

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

## DRILL STEM TEST REPORT

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

PO Box 277  
Ellinwood, KS 67526

ATTN: Jim Musgrove

**Daubert #1**

**5-19s-31w Scott,KS**

Start Date: 2013.08.06 @ 11:04:15

End Date: 2013.08.06 @ 15:45:15

Job Ticket #: 53195                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.16 @ 13:29:26

H&B Petroleum Corp  
5-19s-31w Scott,KS  
Daubert #1  
DST # 1  
H-1  
2013.08.06



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

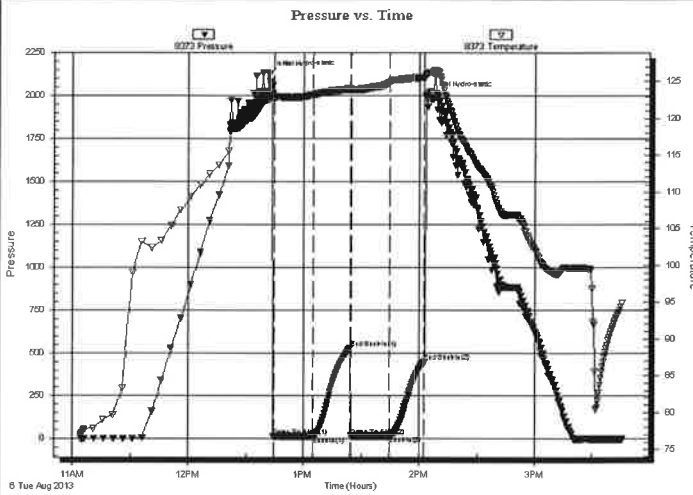
**5-19s-31w Scott,KS**  
**Daubert #1**  
 Job Ticket: 53195      **DST#: 1**  
 Test Start: 2013.08.06 @ 11:04:15

**GENERAL INFORMATION:**

Formation: **HI**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:44:15  
 Time Test Ended: 15:45:15  
 Interval: **4165.00 ft (KB) To 4222.00 ft (KB) (TVD)**  
 Total Depth: 4222.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2980.00 ft (KB)  
 2970.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8373**      **Inside**  
 Press@RunDepth: 17.08 psig @ 4166.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.08.06      End Date: 2013.08.06      Last Calib.: 2013.08.06  
 Start Time: 11:04:20      End Time: 15:45:14      Time On Btm: 2013.08.06 @ 12:42:15  
 Time Off Btm: 2013.08.06 @ 14:03:45

**TEST COMMENT:** IF: 1/4" blow died in 4 min.  
 IS: No return.  
 FF: No blow.  
 FS: No return.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2125.13	122.57	Initial Hydro-static
2	14.57	122.87	Open To Flow (1)
23	16.46	123.20	Shut-In(1)
42	526.14	123.96	End Shut-In(1)
43	15.87	123.78	Open To Flow (2)
63	17.08	124.83	Shut-In(2)
80	449.27	125.56	End Shut-In(2)
82	2002.53	125.95	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
8.00	mud oil spots 100% <sub>m</sub>	0.11

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H&B Petroleum Corp

**5-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 53195

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2013.08.06 @ 11:04:15

## GENERAL INFORMATION:

Formation: **H-I**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: **12:44:15**

Time Test Ended: **15:45:15**

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Brandon Turley**

Unit No: **60**

Interval: **4165.00 ft (KB) To 4222.00 ft (KB) (TVD)**

Reference Elevations: **2980.00 ft (KB)**

Total Depth: **4222.00 ft (KB) (TVD)**

**2970.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **10.00 ft**

**Serial #: 8356** **Outside**

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

Capacity: **8000.00 psig**

Start Date: **2013.08.06**

End Date: **2013.08.06**

Last Calib.: **2013.08.06**

Start Time: **11:04:39**

End Time: **15:45:33**

Time On Btm:

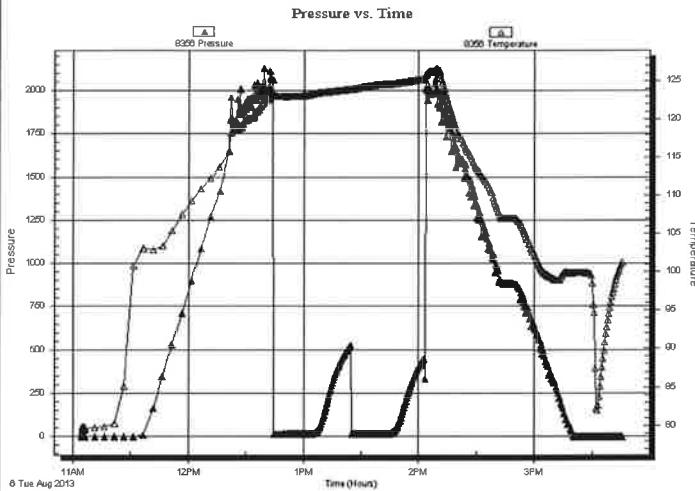
Time Off Btm:

TEST COMMENT: **IF: 1/4" blow died in 4 min.**

**IS: No return.**

**FF: No blow.**

**FS: No return.**



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
8.00	mud oil spots 100% m	0.11

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&B Petroleum Corp

**5-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 53195

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2013.08.06 @ 11:04:15

### Tool Information

Drill Pipe:	Length: 4161.00 ft	Diameter: 3.80 inches	Volume: 58.37 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: 85000.00 lb
			<u>Total Volume: 58.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4165.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4146.00	
Shut In Tool	5.00			4151.00	
Hydraulic tool	5.00			4156.00	
Packer	5.00			4161.00	20.00 Bottom Of Top Packer
Packer	4.00			4165.00	
Stubb	1.00			4166.00	
Recorder	0.00	8373	Inside	4166.00	
Recorder	0.00	8356	Outside	4166.00	
Perforations	18.00			4184.00	
Change Over Sub	1.00			4185.00	
Drill Pipe	31.00			4216.00	
Change Over Sub	1.00			4217.00	
Bullnose	5.00			4222.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 77.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&B Petroleum Corp

**5-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 53195

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2013.08.06 @ 11:04:15

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	mud oil spots 100%m	0.112

Total Length: 8.00 ft      Total Volume: 0.112 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

