



## DRILL STEM TEST REPORT

Prepared For: **Special Energy**

PO Drawer 369  
Stillwater OK 74076

ATTN: George Utley

### **HXP1 #1**

#### **1-23s-19w Edwards,KS**

Start Date: 2014.09.13 @ 01:38:00

End Date: 2014.09.13 @ 08:10:00

Job Ticket #: 60317                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.16 @ 12:03:29



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Special Energy

**1-23s-19w Edwards,KS**

PO Drawer 369  
Stillwater OK 74076

**HXP1 #1**

Job Ticket: 60317

**DST#: 1**

ATTN: George Utley

Test Start: 2014.09.13 @ 01:38:00

## GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:27:30

Time Test Ended: 08:10:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: S2

**Interval: 4170.00 ft (KB) To 4202.00 ft (KB) (TVD)**

Reference Elevations: 2208.00 ft (KB)

Total Depth: 4202.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6839**

**Inside**

Press@RunDepth: 36.10 psig @ 4197.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.13

End Date:

2014.09.13

Last Calib.:

2014.09.13

Start Time: 01:39:00

End Time:

08:10:00

Time On Btm:

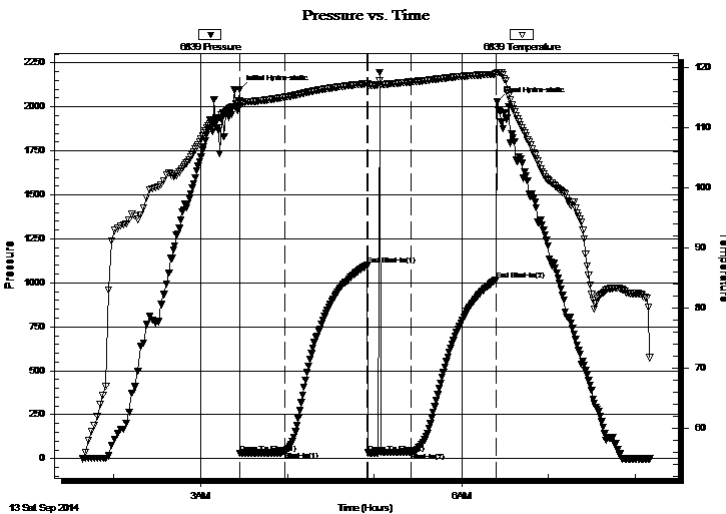
2014.09.13 @ 03:27:00

Time Off Btm:

2014.09.13 @ 06:24:30

**TEST COMMENT:** IFP 30 Weak surface blow died off after 16 minutes.  
ISI 60 No blow back.  
FFP 30 Dead flushed tool after 5 minutes ,No help.  
FSI60 No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2099.73	114.40	Initial Hydro-static
1	31.20	114.06	Open To Flow (1)
32	44.33	115.04	Shut-In(1)
88	1099.27	117.28	End Shut-In(1)
89	33.34	117.00	Open To Flow (2)
118	36.10	117.55	Shut-In(2)
177	1015.47	118.86	End Shut-In(2)
178	2028.03	119.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud 100%	0.02

## Gas Rates

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



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TESTING, INC**

# DRILL STEM TEST REPORT

Special Energy

**1-23s-19w Edwards,KS**

PO Drawer 369  
Stillwater OK 74076

**HXP1 #1**

Job Ticket: 60317

**DST#: 1**

ATTN: George Utley

Test Start: 2014.09.13 @ 01:38:00

## GENERAL INFORMATION:

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Time Tool Opened: 03:27:30

Time Test Ended: 08:10:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: S2

**Interval: 4170.00 ft (KB) To 4202.00 ft (KB) (TVD)**

Reference Elevations: 2208.00 ft (KB)

Total Depth: 4202.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6999 Outside**

Press@RunDepth: 1016.71 psig @ 4197.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.13

End Date: 2014.09.13

Last Calib.: 2014.09.13

Start Time: 01:39:00

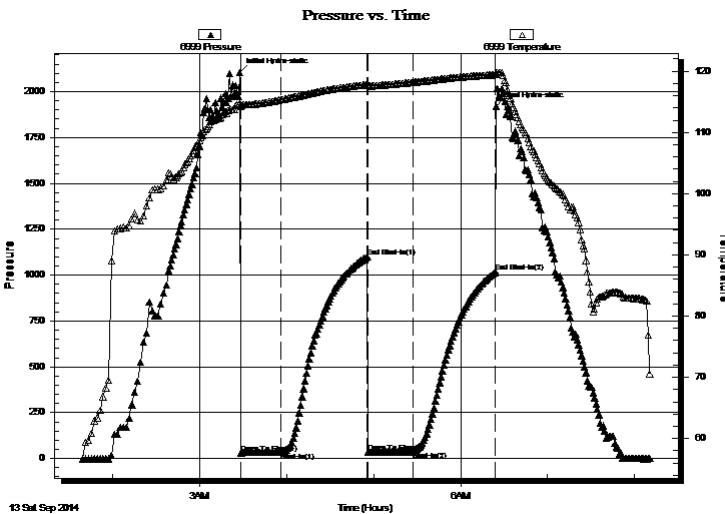
End Time: 08:10:30

Time On Btm: 2014.09.13 @ 03:27:30

Time Off Btm: 2014.09.13 @ 06:24:30

**TEST COMMENT:** IFP 30 Weak surface blow died off after 16 minutes.  
ISI 60 No blow back.  
FFP 30 Dead flushed tool after 5 minutes ,No help.  
FSI60 No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2105.02	114.72	Initial Hydro-static
1	31.41	114.30	Open To Flow (1)
28	33.12	115.30	Shut-In(1)
88	1099.51	117.79	End Shut-In(1)
89	33.71	117.59	Open To Flow (2)
120	41.31	118.18	Shut-In(2)
177	1016.71	119.41	End Shut-In(2)
177	1920.84	119.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud 100%	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Special Energy

**1-23s-19w Edwards,KS**

PO Draw er 369  
Stillw ater OK 74076

**HXP1 #1**

Job Ticket: 60317

**DST#: 1**

ATTN: George Utley

Test Start: 2014.09.13 @ 01:38:00

## Tool Information

Drill Pipe:	Length: 3922.00 ft	Diameter: 3.80 inches	Volume: 55.02 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:	20000.00 lb
Drill Collar:	Length: 244.20 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 56.22 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.20 ft			String Weight: Initial	59000.00 lb
Depth to Top Packer:	4170.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	32.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4147.00	
Hydraulic tool	5.00			4152.00	
Jars	6.00			4158.00	
Safety Joint	2.00			4160.00	
Top Packer	5.00			4165.00	
Packer	5.00			4170.00	28.00 Bottom Of Top Packer
Perforations	27.00			4197.00	
Recorder	0.00	6839	Inside	4197.00	
Recorder	0.00	6999	Outside	4197.00	
Bull Plug	5.00			4202.00	32.00 Anchor Tool
<b>Total Tool Length:</b>	<b>60.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Special Energy

