



## DRILL STEM TEST REPORT

Prepared For: **H & B Petroleum Corp.**

PO Box 277  
Ellinwood , KS 67526

ATTN: Jim Musgrove

### **Suppes #1**

#### **23-19s-31w Scott,KS**

Start Date: 2013.09.05 @ 11:15:00

End Date: 2013.09.05 @ 17:20:30

Job Ticket #: 52861                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.10 @ 10:10:45

H & B Petroleum Corp. 23-19s-31w Scott,KS Suppes #1 DST # 1 " 1 " 2013.09.05



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52861

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2013.09.05 @ 11:15:00

## GENERAL INFORMATION:

Formation: "I"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:13:45

Time Test Ended: 17:20:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Sam Esparza

Unit No: 64

Interval: 4275.00 ft (KB) To 4300.00 ft (KB) (TVD)

Total Depth: 4300.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2955.00 ft (KB)

2946.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8845**

**Outside**

Press@RunDepth: 66.24 psig @ 4276.00 ft (KB)

Start Date: 2013.09.05

End Date:

2013.09.05

Capacity: 8000.00 psig

Last Calib.: 2013.09.05

Start Time: 11:15:05

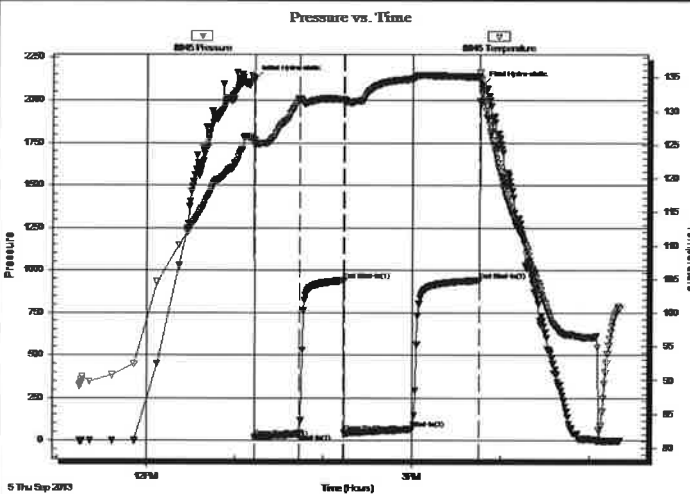
End Time:

17:20:29

Time On Btm: 2013.09.05 @ 13:13:30

Time Off Btm: 2013.09.05 @ 15:46:45

**TEST COMMENT:** IF: 1/4" Blow died back to a Weak Surface Blow.  
IS: No Return.  
FF: Weak Surface Blow died @ 31 min.  
FSI: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.26	125.71	Initial Hydro-static
1	17.42	124.86	Open To Flow (1)
31	37.74	131.85	Shut-In(1)
61	938.84	131.77	End Shut-In(1)
61	44.18	131.27	Open To Flow (2)
107	66.24	134.83	Shut-In(2)
152	938.86	135.12	End Shut-In(2)
154	2090.03	133.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 5g 5o 90m	0.84
50.00	GO 10g 90o	0.70

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

H & B Petroleum Corp.

**23-19s-31w Scott, KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52861

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2013.09.05 @ 11:15:00

### GENERAL INFORMATION:

Formation: "I"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:13:45

Time Test Ended: 17:20:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Sam Esparza

Unit No: 64

Interval: **4275.00 ft (KB) To 4300.00 ft (KB) (TVD)**

Reference Elevations: 2955.00 ft (KB)

Total Depth: 4300.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 6772 Outside**

Press@RunDepth: psig @ 4276.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.05 End Date: 2013.09.05

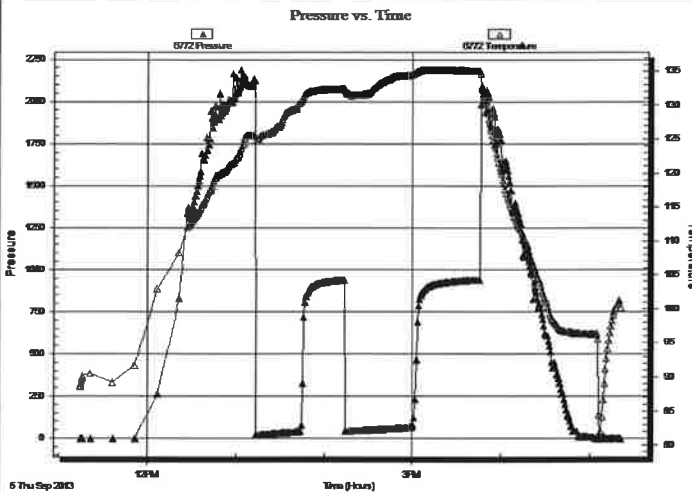
Last Calib.: 2013.09.05

Start Time: 11:15:05 End Time: 17:20:44

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: 1/4" Blow died back to a Weak Surface Blow.  
IS: No Return.  
FF: Weak Surface Blow died @ 31 min.  
FSI: No Return.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 5g 5o 90m	0.84
50.00	GO 10g 90o	0.70

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52861

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2013.09.05 @ 11:15:00

### Tool Information

Drill Pipe:	Length: 4277.00 ft	Diameter: 3.80 inches	Volume: 60.00 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: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 60.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4275.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 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			4248.00	
Shut In Tool	5.00			4253.00	
Hydraulic tool	5.00			4258.00	
Jars	5.00			4263.00	
Safety Joint	3.00			4266.00	
Packer	5.00			4271.00	28.00 Bottom Of Top Packer
Packer	4.00			4275.00	
Stubb	1.00			4276.00	
Recorder	0.00	6772	Outside	4276.00	
Recorder	0.00	8845	Outside	4276.00	
Perforations	19.00			4295.00	
Bullnose	5.00			4300.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52861

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2013.09.05 @ 11:15:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 5g 5o 90m	0.842
50.00	GO 10g 90o	0.701

Total Length: 110.00 ft      Total Volume: 1.543 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

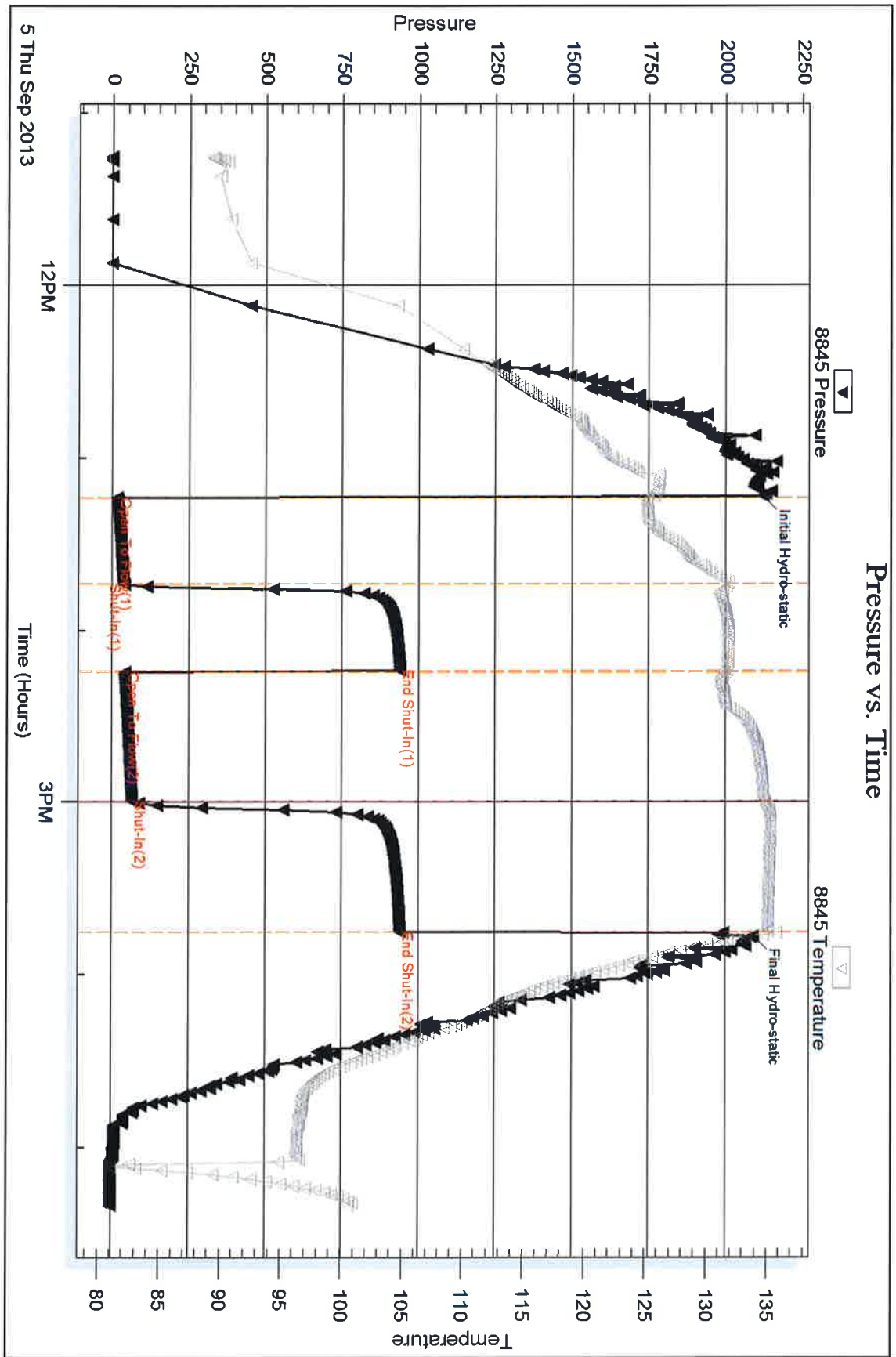
Recovery Comments: Oil API: 31 @ 100 Degrees= 27 deg API

Serial #: 8845

Outside H & B Petroleum Corp.