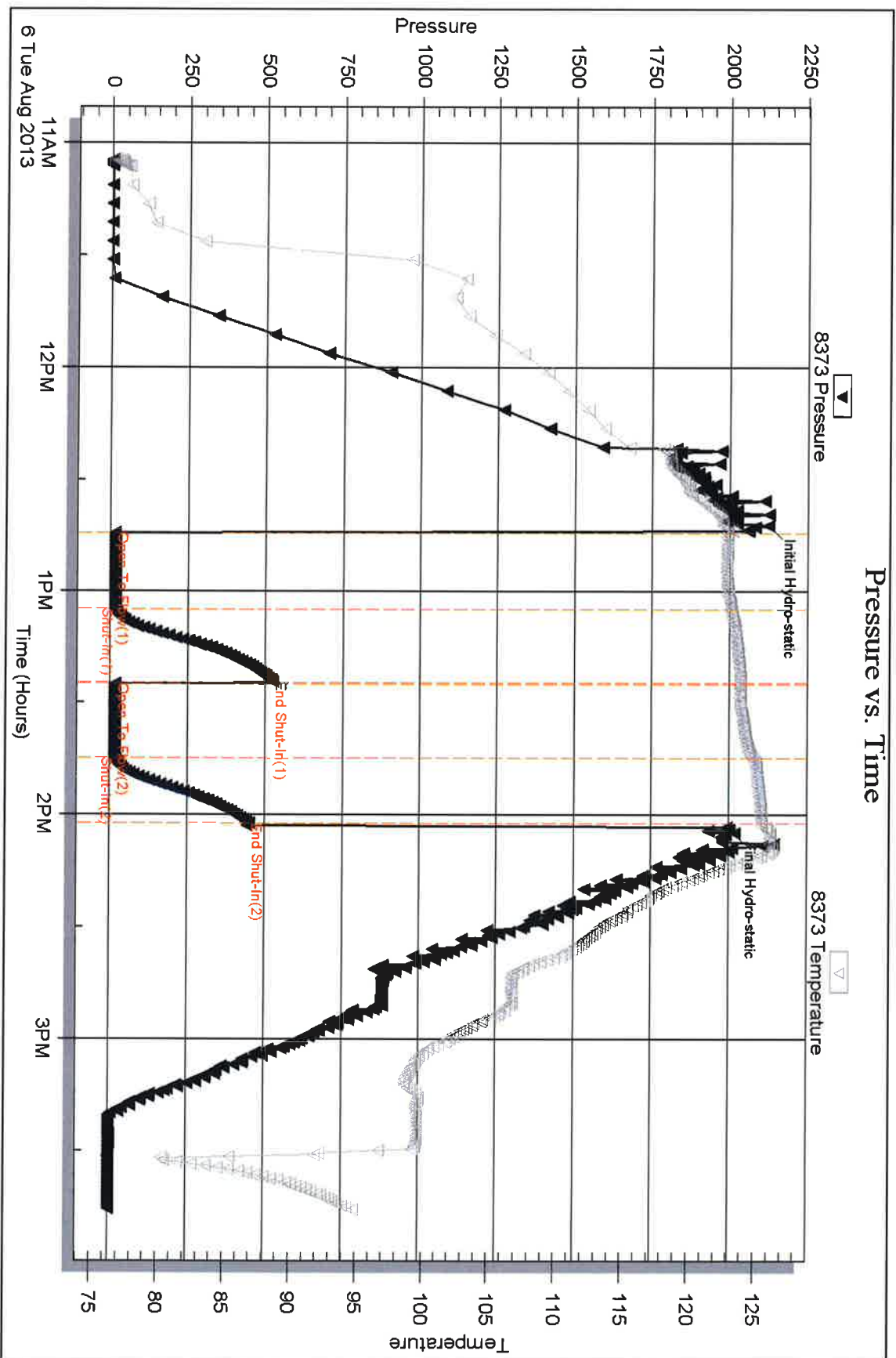
Serial #: 8373

Inside

H&B Petroleum Corp

Daubert #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 53195

Printed: 2013.08.16 @ 13:29:31

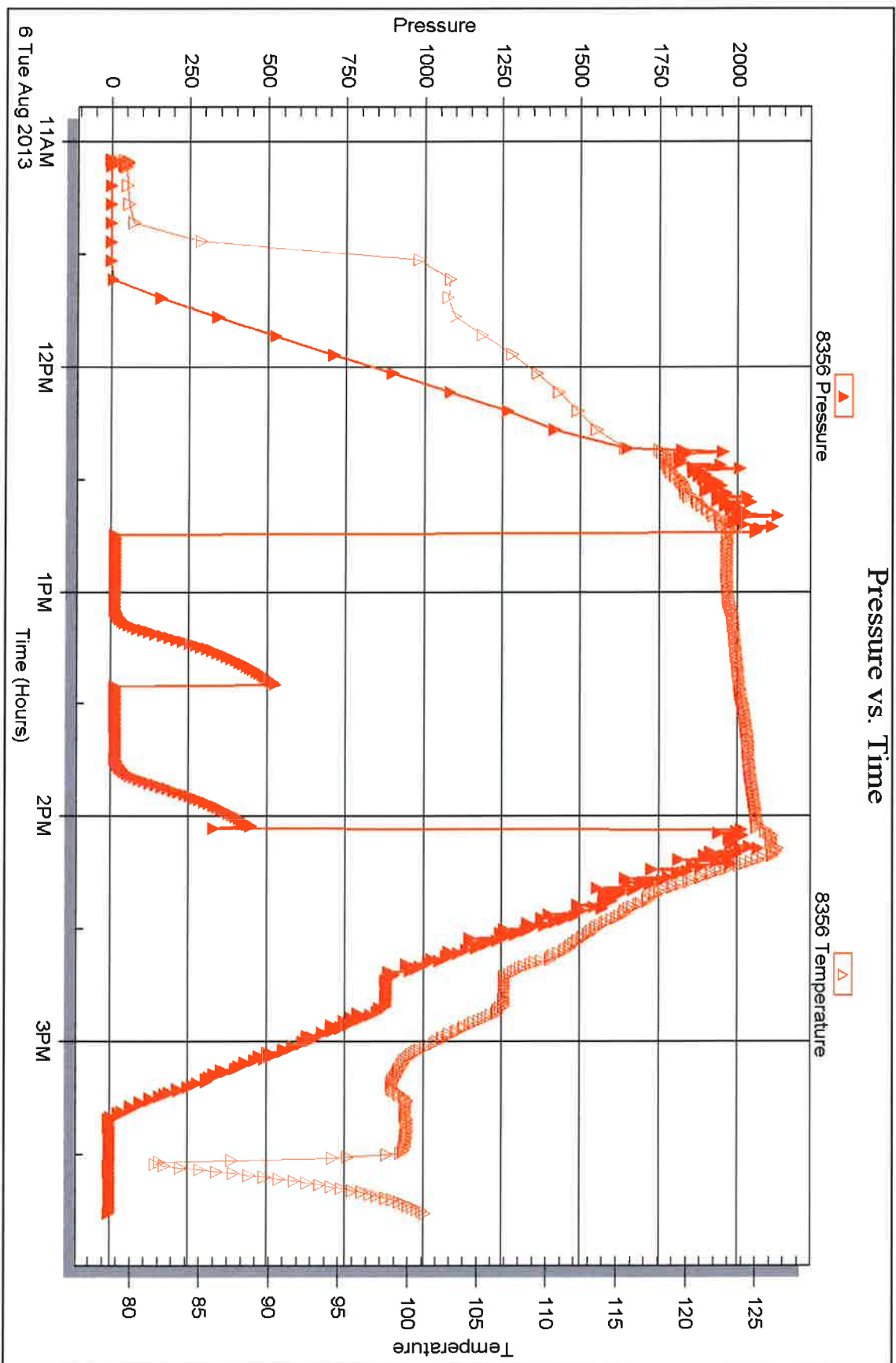
Serial #: 8356

Outside

H&B Petroleum Corp

Daubert #1

DST Test Number: 1



Tribolite Testing, Inc

Ref. No: 53195

Printed: 2013.08.16 @ 13:29:32



## DRILL STEM TEST REPORT

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

PO Box 277  
Ellinwood, KS 67526

ATTN: Jim Musgrove

### **Daubert #1**

#### **5-19s-31w Scott,KS**

Start Date: 2013.08.06 @ 22:36:17

End Date: 2013.08.07 @ 06:43:17

Job Ticket #: 53196                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.16 @ 13:27:36





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

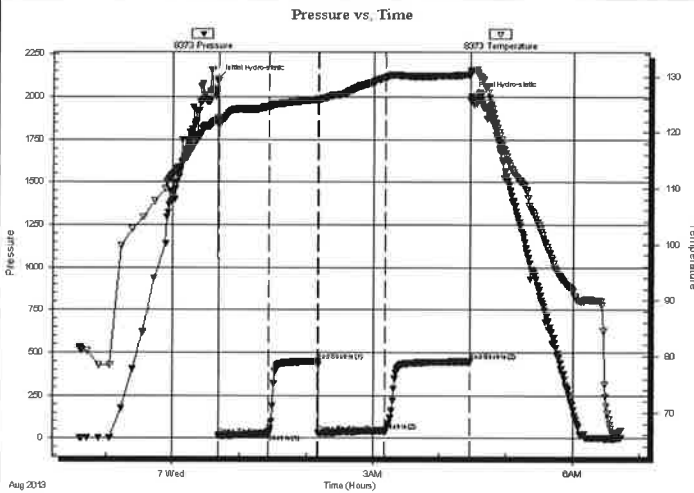
**5-19s-31w Scott, KS**  
**Daubert #1**  
Job Ticket: 53196      **DST#: 2**  
Test Start: 2013.08.06 @ 22:36:17

## GENERAL INFORMATION:

Formation: **J**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 00:40:47  
Time Test Ended: 06:43:17  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brandon Turley  
Unit No: 60  
Interval: **4214.00 ft (KB) To 4246.00 ft (KB) (TVD)**  
Reference Elevations: 2980.00 ft (KB)  
Total Depth: 4214.00 ft (KB) (TVD)                      2970.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good                      KB to GR/CF: 10.00 ft

**Serial #: 8373      Inside**  
Press@RunDepth: 43.97 psig @ 4215.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.08.06      End Date: 2013.08.07      Last Calib.: 2013.08.07  
Start Time: 22:36:22      End Time: 06:43:16      Time On Btm: 2013.08.07 @ 00:39:47  
Time Off Btm: 2013.08.07 @ 04:27:47

**TEST COMMENT:** IF: 1/4" blow built to 4"  
IS: No return.  
FF: Surface blow built to 6"  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.85	122.23	Initial Hydro-static
1	13.85	121.26	Open To Flow (1)
46	26.42	124.65	Shut-In(1)
90	450.66	125.94	End Shut-In(1)
91	30.31	125.95	Open To Flow (2)
151	43.97	129.81	Shut-In(2)
227	447.68	130.28	End Shut-In(2)
228	2004.90	131.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
67.00	ocm 40%o 60%m	0.94
10.00	free oil 100%o	0.14
0.00	93 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

**5-19s-31w Scott, KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 53196

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2013.08.06 @ 22:36:17

### Tool Information

Drill Pipe:	Length: 4224.00 ft	Diameter: 3.80 inches	Volume: 59.25 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: 80000.00 lb
			<u>Total Volume: 59.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4214.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4195.00	
Shut In Tool	5.00			4200.00	
Hydraulic tool	5.00			4205.00	
Packer	5.00			4210.00	20.00 Bottom Of Top Packer
Packer	4.00			4214.00	
Stubb	1.00			4215.00	
Recorder	0.00	8373	Inside	4215.00	
Recorder	0.00	8356	Outside	4215.00	
Perforations	26.00			4241.00	
Bullnose	5.00			4246.00	32.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>52.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&B Petroleum Corp

**5-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 53196

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2013.08.06 @ 22:36:17

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 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
67.00	ocm 40%o 60%m	0.940
10.00	free oil 100%o	0.140
0.00	93 GIP	0.000

