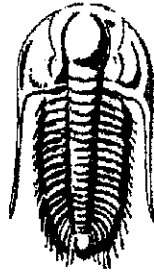


15-185-23511



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

## DRILL STEM TEST REPORT

Prepared For: **J W Williamson Oil Co**

1668 Lawrence Ct  
Wichita KS 67206

ATTN: Jeff Burk

**30 23 13 Stafford KS**

**Dove #1**

Start Date: 2008.03.23 @ 18:21:30

End Date: 2008.03.24 @ 03:46:30

Job Ticket #: 31226                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

J W Williamson Oil Co

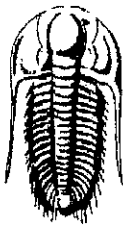
Dove #1

30 23 13 Stafford KS

DST # 1

Lansing B & D

2008.03.23



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

J W Williamson Oil Co

1668 Lawrence Ct  
Wichita KS 67206

ATTN: Jeff Burk

**Dove #1**

**30 23 13 Stafford KS**

Job Ticket: 31226

**DST#: 1**

Test Start: 2008.03.23 @ 18:21:30

## GENERAL INFORMATION:

Formation: **Lansing B & D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:30:45  
 Time Test Ended: 03:46:30

Test Type: Conventional Bottom Hole  
 Tester: Kevin Taylor  
 Unit No: 39

Interval: **3558.00 ft (KB) To 3592.00 ft (KB) (TVD)**  
 Total Depth: 3592.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1922.00 ft (KB)  
 1914.00 ft (CF)  
 KB to GR/CF: 8.00 ft

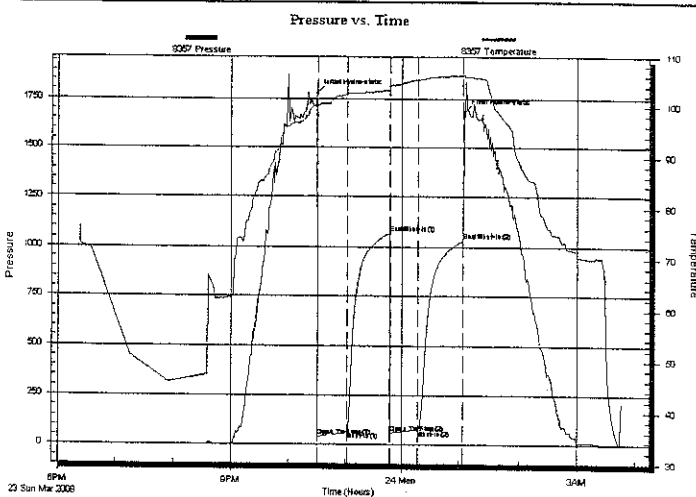
**Serial #: 8357**

**Inside**

Press@RunDepth: 77.31 psig @ 3559.00 ft (KB)  
 Start Date: 2008.03.23 End Date: 2008.03.24  
 Start Time: 18:21:35 End Time: 03:46:30

Capacity: 7000.00 psig  
 Last Calib.: 2008.03.24  
 Time On Btm: 2008.03.23 @ 22:30:15  
 Time Off Btm: 2008.03.24 @ 01:04:15

TEST COMMENT: IF Weak blow built To 2 1/2" in 30 Min  
 ISI No blow  
 FF Weak blow built To 1" in 20 Min  
 FSI No blow



## PRESSURE SUMMARY

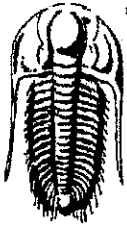
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1777.45	100.55	Initial Hydro-static
1	40.24	100.08	Open To Flow (1)
32	65.11	102.44	Shut-In (1)
77	1067.82	103.22	End Shut-In (1)
78	60.40	103.72	Open To Flow (2)
107	77.31	105.28	Shut-In (2)
154	1032.39	106.13	End Shut-In (2)
154	1678.58	106.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	Mud	0.92