Slippes #1

DST Test Number: 1



Trioble Testing, Inc

Ref. No: 52861

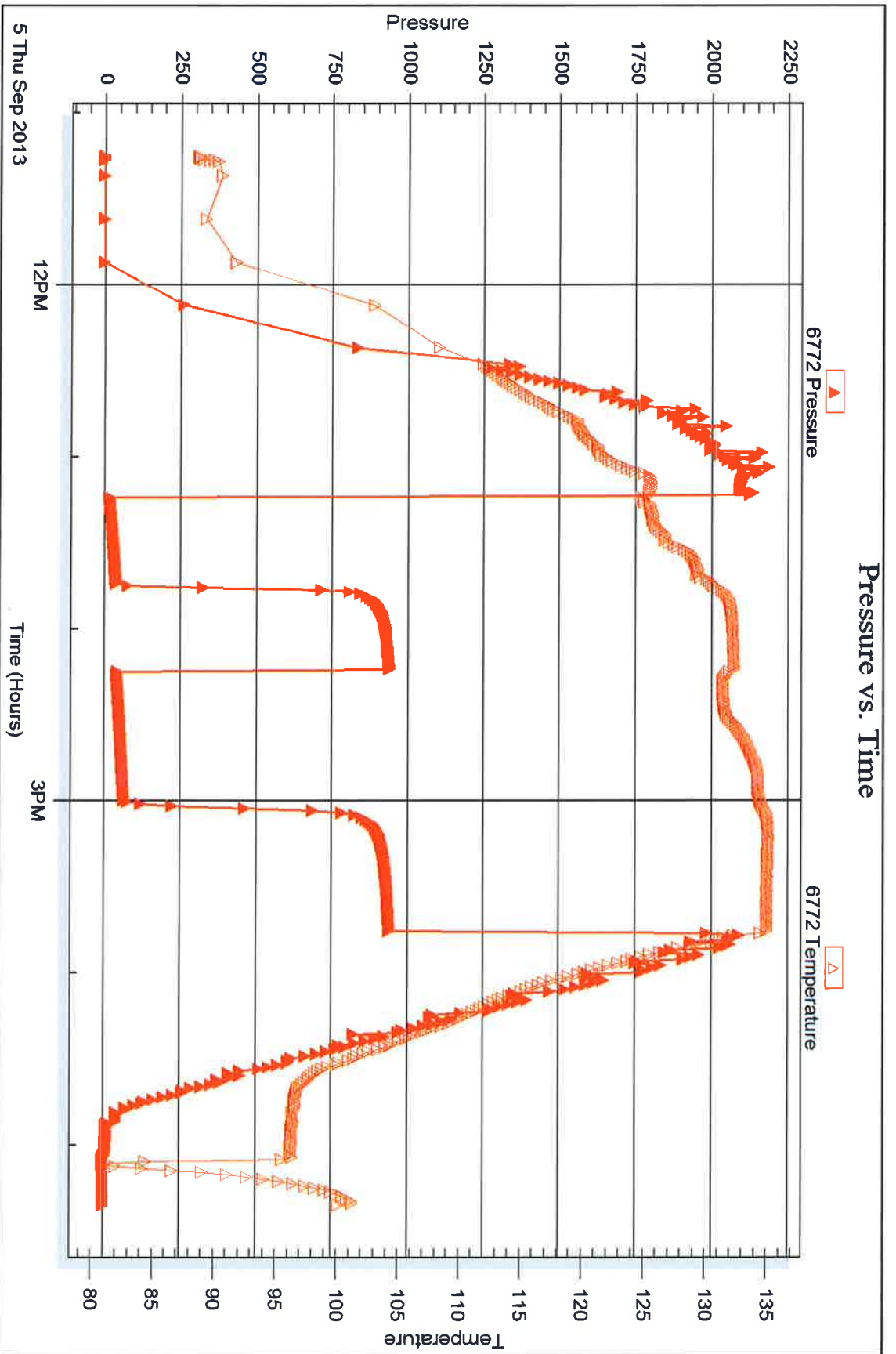
Printed: 2013.09.10 @ 10:10:47

Serial #: 6772

Outside H & B Petroleum Corp.

Suppes #1

DST Test Number: 1



Trachite Testing, Inc

Ref. No: 52861

Printed: 2013.09.10 @ 10:10:47



## DRILL STEM TEST REPORT

Prepared For: **H & B Petroleum Corp.**

PO Box 277  
Ellinwood , KS 67526

ATTN: Jim Musgrove

### **Suppes #1**

#### **23-19s-31w Scott,KS**

Start Date: 2013.09.06 @ 03:30:00

End Date: 2013.09.06 @ 10:47:30

Job Ticket #: 52862                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.10 @ 10:10:13

H & B Petroleum Corp. 23-19s-31w Scott,KS Suppes #1 DST # 2 "K" 2013.09.06





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H & B Petroleum Corp.  
PO Box 277  
Ellinwood, KS 67526  
ATTN: Jim Musgrove

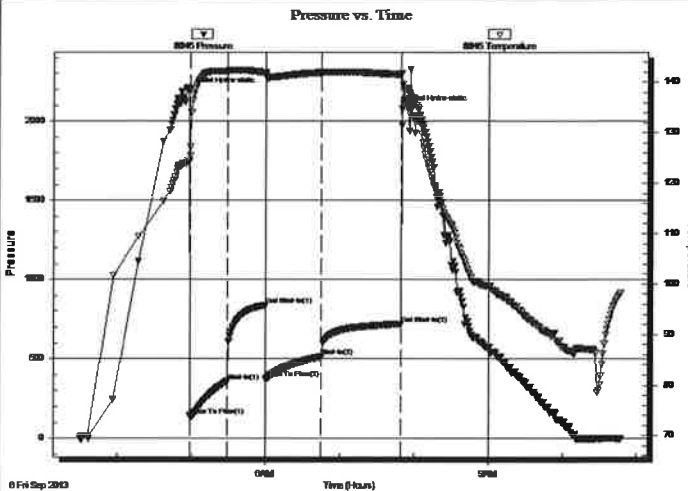
**23-19s-31w Scott, KS**  
**Suppes #1**  
Job Ticket: 52862      **DST#: 2**  
Test Start: 2013.09.06 @ 03:30:00

## GENERAL INFORMATION:

Formation: **"K"**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 04:58:30  
Time Test Ended: 10:47:30  
Interval: **4313.00 ft (KB) To 4343.00 ft (KB) (TVD)**  
Total Depth: 4343.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Sam Esparza  
Unit No: 64  
Reference Elevations: 2955.00 ft (KB)  
2946.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 8845      Outside**  
Press@RunDepth: 513.62 psig @ 4315.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.09.06      End Date: 2013.09.06      Last Calib.: 2013.09.06  
Start Time: 03:30:05      End Time: 10:47:29      Time On Btm: 2013.09.06 @ 04:58:00  
Time Off Btm: 2013.09.06 @ 07:50:00

**TEST COMMENT:** IF: BOB @ 1 1/2 min.  
IS: Bled off for 5 min. 1/2" Return.  
FF: BOB @ 5 min.  
FSI: Bled off for 5 min. No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2189.25	124.27	Initial Hydro-static
1	142.03	125.41	Open To Flow (1)
31	359.80	142.18	Shut-In(1)
62	837.11	141.90	End Shut-In(1)
62	375.62	141.54	Open To Flow (2)
107	513.62	141.89	Shut-In(2)
171	718.55	141.47	End Shut-In(2)
172	2076.69	141.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
190.00	GOMCW 5g 5o 20m 70w	2.67
250.00	GMVCO 5m 5w 20g 70o	3.51
830.00	GO 20g 80o	11.64
0.00	250' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

H & B Petroleum Corp.  
PO Box 277  
Ellinwood, KS 67526  
ATTN: Jim Musgrove

23-19s-31w Scott, KS

Suppes #1

Job Ticket: 52862

DST#: 2

Test Start: 2013.09.06 @ 03:30:00

### GENERAL INFORMATION:

Formation: "K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:58:30

Time Test Ended: 10:47:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4313.00 ft (KB) To 4343.00 ft (KB) (TVD)

Reference Elevations: 2955.00 ft (KB)

Total Depth: 4343.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6772 Outside

Press@RunDepth: psig @ 4315.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.06

End Date:

2013.09.06

Last Calib.:

2013.09.06

Start Time: 03:30:05

End Time:

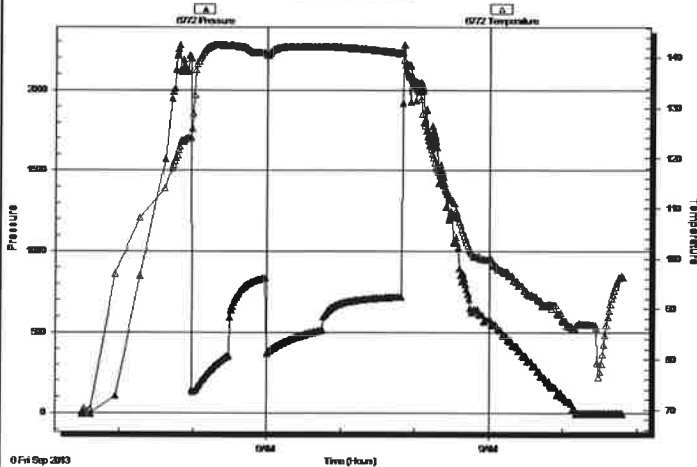
10:47:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 1 1/2 min.  
IS: Bled off for 5 min. 1/2" Return.  
FF: BOB @ 5 min.  
FSI: Bled off for 5 min. No Return.