Total Length: 77.00 ft

Total Volume: 1.080 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

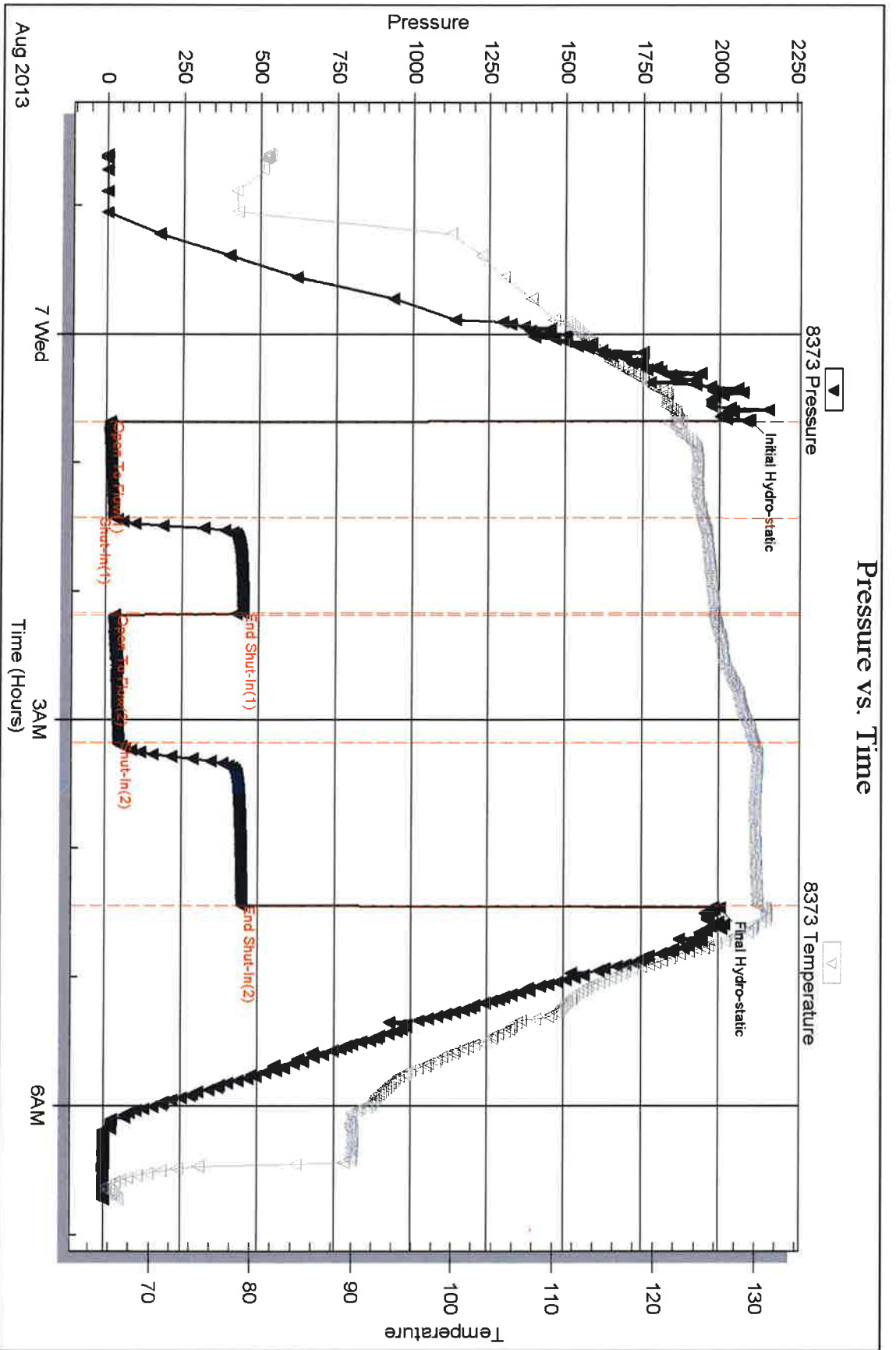
Serial #: 8373

Inside

H&B Petroleum Corp

Daubert #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 53196

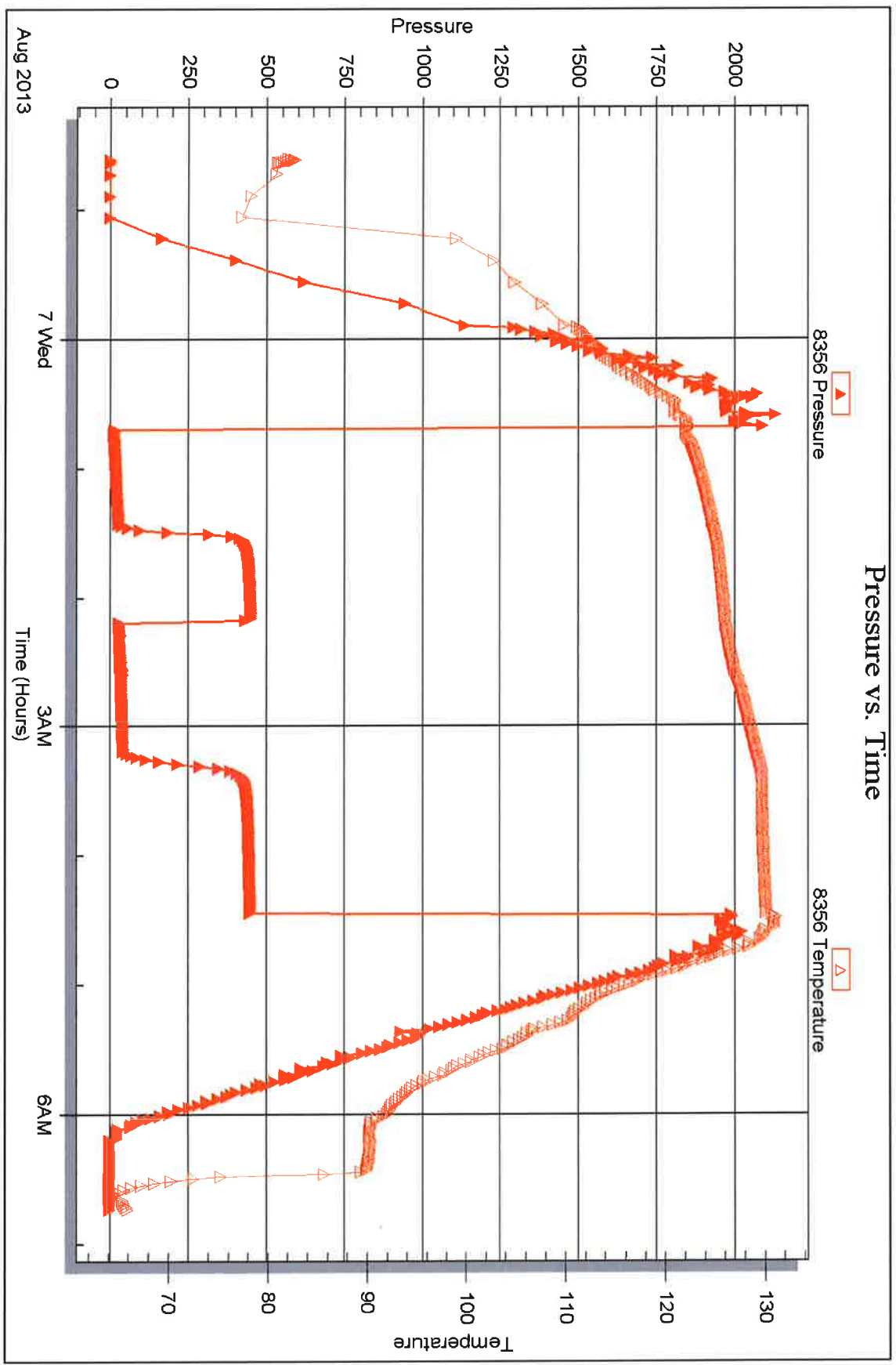
Printed: 2013.08.16 @ 13:27:40

Serial #: 8356

Outside H&B Petroleum Corp

Daubert #1

DST Test Number: 2



Tribolite Testing, Inc

Ref. No: 53196

Printed: 2013.08.16 @ 13:27:41



## DRILL STEM TEST REPORT

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

PO Box 277  
Ellinwood, KS 67526

ATTN: Jim Musgrove

### **Daubert #1**

### **5-19s-31w Scott,KS**

Start Date: 2013.08.07 @ 18:15:46

End Date: 2013.08.09 @ 08:47:46

Job Ticket #: 53197                      DST #: 3

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

Printed: 2013.08.16 @ 13:26:45

H&B Petroleum Corp  
5-19s-31w Scott,KS  
Daubert #1  
DST # 3  
K-L  
2013.08.07



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

H&B Petroleum Corp

**5-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 53197

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2013.08.07 @ 18:15:46

### GENERAL INFORMATION:

Formation: **K-L**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 20:01:16

Time Test Ended: 08:47:46

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Brandon Turley**

Unit No: **60**

**Interval: 4259.00 ft (KB) To 4332.00 ft (KB) (TVD)**

Total Depth: **4332.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2980.00 ft (KB)**

**2970.00 ft (CF)**

KB to GR/CF: **10.00 ft**

**Serial #: 8373**

**Inside**

Press@RunDepth: **36.70 psig @ 4260.00 ft (KB)**

Start Date: **2013.08.07**

End Date:

**2013.08.09**

Start Time: **18:15:51**

End Time:

**08:47:46**

Capacity: **8000.00 psig**

Last Calib.: **2013.08.09**

Time On Btm: **2013.08.07 @ 20:00:16**

Time Off Btm: **2013.08.07 @ 23:16:46**

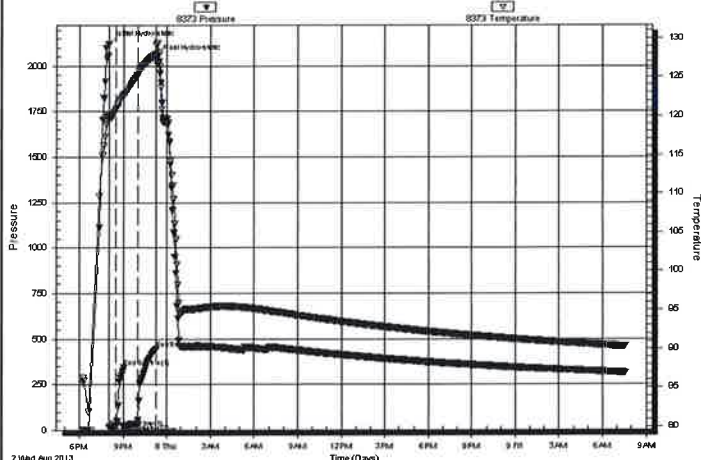
TEST COMMENT: IF: 1/4" blow built to 5"

IS: No return.

FF: Surface blow built to 9"

FS: No return.

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2121.07	120.21	Initial Hydro-static
1	16.87	119.38	Open To Flow (1)
31	23.39	120.83	Shut-In(1)
62	345.67	122.80	End Shut-In(1)
63	22.37	122.63	Open To Flow (2)
119	36.70	125.22	Shut-In(2)
195	444.91	127.96	End Shut-In(2)
197	2041.16	129.07	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
37.00	ocm 5%o 95%o	0.52
30.00	free oil 100%o	0.42
0.00	186 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

**5-19s-31w Scott, KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 53197

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2013.08.07 @ 18:15:46

### Tool Information

Drill Pipe:	Length: 4255.00 ft	Diameter: 3.80 inches	Volume: 59.69 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: 75000.00 lb
			<u>Total Volume: 59.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4259.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	93.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4240.00	
Shut In Tool	5.00			4245.00	
Hydraulic tool	5.00			4250.00	
Packer	5.00			4255.00	20.00 Bottom Of Top Packer
Packer	4.00			4259.00	
Stubb	1.00			4260.00	
Recorder	0.00	8373	Inside	4260.00	
Recorder	0.00	8356	Outside	4260.00	
Perforations	3.00			4263.00	
Change Over Sub	1.00			4264.00	
Drill Pipe	62.00			4326.00	
Change Over Sub	1.00			4327.00	
Bullnose	5.00			4332.00	73.00 Bottom Packers & Anchor

**Total Tool Length: 93.00**



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

### FLUID SUMMARY

H&B Petroleum Corp

**5-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 53197

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2013.08.07 @ 18:15:46

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.16 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
37.00	ocm 5%o 95%m	0.519
30.00	free oil 100%o	0.421
0.00	186 GIP	0.000

Total Length:

67.00 ft

Total Volume:

0.940 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8373

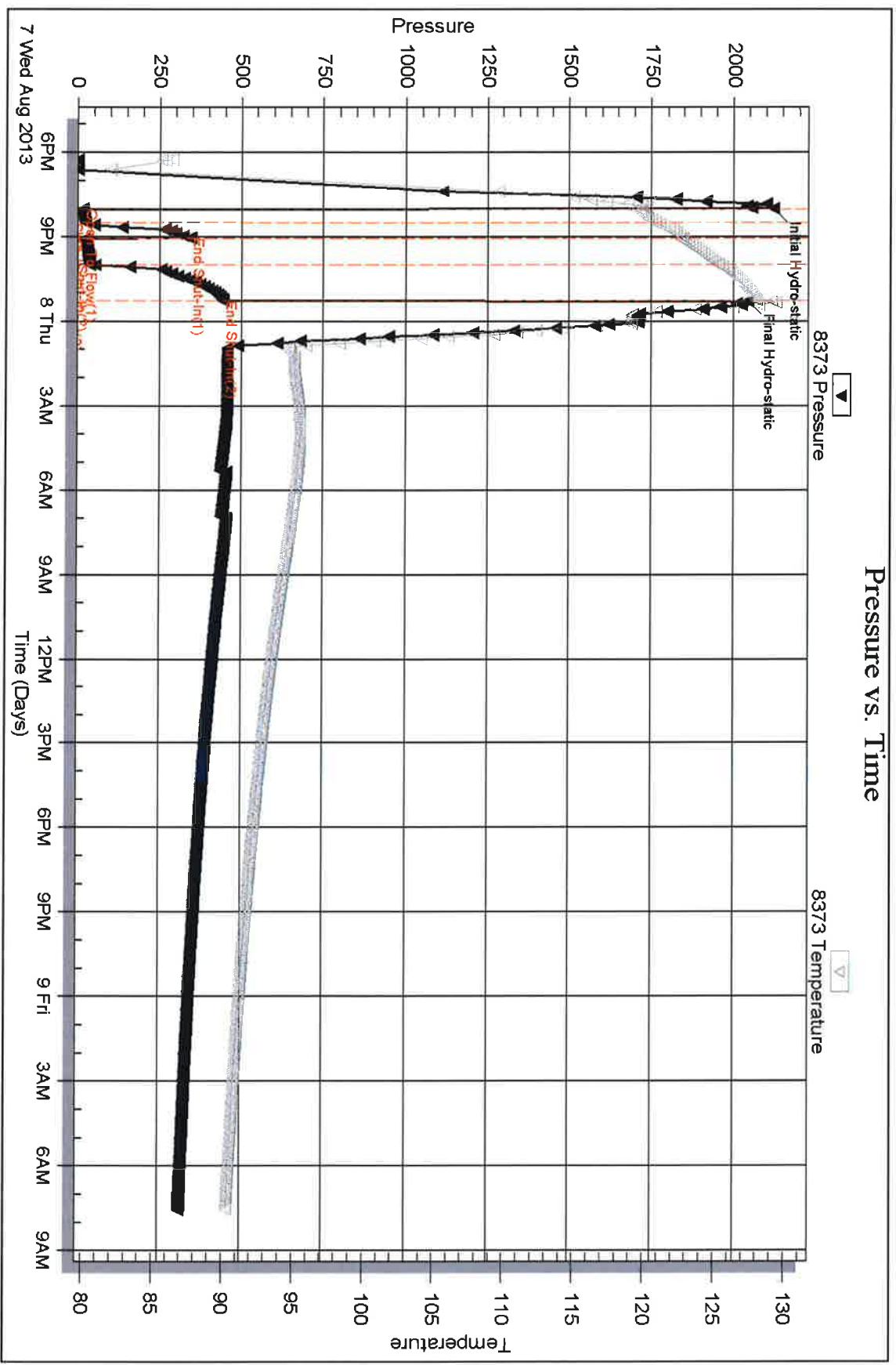
Inside

H&B Petroleum Corp

Daubert #1

DST Test Number: 3

### Pressure vs. Time



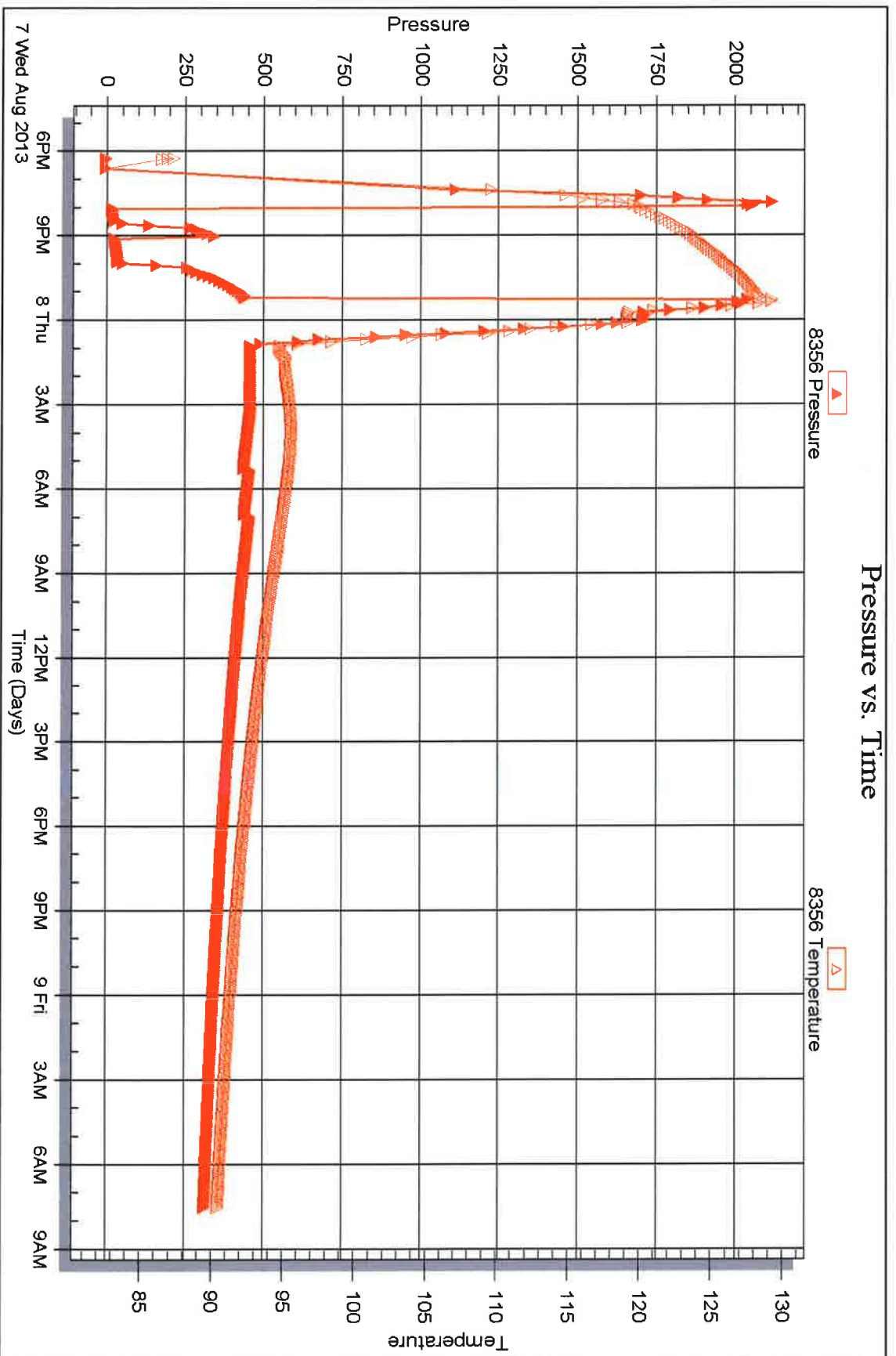
Serial #: 8356

Outside H&B Petroleum Corp

Daubert #1

DST Test Number: 3

### Pressure vs. Time





## DRILL STEM TEST REPORT

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

PO Box 277  
Ellinwood, KS 67526

ATTN: Jim Musgrove

### **Daubert #1**

### **5-19s-31w Scott,KS**

Start Date: 2013.08.14 @ 04:40:00

End Date: 2013.08.14 @ 11:10:45

Job Ticket #: 52955                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

H&B Petroleum Corp 5-19s-31w Scott,KS Daubert #1 DST # 4 Marmaton 2013.08.14



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

H&B Petroleum Corp

**5-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 52955

**DST#: 4**

ATTN: Jim Musgrove

Test Start: 2013.08.14 @ 04:40:00

### GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:39:30

Time Test Ended: 11:10:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 150

Interval: **4338.00 ft (KB) To 4425.00 ft (KB) (TVD)**

Total Depth: 4425.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2980.00 ft (KB)

2970.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8675** Inside

Press@RunDepth: 35.31 psig @ 4339.00 ft (KB)

Start Date: 2013.08.14

End Date:

2013.08.14

Capacity: 8000.00 psig

Last Calib.: 2013.08.14

Start Time: 04:40:15

End Time:

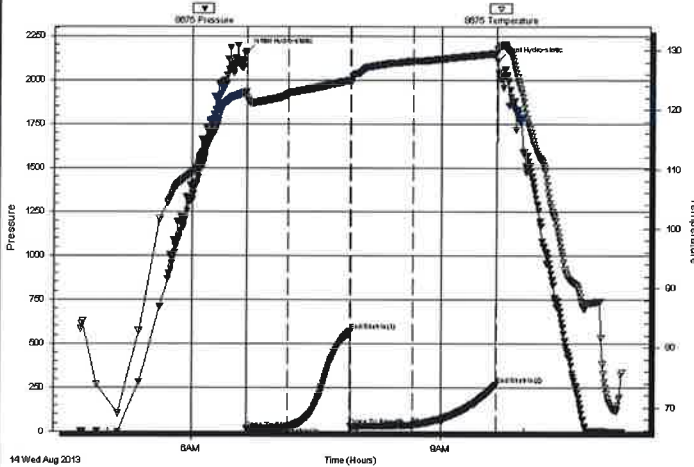
11:10:45

Time On Btm: 2013.08.14 @ 06:39:15

Time Off Btm: 2013.08.14 @ 09:40:15

**TEST COMMENT:** Built to 3" blow  
No return blow  
Built to 3/4" blow  
No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.89	123.13	Initial Hydro-static
1	17.48	122.08	Open To Flow (1)
30	24.48	122.74	Shut-In(1)
75	569.68	125.02	End Shut-In(1)
75	33.00	124.65	Open To Flow (2)
120	35.31	128.23	Shut-In(2)
181	265.17	129.52	End Shut-In(2)
181	2106.70	130.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Clean Oil	0.01
39.00	100% Mud with oil scum	0.55
0.00	80 Feet Gas In Pipe	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

**5-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 52955

**DST#: 4**

ATTN: Jim Musgrove

Test Start: 2013.08.14 @ 04:40:00

### Tool Information

Drill Pipe:	Length: 4349.52 ft	Diameter: 3.80 inches	Volume: 61.01 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 61.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.52 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4338.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.00 ft			
Tool Length:	107.00 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			4319.00	
Shut In Tool	5.00			4324.00	
Hydraulic tool	5.00			4329.00	
Packer	5.00			4334.00	20.00 Bottom Of Top Packer
Packer	4.00			4338.00	
Stubb	1.00			4339.00	
Recorder	0.00	8675	Inside	4339.00	
Recorder	0.00	8650	Outside	4339.00	
Perforations	19.00			4358.00	
Change Over Sub	1.00			4359.00	
Drill Pipe	62.00			4421.00	
Change Over Sub	1.00			4422.00	
Bullnose	3.00			4425.00	87.00 Bottom Packers & Anchor

**Total Tool Length: 107.00**





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&B Petroleum Corp

**5-19s-31w Scott, KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 52955

**DST#: 4**

ATTN: Jim Musgrove

Test Start: 2013.08.14 @ 04:40:00

### 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.37 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
1.00	Clean Oil	0.014
39.00	100% Mud with oil scum	0.547
0.00	80 Feet Gas In Pipe	0.000