**1-23s-19w Edwards,KS**

PO Drawer 369  
Stillwater OK 74076

**HXP1 #1**

Job Ticket: 60317

**DST#: 1**

ATTN: George Utley

Test Start: 2014.09.13 @ 01:38:00

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Mud 100%	0.020

Total Length: 4.00 ft      Total Volume: 0.020 bbl

Num Fluid Samples: 0

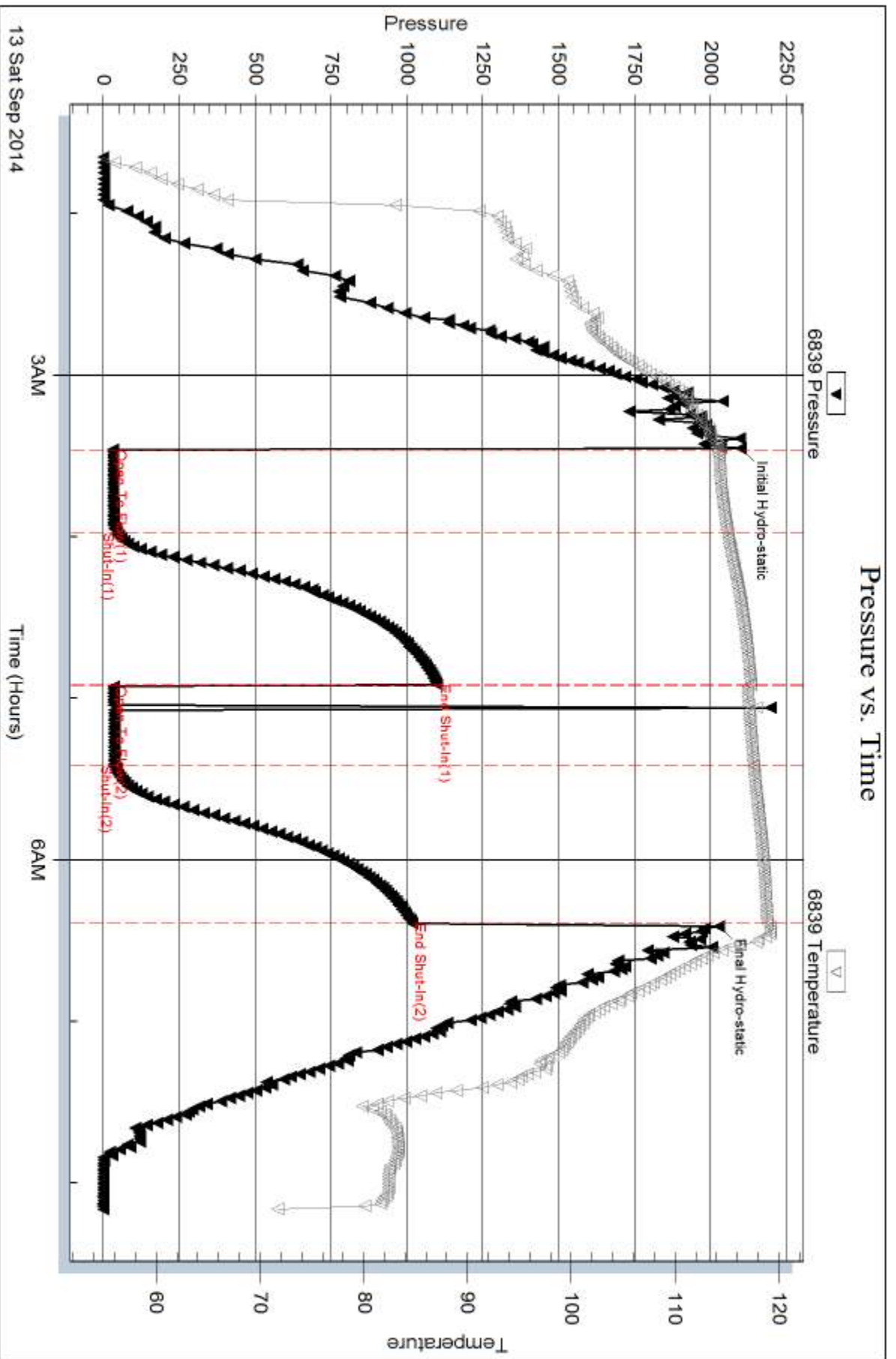
Num Gas Bombs: 0

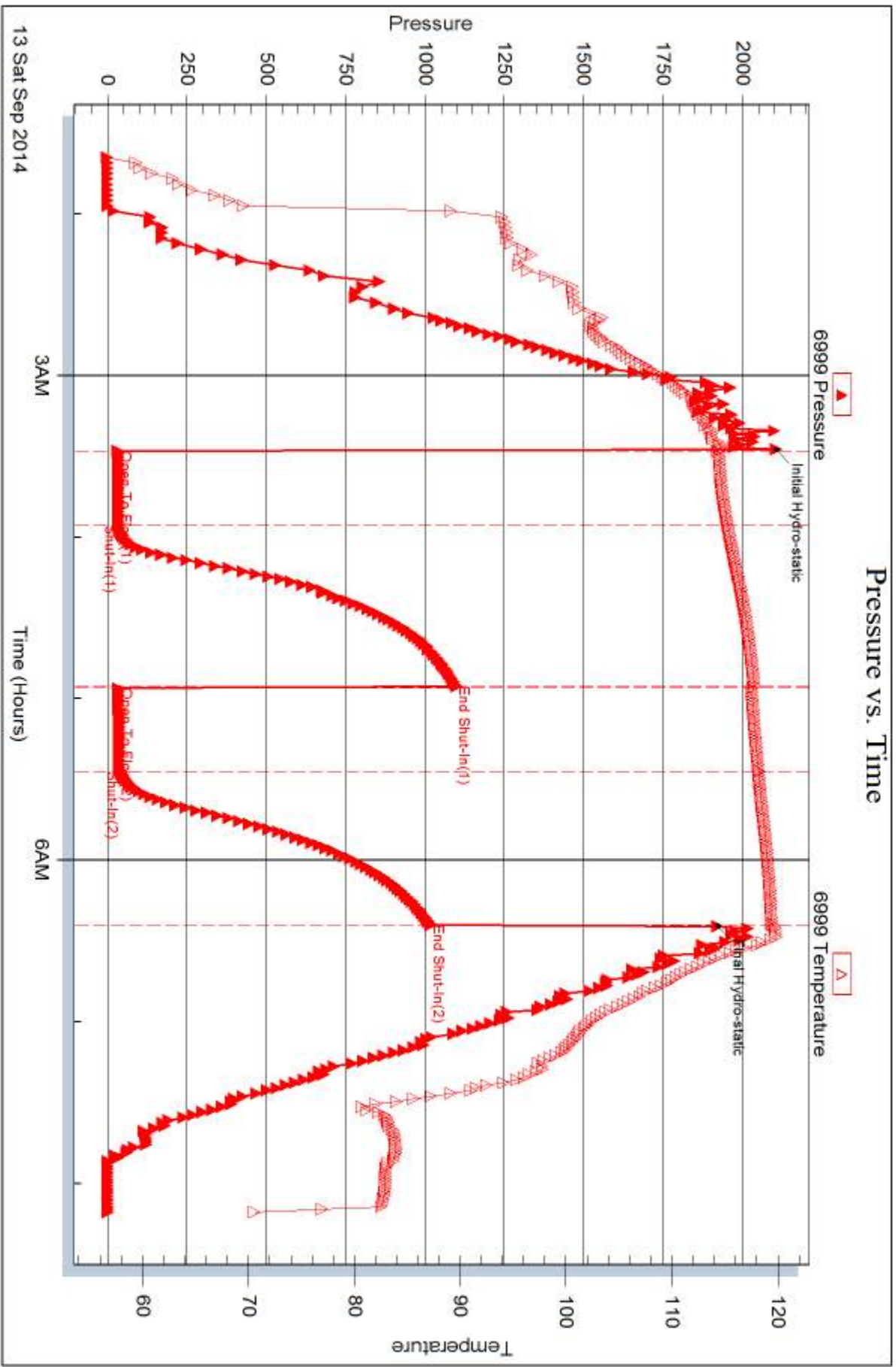
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Special Energy**