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
190.00	GOMCW 5g 5o 20m 70w	2.67
250.00	GMMCO 5m 5w 20g 70o	3.51
830.00	GO 20g 80o	11.64
0.00	250' GIP	0.00

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52862

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2013.09.06 @ 03:30:00

### Tool Information

Drill Pipe:	Length: 4311.00 ft	Diameter: 3.80 inches	Volume: 60.47 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: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 60.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	4314.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	57.00 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			4287.00	
Shut In Tool	5.00			4292.00	
Hydraulic tool	5.00			4297.00	
Jars	5.00			4302.00	
Safety Joint	3.00			4305.00	
Packer	5.00			4310.00	28.00 Bottom Of Top Packer
Packer	4.00			4314.00	
Stubb	1.00			4315.00	
Recorder	0.00	6772	Outside	4315.00	
Recorder	0.00	8845	Outside	4315.00	
Perforations	23.00			4338.00	
Bullnose	5.00			4343.00	29.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>57.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52862

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2013.09.06 @ 03:30:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

40000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	GOMCW 5g 5o 20m 70w	2.665
250.00	GMMCO 5m 5w 20g 70o	3.507
830.00	GO 20g 80o	11.643
0.00	250' GIP	0.000

Total Length: 1270.00 ft      Total Volume: 17.815 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API: 31 @ 90 degrees = 28 deg API

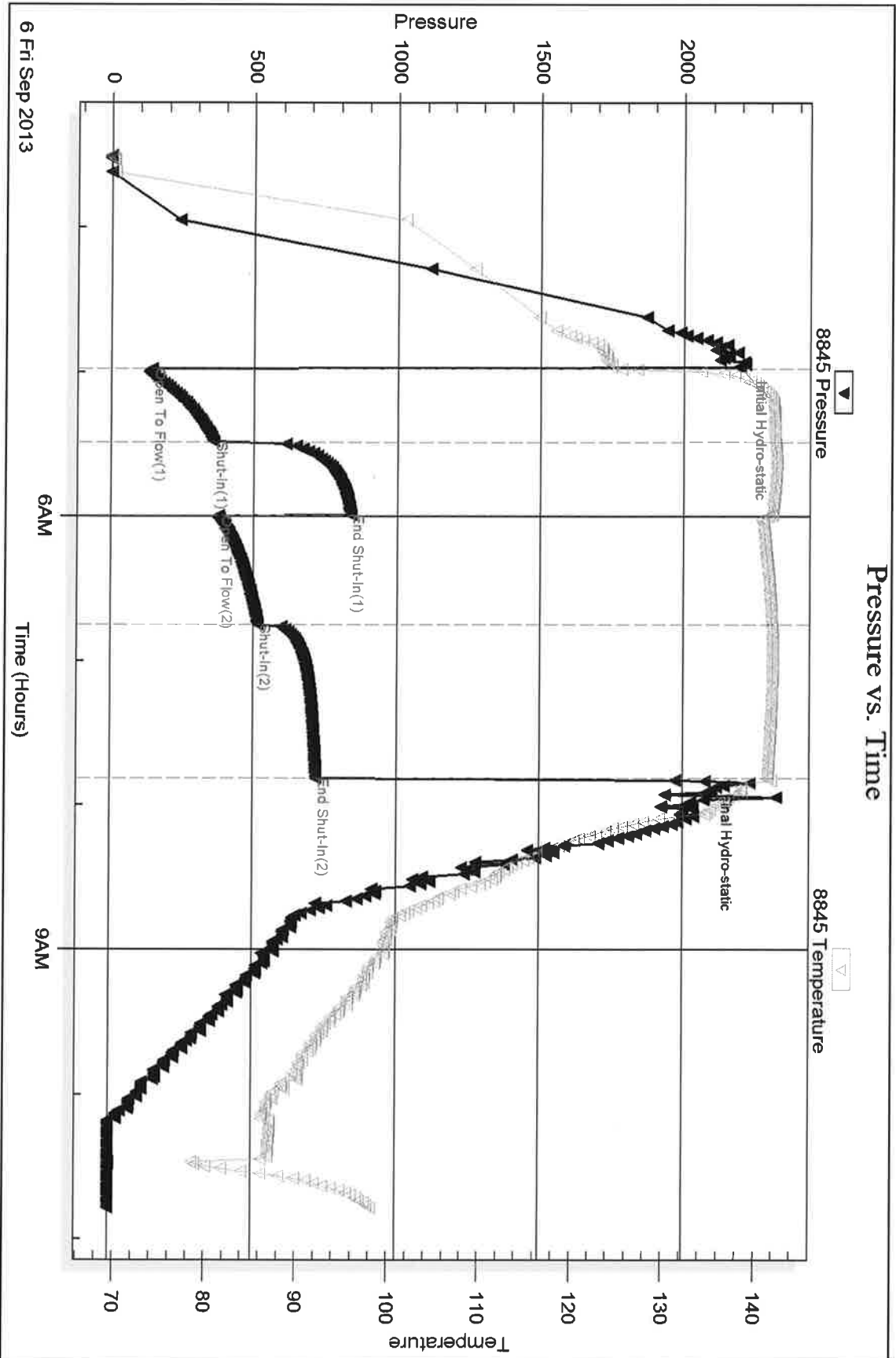
Water Salinity: .146 @ 83 degrees = 40,000 ppm

Serial #: 8845

Outside H & B Petroleum Corp.

Suppes #1

DST Test Number: 2



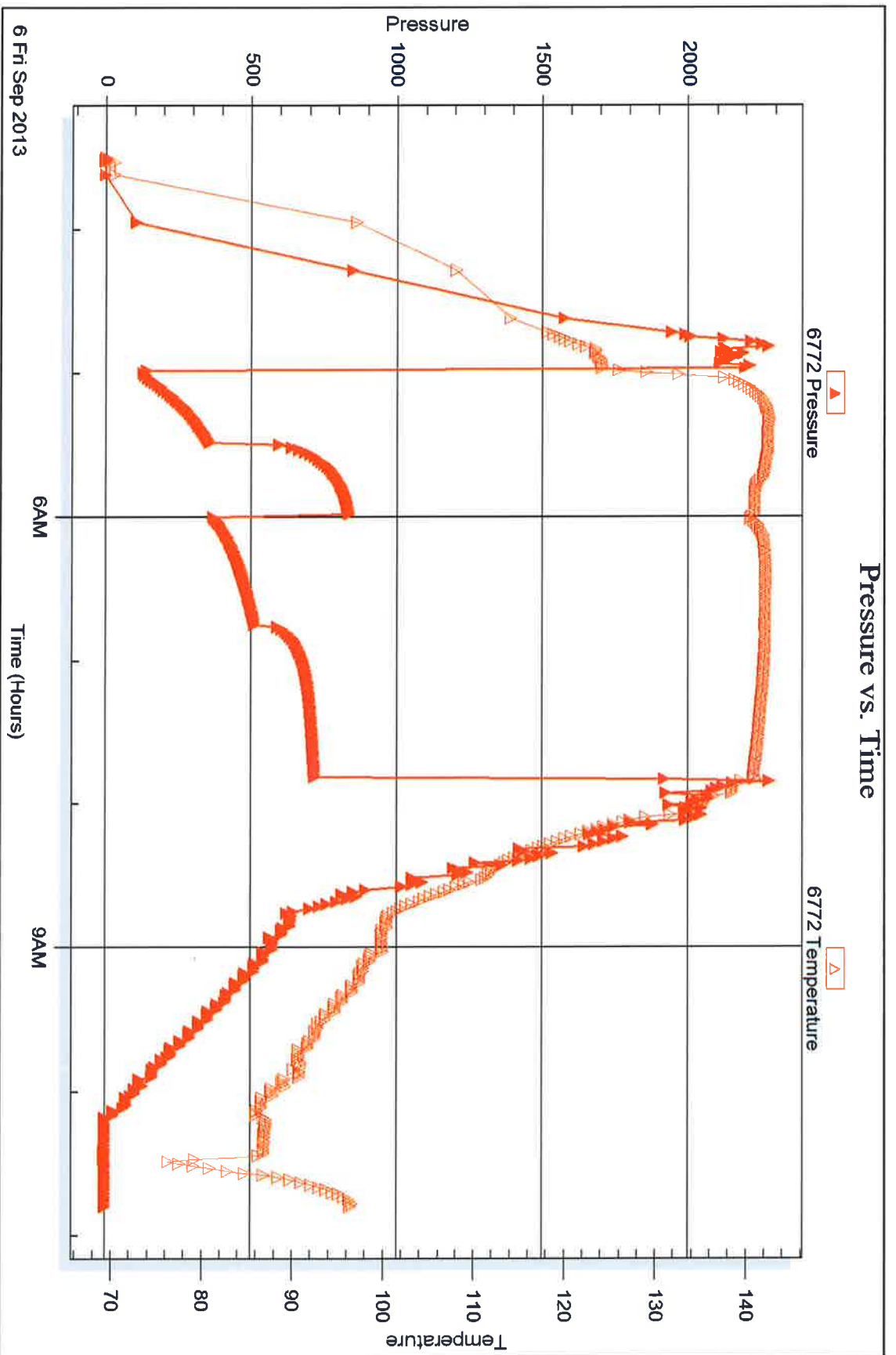
Serial #: 6772

Outside

H & B Petroleum Corp.