Total Length: 40.00 ft      Total Volume: 0.561 bbl

Num Fluid Samples: 0

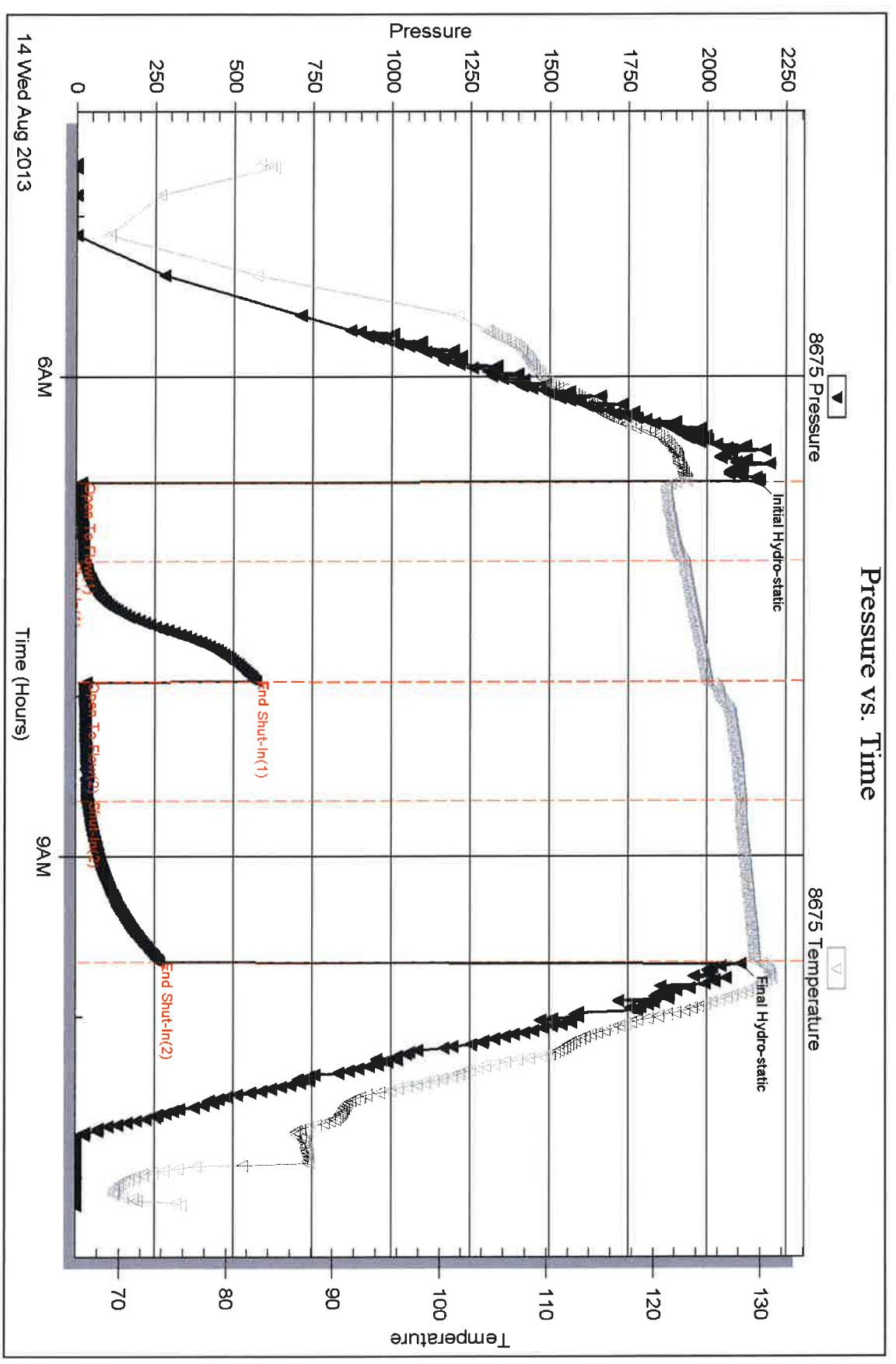
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

PO Box 277  
Ellinwood, KS 67526

ATTN: Jim Musgrove

**Daubert #1**

**5-19s-31w Scott,KS**

Start Date: 2013.08.15 @ 01:30:00

End Date: 2013.08.15 @ 08:18:00

Job Ticket #: 52956                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.16 @ 13:25:09

H&B Petroleum Corp  
5-19s-31w Scott,KS  
Daubert #1  
DST # 5  
Pawnee - Johnson  
2013.08.15



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

H&B Petroleum Corp

**5-19s-31w Scott, KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 52956

**DST#: 5**

ATTN: Jim Musgrove

Test Start: 2013.08.15 @ 01:30:00

### GENERAL INFORMATION:

Formation: **Pawnee - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:48:00

Time Test Ended: 08:18:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 150

Interval: **4422.00 ft (KB) To 4550.00 ft (KB) (TVD)**

Total Depth: 4550.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2980.00 ft (KB)

2970.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8675**

**Inside**

Press@RunDepth: 21.24 psig @ 4423.00 ft (KB)

Start Date: 2013.08.15

End Date:

2013.08.15

Start Time: 01:30:15

End Time:

08:18:00

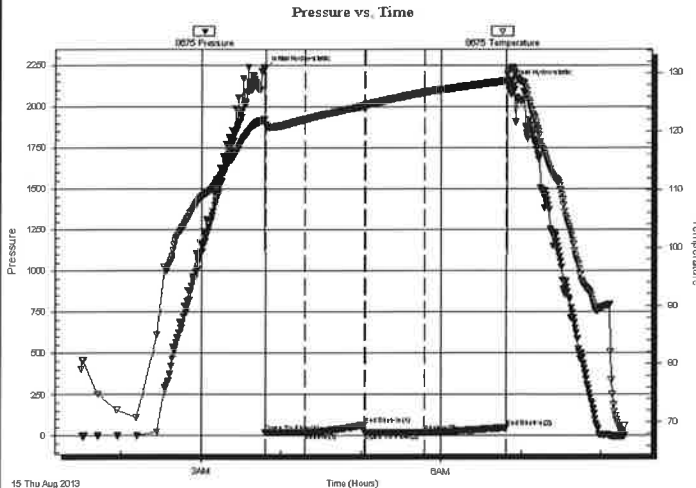
Capacity: 8000.00 psig

Last Calib.: 2013.08.15

Time On Btm: 2013.08.15 @ 03:47:30

Time Off Btm: 2013.08.15 @ 06:49:45

TEST COMMENT: Built to 1" died to 1/2" blow  
No return blow  
No blow  
No return blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2228.27	122.12	Initial Hydro-static
1	18.31	121.19	Open To Flow (1)
31	20.58	121.99	Shut-In(1)
75	67.97	124.37	End Shut-In(1)
76	20.44	124.35	Open To Flow (2)
120	21.24	126.63	Shut-In(2)
182	50.24	128.69	End Shut-In(2)
183	2143.48	129.78	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
8.00	100% mud w with few oil spots	0.11

\* 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

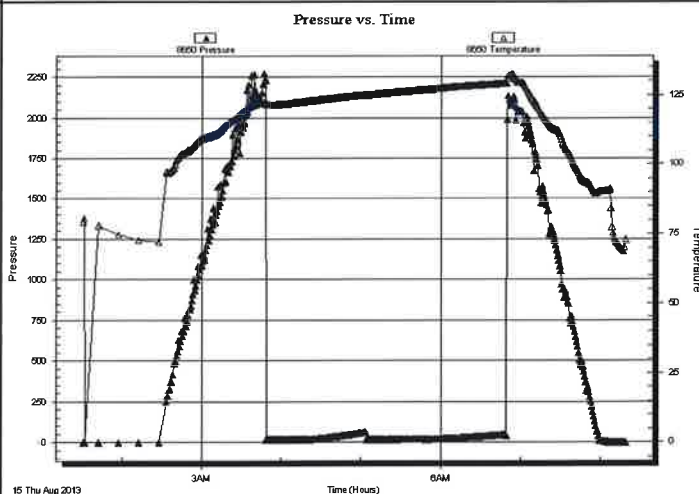
**5-19s-31w Scott, KS**  
**Daubert #1**  
 Job Ticket: 52956      **DST#: 5**  
 Test Start: 2013.08.15 @ 01:30:00

## GENERAL INFORMATION:

Formation: **Pawnee - Johnson**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 03:48:00  
 Time Test Ended: 08:18:00  
 Interval: **4422.00 ft (KB) To 4550.00 ft (KB) (TVD)**  
 Total Depth: 4550.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jace McKinney  
 Unit No: 150  
 Reference Elevations: 2980.00 ft (KB)  
 2970.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8650      Outside**  
 Press@RunDepth:      psig @ 4423.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.08.15      End Date: 2013.08.15      Last Calib.: 2013.08.15  
 Start Time: 01:30:45      End Time: 08:18:45      Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** Built to 1" died to 1/2" blow  
 No return blow  
 No blow  
 No return blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
8.00	100% mud with few oil spots	0.11

\* 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

**5-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 52956

**DST#: 5**

ATTN: Jim Musgrove

Test Start: 2013.08.15 @ 01:30:00

### Tool Information

Drill Pipe:	Length: 4411.47 ft	Diameter: 3.80 inches	Volume: 61.88 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 61.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.47 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4422.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	128.00 ft			
Tool Length:	148.00 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			4403.00	
Shut In Tool	5.00			4408.00	
Hydraulic tool	5.00			4413.00	
Packer	5.00			4418.00	20.00 Bottom Of Top Packer
Packer	4.00			4422.00	
Stubb	1.00			4423.00	
Recorder	0.00	8675	Inside	4423.00	
Recorder	0.00	8650	Outside	4423.00	
Perforations	29.00			4452.00	
Change Over Sub	1.00			4453.00	
Drill Pipe	93.00			4546.00	
Change Over Sub	1.00			4547.00	
Bullnose	3.00			4550.00	128.00 Bottom Packers & Anchor

**Total Tool Length: 148.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

H&B Petroleum Corp

**5-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 52956

**DST#: 5**

ATTN: Jim Musgrove

Test Start: 2013.08.15 @ 01:30:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	100% mud with few oil spots	0.112

Total Length: 8.00 ft      Total Volume: 0.112 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

