



## DRILL STEM TEST REPORT

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

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

ATTN: Pat Deenihan

### **Dumler #1**

#### **25-10s-34w Thomas,KS**

Start Date: 2015.04.13 @ 17:53:00

End Date: 2015.04.13 @ 23:28:30

Job Ticket #: 57405                      DST #: 1

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

Printed: 2015.04.16 @ 13:33:05



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Slawson Exploration Co, Inc  
 204 N Robinson Ave. Ste. 2300  
 Oklahoma City, OK 73102  
 ATTN: Pat Deenihan

**25-10s-34w Thomas, KS**

**Dumler #1**

Job Ticket: 57405      **DST#: 1**  
 Test Start: 2015.04.13 @ 17:53:00

## GENERAL INFORMATION:

Formation: **Myric Station**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:09:15  
 Time Test Ended: 23:28:30  
 Interval: **4520.00 ft (KB) To 4550.00 ft (KB) (TVD)**  
 Total Depth: 4550.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Bradley Walter  
 Unit No: 69  
 Reference Elevations: 3164.00 ft (KB)  
 3159.00 ft (CF)  
 KB to GR/CF: 5.00 ft

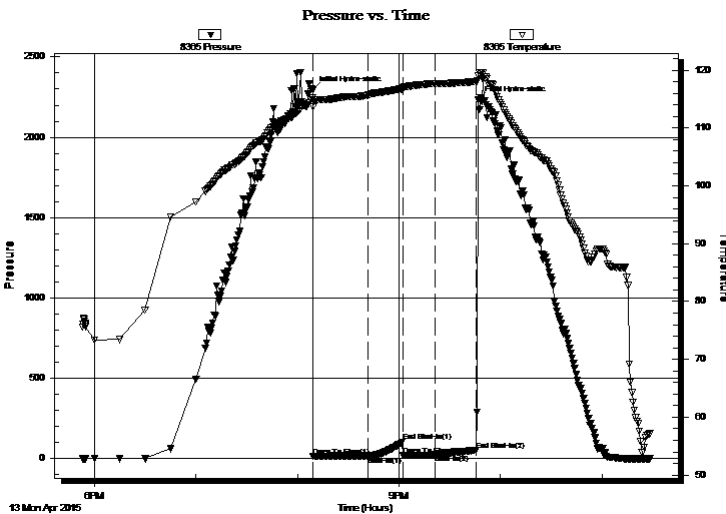
## Serial #: 8365

Inside

Press@RunDepth: 23.09 psig @ 4521.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2015.04.13      End Date: 2015.04.13      Last Calib.: 2015.04.13  
 Start Time: 17:53:05      End Time: 23:28:29      Time On Btm: 2015.04.13 @ 20:09:00  
 Time Off Btm: 2015.04.13 @ 21:46:45

TEST COMMENT: IF: Surface blow, died @ 25 min.  
 IS: No return.  
 FF: No blow.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2293.70	115.22	Initial Hydro-static
1	11.99	113.69	Open To Flow (1)
33	16.37	115.71	Shut-In(1)
53	103.87	116.72	End Shut-In(1)
54	18.19	116.72	Open To Flow (2)
73	23.09	117.62	Shut-In(2)
97	52.03	118.02	End Shut-In(2)
98	2230.93	118.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100m (oil spots)	0.07

## Gas Rates

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



# DRILL STEM TEST REPORT

Slawson Exploration Co, Inc  
 204 N Robinson Ave. Ste. 2300  
 Oklahoma City, OK 73102  
 ATTN: Pat Deenihan

25-10s-34w Thomas, KS

Dumler #1

Job Ticket: 57405

DST#: 1

Test Start: 2015.04.13 @ 17:53:00

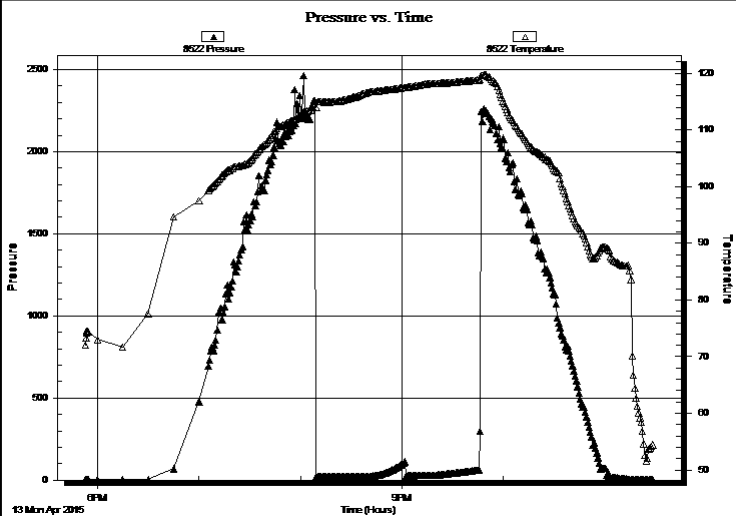
## GENERAL INFORMATION:

Formation:	<b>Myric Station</b>		Test Type:	Conventional Bottom Hole (Initial)	
Deviated:	No	Whipstock:		Tester:	Bradley Walter
Time Tool Opened:	20:09:15		Unit No:	69	
Time Test Ended:	23:28:30		Reference Elevations:	3164.00 ft (KB)	
Interval:	<b>4520.00 ft (KB) To 4550.00 ft (KB) (TVD)</b>			3159.00 ft (CF)	
Total Depth:	4550.00 ft (KB) (TVD)		KB to GR/CF:	5.00 ft	
Hole Diameter:	7.88 inches		Hole Condition:	Good	

### Serial #: 8522 Outside

Press@RunDepth:	psig @	4521.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2015.04.13	End Date:	2015.04.13	Last Calib.:	2015.04.13
Start Time:	17:53:05	End Time:	23:28:29	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: Surface blow, died @ 25 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)
15.00	mud 100m (oil spots)	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Slawson Exploration Co, Inc

**25-10s-34w Thomas,KS**

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

**Dumler #1**

Job Ticket: 57405

**DST#: 1**

ATTN: Pat Deenihan

Test Start: 2015.04.13 @ 17:53:00

## Tool Information

Drill Pipe:	Length: 4386.00 ft	Diameter: 3.80 inches	Volume: 61.52 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 62.11 bbl</u>	Tool Chased	3.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	4520.00 ft			Final	74000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	50.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4501.00	
Shut In Tool	5.00			4506.00	
Hydraulic tool	5.00			4511.00	
Packer	5.00			4516.00	20.00 Bottom Of Top Packer
Packer	4.00			4520.00	
Stubb	1.00			4521.00	
Recorder	0.00	8365	Inside	4521.00	
Recorder	0.00	8522	Outside	4521.00	
Perforations	26.00			4547.00	
Bullnose	3.00			4550.00	30.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>50.00</b>				



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Slaw son Exploration Co, Inc

**25-10s-34w Thomas,KS**

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

**Dumler #1**

Job Ticket: 57405

**DST#: 1**

ATTN: Pat Deenihan

Test Start: 2015.04.13 @ 17:53:00

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100m (oil spots)	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