Suppes #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52862

Printed: 2013.09.10 @ 10:10:14



## DRILL STEM TEST REPORT

Prepared For: **H & B Petroleum Corp.**

PO Box 277  
Ellinwood , KS 67526

ATTN: Jim Musgrove

### **Suppes #1**

#### **23-19s-31w Scott,KS**

Start Date: 2013.09.07 @ 01:17:00

End Date: 2013.09.07 @ 07:20:30

Job Ticket #: 52863                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.10 @ 10:09:37



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H & B Petroleum Corp.  
PO Box 277  
Ellinwood, KS 67526  
ATTN: Jim Musgrove

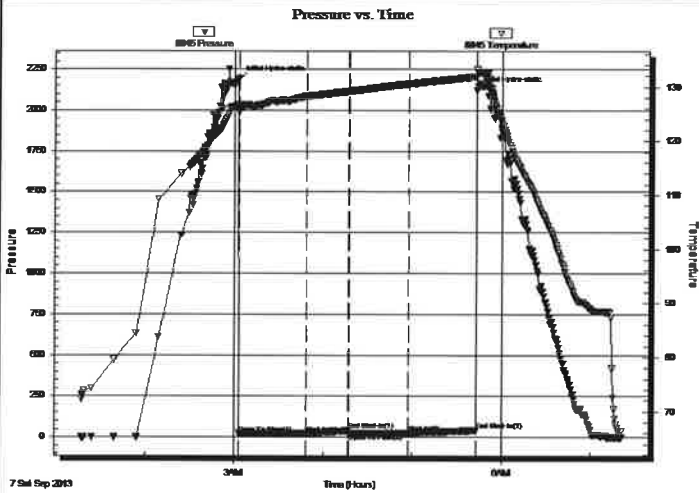
**23-19s-31w Scott,KS**  
**Suppes #1**  
Job Ticket: 52863      **DST#: 3**  
Test Start: 2013.09.07 @ 01:17:00

## GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: No      Whipstock:                      ft (KB)  
Time Tool Opened: 03:03:00  
Time Test Ended: 07:20:30  
Interval: **4417.00 ft (KB) To 4447.00 ft (KB) (TVD)**  
Total Depth: 4447.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Sam Esparza  
Unit No: 64  
Reference Elevations: 2955.00 ft (KB)  
2946.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 8845      Outside**  
Press@RunDepth: 22.58 psig @ 4418.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.09.07      End Date: 2013.09.07      Last Calib.: 2013.09.07  
Start Time: 01:17:05      End Time: 07:20:29      Time On Btm: 2013.09.07 @ 03:02:45  
Time Off Btm: 2013.09.07 @ 05:43:00

TEST COMMENT: IF: 3/4" Blow.  
IS: No Return.  
FF: No Blow.  
FSI: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.65	126.76	Initial Hydro-static
1	20.32	125.36	Open To Flow (1)
46	20.75	128.25	Shut-In(1)
74	38.77	129.17	End Shut-In(1)
75	22.61	129.18	Open To Flow (2)
115	22.58	130.54	Shut-In(2)
160	39.91	131.91	End Shut-In(2)
161	2120.89	133.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 20o 80m ( Oil Scum on top )	0.21

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

H & B Petroleum Corp.  
PO Box 277  
Ellinwood, KS 67526  
ATTN: Jim Musgrove

**23-19s-31w Scott, KS**

**Suppes #1**

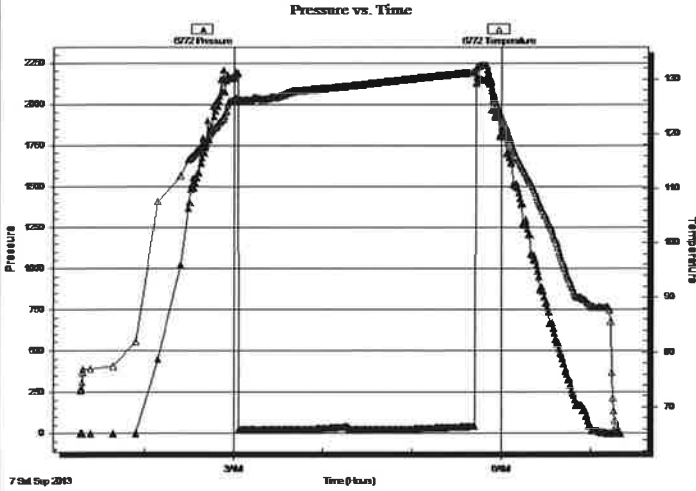
Job Ticket: 52863      **DST#: 3**  
Test Start: 2013.09.07 @ 01:17:00

**GENERAL INFORMATION:**

<b>Formation:</b> <b>Marmaton</b>	<b>Test Type:</b> Conventional Bottom Hole (Reset)
<b>Deviated:</b> No <b>Whipstock:</b> ft (KB)	<b>Tester:</b> Sam Esparza
<b>Time Tool Opened:</b> 03:03:00	<b>Unit No:</b> 64
<b>Time Test Ended:</b> 07:20:30	
<b>Interval:</b> 4417.00 ft (KB) To 4447.00 ft (KB) (TVD)	<b>Reference Elevations:</b> 2955.00 ft (KB)
<b>Total Depth:</b> 4447.00 ft (KB) (TVD)	2946.00 ft (CF)
<b>Hole Diameter:</b> 7.88 inches <b>Hole Condition:</b> Good	<b>KB to GR/CF:</b> 9.00 ft

<b>Serial #: 6772</b> <b>Outside</b>	<b>Capacity:</b> 8000.00 psig
<b>Press@RunDepth:</b> psig @ 4418.00 ft (KB)	<b>Last Calib.:</b> 2013.09.07
<b>Start Date:</b> 2013.09.07 <b>End Date:</b> 2013.09.07	<b>Time On Btm:</b>
<b>Start Time:</b> 01:17:05 <b>End Time:</b> 07:20:14	<b>Time Off Btm:</b>

**TEST COMMENT:** IF: 3/4" Blow.  
IS: No Return.  
FF: No Blow.  
FSI: No Return.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
15.00	OCM 20o 80m ( Oil Scum on top )	0.21

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52863

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2013.09.07 @ 01:17:00

### Tool Information

Drill Pipe:	Length: 4405.00 ft	Diameter: 3.80 inches	Volume: 61.79 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: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 61.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4417.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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			4390.00	
Shut In Tool	5.00			4395.00	
Hydraulic tool	5.00			4400.00	
Jars	5.00			4405.00	
Safety Joint	3.00			4408.00	
Packer	5.00			4413.00	28.00 Bottom Of Top Packer
Packer	4.00			4417.00	
Stubb	1.00			4418.00	
Recorder	0.00	6772	Outside	4418.00	
Recorder	0.00	8845	Outside	4418.00	
Perforations	24.00			4442.00	
Bullnose	5.00			4447.00	30.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>58.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52863

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2013.09.07 @ 01:17:00

### 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 20o 80m ( Oil Scum on top )	0.210

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

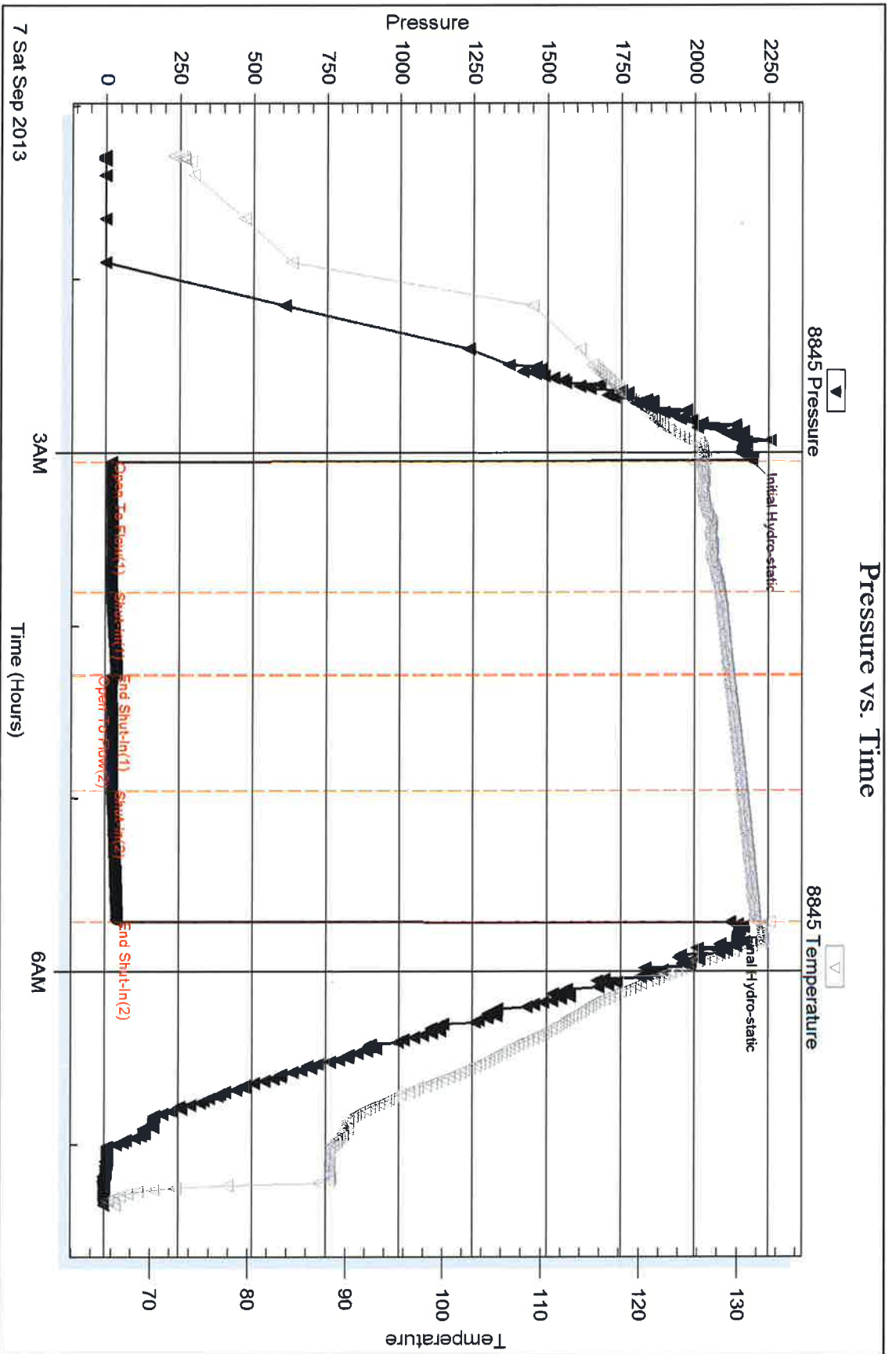
Recovery Comments:

Serial #: 8845

Outside H & B Petroleum Corp.