PO Drawer 369  
Stillwater OK 74076

ATTN: George Utley

### **HXP1 #1**

#### **1-23s-19w Edwards,KS**

Start Date: 2014.09.14 @ 03:21:00

End Date: 2014.09.14 @ 11:51:00

Job Ticket #: 60318                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.16 @ 12:02:57

Special Energy  
1-23s-19w Edwards,KS  
HXP1 #1  
DST # 2  
Cherokee  
2014.09.14





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Special Energy

**1-23s-19w Edwards,KS**

PO Drawer 369  
Stillwater OK 74076

**HXP1 #1**

Job Ticket: 60318

**DST#: 2**

ATTN: George Utley

Test Start: 2014.09.14 @ 03:21:00

## GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:09:30

Time Test Ended: 11:51:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: S2

**Interval: 4428.00 ft (KB) To 4439.00 ft (KB) (TVD)**

Reference Elevations: 2208.00 ft (KB)

Total Depth: 4439.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6839**

**Inside**

Press@RunDepth: 658.92 psig @ 4434.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.14

End Date:

2014.09.14

Last Calib.: 2014.09.15

Start Time: 03:22:00

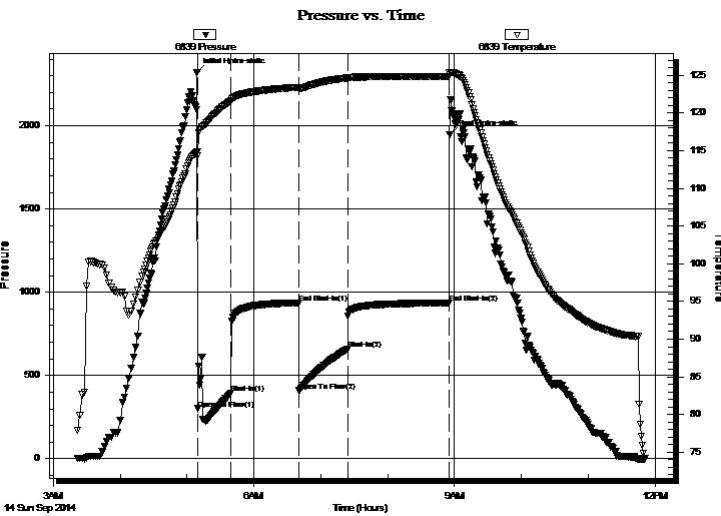
End Time:

11:51:00

Time On Btm: 2014.09.14 @ 05:09:00

Time Off Btm: 2014.09.14 @ 08:55:30

**TEST COMMENT:** IFP 30 BOB in 2 1/2 min  
ISI60 Yes blow back.  
FFP 45 BOB in 5 min GTS in 23 min  
FSI90 Yes blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2320.31	114.82	Initial Hydro-static
1	299.81	114.36	Open To Flow (1)
31	395.21	121.60	Shut-In(1)
91	936.90	123.42	End Shut-In(1)
92	408.60	123.22	Open To Flow (2)
135	658.92	124.63	Shut-In(2)
226	936.15	124.84	End Shut-In(2)
227	1947.73	125.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
315.00	Muddy water 85% water 15% mud	2.19
756.00	Water 100%	10.60
0.00	GTS	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	-9.50	1.83
Last Gas Rate	0.13	-9.50	1.83



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Special Energy

**1-23s-19w Edwards,KS**

PO Drawer 369  
Stillwater OK 74076

**HXP1 #1**

Job Ticket: 60318

**DST#: 2**

ATTN: George Utley

Test Start: 2014.09.14 @ 03:21:00

## GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:09:30

Time Test Ended: 11:51:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: S2

**Interval: 4428.00 ft (KB) To 4439.00 ft (KB) (TVD)**

Reference Elevations: 2208.00 ft (KB)

Total Depth: 4439.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6999 Outside**

Press@RunDepth: 937.08 psig @ 4434.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.14

End Date:

2014.09.14

Last Calib.:

2014.09.15

Start Time:

03:22:00

End Time:

11:51:30

Time On Btm:

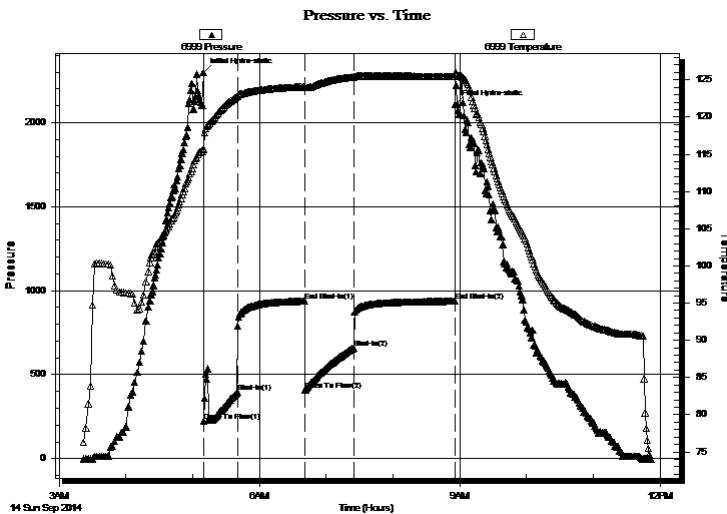
2014.09.14 @ 05:09:30

Time Off Btm:

2014.09.14 @ 08:56:00

**TEST COMMENT:** IFP 30 BOB in 2 1/2 min  
ISI60 Yes blow back.  
FFP 45 BOB in 5 min GTS in 23 min  
FSI90 Yes blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2299.69	115.59	Initial Hydro-static
1	222.86	115.74	Open To Flow (1)
31	395.18	122.76	Shut-In(1)
91	937.82	124.09	End Shut-In(1)
92	406.63	123.94	Open To Flow (2)
135	659.69	125.38	Shut-In(2)
226	937.08	125.44	End Shut-In(2)
227	2106.78	125.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
315.00	Muddy water 85% water 15% mud	2.19
756.00	Water 100%	10.60
0.00	GTS	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	-9.50	1.83
Last Gas Rate	0.13	-9.50	1.83



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Special Energy

**1-23s-19w Edwards,KS**

PO Drawer 369  
Stillwater OK 74076

**HXP1 #1**

Job Ticket: 60318

**DST#: 2**

ATTN: George Utley

Test Start: 2014.09.14 @ 03:21:00

## Tool Information

Drill Pipe:	Length: 4170.00 ft	Diameter: 3.80 inches	Volume: 58.49 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:	20000.00 lb
Drill Collar:	Length: 244.20 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 59.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.20 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4428.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	11.00 ft				
Tool Length:	40.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4404.00	
Hydraulic tool	5.00			4409.00	
Jars	6.00			4415.00	
Safety Joint	2.00			4417.00	
Top Packer	5.00			4422.00	
Packer	6.00			4428.00	29.00 Bottom Of Top Packer
Perforations	6.00			4434.00	
Recorder	0.00	6839	Inside	4434.00	
Recorder	0.00	6999	Outside	4434.00	
Bull Plug	5.00			4439.00	11.00 Anchor Tool
<b>Total Tool Length:</b>	<b>40.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Special Energy

**1-23s-19w Edwards,KS**

PO Drawer 369  
Stillwater OK 74076

**HXP1 #1**

Job Ticket: 60318

**DST#: 2**

ATTN: George Utley

Test Start: 2014.09.14 @ 03:21:00

### 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:

50000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	Muddy water 85%water 15% mud	2.194
756.00	Water 100%	10.605
0.00	GTS	0.000

Total Length: 1071.00 ft      Total Volume: 12.799 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .2ohms@56degress



