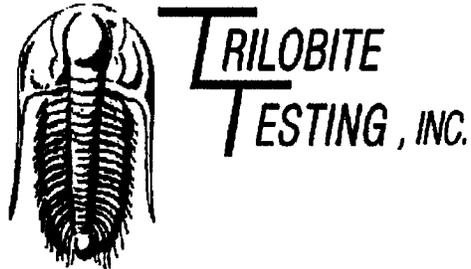


15-101-22255

15-18s-30w

IND



### DRILL STEM TEST REPORT

Prepared For: **Slawson Exploration Co., Inc.**

204 N. Robinson Ste. 2300  
Oklahoma City, OK 73102

ATTN: Pat Deenihan

**15-18-30 Lane KS**

**Shull P #1**

Start Date: 2010.09.13 @ 11:46:35

End Date: 2010.09.13 @ 16:28:44

Job Ticket #: 40239                      DST #: 1

**KCC  
OCT 07 2010  
CONFIDENTIAL**

**RECEIVED  
OCT 12 2010  
KCC WICHITA**

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Slawson Exploration Co., Inc.

Shull P #1

15-18-30 Lane KS

DST # 1

Marrn, Pawnee

2010.09.13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Slawson Exploration Co., Inc.

**Shull P #1**

204 N. Robinson Ste. 2300  
Oklahoma City, OK 73102

**15-18-30 Lane KS**

Job Ticket: 40239

**DST#: 1**

ATTN: Pat Deenihan

Test Start: 2010.09.13 @ 11:46:35

## GENERAL INFORMATION:

Formation: **Marm, Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 13:24:00  
 Tester: Chris Hagman  
 Time Test Ended: 16:28:44  
 Unit No: 35  
 Interval: **4373.00 ft (KB) To 4440.00 ft (KB) (TVD)**  
 Reference Elevations: 2870.00 ft (KB)  
 Total Depth: 4440.00 ft (KB) (TVD)  
 2865.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 5.00 ft

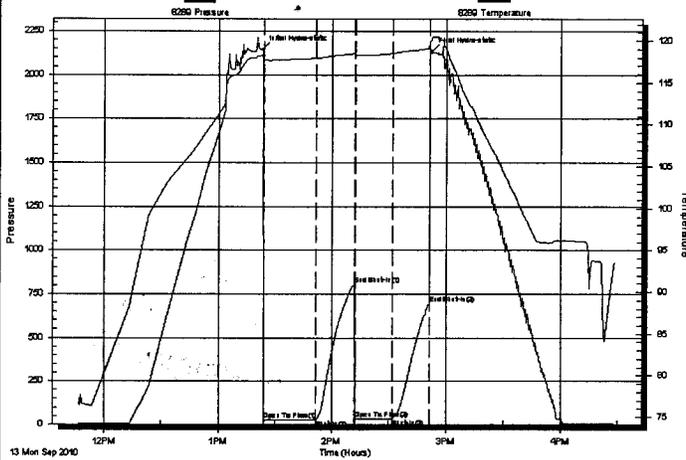
## Serial #: 8289

Outside

Press@RunDepth: 33.67 psig @ 4376.00 ft (KB)  
 Capacity: 8000.00 psig  
 Start Date: 2010.09.13 End Date: 2010.09.13 Last Calib.: 2010.09.13  
 Start Time: 11:46:35 End Time: 16:28:44 Time On Btm: 2010.09.13 @ 13:23:15  
 Time Off Btm: 2010.09.13 @ 14:52:00

**TEST COMMENT:** IF: Weak surface blow, died 30 sec.  
 IS: No blow back  
 FF: No blow  
 FS: No blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.78	118.26	Initial Hydro-static
1	25.37	117.44	Open To Flow (1)
28	28.58	117.94	Shut-In(1)
49	805.29	118.49	End Shut-In(1)
49	32.55	118.24	Open To Flow (2)
69	33.67	118.52	Shut-In(2)
88	694.90	119.13	End Shut-In(2)
89	2137.24	120.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	oily mud skim O, 100%M	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Slawson Exploration Co., Inc.

**Shull P #1**

204 N. Robinson Ste. 2300  
Oklahoma City, OK 73102

**15-18-30 Lane KS**

Job Ticket: 40239

**DST#: 1**

ATTN: Pat Deenihan

Test Start: 2010.09.13 @ 11:46:35

### Tool Information

Drill Pipe:	Length: 4234.00 ft	Diameter: 3.80 inches	Volume: 59.39 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4373.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.76 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4346.00	
Shut In Tool	5.00			4351.00	
Hydraulic tool	5.00			4356.00	
Jars	5.00			4361.00	
Safety Joint	3.00			4364.00	
Packer	5.00			4369.00	28.00 Bottom Of Top Packer
Packer	4.00			4373.00	
Stubb	1.00			4374.00	
Perforations	2.00			4376.00	
Recorder	0.00	8373	Inside	4376.00	
Recorder	0.00	8289	Outside	4376.00	
Perforations	25.00			4401.00	
Change Over Sub	1.00			4402.00	
Drill Pipe	32.00			4434.00	
Change Over Sub	1.00			4435.00	
Bullnose	5.00			4440.00	67.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>95.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Slawson Exploration Co., Inc.