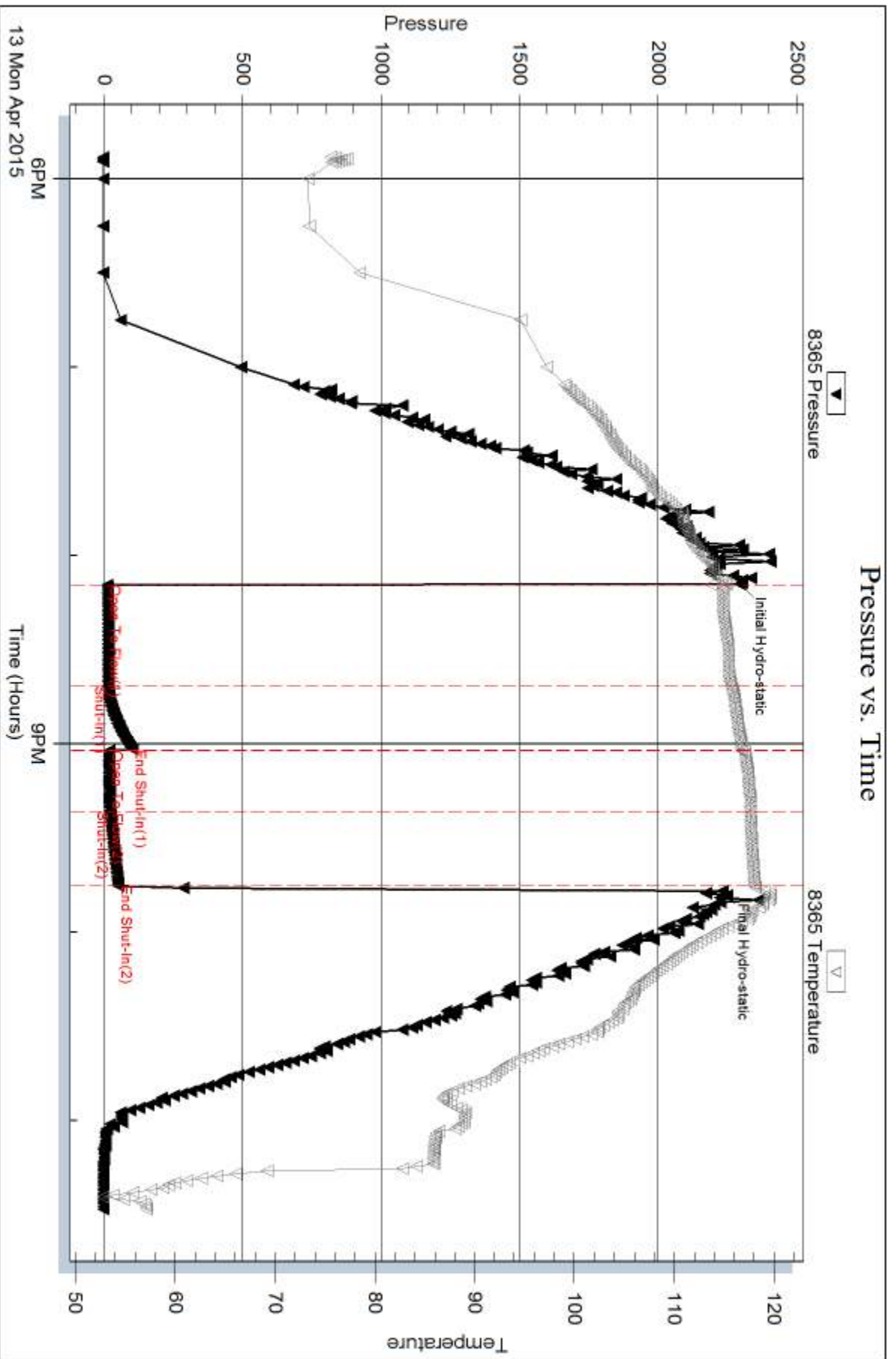
Serial #: 8365

Inside

Saw son Exploration Co. Inc

Durter #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 57405

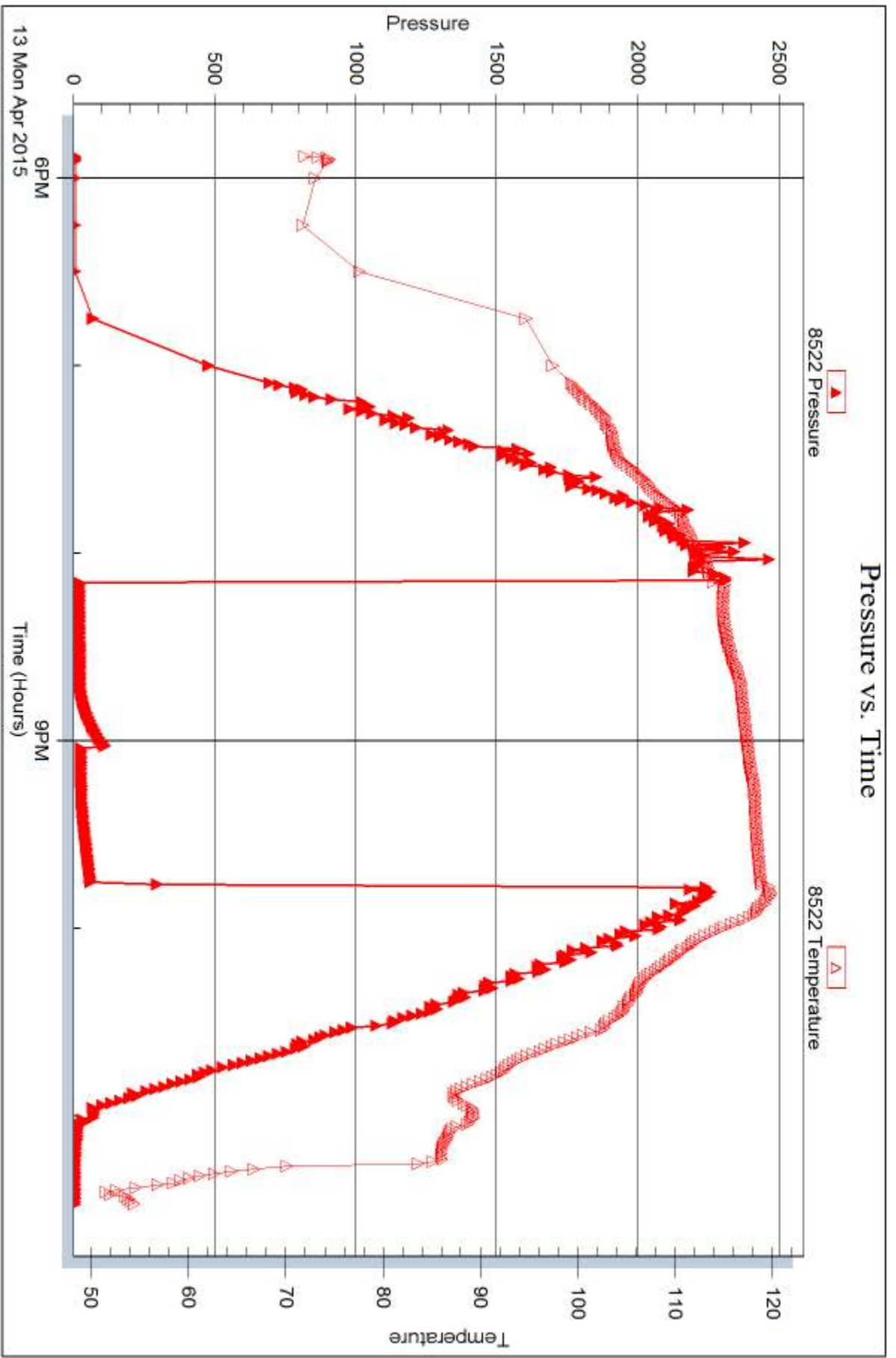
Printed: 2015.04.16 @ 13:33:07

Serial #: 8522

Outside Saw son Exploration Co, Inc

Durter #1

DST Test Number: 1



13 Mon Apr 2015

Time (Hours)

Trilobite Testing, Inc

Ref. No: 57405

Printed: 2015.04.16 @ 13:33:07



## DRILL STEM TEST REPORT

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

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

ATTN: Pat Deenihan

### **Dumler #1**

#### **25-10s-34w Thomas,KS**

Start Date: 2015.04.14 @ 14:07:00

End Date: 2015.04.14 @ 22:22:00

Job Ticket #: 57406                      DST #: 2

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

Printed: 2015.04.16 @ 13:31:27





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Slawson Exploration Co, Inc  
 204 N Robinson Ave. Ste. 2300  
 Oklahoma City, OK 73102  
 ATTN: Pat Deenihan

**25-10s-34w Thomas, KS**

**Dumler #1**

Job Ticket: 57406 **DST#: 2**  
 Test Start: 2015.04.14 @ 14:07:00

## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 16:22:00 Tester: Bradley Walter  
 Time Test Ended: 22:22:00 Unit No: 69  
 Interval: **4607.00 ft (KB) To 4670.00 ft (KB) (TVD)** Reference Elevations: 3164.00 ft (KB)  
 Total Depth: 4670.00 ft (KB) (TVD) 3159.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