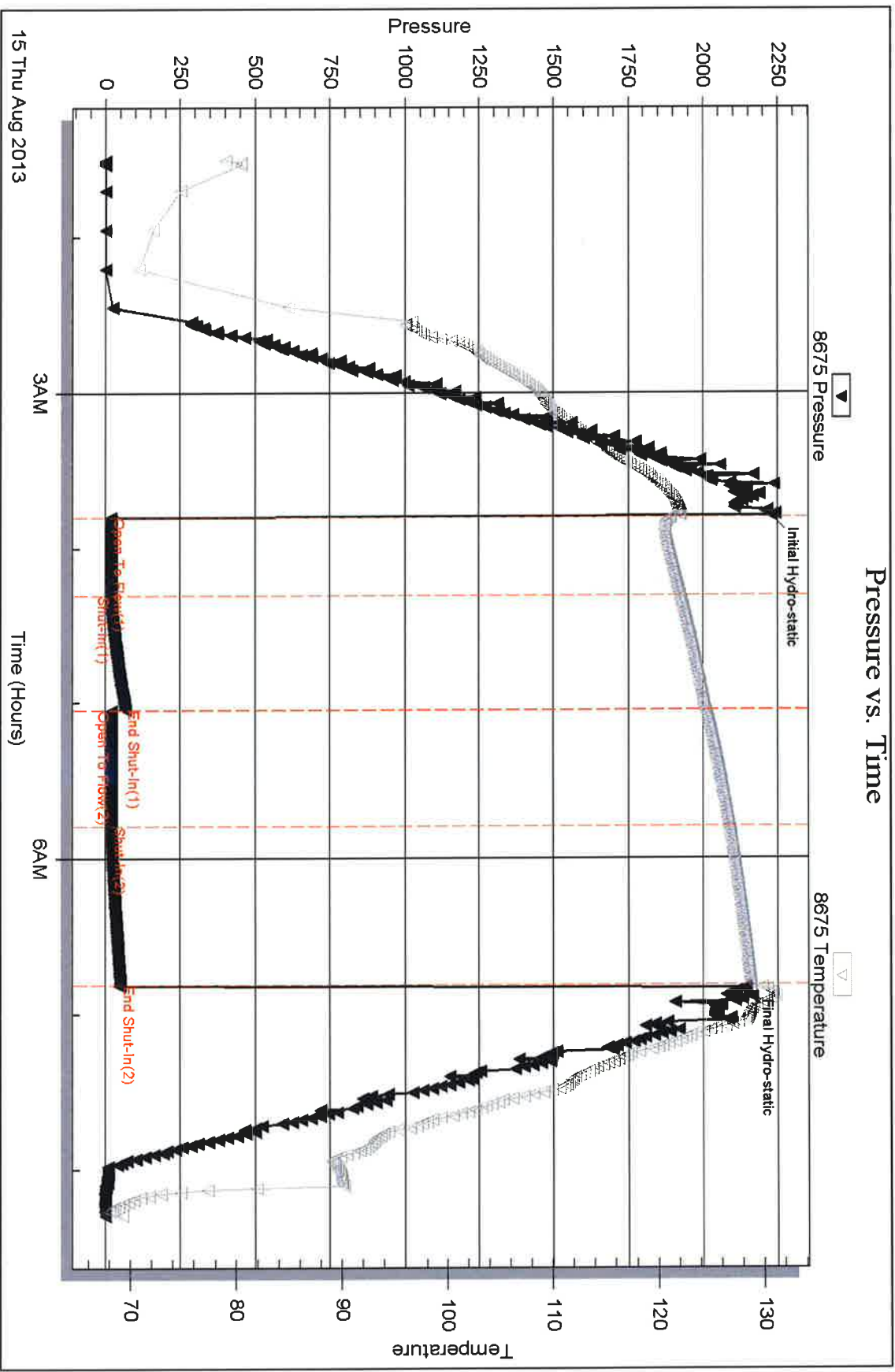
Inside

H&B Petroleum Corp

Daubert #1

DST Test Number: 5

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52956

Printed: 2013.08.16 @ 13:25:12

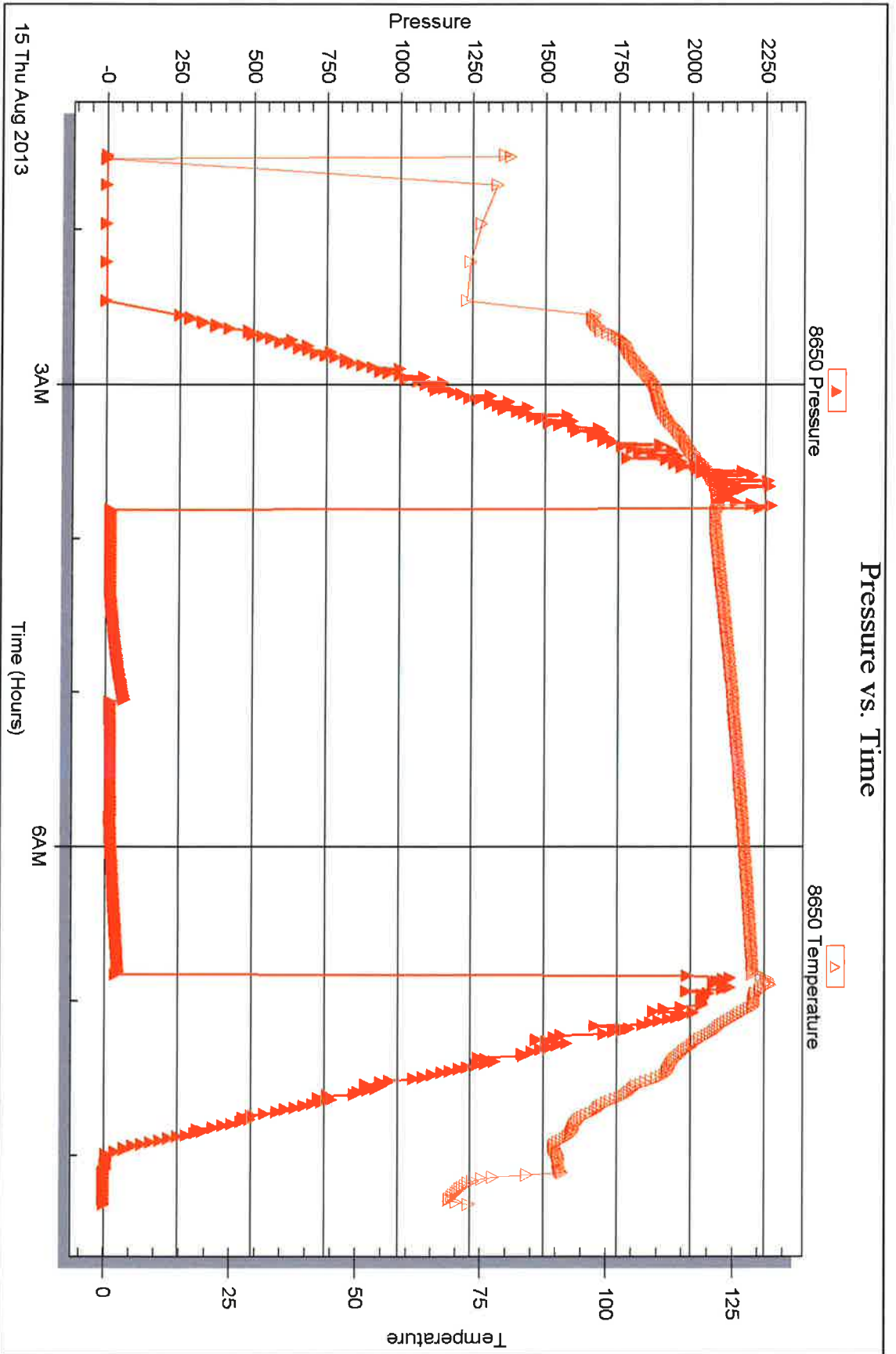


Serial #: 8650

Outside H&B Petroleum Corp

Daubert #1

DST Test Number: 5



Tribble Testing, Inc

Ref. No: 52956

Printed: 2013.08.16 @ 13:25:13



## DRILL STEM TEST REPORT

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

PO Box 277  
Ellinwood, KS 67526

ATTN: Jim Musgrove

### **Daubert #1**

### **5-19s-31w Scott,KS**

Start Date: 2013.08.15 @ 18:50:00

End Date: 2013.08.16 @ 03:33:00

Job Ticket #: 52957                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.16 @ 13:24:29

H&B Petroleum Corp  
5-19s-31w Scott,KS  
Daubert #1  
DST # 6  
Miss  
2013.08.15



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H&B Petroleum Corp

**5-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 52957

**DST#: 6**

ATTN: Jim Musgrove

Test Start: 2013.08.15 @ 18:50:00

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:26:00

Time Test Ended: 03:33:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 60

Interval: **4594.00 ft (KB) To 4612.00 ft (KB) (TVD)**

Total Depth: 4612.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2980.00 ft (KB)

2970.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8675**

**Inside**

Press@RunDepth: 32.89 psig @ 4595.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.15

End Date: 2013.08.16

Last Calib.: 2013.08.16

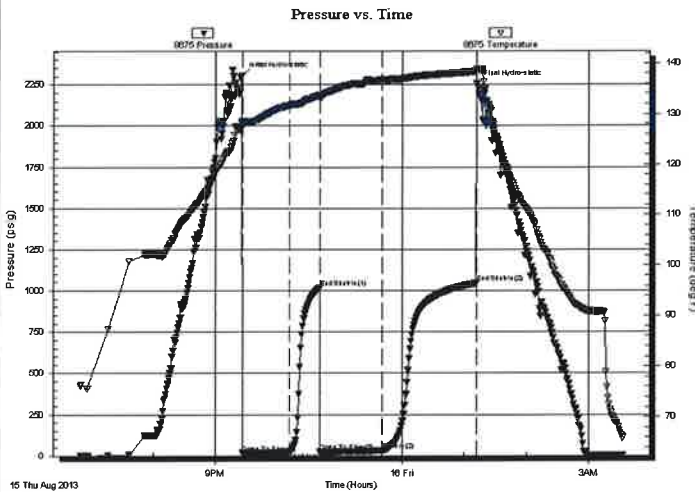
Start Time: 18:50:15

End Time: 03:33:00

Time On Btm: 2013.08.15 @ 21:25:30

Time Off Btm: 2013.08.16 @ 01:12:15

TEST COMMENT: Built to 2" blow  
No return blow  
Built to 2" blow  
No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2301.32	128.33	Initial Hydro-static
1	18.78	127.49	Open To Flow (1)
46	22.03	131.55	Shut-In(1)
75	1017.42	133.58	End Shut-In(1)
76	24.87	133.14	Open To Flow (2)
136	32.89	136.75	Shut-In(2)
226	1045.58	138.32	End Shut-In(2)
227	2254.16	138.83	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	clean oil	0.07
35.00	ocm 5%O 95%M	0.49

\* 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

**5-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Daubert #1**

Job Ticket: 52957

**DST#: 6**

ATTN: Jim Musgrove

Test Start: 2013.08.15 @ 18:50:00

### Tool Information

Drill Pipe:	Length: 4597.87 ft	Diameter: 3.80 inches	Volume: 64.50 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 64.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.87 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4594.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 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			4575.00	
Shut In Tool	5.00			4580.00	
Hydraulic tool	5.00			4585.00	
Packer	5.00			4590.00	20.00 Bottom Of Top Packer
Packer	4.00			4594.00	
Stubb	1.00			4595.00	
Recorder	0.00	8675	Inside	4595.00	
Recorder	0.00	8650	Outside	4595.00	
Perforations	14.00			4609.00	
Change Over Sub	0.00			4609.00	
Drill Pipe	0.00			4609.00	
Change Over Sub	0.00			4609.00	
Bullnose	3.00			4612.00	18.00 Bottom Packers & Anchor

**Total Tool Length: 38.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&B Petroleum Corp

**5-19s-31w Scott,KS**

PO Box 277  
Elinwood, KS 67526

**Daubert #1**

Job Ticket: 52957

**DST#: 6**

ATTN: Jim Musgrove

Test Start: 2013.08.15 @ 18:50:00

## 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:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	clean oil	0.070
35.00	ocm 5%O 95%M	0.491

Total Length: 40.00 ft      Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API 29 @ 70 F = 28