**Shull P #1**

204 N. Robinson Ste. 2300  
Oklahoma City, OK 73102

**15-18-30 Lane KS**

Job Ticket: 40239

**DST#: 1**

ATTN: Pat Deenihan

Test Start: 2010.09.13 @ 11:46:35

**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:	5800 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2700.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	oily mud skim O, 100%M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW=.82@94F=5800ppm

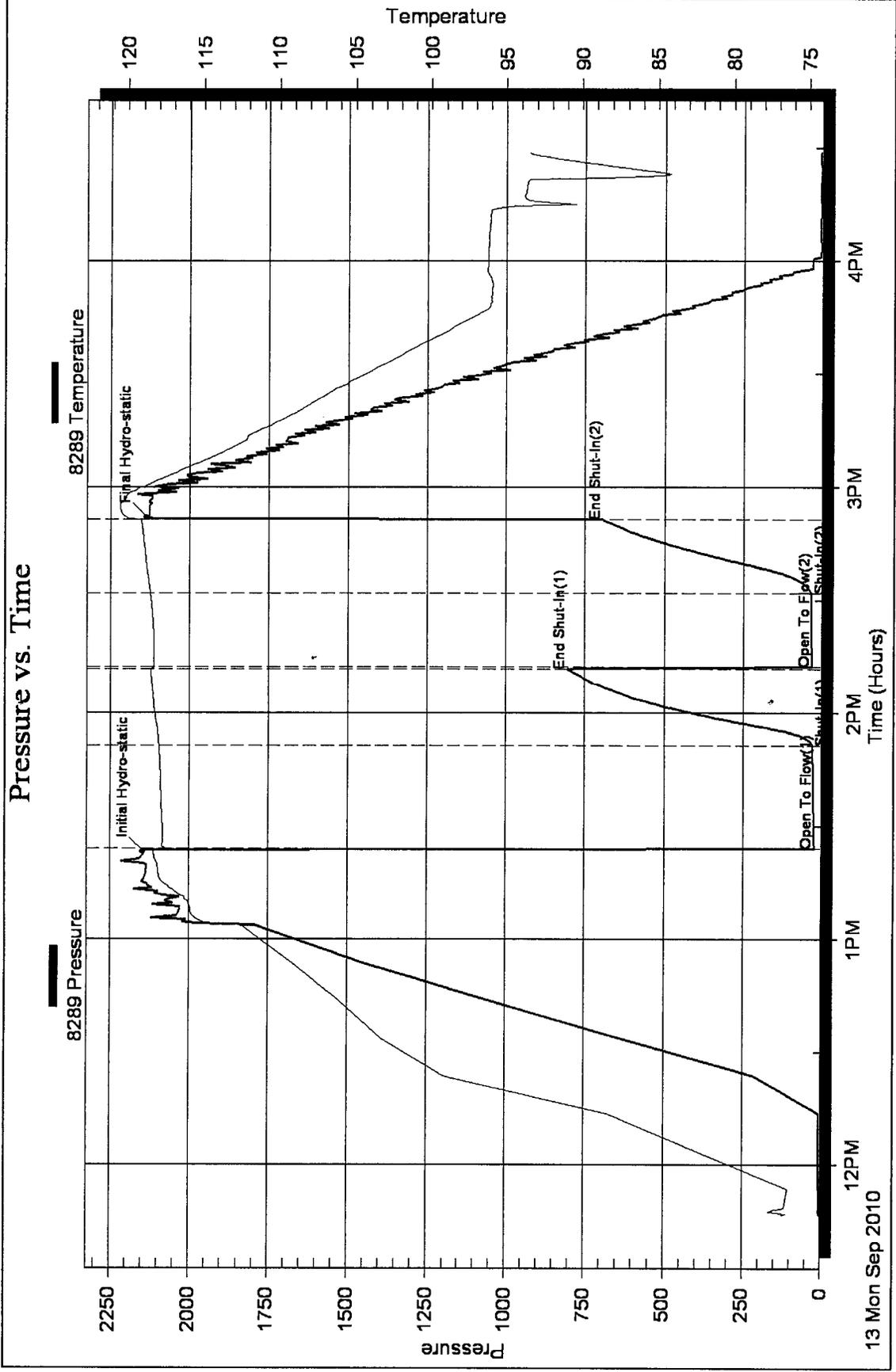
Serial #: 8289

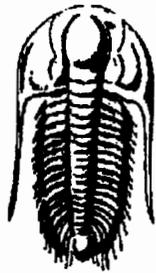
Outside Slaw son Exploration Co., Inc.

15-18-30 Lane KS

DST Test Number: 1

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Slawson Exploration Co., Inc.**

204 N. Robinson Ste. 2300  
Oklahoma City, OK 73102

ATTN: Pat Deenihan

**15-18-30 Lane KS**

**Shull P #1**

Start Date: 2010.09.15 @ 01:12:19

End Date: 2010.09.15 @ 07:01:13

Job Ticket #: 39962                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Slawson Exploration Co., Inc.

