G) Final Shut-In 280  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1602  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Shale Packer \_\_\_\_\_  
 Final Flow 60  Extra Packer \_\_\_\_\_  
 Final Shut-In 60  Extra Recorder \_\_\_\_\_  
 Sub Total 1305  
 Total 1305  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Ch. Ste

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49667

Well Name & No. Salem V#1 Test No. 2 Date 10-23-12  
 Company H+B Petroleum Corp Elevation 1830 KB 1822 GL  
 Address PO box 277 Ellinwood KS 67526  
 Co. Rep / Geo Al Hammersmith / Jim Mvsgrve Rig Southwind #6  
 Location: Sec. 2 Twp. 21 Rge. 12 Co. STAFFORD State KS

Interval Tested 3377 - 3412 Zone Tested Arbuckle  
 Anchor Length 35' Drill Pipe Run 3362 Mud Wt. 9.2  
 Top Packer Depth 3372 Drill Collars Run \_\_\_\_\_ Vis 64  
 Bottom Packer Depth 3377 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 3412 Chlorides 3400 ppm System LCM TR

Blow Description IF: Strong blow BOB 18 min  
ISI: Weak surface blow back  
FF: Strong blow BOB 30 min  
FSI: Weak surface blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>170'</u>	<u>OIL</u>		<u>100</u>		
<u>90</u>	<u>O, G, M</u>	<u>10</u>	<u>5</u>		<u>85</u>
<u>60</u>	<u>M, G, O, W</u>	<u>10</u>	<u>10</u>	<u>5</u>	<u>75</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 320 BHT 110 Gravity 49 API RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1675  Test 1150 T-On Location 18:10  
 (B) First Initial Flow 20  Jars T-Started 18:26  
 (C) First Final Flow 84  Safety Joint T-Open 20:17  
 (D) Initial Shut-In 1133  Circ Sub T-Pulled 23:15  
 (E) Second Initial Flow 86  Hourly Standby T-Out 1:15  
 (F) Second Final Flow 138  Mileage 100 Miles 155 Comments \_\_\_\_\_  
 (G) Final Shut-In 1129  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1642  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_

Initial Open 45 Sub Total 0  
 Initial Shut-In 45 Total 1305  
 Final Flow 45 MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1305

Approved By [Signature] Our Representative [Signature]  
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