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Special Energy

**1-23s-19w Edwards,KS**

PO Drawer 369  
Stillwater OK 74076

**HXP1 #1**

Job Ticket: 60318

**DST#: 2**

ATTN: George Utley

Test Start: 2014.09.14 @ 03:21:00

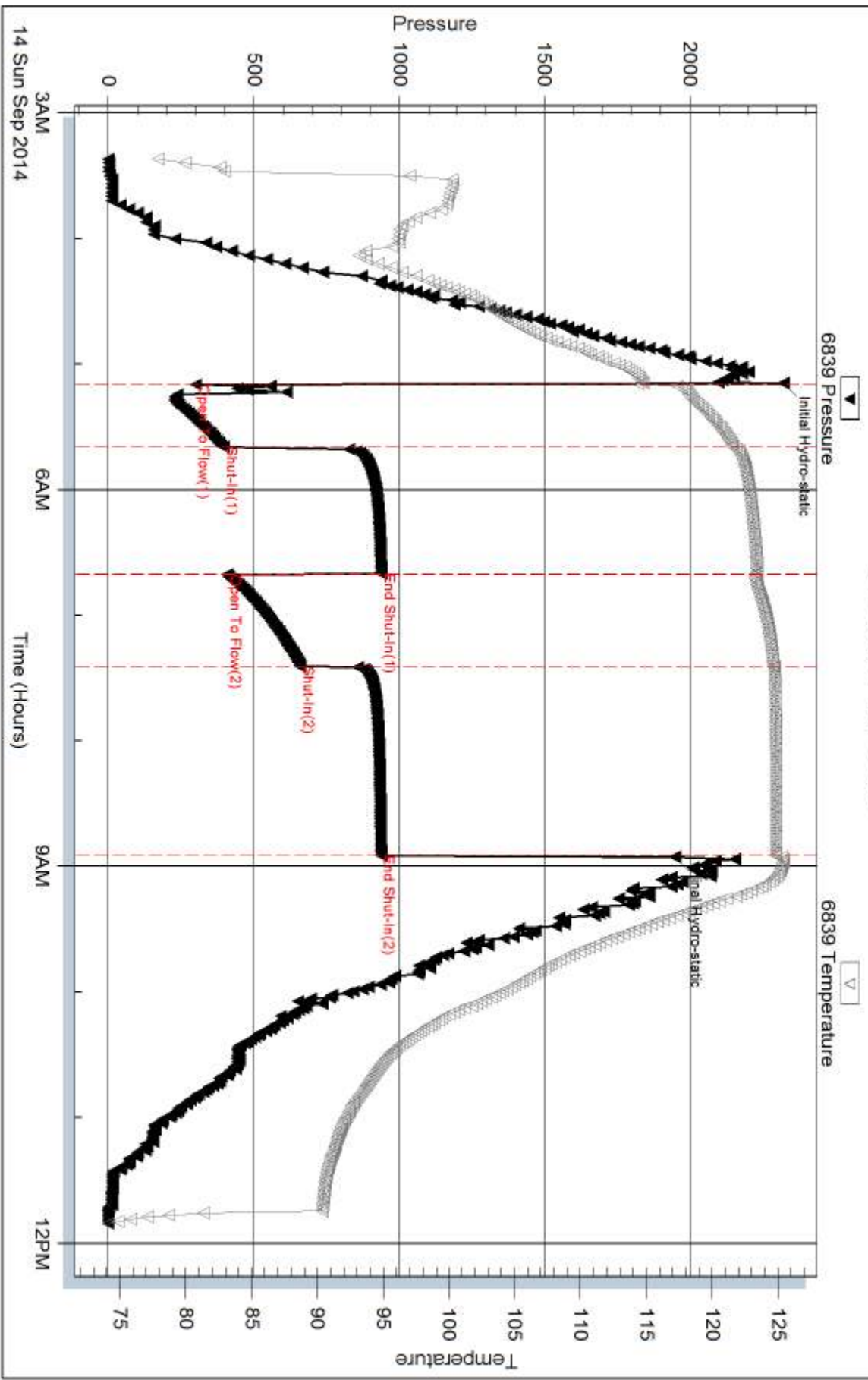
### Gas Rates Information

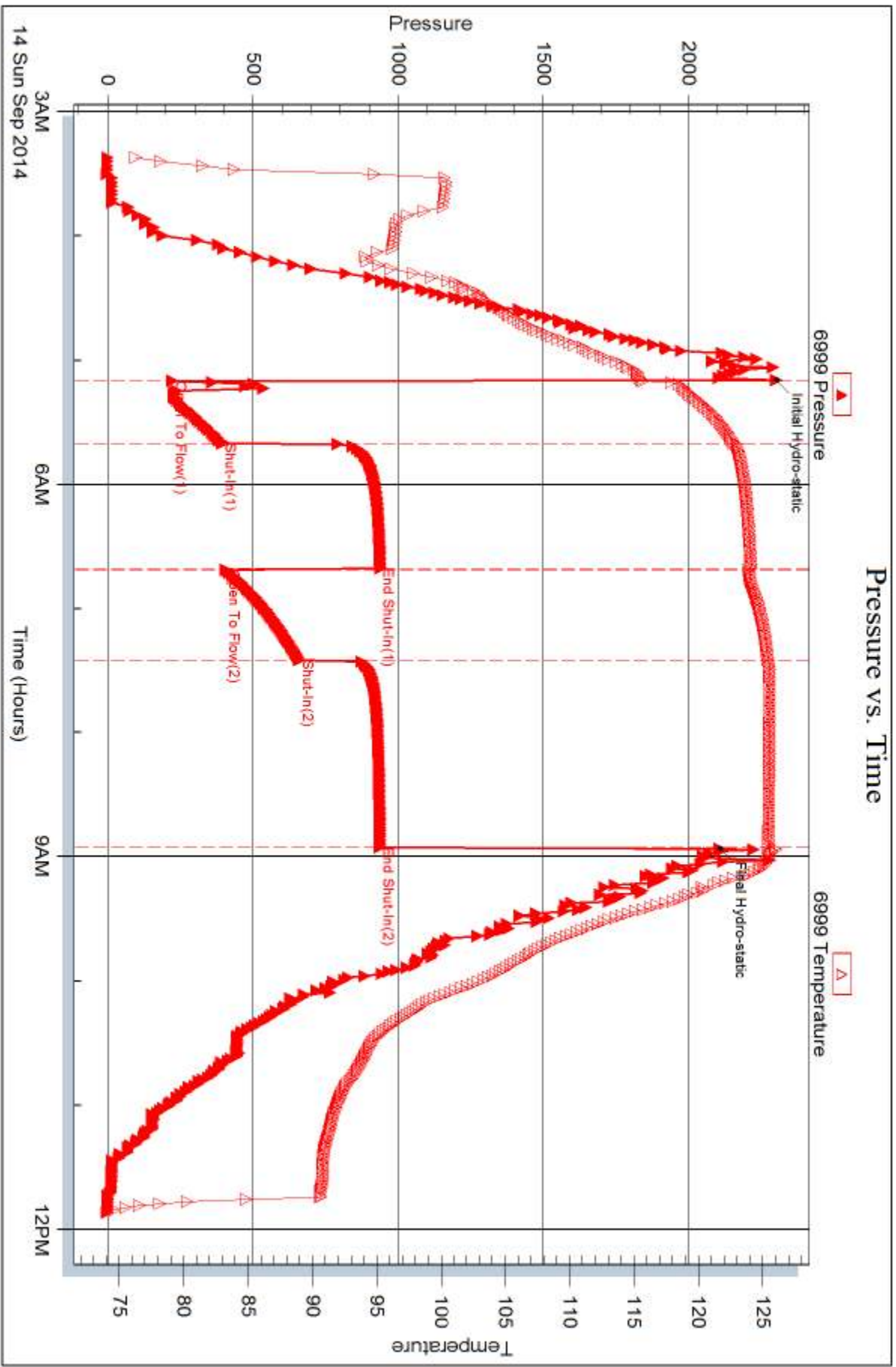
Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	30	0.13	-9.50	1.83
2	30	0.13	-9.50	1.83

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Special Energy**

PO Drawer 369  
Stillwater OK 74076

ATTN: George Utley

### **HXP1 #1**

#### **1-23s-19w Edwards,KS**

Start Date: 2014.09.15 @ 08:58:00

End Date: 2014.09.15 @ 16:05:16

Job Ticket #: 60319                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.16 @ 12:02:10

Special Energy  
1-23s-19w Edwards,KS  
HXP1 #1  
DST # 3  
Mississippi  
2014.09.15





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Special Energy

**1-23s-19w Edwards,KS**

PO Drawer 369  
Stillwater OK 74076

**HXP1 #1**

Job Ticket: 60319

**DST#: 3**

ATTN: George Utley

Test Start: 2014.09.15 @ 08:58:00

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:43:46

Time Test Ended: 16:05:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: S2

**Interval: 4454.00 ft (KB) To 4471.00 ft (KB) (TVD)**

Reference Elevations: 2208.00 ft (KB)

Total Depth: 4471.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6999 Outside**

Press@RunDepth: 188.92 psig @ 4466.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.15

End Date:

2014.09.15

Last Calib.:

2014.09.15

Start Time: 08:59:00

End Time:

16:05:16

Time On Btm:

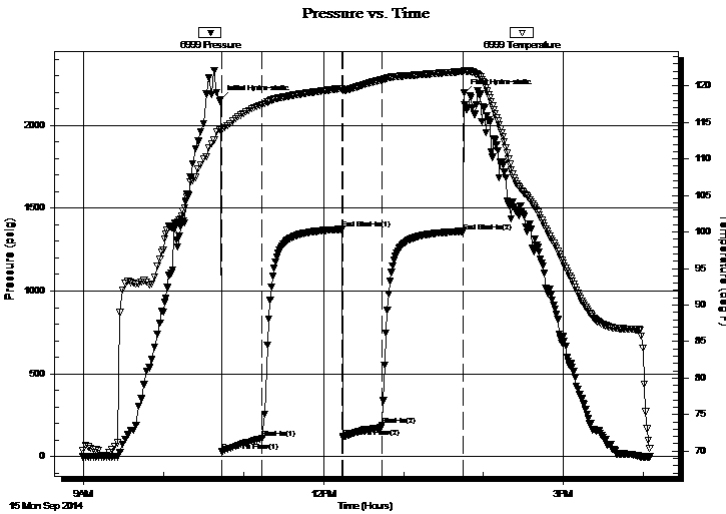
2014.09.15 @ 10:42:46

Time Off Btm:

2014.09.15 @ 13:45:16

**TEST COMMENT:** IFP 30 Fair building blow built to 8"  
ISI 60 No blow back  
FFP 30 Fair building blow built to 5"  
FSI 60 No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.98	114.13	Initial Hydro-static
1	29.86	114.03	Open To Flow (1)
31	110.47	117.40	Shut-In(1)
91	1372.89	119.64	End Shut-In(1)
92	117.96	119.33	Open To Flow (2)
121	188.92	120.81	Shut-In(2)
182	1359.32	121.95	End Shut-In(2)
183	2193.82	122.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
18.00	Oil cut mud Oil 4% Mud 96	0.09
126.00	Oil spotted w ater Water 90% Mud 10%	0.62
189.00	Oil spotted w ater 100% Water	1.74

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Special Energy  
 PO Drawer 369  
 Stillwater OK 74076  
 ATTN: George Utley

**1-23s-19w Edwards,KS**  
**HXP1 #1**  
 Job Ticket: 60319      **DST#: 3**  
 Test Start: 2014.09.15 @ 08:58:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 10:43:46  
 Time Test Ended: 16:05:16  
**Interval: 4454.00 ft (KB) To 4471.00 ft (KB) (TVD)**  
 Total Depth: 4471.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: S2  
 Reference Elevations: 2208.00 ft (KB)  
 2198.00 ft (CF)  
 KB to GR/CF: 10.00 ft

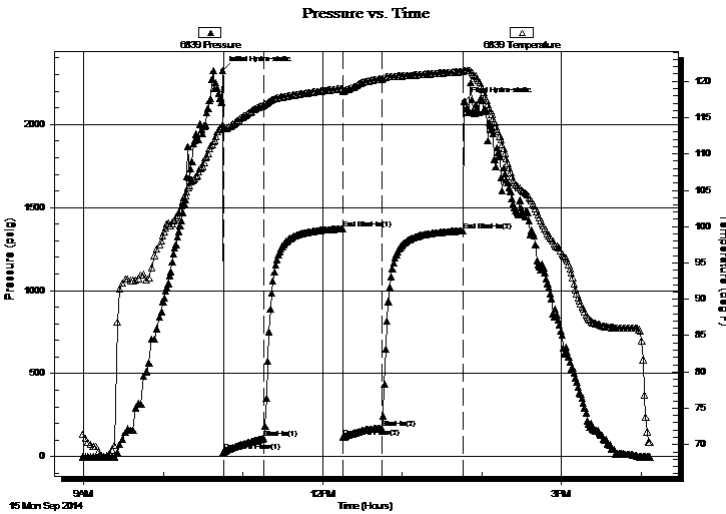
## Serial #: 6839

Inside

Press@RunDepth: 1359.82 psig @ 4466.00 ft (KB)      Capacity: 5000.00 psig  
 Start Date: 2014.09.15      End Date: 2014.09.15      Last Calib.: 2014.09.15  
 Start Time: 08:59:00      End Time: 16:06:30      Time On Btm: 2014.09.15 @ 10:44:30  
 Time Off Btm: 2014.09.15 @ 13:46:30

TEST COMMENT: IFP 30 Fair building blow built to 8"  
 ISI 60 No blow back  
 FFP 30 Fair building blow built to 5"  
 FSI 60 No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2325.02	114.07	Initial Hydro-static
1	29.37	113.48	Open To Flow (1)
31	110.50	116.73	Shut-In(1)
91	1372.02	119.01	End Shut-In(1)
91	117.10	118.62	Open To Flow (2)
120	173.25	120.33	Shut-In(2)
182	1359.82	121.35	End Shut-In(2)
182	2137.20	121.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
18.00	Oil cut mud Oil 4% Mud 96	0.09
126.00	Oil spotted w ater Water 90% Mud 10%	0.62
189.00	Oil spotted w ater 100% Water	1.74

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Special Energy

**1-23s-19w Edwards,KS**

PO Drawer 369  
Stillwater OK 74076

**HXP1 #1**

Job Ticket: 60319

**DST#: 3**

ATTN: George Utley

Test Start: 2014.09.15 @ 08:58:00

## Tool Information

Drill Pipe:	Length: 4199.00 ft	Diameter: 3.80 inches	Volume: 58.90 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:	20000.00 lb
Drill Collar:	Length: 244.20 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 60.10 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.20 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4454.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	45.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4431.00	
Hydraulic tool	5.00			4436.00	
Jars	6.00			4442.00	
Safety Joint	2.00			4444.00	
Top Packer	5.00			4449.00	
Packer	5.00			4454.00	28.00 Bottom Of Top Packer
Perforations	12.00			4466.00	
Recorder	0.00	6839	Inside	4466.00	
Recorder	0.00	6999	Outside	4466.00	
Bull Plug	5.00			4471.00	17.00 Anchor Tool
<b>Total Tool Length:</b>	<b>45.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Special Energy

**1-23s-19w Edwards,KS**

PO Drawer 369  
Stillwater OK 74076

**HXP1 #1**

Job Ticket: 60319

**DST#: 3**

ATTN: George Utley

Test Start: 2014.09.15 @ 08:58:00

### 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:

54000 ppm

Viscosity: 578.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
18.00	Oil cut mud Oil 4% Mud 96	0.089
126.00	Oil spotted w ater Water 90% Mud 10%	0.620
189.00	Oil spotted w ater 100% Water	1.738