Shull P #1

15-18-30 Lane KS

DST # 2

Miss

2010.09.15



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Slawson Exploration Co., Inc.

**Shull P #1**

204 N. Robinson Ste. 2300  
Oklahoma City, OK 73102

**15-18-30 Lane KS**

Job Ticket: 39962

**DST#: 2**

ATTN: Pat Deenihan

Test Start: 2010.09.15 @ 01:12:19

## GENERAL INFORMATION:

Formation: **Miss**

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

Time Tool Opened: 03:00:14

Time Test Ended: 07:01:13

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **4560.00 ft (KB) To 4650.00 ft (KB) (TVD)**

Reference Elevations: **2870.00 ft (KB)**

Total Depth: **4650.00 ft (KB) (TVD)**

**2865.00 ft (CF)**

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

**KB to GR/CF: 5.00 ft**

**Serial #: 8647** **Inside**

Press@RunDepth: **1026.12 psig @ 4568.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.09.15**

End Date: **2010.09.15**

Last Calib.: **2010.09.15**

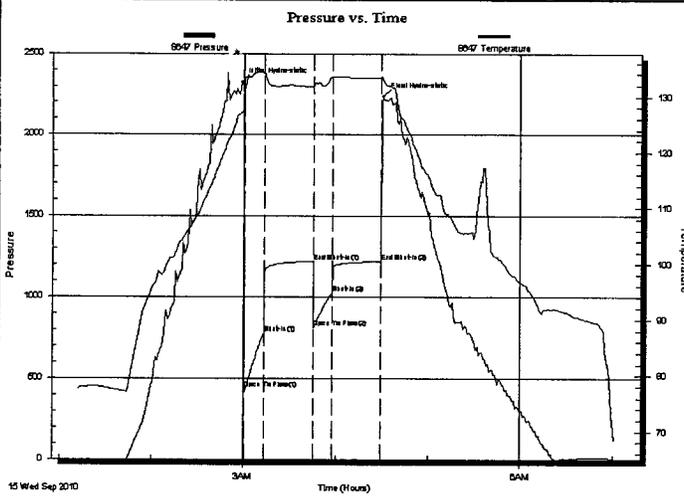
Start Time: **01:12:19**

End Time: **07:01:13**

Time On Btm: **2010.09.15 @ 02:58:44**

Time Off Btm: **2010.09.15 @ 04:30:44**

**TEST COMMENT:** IFP - BOB 45 sec.  
ISI - no blow back  
FFP - BOB 45 sec.  
FSI - no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2325.48	127.25	Initial Hydro-static
2	433.93	129.50	Open To Flow (1)
15	777.91	134.35	Shut-In(1)
47	1221.00	131.84	End Shut-In(1)
47	811.62	131.86	Open To Flow (2)
59	1026.12	133.52	Shut-In(2)
91	1217.64	133.33	End Shut-In(2)
92	2237.44	133.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1675.00	MW 95%W, 5%M	22.37
250.00	MW 75%W, 25%M	3.51
190.00	VM 20%W, 80%M	2.67

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Slawson Exploration Co., Inc.

**Shull P #1**

204 N. Robinson Ste. 2300  
Oklahoma City, OK 73102

**15-18-30 Lane KS**

Job Ticket: 39962

**DST#: 2**

ATTN: Pat Deenihan

Test Start: 2010.09.15 @ 01:12:19

### Tool Information

Drill Pipe:	Length: 4426.00 ft	Diameter: 3.80 inches	Volume: 62.09 bbl	Tool Weight: 2500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 62.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4560.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	117.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4538.00	
Hydraulic tool	5.00			4543.00	
Jars	5.00			4548.00	
Safety Joint	2.00			4550.00	
Packer	5.00			4555.00	27.00 Bottom Of Top Packer
Packer	5.00			4560.00	
Stubb	1.00			4561.00	
Perforations	6.00			4567.00	
Change Over Sub	1.00			4568.00	
Recorder	0.00	8647	Inside	4568.00	
Recorder	0.00	8365	Outside	4568.00	
Blank Spacing	63.00			4631.00	
Change Over Sub	1.00			4632.00	
Perforations	15.00			4647.00	
Bullnose	3.00			4650.00	90.00 Bottom Packers & Anchor

**Total Tool Length: 117.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Slawson Exploration Co., Inc.

**Shull P #1**

204 N. Robinson Ste. 2300  
Oklahoma City, OK 73102

**15-18-30 Lane KS**

Job Ticket: 39962

**DST#: 2**

ATTN: Pat Deenihan

Test Start: 2010.09.15 @ 01:12:19

## 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:

10000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.75 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1675.00	MW 95%W, 5%M	22.366
250.00	MW 75%W, 25%M	3.507
190.00	WM 20%W, 80%M	2.665

Total Length: 2115.00 ft

Total Volume: 28.538 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