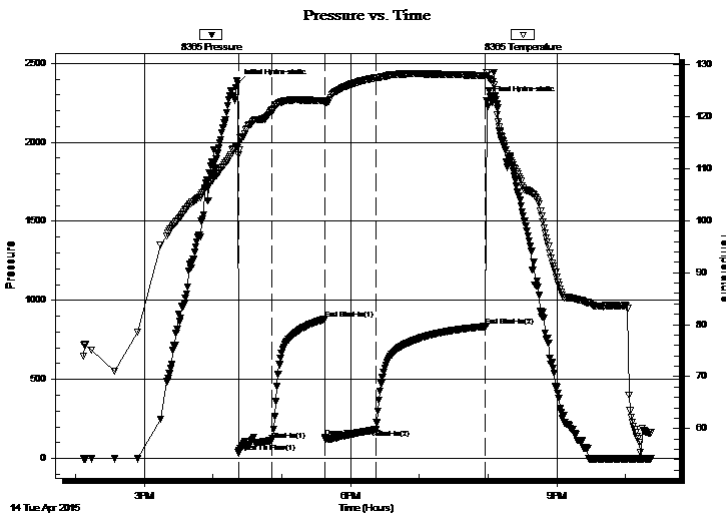
## Serial #: 8365

**Inside**

Press@RunDepth: 181.84 psig @ 4608.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.04.14 End Date: 2015.04.14 Last Calib.: 2015.04.14  
 Start Time: 14:07:05 End Time: 22:21:59 Time On Btm: 2015.04.14 @ 16:21:30  
 Time Off Btm: 2015.04.14 @ 19:58:45

TEST COMMENT: IF: BOB @ 10 min.  
 IS: 1" return.  
 FF: BOB @ 8 min.  
 FS: 8" return, receded to 4".

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2371.39	114.08	Initial Hydro-static
1	35.16	112.70	Open To Flow (1)
30	112.69	121.16	Shut-In(1)
76	880.87	123.06	End Shut-In(1)
76	134.96	122.72	Open To Flow (2)
121	181.84	127.49	Shut-In(2)
216	834.82	127.91	End Shut-In(2)
218	2262.60	128.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
190.00	gmco 35g 30m 35o	1.58
125.00	gmco 40g 10m 50o	1.75
140.00	gsmco 35g 5m 60o	1.96
0.00	1255' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



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# DRILL STEM TEST REPORT

Slawson Exploration Co, Inc  
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ATTN: Pat Deenihan

**25-10s-34w Thomas, KS**

**Dumler #1**

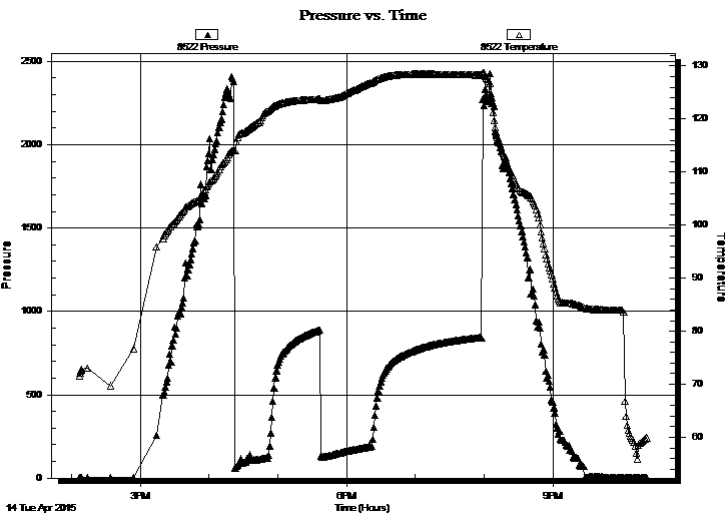
Job Ticket: 57406      **DST#: 2**  
Test Start: 2015.04.14 @ 14:07:00

## GENERAL INFORMATION:

Formation: **Johnson**  
Deviated: No      Whipstock:      ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 16:22:00      Tester: Bradley Walter  
Time Test Ended: 22:22:00      Unit No: 69  
**Interval: 4607.00 ft (KB) To 4670.00 ft (KB) (TVD)**      Reference Elevations: 3164.00 ft (KB)  
Total Depth: 4670.00 ft (KB) (TVD)      3159.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Good      KB to GR/CF: 5.00 ft

**Serial #: 8522      Outside**  
Press@RunDepth:      psig @ 4608.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.04.14      End Date: 2015.04.14      Last Calib.: 2015.04.14  
Start Time: 14:07:05      End Time: 22:21:59      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: BOB @ 10 min.  
IS: 1" return.  
FF: BOB @ 8 min.  
FS: 8" return, receded to 4".