Suppes #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 52863

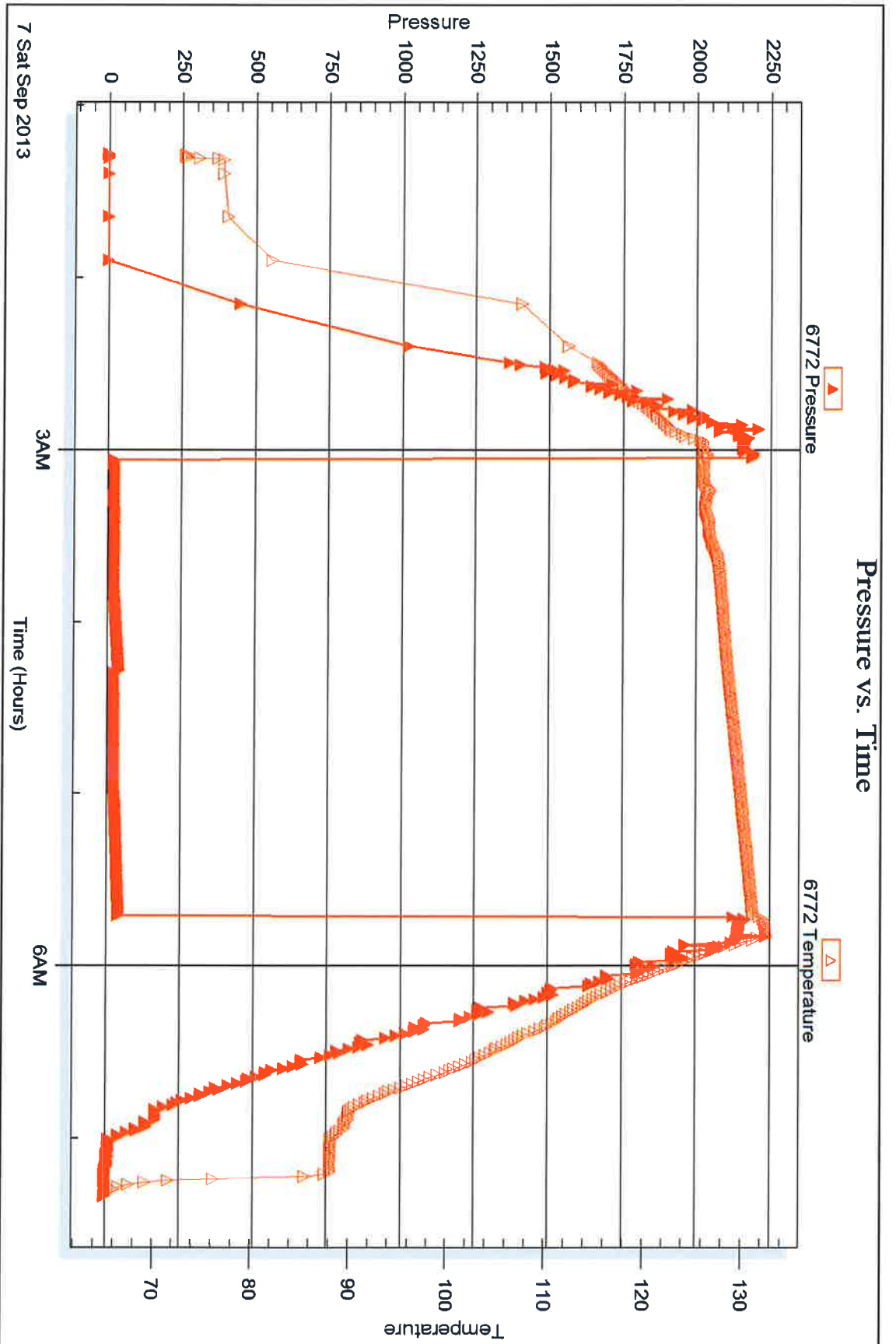
Printed: 2013.09.10 @ 10:09:39

Serial #: 6772

Outside H & B Petroleum Corp.

Suppes #1

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **H & B Petroleum Corp.**

PO Box 277  
Ellinwood , KS 67526

ATTN: Jim Musgrove

### **Suppes #1**

#### **23-19s-31w Scott,KS**

Start Date: 2013.09.08 @ 01:12:00

End Date: 2013.09.08 @ 08:08:45

Job Ticket #: 52864                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.10 @ 10:09:12

H & B Petroleum Corp. 23-19s-31w Scott,KS Suppes #1 DST # 4 Pawnee 2013.09.08



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H & B Petroleum Corp.  
 PO Box 277  
 Ellinwood, KS 67526  
 ATTN: Jim Musgrove

**23-19s-31w Scott, KS**  
**Suppes #1**  
 Job Ticket: 52864      **DST#: 4**  
 Test Start: 2013.09.08 @ 01:12:00

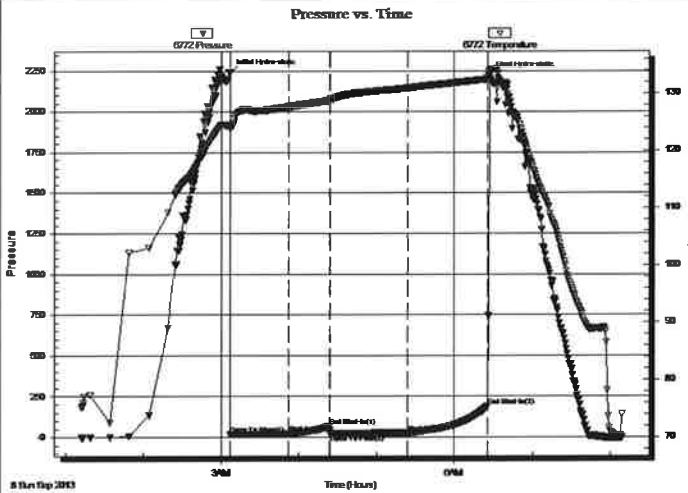
## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 03:07:00  
 Time Test Ended: 08:08:45  
 Interval: **4476.00 ft (KB) To 4570.00 ft (KB) (TVD)**  
 Total Depth: 4570.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)  
 Tester: Sam Esparza  
 Unit No: 64  
 Reference Elevations: 2955.00 ft (KB)  
 2946.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 6772      Outside**  
 Press@RunDepth: 26.96 psig @ 4477.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.09.08      End Date: 2013.09.08      Last Calib.: 2013.09.08  
 Start Time: 01:12:05      End Time: 08:08:44      Time On Btm: 2013.09.08 @ 03:06:45  
 Time Off Btm: 2013.09.08 @ 06:26:45

TEST COMMENT: IF: 3" Blow.  
 IS: No Return.  
 FF: 1 1/4" Blow.  
 FS: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2237.76	124.45	Initial Hydro-static
1	18.08	123.74	Open To Flow (1)
45	23.46	127.54	Shut-In(1)
77	65.21	128.58	End Shut-In(1)
78	18.91	128.78	Open To Flow (2)
138	26.96	130.86	Shut-In(2)
199	187.43	132.35	End Shut-In(2)
200	2220.66	133.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100m ( Oil Spots )	0.42

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52864

**DST#: 4**

ATTN: Jim Musgrove

Test Start: 2013.09.08 @ 01:12:00

### Tool Information

Drill Pipe:	Length: 4473.00 ft	Diameter: 3.80 inches	Volume: 62.74 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: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 62.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4476.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.00 ft			
Tool Length:	122.00 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			4449.00	
Shut In Tool	5.00			4454.00	
Hydraulic tool	5.00			4459.00	
Jars	5.00			4464.00	
Safety Joint	3.00			4467.00	
Packer	5.00			4472.00	28.00 Bottom Of Top Packer
Packer	4.00			4476.00	
Stubb	1.00			4477.00	
Recorder	0.00	6772	Outside	4477.00	
Recorder	0.00	8845	Outside	4477.00	
Perforations	23.00			4500.00	
Change Over Sub	1.00			4501.00	
Drill Pipe	63.00			4564.00	
Change Over Sub	1.00			4565.00	
Bullnose	5.00			4570.00	94.00 Bottom Packers & Anchor

**Total Tool Length: 122.00**





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52864

**DST#: 4**

ATTN: Jim Musgrove

Test Start: 2013.09.08 @ 01:12:00

### 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:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100m ( Oil Spots )	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:

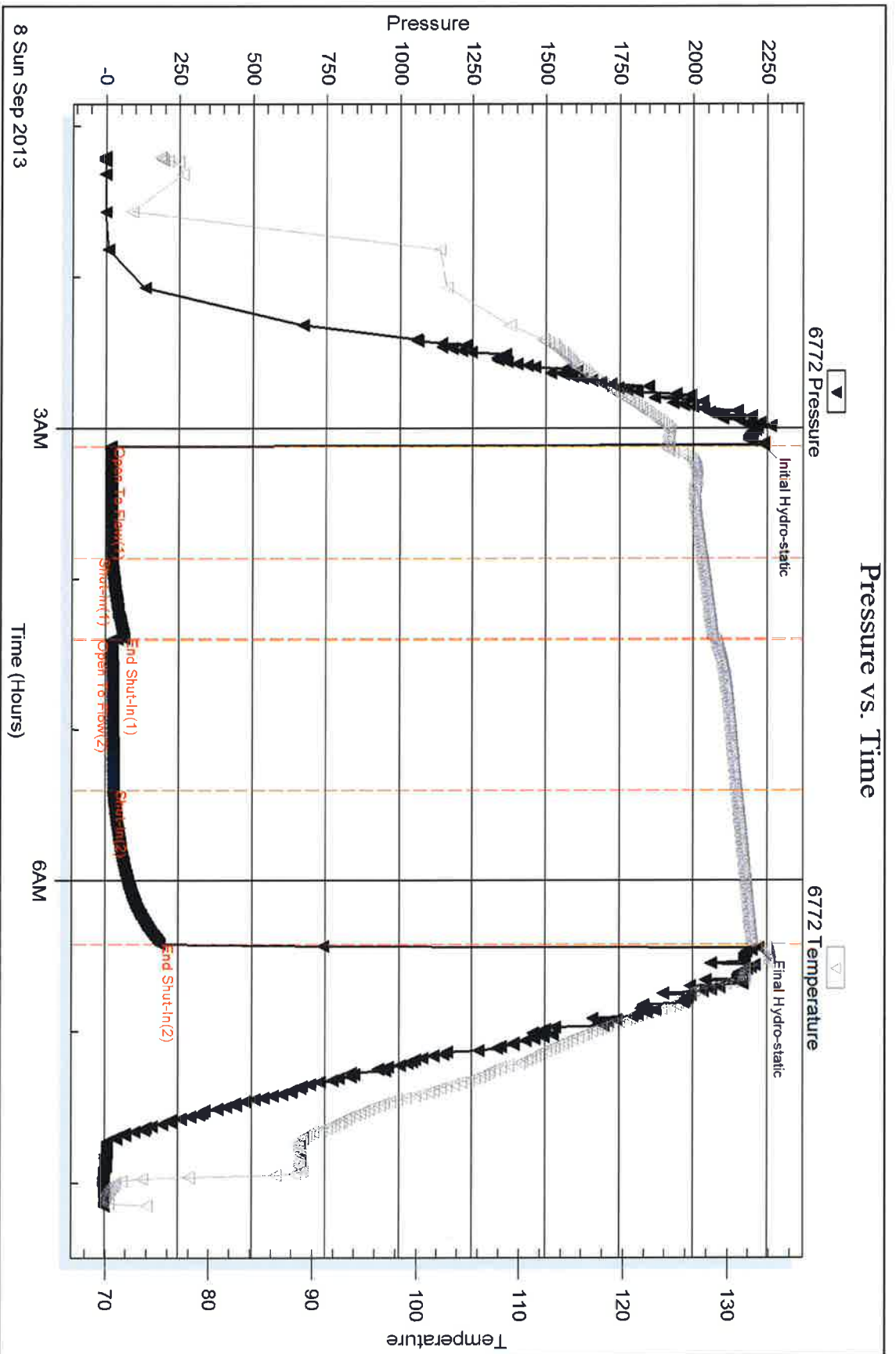
Recovery Comments:

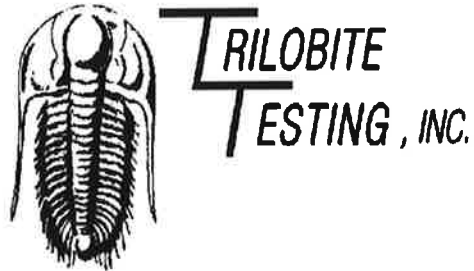
Serial #: 6772

Outside H & B Petroleum Corp.

Suppes #1

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **H & B Petroleum Corp.**

PO Box 277  
Ellinwood , KS 67526

ATTN: Jim Musgrove

### **Suppes #1**

#### **23-19s-31w Scott,KS**

Start Date: 2013.09.08 @ 21:07:00

End Date: 2013.09.09 @ 05:09:45

Job Ticket #: 52865                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.10 @ 10:08:43

H & B Petroleum Corp. 23-19s-31w Scott,KS Suppes #1 DST # 5 Miss - Spergen 2013.09.08



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H & B Petroleum Corp.  
 PO Box 277  
 Ellinwood, KS 67526  
 ATTN: Jim Musgrove

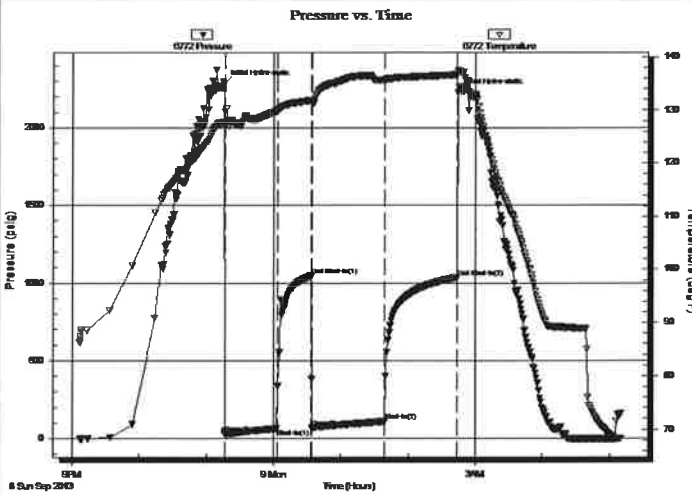
**23-19s-31w Scott, KS**  
**Suppes #1**  
 Job Ticket: 52865      **DST#: 5**  
 Test Start: 2013.09.08 @ 21:07:00

## GENERAL INFORMATION:

Formation: **Miss - Spergen**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 23:16:15  
 Time Test Ended: 05:09:45  
 Interval: **4568.00 ft (KB) To 4660.00 ft (KB) (TVD)**  
 Total Depth: 4660.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Sam Esparza  
 Unit No: 64  
 Reference Elevations: 2955.00 ft (KB)  
 2946.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 6772      Outside**  
 Press@RunDepth: 108.92 psig @ 4569.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.09.08      End Date: 2013.09.09      Last Calib.: 2013.09.09  
 Start Time: 21:07:05      End Time: 05:09:44      Time On Btm: 2013.09.08 @ 23:16:00  
 Time Off Btm: 2013.09.09 @ 02:44:45

TEST COMMENT: IF: 3" Blow.  
 IS: No Return.  
 FF: 4 1/4" Blow.  
 FSI: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.26	127.60	Initial Hydro-static
1	32.21	127.00	Open To Flow (1)
47	64.53	129.89	Shut-In(1)
78	1045.62	131.88	End Shut-In(1)
78	69.65	131.51	Open To Flow (2)
143	108.92	135.60	Shut-In(2)
208	1034.97	136.65	End Shut-In(2)
209	2226.51	137.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	Ocm 20o 80m	1.68
70.00	Gom 10g 10o 80m	0.98
0.00	60 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

H & B Petroleum Corp.  
 PO Box 277  
 Ellinwood, KS 67526  
 ATTN: Jim Musgrove

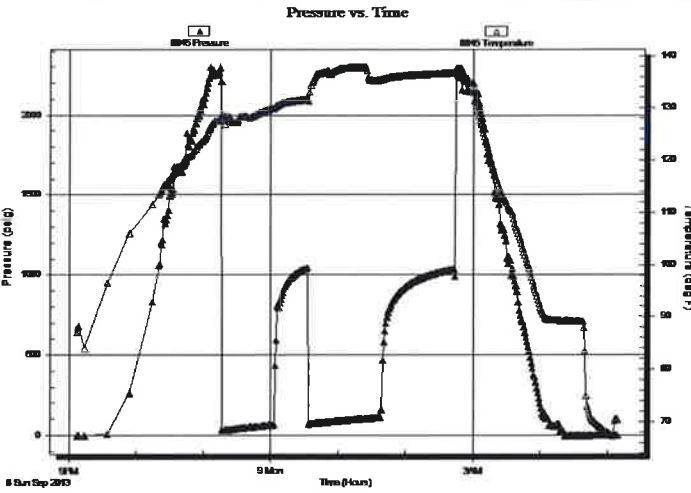
**23-19s-31w Scott, KS**  
**Suppes #1**  
 Job Ticket: 52865 DST#: 5  
 Test Start: 2013.09.08 @ 21:07:00

**GENERAL INFORMATION:**

Formation: <b>Miss - Spergen</b>	Test Type: <b>Conventional Bottom Hole (Reset)</b>
Deviated: <b>No Whipstock:</b> ft (KB)	Tester: <b>Sam Esparza</b>
Time Tool Opened: <b>23:16:15</b>	Unit No: <b>64</b>
Time Test Ended: <b>05:09:45</b>	Reference Elevations: <b>2955.00 ft (KB)</b>
<b>Interval: 4568.00 ft (KB) To 4660.00 ft (KB) (TVD)</b>	<b>2946.00 ft (CF)</b>
Total Depth: <b>4660.00 ft (KB) (TVD)</b>	KB to GR/CF: <b>9.00 ft</b>
Hole Diameter: <b>7.88 inches</b> Hole Condition: <b>Good</b>	

<b>Serial #: 8845</b>	<b>Outside</b>				
Press@RunDepth:      psig @      4569.00 ft (KB)	Capacity:      8000.00 psig				
Start Date:      2013.09.08      End Date:      2013.09.09	Last Calib.:      2013.09.09				
Start Time:      21:07:05      End Time:      05:09:14	Time On Btm:				
	Time Off Btm:				

TEST COMMENT: IF: 3" Blow.  
 IS: No Return.  
 FF: 4 1/4" Blow.  
 FSI: No Return.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	Ocm 20o 80m	1.68
70.00	Gom 10g 10o 80m	0.98
0.00	60 GIP	0.00

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & B Petroleum Corp.  
PO Box 277  
Ellinwood, KS 67526  
ATTN: Jim Musgrove

**23-19s-31w Scott,KS**  
**Suppes #1**  
Job Ticket: 52865      **DST#: 5**  
Test Start: 2013.09.08 @ 21:07:00

### Tool Information

Drill Pipe:	Length: 4565.00 ft	Diameter: 3.80 inches	Volume: 64.03 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: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 64.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4568.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 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			4541.00	
Shut In Tool	5.00			4546.00	
Hydraulic tool	5.00			4551.00	
Jars	5.00			4556.00	
Safety Joint	3.00			4559.00	
Packer	5.00			4564.00	28.00      Bottom Of Top Packer
Packer	4.00			4568.00	
Stubb	1.00			4569.00	
Recorder	0.00	6772	Outside	4569.00	
Recorder	0.00	8845	Outside	4569.00	
Perforations	21.00			4590.00	
Change Over Sub	1.00			4591.00	
Drill Pipe	63.00			4654.00	
Change Over Sub	1.00			4655.00	
Bullnose	5.00			4660.00	92.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>120.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52865