Total Length: 333.00 ft

Total Volume: 2.447 bbl

Num Fluid Samples: 0

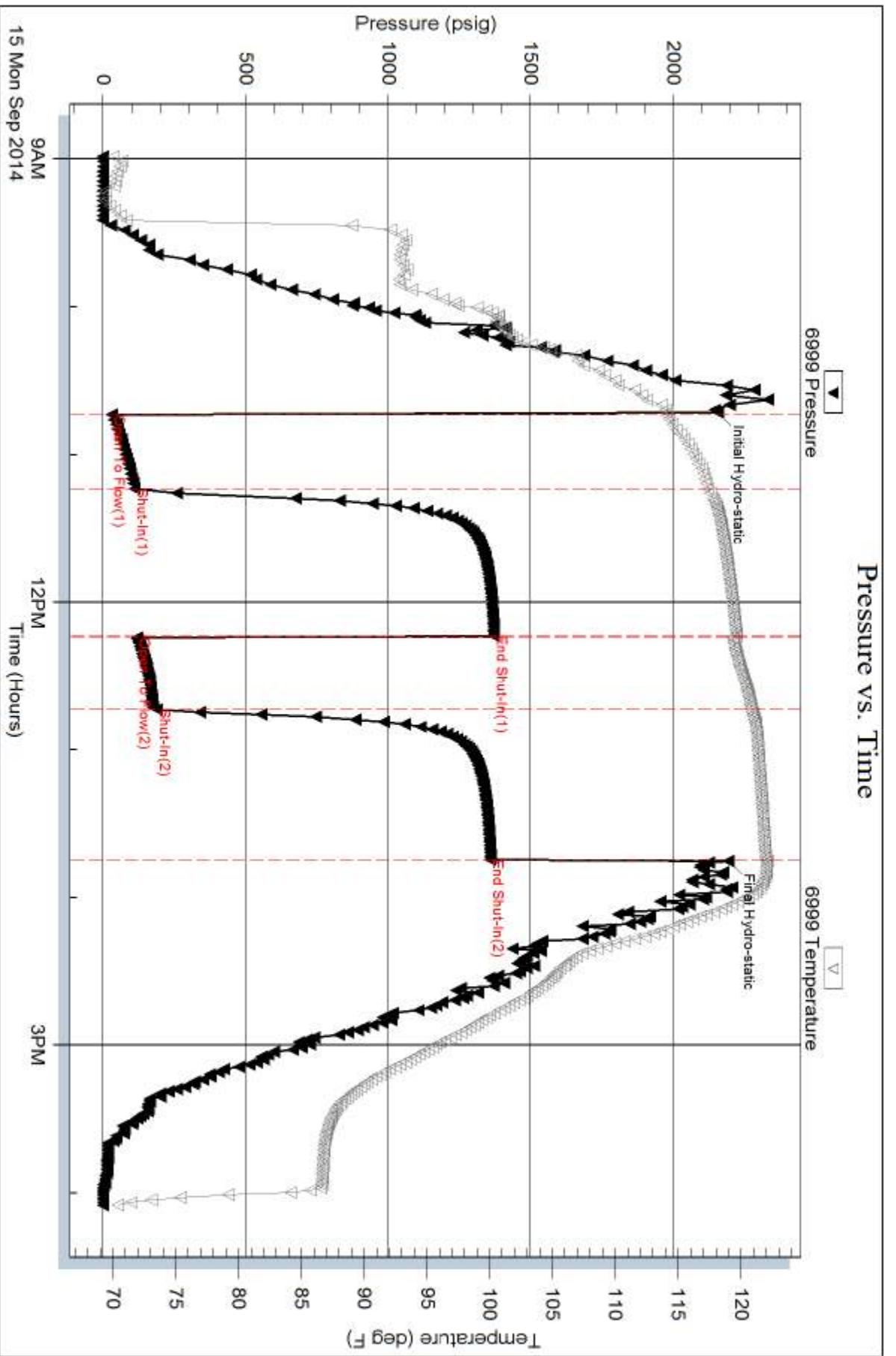
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



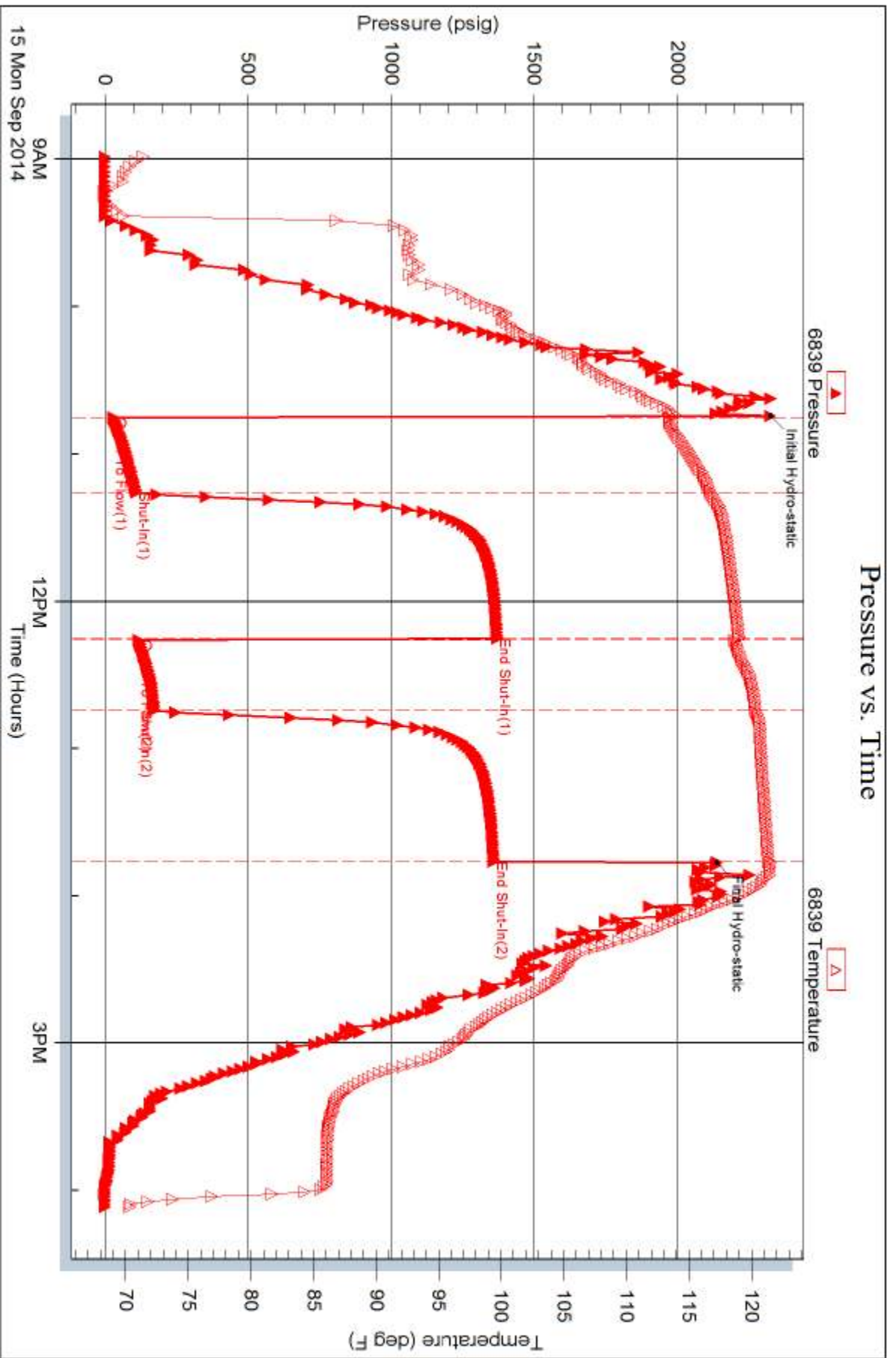
Serial #: 6839

Inside

Special Energy

HXPI #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 60319

Printed: 2014.09.16 @ 12:02:12



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60317

Well Name & No. Hxp1 #1 Test No. 1 Date 9-13-14  
 Company Special Energy Elevation 2198 KB 2208 GL  
 Address PO Drawer 369 Stillwater Oklahoma 74076  
 Co. Rep / Geo. George Utley Rig H2 Drilling Rig #1  
 Location: Sec. 1 Twp. 23s Rge. 19w Co. Edwards State KS