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
190.00	gmco 35g 30m 35o	1.58
125.00	gmco 40g 10m 50o	1.75
140.00	gsmco 35g 5m 60o	1.96
0.00	1255' 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**

Slaw son Exploration Co, Inc

**25-10s-34w Thomas,KS**

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

**Dumler #1**

Job Ticket: 57406

**DST#: 2**

ATTN: Pat Deenihan

Test Start: 2015.04.14 @ 14:07:00

## Tool Information

Drill Pipe:	Length: 4480.00 ft	Diameter: 3.80 inches	Volume: 62.84 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 63.43 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	73000.00 lb
Depth to Top Packer:	4607.00 ft			Final	75000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	63.00 ft				
Tool Length:	83.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4588.00	
Shut In Tool	5.00			4593.00	
Hydraulic tool	5.00			4598.00	
Packer	5.00			4603.00	20.00 Bottom Of Top Packer
Packer	4.00			4607.00	
Stubb	1.00			4608.00	
Recorder	0.00	8365	Inside	4608.00	
Recorder	0.00	8522	Outside	4608.00	
Perforations	26.00			4634.00	
Change Over Sub	1.00			4635.00	
Drill Pipe	31.00			4666.00	
Change Over Sub	1.00			4667.00	
Bullnose	3.00			4670.00	63.00 Bottom Packers & Anchor

**Total Tool Length: 83.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Slaw son Exploration Co, Inc

**25-10s-34w Thomas,KS**

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

**Dumler #1**

Job Ticket: 57406

**DST#: 2**

ATTN: Pat Deenihan

Test Start: 2015.04.14 @ 14:07:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
190.00	gmco 35g 30m 35o	1.581
125.00	gmco 40g 10m 50o	1.753
140.00	gsmco 35g 5m 60o	1.964
0.00	1255' GIP	0.000

Total Length: 455.00 ft

Total Volume: 5.298 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

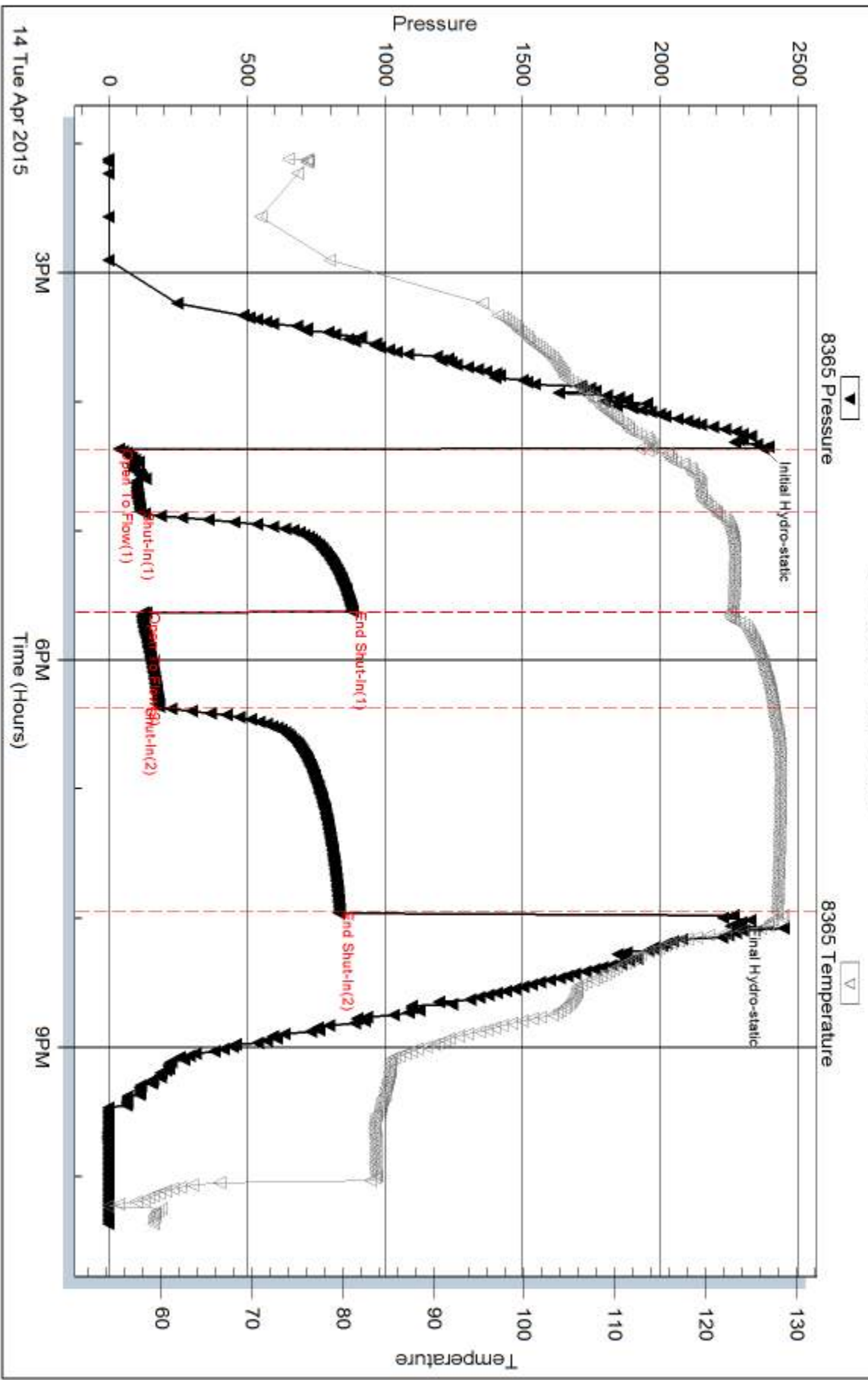
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