**DST#: 5**

ATTN: Jim Musgrove

Test Start: 2013.09.08 @ 21:07:00

### 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: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Ocm 20o 80m	1.683
70.00	Gom 10g 10o 80m	0.982
0.00	60 GIP	0.000

Total Length: 190.00 ft      Total Volume: 2.665 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

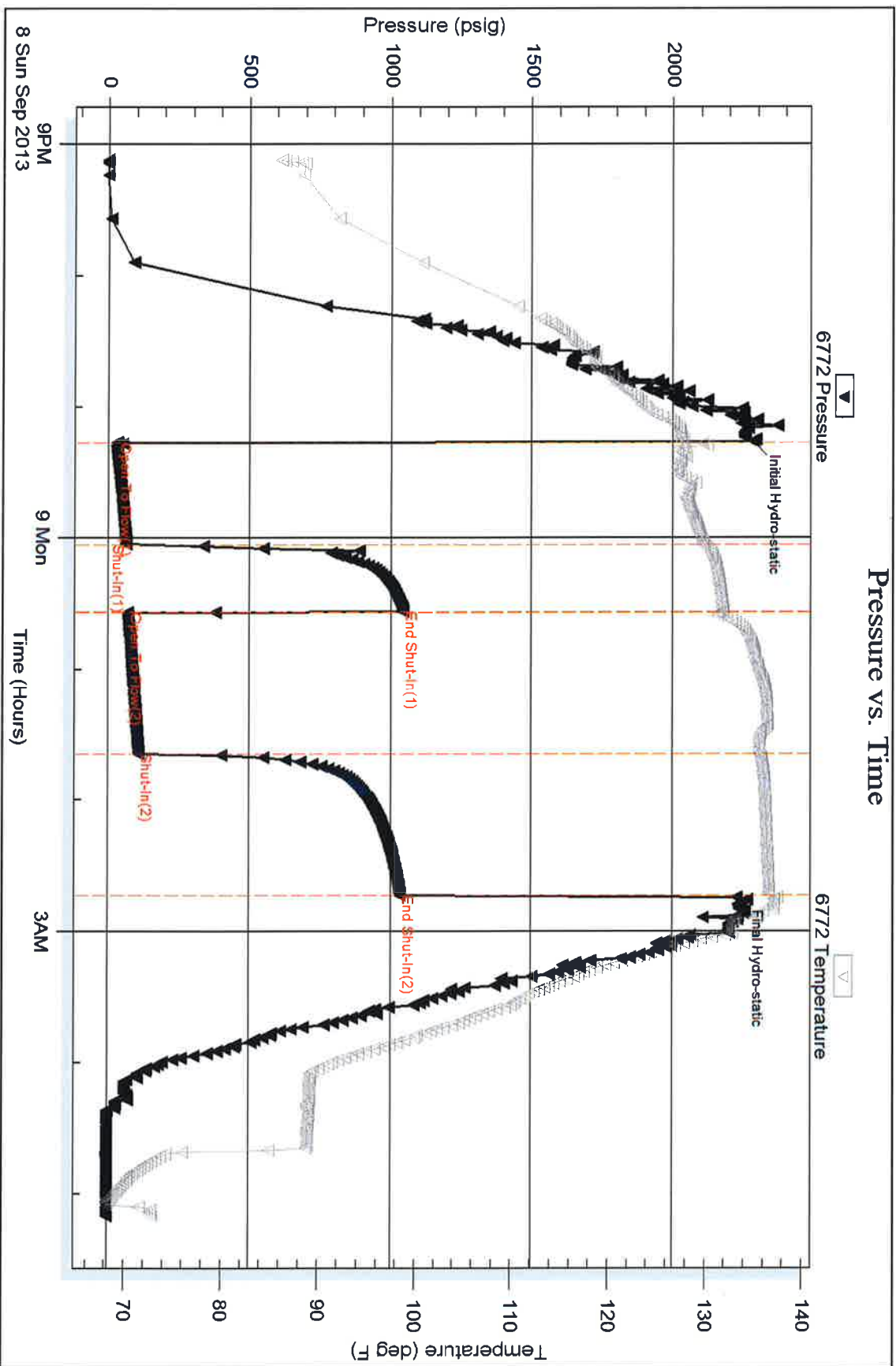
Serial #: 6772

Outside H & B Petroleum Corp.

Supps #1

DST Test Number: 5

### Pressure vs. Time



Trachite Testing, Inc

Ref. No: 52865

Printed: 2013.09.10 @ 10:08:45



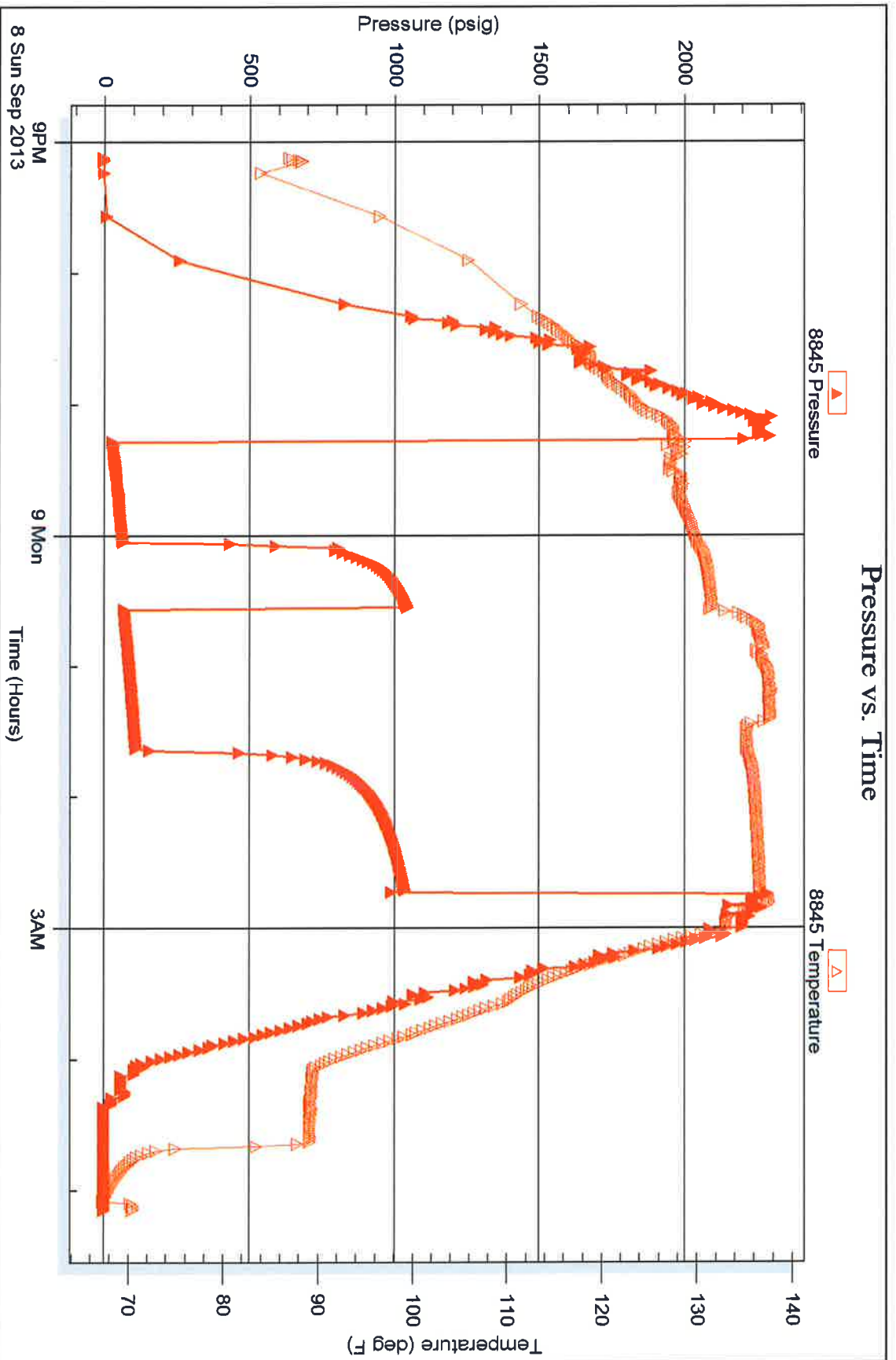
Serial #: 8845

Outside H & B Petroleum Corp.