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

J W Williamson Oil Co

**Dove #1**

1668 Lawrence Ct  
Wichita KS 67206

**30 23 13 Stafford KS**

Job Ticket: 31226

**DST#: 1**

ATTN: Jeff Burk

Test Start: 2008.03.23 @ 18:21:30

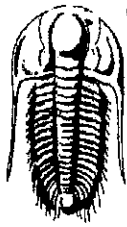
**Tool Information**

Drill Pipe:	Length: 3381.00 ft	Diameter: 3.88 inches	Volume: 49.44 bbl	Tool Weight: 2600.00 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: 166.00 ft	Diameter: 2.75 inches	Volume: 1.22 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 50.66 bbl</u>	Tool Chased 12.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3558.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3534.00	
Shut In Tool	5.00			3539.00	
Hydraulic tool	5.00			3544.00	
Jars	5.00			3549.00	
Packer	4.00			3553.00	25.00 Bottom Of Top Packer
Packer	5.00			3558.00	
Stubb	1.00			3559.00	
Recorder	0.00	8357	Inside	3559.00	
Recorder	0.00	8167	Outside	3559.00	
Perforations	28.00			3587.00	
Bullnose	5.00			3592.00	34.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>59.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

J W Williamson Oil Co

Dove #1

1668 Lawrence Ct  
Wichita KS 67206

**30 23 13 Stafford KS**

ATTN: Jeff Burk

Job Ticket: 31226

DST#: 1

Test Start: 2008.03.23 @ 18:21:30

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Mud	0.918

Total Length: 125.00 ft      Total Volume: 0.918 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8357