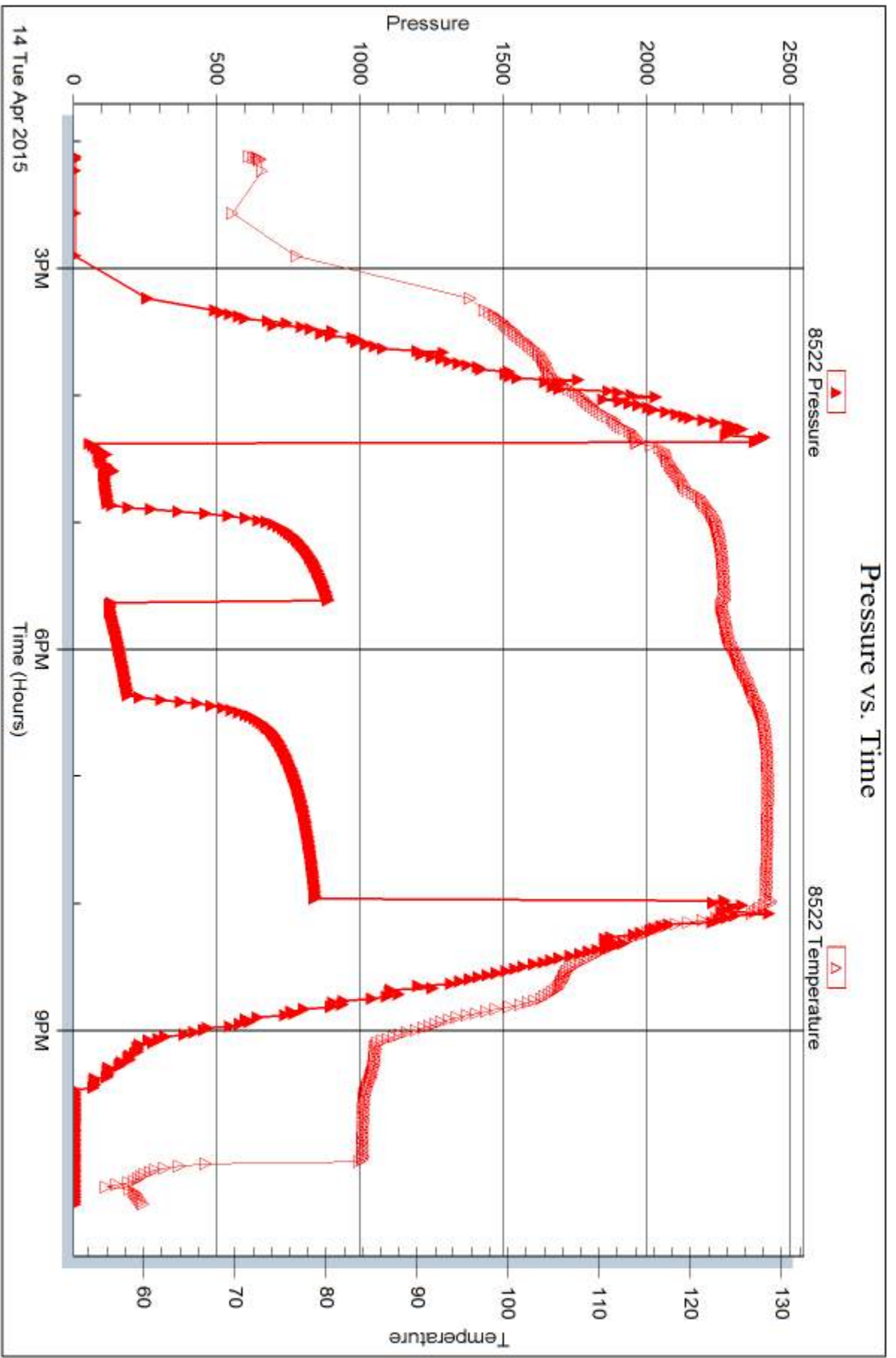


Serial #: 8522

Outside Saw son Exploration Co, Inc

Durter #1

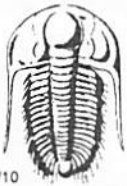
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 57406