Suppes #1

DST Test Number: 5

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52865

Printed: 2013.09.10 @ 10:08:45



# TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52861

Well Name & No. Suppes #1 Test No. 1 Date 9/5/13  
 Company H & B Petroleum Corp. Elevation 2955 KB 2946 GL  
 Address PO Box 277 Ellinwood, KS 67526  
 Co. Rep / Geo. Jim Musgrave Rig Southwind #2  
 Location: Sec. 23 Twp. 19S Rge. 3/W Co. Scott State KS

Interval Tested 4275-4300 Zone Tested "I"  
 Anchor Length 25' Drill Pipe Run 4277 Mud Wt. 9.3  
 Top Packer Depth 4271 Drill Collars Run 0 Vis 62  
 Bottom Packer Depth 4275 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4300 Chlorides 2000 ppm System LCM 3

Blow Description IF: 1/4" Blow died back to a weak surface blow.  
ISI: NO Return.  
FF: Weak surface Blow Died @ 3/min.  
FSI: NO Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>60</u>	<u>60CM</u>	<u>5</u>	<u>5</u>		<u>90</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 110 BITI 135 Gravity 27 API RW — @ — F Chlorides — ppm  
 (A) Initial Hydrostatic 2122  Test 1250 T-On Location 10:00  
 (B) First Initial Flow 17  Jars 250 T-Started 11:15  
 (C) First Final Flow 38  Safety Joint 75 T-Open 13:14  
 (D) Initial Shut-In 939  Circ Sub N/C T-Pulled 15:45  
 (E) Second Initial Flow 44  Hourly Standby T-Out 17:21  
 (F) Second Final Flow 66  Mileage 34 RT 52.70 Comments Gravity: 31 @ 100' = 27  
 (G) Final Shut-In 939  Sampler  
 (H) Final Hydrostatic 2090  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 45  
 Sub Total 1627.70  
 Total 1627.70  
 MP/DST Disc 1

Approved By [Signature] Our Representative [Signature]  
 Triobite Testing Inc. shall not be liable for damaged or 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 opinions concerning the results of any test, tests, test or damaged in the pipe shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52862

Well Name & No. <u>Suppes #1</u>	Test No. <u>2</u>	Date <u>9/6/13</u>
Company <u>H &amp; B Petroleum Corp.</u>	Elevation <u>2955</u>	KB <u>2746</u> GL
Address <u>PO Box 277 Ellinwood, KS 67526</u>		
Co. Rep / Geo. <u>Jim Musgrove</u>	Rig <u>Southwind #2</u>	
Location: Sec. <u>23</u> Twp. <u>19S</u> Rge. <u>31W</u> Co. <u>Scott</u> State <u>KS</u>		

Interval Tested <u>4314-4343</u>	Zone Tested <u>"K"</u>
Anchor Length <u>29'</u>	Drill Pipe Run <u>43H</u>
Top Packer Depth <u>4310</u>	Drill Collars Run <u>Ø</u>
Bottom Packer Depth <u>4314</u>	Wt. Pipe Run <u>Ø</u>
Total Depth <u>4343</u>	Chlorides <u>2000</u> ppm System
	Mud Wt. <u>9.3</u>
	Vis <u>64</u>
	WL <u>8.0</u>
	LCM <u>3</u>

Blow Description IF: BOB @ 1/2 min.  
ISI: Blud off for 5 min. 2" Return.  
FF: BOB @ 5 min.  
FSL: Blud off for 5 min. No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>830</u>	<u>GO</u>	<u>20</u>	<u>80</u>		
<u>250</u>	<u>GMWCO</u>	<u>20</u>	<u>70</u>	<u>5</u>	<u>5</u>
<u>190</u>	<u>GOMCW</u>	<u>5</u>	<u>5</u>	<u>70</u>	<u>20</u>
	<u>250' GIP</u>				

Rec Total 1270 BHT 142 Gravity 28 API RW .146 @ 83 F Chlorides 40,000 ppm

(A) Initial Hydrostatic <u>2189</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>3:15</u>
(B) First Initial Flow <u>142</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>3:30</u>
(C) First Final Flow <u>360</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>4:58</u>
(D) Initial Shut-In <u>837</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>7:48</u>
(E) Second Initial Flow <u>376</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:47</u>
(F) Second Final Flow <u>514</u>	<input checked="" type="checkbox"/> Mileage <u>34 R/T</u> 52.70	Comments <u>Gravity: 31 @ 90 = 28</u>
(G) Final Shut-In <u>719</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2077</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1627.70</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1627.70</u>	

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 60

Approved By [Signature] Our Representative [Signature]

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 of 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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52863

Well Name & No. <u>Suppas #1</u>	Test No. <u>3</u>	Date <u>9/7/13</u>
Company <u>H &amp; B Petroleum Corp.</u>	Elevation <u>2955</u>	KB <u>2946</u> Gl
Address <u>PO Box 277 Ellinwood, KS 67526</u>		
Co. Rep / Geo. <u>Jim Musgrove</u>	Rig <u>Southwind #2</u>	
Location: Sec <u>23</u> Twp <u>19S</u> Rge <u>31W</u> Co <u>Scott</u> State <u>KS</u>		

Interval Tested <u>4417 - 4447</u>	Zone Tested <u>Marmata</u>
Anchor Length <u>30'</u>	Drill Pipe Run <u>4405</u>
Top Packer Depth <u>4413</u>	Drill Collars Run <u>0</u>
Bottom Packer Depth <u>4417</u>	Wt. Pipe Run <u>0</u>
Total Depth <u>4447</u>	Chlorides <u>2000</u> ppm System
Blow Description <u>IF: 3/4" Blow</u>	Mud Wt. <u>9.2</u>
<u>ISB: No Return.</u>	Vis <u>50</u>
<u>FF: No Blow</u>	WL <u>8.8</u>
<u>FSB: No Return.</u>	LCM <u>1</u>

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>OCM (oil screen on top)</u>	<u>20</u>		<u>80</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 <u>15</u>	BHT <u>132</u>	Gravity <u>—</u>	API RW <u>—</u>	@ <u>—</u>	F Chlorides <u>—</u> ppm
(A) Initial Hydrostatic	<u>2189</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>1:10</u>
(B) First Initial Flow	<u>20</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>1:17</u>
(C) First Final Flow	<u>21</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>3:04</u>
(D) Initial Shut-In	<u>39</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>5:40</u>
(E) Second Initial Flow	<u>23</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>7:21</u>
(F) Second Final Flow	<u>23</u>	<input checked="" type="checkbox"/> Mileage	<u>34 RT</u>	52.70	Comments
(G) Final Shut-In	<u>40</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2121</u>	<input type="checkbox"/> Straddle			

Initial Open	<u>45</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In	<u>30</u>	<input type="checkbox"/> Ruined Packer
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Copies
Final Shut-In	<u>45</u>	Sub Total <u>0</u>
		Total <u>1627.70</u>
		MP/DS Disc't
		Sub Total <u>1627.70</u>

Approved By: [Signature] Our Representative: [Signature]

TriLOBITE Testing Inc. shall not be liable for damages 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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52864

Well Name & No. Supers #1 Test No. 4 Date 9/8/13  
 Company H & B Petroleum Corp. Elevation 2955 KB 2946 GL  
 Address PO Box 277 Ellinwood, KS 67526  
 Co. Rep / Geo. Jim Musgrave Rig Southwind #2  
 Location: Sec. 23 Twp. 19S Rge. 31W Co. Scott State KS

Interval Tested 4476-~~4500~~ 4570 Zone Tested Annua  
 Anchor Length 91' Drill Pipe Run 4473 Mud Wt. 9.2  
 Top Packer Depth 4472 Drill Collars Run Ø Vis 60  
 Bottom Packer Depth 4476 Wt. Pipe Run Ø WI. ~~6.5~~ 8.0  
 Total Depth 4570 Chlorides 1600 ppm System LCM 3

Blow Description IF: 3" Blow.  
ISL: NO Return.  
FF: 1 1/4" Blow.  
FSL: NO Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud (coil spots)</u>			<u>100</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 132 Gravity — API RW — @ — F Chlorides — ppm  
 (A) Initial Hydrostatic 2238  Test 1250 T-On Location 0010  
 (B) First Initial Flow 18  Jars 250 T-Started 1:12  
 (C) First Final Flow 23  Safety Joint 75 T-Open 3:07  
 (D) Initial Shut-In 65  Circ Sub N/C T-Pulled 6:25  
 (E) Second Initial Flow 19  Hourly Standby T-Out 8:09  
 (F) Second Final Flow 27  Mileage 34 RT 52.70 Comments  
 (G) Final Shut-In 187  Sampler  Ruined Shale Packer  
 (H) Final Hydrostatic 2221  Straddle  Ruined Packer  
 Shale Packer  Extra Copies  
 Extra Packer  Extra Recorder  
 Extra Recorder Sub Total 0  
 Day Standby Total 1627.70  
 Accessibility MP/DST Disc't

Initial Open 45  
 Initial Shut-In 30  
 Final Flow 60  
 Final Shut-In 60  
 Sub Total 1627.70

Approved By [Signature] Our Representative [Signature]  
 TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the site 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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52865

Well Name & No. Supper #1 Test No. 5 Date 9/8/13  
 Company H&B Petroleum Corp. Elevation 2955 KB 2946 GL  
 Address PO Box 277 Ellinwood, KS 67526  
 Co. Rep / Geo. Jim Musgrave Rig Southwind #2  
 Location: Sec. 23 Twp. 19S Rge. 31W Co. Scott State KS

Interval Tested ~~4568-4660~~ 4568-4660 Zone Tested Miss - Spargen  
 Anchor Length 92' Drill Pipe Run 4565 Mud Wt. 9.3  
 Top Packer Depth 4564 Drill Collars Run Ø Vis 54  
 Bottom Packer Depth 4568 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4660 Chlorides 1500 ppm System LCM 2

Blow Description IF: 3" Blow.  
IST: No Return.  
FF: 4 1/2" Blow.  
FSI: No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<del>120</del> <u>120</u>	<u>0cm</u>		<u>20</u>		<u>80</u>
<del>70</del> <u>70</u>	<u>0cm</u>	<u>10</u>	<u>10</u>		<u>80</u>
	<u>40' GIP</u>				

Rec Total 190 BHT 137 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 2284  Test 1250 T-On Location ~~2050~~ 2050  
 (B) First Initial Flow 32  Jars 250 T-Started 21:07  
 (C) First Final Flow 64  Safety Joint 75 T-Open 23:17  
 (D) Initial Shut-In 1045  Circ Sub \_\_\_\_\_ T-Pulled 2:43  
 (E) Second Initial Flow 69  Hourly Standby \_\_\_\_\_ T-Out 05:10  
 (F) Second Final Flow 108  Mileage 34 R/T 52.70  
 (G) Final Shut-In 1034  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2226  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 45 Sub Total 0  
 Initial Shut-In 30 Total 1627.70  
 Final Flow 60 MW/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1627.70

Approved By \_\_\_\_\_ Our Representative [Signature]  
 TriLOBITE TESTING INC. shall not be liable for damaged or 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.  
split test