Serial #: 8675

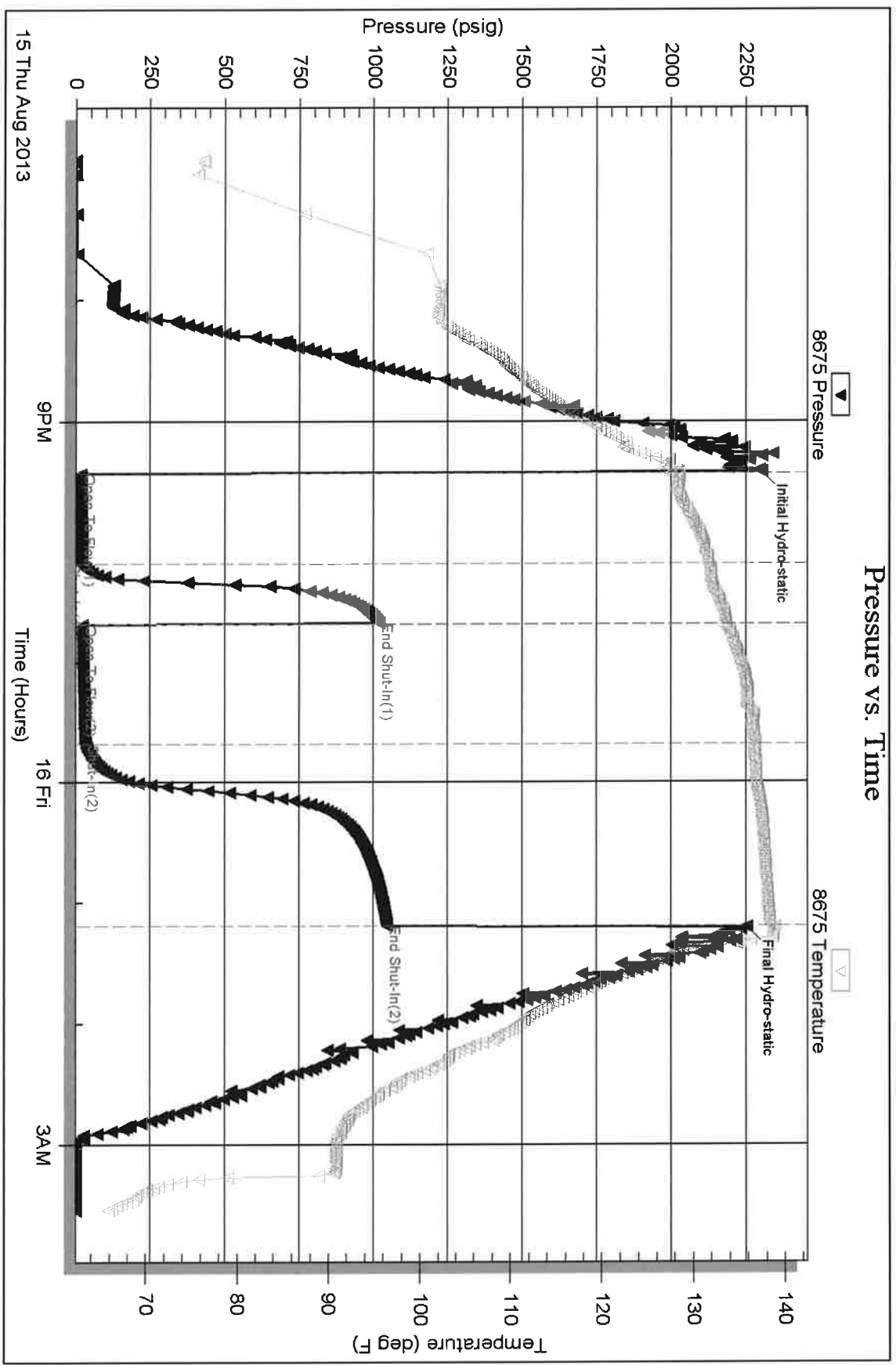
Inside

H&B Petroleum Corp

Daubert #1

DST Test Number: 6

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52957

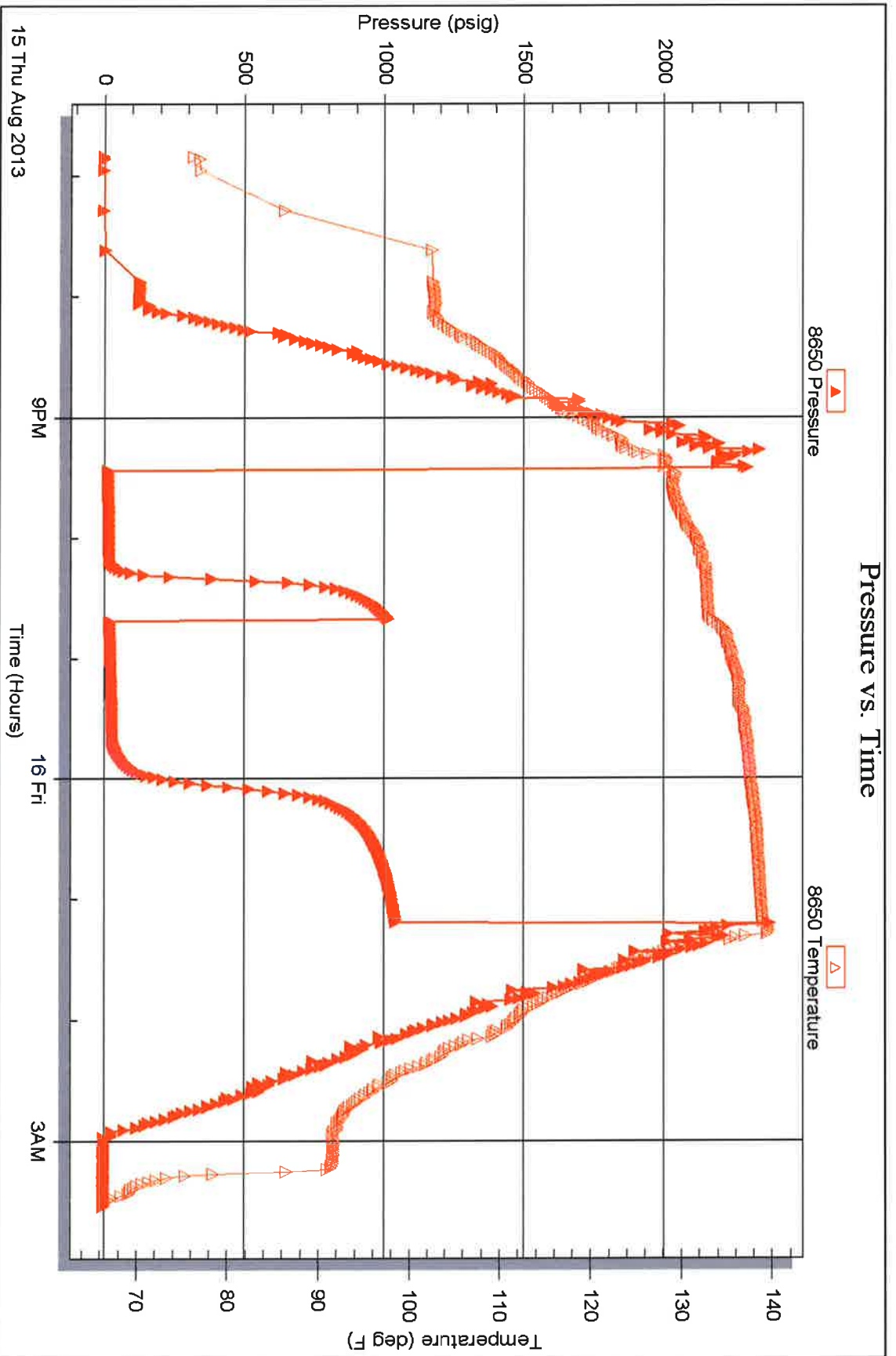
Printed: 2013.08.16 @ 13:24:32

Serial #: 8650

Outside H&B Petroleum Corp

Daubert #1

DST Test Number: 6

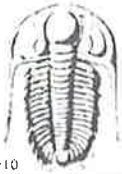


Triobite Testing, Inc

Ref. No: 52957

Printed: 2013.08.16 @ 13:24:32





# TRIOBITE TESTING INC.

1515 Commerce Parkway - Hays, Kansas 67601

## Test Ticket

NO. 53195

Well Name & No.	Daubert #1		Test No.	1	Date	8-6-13
Company	H & B Petroleum Corp		Elevation	2980	KB	2870
Address	P.O. Box 277 Ellinwood, KS 67526					
Co. Rep / Geo.	Jim Musgrove		Rig	South Wind	70	
Location: Sec.	5	Twp.	19	Rge.	31	Co. 500th State KS

Interval Tested	4165	4222	Zone Tested	H-I
Anchor Length		57	Drill Pipe Run	4161
Top Packer Depth		4160	Drill Collars Run	—
Bottom Packer Depth		4165	Wt. Pipe Run	—
Total Depth		4222	Chlorides	800 ppm System
Blow Description	IF: 1/4 blow died in 1/2 min. IS: No return. FF: No <del>return</del> , blow. FS: No return.			

Rec	8	Feet of	mud oil spots	%gas	%oil	%water	100	%mud
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	8	BHT	125	Gravily	—	API RW	—	@	—	F Chlorides	—	ppm
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(A) Initial Hydrostatic	2125	<input checked="" type="checkbox"/> Test	1250	T-On Location	9:40
(B) First Initial Flow	14	<input type="checkbox"/> Jars		T-Started	11:03
(C) First Final Flow	16	<input type="checkbox"/> Safety Joint		T-Open	12:42
(D) Initial Shut-In	526	<input checked="" type="checkbox"/> Circ Sub	NIL	T-Pulled	14:02
(E) Second Initial Flow	15	<input type="checkbox"/> Hourly Standby		T-Out	15:45
(F) Second Final Flow	17	<input checked="" type="checkbox"/> Mileage	<del>30</del> 22rt 34.10	Comments	Hole in c9+ work
(G) Final Shut-In	449	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	2002	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open	20	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	20	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	20	<input type="checkbox"/> Extra Recorder		Sub Total	0
Final Shut-In	20	<input type="checkbox"/> Day Standby		Total	1284.10
		<input checked="" type="checkbox"/> Accessibility	<del>150.00</del>	MP/DST Disc't	

Sub Total 1284.10

Approved By

Our Representative

Triobite Testing Inc. shall not be liable for damage 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

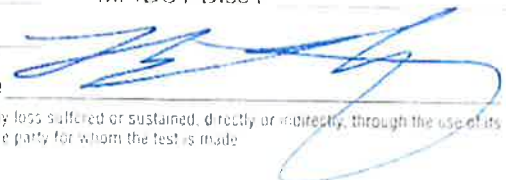
NO. 53196

Well Name & No. <u>Daubert #1</u>	Test No. <u>2</u>	Date <u>8-6-13</u>
Company <u>HJB Petroleum</u>	Elevation <u>2980</u>	KB <u>2970</u> GL
Address _____		
Co. Rep / Geo. <u>Jim Musgrove</u>	Rig <u>Southwind 70</u>	
Location: Sec <u>5</u> Twp. <u>19</u> Rge <u>31</u>	Co <u>Scott</u>	State <u>KS</u>

Interval Tested <u>4214</u>	<u>4246</u>	Zone Tested <u>J</u>
Anchor Length _____	<u>32</u>	Drill Pipe Run _____
Top Packer Depth _____	<u>4209</u>	Drill Collars Run _____
Bottom Packer Depth _____	<u>4214</u>	Wt. Pipe Run _____
Total Depth _____	<u>4246</u>	Chlorides <u>2000</u> ppm System
Blow Description <u>IF: 1/4 blow built to 4,</u>		Mud Wt. <u>9.3</u>
<u>IS: No return,</u>		Vis <u>57</u>
<u>FF: surface blow built to 6,</u>		WL <u>8.0</u>
<u>FS: No return,</u>		LCM <u>6</u>

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Free oil</u>	<u>100</u>			
<u>67</u>	<u>OCM</u>	<u>40</u>		<u>60</u>	
	<u>93 GFP</u>				

Rec Total <u>77</u>	BHT <u>130</u>	Gravity _____	API RW _____ @ _____	F Chlorides _____ ppm
(A) Initial Hydrostatic <u>2097</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>2208</u>		
(B) First Initial Flow <u>13</u>	<input type="checkbox"/> Jars _____	T-Started <u>22:36</u>		
(C) First Final Flow <u>26</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>00:40</u>		
(D) Initial Shut-In <u>450</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>4:25</u>		
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>6:45</u>		
(F) Second Final Flow <u>43</u>	<input checked="" type="checkbox"/> Mileage <u>30</u> 34.10	Comments _____		
(G) Final Shut-In <u>447</u>	<input type="checkbox"/> Sampler _____			
(H) Final Hydrostatic <u>2004</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____		
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____		
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____		
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>		
Final Shut-In <u>75</u>	<input checked="" type="checkbox"/> Day Standby _____	Total <u>1284.10</u>		
	<input checked="" type="checkbox"/> Accessibility <u>150.00</u>	MP/DST Disc't _____		
	Sub Total <u>1284.10</u>			

Approved By \_\_\_\_\_ Our Representative 

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.