Printed: 2015.04.16 @ 13:31:29



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 57405

Well Name & No. Dumler 1-25 Test No. 1 Date 4/13/15  
 Company Stawson Exploration Co, Inc Elevation 3164 KB 3159 GL  
 Address 204 Robinson Ave Ste 2300 Oklahoma City, OK 73102  
 Co. Rep / Geo. Pat Deenihan Rig WW 8  
 Location: Sec. 25 Twp. 10s Rge. 34w Co. Thomas State KS

Interval Tested 4520 4550 Zone Tested Metric Station  
 Anchor Length 30 Drill Pipe Run 43 96 Mud Wt. 9.3  
 Top Packer Depth 4515 Drill Collars Run 119 Vis 30  
 Bottom Packer Depth 4520 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4550 Chlorides 7,000 ppm System LCM 1#  
 Blow Description IF: Surface blow, died @ 25 min.  
ISI: No return.  
FF: No blow  
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>mud</u>			<u>100</u>	
	<u>(OIL SPOTS)</u>				

Rec Total 15 BHT 118 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>2294</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1700</u>
(B) First Initial Flow <u>12</u>	<input type="checkbox"/> Jars	T-Started <u>1753</u>
(C) First Final Flow <u>16</u>	<input type="checkbox"/> Safety Joint	T-Open <u>2010</u>
(D) Initial Shut-In <u>104</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/L</u>	T-Pulled <u>2142</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2229</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>127RT 127</u>	Comments
(G) Final Shut-In <u>52</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2231</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>20</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>20</u>	<input type="checkbox"/> Day Standby	Total <u>1527</u>
Final Shut-In <u>20</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1527</u>	

Approved By \_\_\_\_\_ 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 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. 57406

Well Name & No. Dunler 1-25 Test No. 2 Date 4/14/15  
 Company Slawson Exploration Co, Inc Elevation 3164 KB 3159 GL  
 Address 204 Robinson Ave Ste 2300 Oklahoma City OK  
 Co. Rep / Geo. Pat Deenihan Rig WW 8  
 Location: Sec. 25 Twp. 10s Rge. 34w Co. Thomas State Ks

Interval Tested 4607 - 4670 Zone Tested Jdnson  
 Anchor Length 63 Drill Pipe Run 4480 Mud Wt. 9.3  
 Top Packer Depth 4602 Drill Collars Run 119 Vis 50  
 Bottom Packer Depth 4607 Wt. Pipe Run 8 WL 8.8  
 Total Depth 4670 Chlorides 9,000 ppm System LCM 1#  
 Blow Description IF BOB @ 10 min.  
ISI 1" blow back  
PF BOB @ 8 min  
FBI 8" return. reeled to 4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>GSMCO</u>	<u>35</u>	<u>60</u>	<u>5</u>	
<u>125</u>	<u>Gmco</u>	<u>40</u>	<u>50</u>	<u>10</u>	
<u>190</u>	<u>Gmco</u>	<u>35</u>	<u>35</u>	<u>30</u>	
	<u>1255 GJP</u>				

Rec Total 455 BHT 128 Gravity 23 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2371</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1330</u>
(B) First Initial Flow <u>35</u>	<input type="checkbox"/> Jars	T-Started <u>1407</u>
(C) First Final Flow <u>113</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1622</u>
(D) Initial Shut-In <u>881</u>	<input checked="" type="checkbox"/> Circ Sub <u>11c</u>	T-Pulled <u>1952</u>
(E) Second Initial Flow <u>135</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2222</u>
(F) Second Final Flow <u>182</u>	<input checked="" type="checkbox"/> Mileage <u>127</u> <u>127</u>	Comments
(G) Final Shut-In <u>835</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2263</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1527</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1527</u>	

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