Interval Tested 4170 - 4202 Zone Tested Lansing K  
 Anchor Length 32 Drill Pipe Run 3922 Mud Wt. 9.2  
 Top Packer Depth 4165 Drill Collars Run 244.20 Vis 51  
 Bottom Packer Depth 4170 Wt. Pipe Run 20000 WL 11.2  
 Total Depth 4202 Chlorides 5000 ppm System LCM 1

Blow Description 1st open - weak blow died off after 16 minutes.  
1st shut in - No blow back  
2nd Open - Dead flushed tool after 5 minutes. No help.  
2nd shut in No blow back

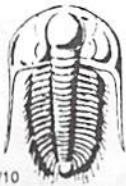
Rec	Feet of	%gas	%oil	%water	%mud
<u>H</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 4001 BHT --- Gravity --- API RW 2 @ 56 °F Chlorides 5000 ppm

(A) Initial Hydrostatic 2099  Test bottom hole 1250 T-On Location 1:00pm  
 (B) First Initial Flow 31  Jars Yes 250 T-Started 1:30pm  
 (C) First Final Flow 44  Safety Joint Yes 75 T-Open 3:24pm  
 (D) Initial Shut-In 1099  Circ Sub none T-Pulled 6:24pm  
 (E) Second Initial Flow 33  Hourly Standby none T-Out 8:20pm  
 (F) Second Final Flow 36  Mileage 82 round 127.10 Comments no steps end at walk  
 (G) Final Shut-In 1015  Sampler none  
 (H) Final Hydrostatic 2028  Straddle none  Ruined Shale Packer none  
 Shale Packer none  Ruined Packer none  
 Extra Packer none  Extra Copies none

Initial Open 30  Extra Recorder none Sub Total 0  
 Initial Shut-In 60  Day Standby none Total 1852.10  
 Final Flow 30  Accessibility none 150 MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1852.10

Approved By \_\_\_\_\_ Our Representative Dustin Ellis



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60318

Well Name & No. Hxp1 #1 Test No. 2 Date 9-14-14  
 Company Special Energy Elevation 2198 KB 2208 GL  
 Address PO Drawer 369 Stillwater Oklahoma 741076  
 Co. Rep / Geo. George Utley Rig H2 Drilling Rig 4  
 Location: Sec. 1 Twp. 23s Rge. 19w Co. Edwards State KS

Interval Tested 4428-4439 Zone Tested Cherokee  
 Anchor Length 11 Drill Pipe Run 4170 Mud Wt. 9.2  
 Top Packer Depth 4423 Drill Collars Run 244.20 Vis 51  
 Bottom Packer Depth 4428 Wt. Pipe Run 20,000 WL 11.2  
 Total Depth 4439 Chlorides 5800 ppm System LCM 1

Blow Description 1st open - strong blow blew off bottom bucket 2.5 minutes. 1st shut-in - Yes blow back.  
2nd open - strong blow built to bottom bucket in 5 minutes. 2nd shut-in - Yes blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>muddy water</u>		<u>85</u>	<u>15</u>	
<u>756</u>	<u>Water</u>		<u>100</u>		

Rec Total 1071 BHT - Gravity - API RW .2 @ 56 °F Chlorides 5000 ppm

(A) Initial Hydrostatic 2320  Test Bottom Hole 1250 T-On Location 2:00pm  
 (B) First Initial Flow 299  Jars Yes 250 T-Started 3:21pm  
 (C) First Final Flow 395  Safety Joint Yes 75 T-Open 5:09p  
 (D) Initial Shut-In 936  Circ Sub none T-Pulled 8:54pm  
 (E) Second Initial Flow 408  Hourly Standby none T-Out \_\_\_\_\_  
 (F) Second Final Flow 658  Mileage 92 round 127.10 Comments Gas sample taken.  
 (G) Final Shut-In 936  Sampler none no steps and calculations.  
 (H) Final Hydrostatic 1947  Straddle none  Ruined Shale Packer none  
 Shale Packer none  Ruined Packer none  
 Extra Packer none  Extra Copies none  
 Extra Recorder none Sub Total 0  
 Day Standby none Total 1852.10  
 Accessibility none 150 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1852.10

Approved By \_\_\_\_\_ Our Representative Dustin Davis

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. 60319

Well Name & No. Hxp1 #1 Test No. 3 Date 9-15-74  
 Company Special Energy Elevation 2198 KB 2206 GL  
 Address PO Drawer 369 Stillwater Oklahoma 74076  
 Co. Rep / Geo. George Utter Rig H2 Drilling Rig 4  
 Location: Sec. 1 Twp. 23s Rge. 19w Co. Edwards State OK

Interval Tested 4458 - 4471 Zone Tested mississippi  
 Anchor Length 17 Drill Pipe Run 4199 Mud Wt. 9.4  
 Top Packer Depth ~~4450~~ 4449 Drill Collars Run 244.20 Vis 57  
 Bottom Packer Depth ~~4450~~ 4454 Wt. Pipe Run 20,000 WL 12.8  
 Total Depth 4471 Chlorides 12800 ppm System LCM 1

Blow Description 1st open - Fair building blow built to 8 inches into 5 gallon bud  
1st shut in - No blow back.  
2nd open - Fair building blow built to 5 inches into a 5 gallon bud  
2nd shut in - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>18</u>	<u>oil cut mud</u>	<u>4</u>		<u>96</u>	
<u>126</u>	<u>oil spotted muddy water</u>		<u>96</u>	<u>10</u>	
<u>189</u>	<u>oil spotted water</u>		<u>100</u>		

Rec Total 333 BHT — Gravity — API RW — @ — °F Chlorides 54000 ppm

(A) Initial Hydrostatic 2156  Test Bottom hole 1250 T-On Location 8:40am  
 (B) First Initial Flow 29  Jars Yes 250 T-Started 8:58am  
 (C) First Final Flow 110  Safety Joint Yes 75 T-Open 10:44am  
 (D) Initial Shut-In 1372  Circ Sub — T-Pulled 1:44pm  
 (E) Second Initial Flow 117  Hourly Standby — T-Out 4:15pm  
 (F) Second Final Flow 166  Mileage 82 round 127.10 Comments no step and cutback  
 (G) Final Shut-In 1359  Sampler —  
 (H) Final Hydrostatic 2193  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 60  
 Extra Recorder —  
 Day Standby —  
 Accessibility — 150  
 Sub Total 1852.10  
 Sub Total 1852.10

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.