1515 Commerce Parkway - Hays, Kansas 67601

## Test Ticket

NO. 53197

Well Name & No. Daubert #1 Test No. 3 Date 8-7-13  
 Company HdB Petroleum Elevation 2980 KB 2970 GI  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Jim Musgrove Rig Southwind 70  
 Location: Sec. 5 Twp. 19 Rge. 31 Co. Scott State KS

Interval Tested 4259 4332 Zone Tested K-L  
 Anchor Length 73 Drill Pipe Run 4255 Mud Wt. 9.2  
 Top Packer Depth 4254 Drill Collars Run — Vis 54  
 Bottom Packer Depth 4259 Wt. Pipe Run — WL 8.2  
 Total Depth 4332 Chlorides 2000 ppm System LCM 8  
 Blow Description IF: 1/4 blow built to 5,  
IS: No return.  
FF: Surface blow built to 9,  
FS:

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Free oil</u>		<u>100</u>		
<u>37</u>	<u>OCM</u>		<u>10</u>		<u>90</u>
	<u>186 GIP</u>				

Rec Total 67 BHT 128 Gravity — API RW — @ — F Chlorides — ppm  
 (A) Initial Hydrostatic 2121  Test 1250 T-On Location 18:00  
 (B) First Initial Flow 16  Jars T-Started 18:15  
 (C) First Final Flow 23  Safety Joint T-Open 20:00  
 (D) Initial Shut-In 345  Circ Sub T-Pulled 23:15  
 (E) Second Initial Flow 22  Hourly Standby T-Out 8:45 8/9/13  
 (F) Second Final Flow 36  Mileage 30x7 68.20 Comments Rig W95 down  
 (G) Final Shut-In 444  Sampler left rig at 3pm  
 (H) Final Hydrostatic 2041  Straddle on the 8-8-13  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Initial Open 30  Shale Packer  
 Initial Shut-In 30  Extra Packer  
 Extra Recorder  
 Final Flow 60  Day Standby 1 1/2 1d 5.75h Sub Total 800  
 Final Shut-In 75  Accessibility 150.00 Total 2118.20  
 Sub Total 1318.20 MP/DST Disc't

Approved By [Signature] Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52955

Well Name & No.	Daubert # 1		Test No.	4	Date	8/14/13
Company	H+B Petroleum Corp.		Elevation	2980	KB	2970
Address	PO Box 277 Ellinwood, KS 67526					
Co. Rep / Geo.	Jim Musgrove		Rig	Southwind Rig 70		
Location: Sec.	5	Twp.	19S	Rge	3W	Co. Scott
						State KS

Interval Tested	4338-4425	Zone Tested	Marmaton
Anchor Length	87	Drill Pipe Run	4349.62
Top Packer Depth	4334	Drill Collars Run	
Bottom Packer Depth	4338	Wt. Pipe Run	
Total Depth	4425	Chlorides	2,000 ppm System
			LCM 5#

Blow Description Built to 3" below  
 No return below  
 Built to 3/4" below  
 No return below

Rec	Feet of	%gas	%oil	%water	%mud
0	80' Gas In Pipe				
39	Mud with oil scum				106
1	Clean oil.				

Rec Total	40	BHT	129	Gravity		API RW	@	F Chlorides	ppm
(A) Initial Hydrostatic	2,158	<input checked="" type="checkbox"/> Test	1250	T-On Location	03:00				
(B) First Initial Flow	17	<input type="checkbox"/> Jars		T-Started	04:40				
(C) First Final Flow	24	<input type="checkbox"/> Safety Joint		T-Open	06:39				
(D) Initial Shut-In	570	<input checked="" type="checkbox"/> Circ Sub		T-Pulled	09:39				
(E) Second Initial Flow	33	<input type="checkbox"/> Hourly Standby		T-Out	11:10				
(F) Second Final Flow	35	<input checked="" type="checkbox"/> Mileage	22 RT 34.10	Comments	excess because hole in catwalk, wonder why we are getting hurt ankles				
(G) Final Shut-In	265	<input type="checkbox"/> Sampler		<input type="checkbox"/> Ruined Shale Packer					
(H) Final Hydrostatic	2,107	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Packer					
Initial Open	30	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Extra Copies					
Initial Shut-In	15	<input type="checkbox"/> Extra Packer		Sub Total	0				
Final Flow	45	<input type="checkbox"/> Extra Recorder		Total	1284.10				
Final Shut-In	60	<input type="checkbox"/> Day Standby		MP/DST Disc't					
		<input checked="" type="checkbox"/> Accessibility							
		Sub Total	1284.10						

Approved By \_\_\_\_\_

Our Representative \_\_\_\_\_

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1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

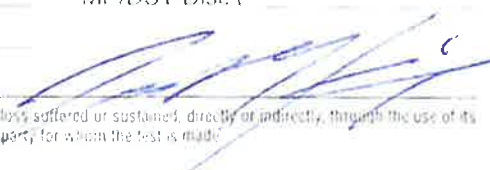
NO. 52956

Well Name & No. <u>Daylect #1</u>	Test No. <u>5</u>	Date <u>8/15/13</u>
Company <u>H &amp; B Petroleum Corp.</u>	Elevation <u>2980</u>	KB <u>2970</u> GI
Address <u>PO Box 277 Ellinwood, KS 67526</u>		
Co. Rep / Geo. <u>Jim Musgrove</u>	Rig <u>Southwind Rig 70</u>	
Location Sec. <u>5</u> Twp. <u>19s</u> Rge. <u>31w</u>	Co. <u>Scott Co.</u>	State <u>KS</u>

Interval Tested <u>4422-4550</u>	Zone Tested <u>Pawnee - Johnson</u>	
Anchor Length <u>128</u>	Drill Pipe Run <u>4411.47</u>	Mud Wt. <u>9.1</u>
Top Packer Depth <u>4438</u>	Drill Collars Run _____	Vis <u>52</u>
Bottom Packer Depth <u>4422</u>	Wt. Pipe Run _____	WL <u>9.2</u>
Total Depth <u>4550</u>	Chlorides <u>3000</u> ppm System	LCM <u>5.5</u>
Blow Description <u>Built to 1" below, died to 1/2" in 30 mins</u> <u>No return below</u> <u>No below</u> <u>No return below</u>		

Rec	Feet of	%gas	%oil	%water	%mud
<u>8</u>	<u>Mud with few oil 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 <u>8</u>	BHT <u>128</u>	Gravity _____	API RW _____	@ _____	F Chlorides _____ ppm
(A) Initial Hydrostatic	<u>2,228</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>		T-On Location <u>02:30</u>
(B) First Initial Flow	<u>18</u>	<input type="checkbox"/> Jars			T-Started <u>01:30</u>
(C) First Final Flow	<u>21</u>	<input type="checkbox"/> Safety Joint			T-Open <u>03:48</u>
(D) Initial Shut-In	<u>68</u>	<input checked="" type="checkbox"/> Circ Sub <u>n/c</u>			T-Pulled <u>06:48</u>
(E) Second Initial Flow	<u>20</u>	<input type="checkbox"/> Hourly Standby			T-Out <u>08:18</u>
(F) Second Final Flow	<u>21</u>	<input checked="" type="checkbox"/> Mileage <u>22 RT</u>	<u>34.10</u>		Comments _____
(G) Final Shut-In	<u>50</u>	<input type="checkbox"/> Sampler			<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic	<u>2,143</u>	<input type="checkbox"/> Straddle			<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>		<input type="checkbox"/> Shale Packer			<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>		<input type="checkbox"/> Extra Packer			Sub Total <u>0</u>
Final Flow <u>45</u>		<input type="checkbox"/> Extra Recorder			Total <u>1284.10</u>
Final Shut-In <u>60</u>		<input type="checkbox"/> Day Standby			MP/DST Disc't _____
		<input checked="" type="checkbox"/> Accessibility			
		Sub Total	<u>1284.10</u>		

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52957

Well Name & No.	Daukeert #1		Test No.	6	Date	8/15/13	
Company	H+B Petroleum Corp.		Elevation	2480	KB	2970	
Address	PO Box 277 Ellinwood, KS 67526					GI	
Co. Rep / Geo.	Jim Musgrave		Rig	Southwind Rig 20			
Location: Sec.	5	Twp	19S	Rge	31W	Co	South County
						State	KS

Interval Tested	4594 - 4612	Zone Tested	Miss
Anchor Length	18	Drill Pipe Run	
Top Packer Depth	4590	Drill Collars Run	
Bottom Packer Depth	4594	Wt. Pipe Run	
Total Depth	4612	Chlorides	3000 ppm System
Blow Description	Built to 2" below No return below Built to 2" below No return below		

Rec	Feet of	%gas	%oil	%water	%mud
5	Clean Cut	100			
35	OCM	5			95

Rec Total	40	BHT	138	Gravily	28	API RW	@	F Chlorides	ppm
(A) Initial Hydrostatic	2,301	<input checked="" type="checkbox"/> Test	1250	T-On Location	18:00				
(B) First Initial Flow	19	<input type="checkbox"/> Jars		T-Started	18:50				
(C) First Final Flow	22	<input type="checkbox"/> Safety Joint		T-Open	21:26				
(D) Initial Shut-In	1,017	<input checked="" type="checkbox"/> Circ Sub	N/C	T-Pulled	01:11				
(E) Second Initial Flow	25	<input type="checkbox"/> Hourly Standby		T-Out	03:33				
(F) Second Final Flow	33	<input checked="" type="checkbox"/> Mileage	22 RT 34.10	Comments					
(G) Final Shut In	1,046	<input type="checkbox"/> Sampler		<input type="checkbox"/> Ruined Shale Packer					
(H) Final Hydrostatic	2,254	<input type="checkbox"/> Straddle		<input checked="" type="checkbox"/> Ruined Packer	320				
Initial Open	45	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Extra Copies					
Initial Shut-In	30	<input type="checkbox"/> Extra Packer		Sub Total	0				
Final Flow	60	<input type="checkbox"/> Extra Recorder		Total	1604.10				
Final Shut In	90	<input type="checkbox"/> Day Standby		MP/DST Disc't					
		<input checked="" type="checkbox"/> Accessibility							
		Sub Total	1284.10						

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