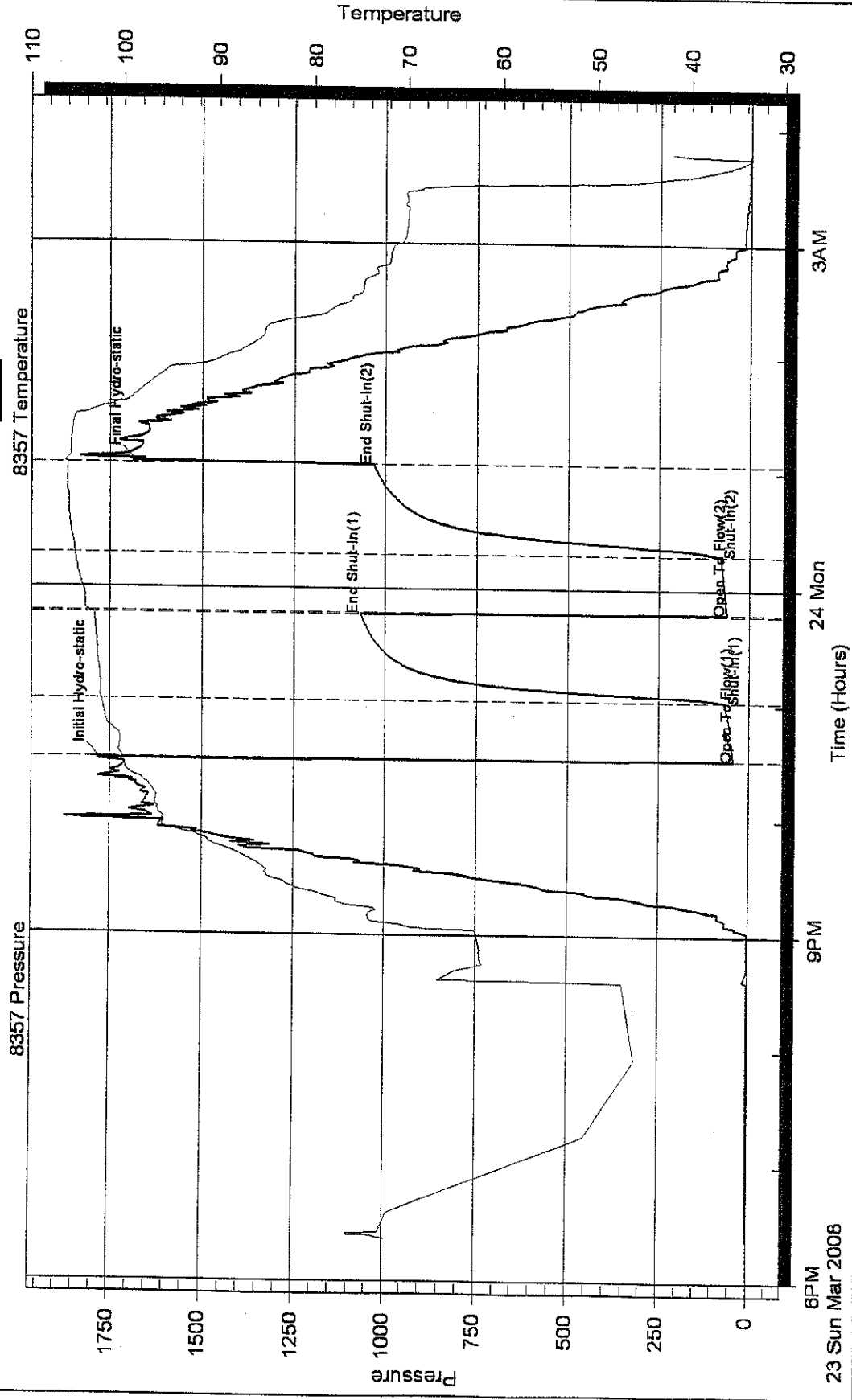
Inside

J W Williamson Oil Co

30 23 13 Stafford KS

DST Test Number: 1

### Pressure vs. Time



6PM 23 Sun Mar 2008

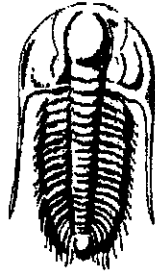
9PM

24 Mon

3AM

Time (Hours)





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **J W Williamson Oil Co**

1668 Lawrence Ct  
Wichita KS 67206

ATTN: Jeff Burk

**30 23 13 Stafford KS**

**Dove #1**

Start Date: 2008.03.25 @ 02:44:31

End Date: 2008.03.25 @ 10:32:31

Job Ticket #: 31227                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

J W Williamson Oil Co

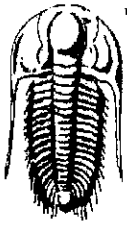
Dove #1

30 23 13 Stafford KS

DST # 2

Lans, H, J, K

2008.03.25



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

J W Williamson Oil Co

Dove #1

1668 Lawrence Ct  
Wichita KS 67206

**30 23 13 Stafford KS**

ATTN: Jeff Burk

Job Ticket: 31227

DST#: 2

Test Start: 2008.03.25 @ 02:44:31

## GENERAL INFORMATION:

Formation: **Lans. H,I,J,K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:59:16

Time Test Ended: 10:32:31

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **3660.00 ft (KB) To 3746.00 ft (KB) (TVD)**

Total Depth: 3746.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1922.00 ft (KB)

1914.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8167**

Inside

Press@RunDepth: 123.44 psig @ 3661.00 ft (KB)

Start Date: 2008.03.25

End Date:

2008.03.25

Capacity: 7000.00 psig

Last Calib.: 2008.03.25

Start Time: 02:44:32

End Time:

10:32:31

Time On Btm: 2008.03.25 @ 04:58:01

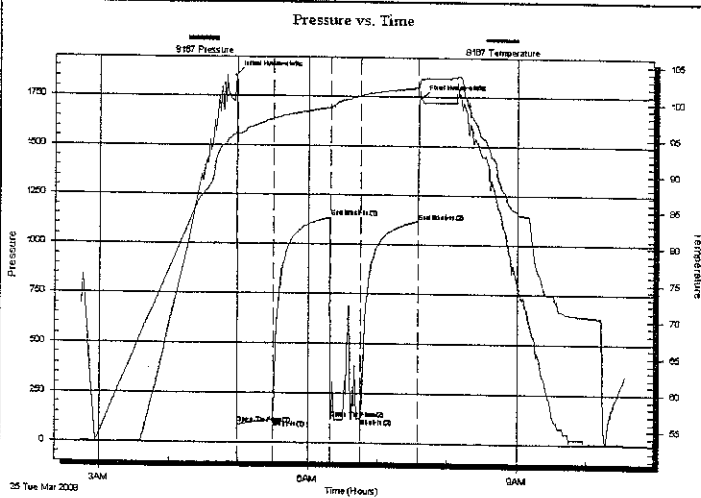
Time Off Btm: 2008.03.25 @ 07:37:16

TEST COMMENT: IF Weak blow 1/2 - 1 1/2 "

ISI No blow

FF Weak blow 1/2 - 1 1/4 "

FSI No blow



## PRESSURE SUMMARY

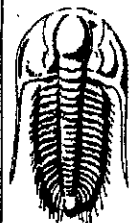
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1852.66	95.97	Initial Hydro-static
2	90.19	95.66	Open To Flow (1)
32	113.20	97.73	Shut-In(1)
81	1135.40	99.36	End Shut-In(1)
81	122.59	98.92	Open To Flow (2)
107	123.44	100.98	Shut-In(2)
157	1117.46	102.05	End Shut-In(2)
160	1744.05	103.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
205.00	DM	1.24

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

J W Williamson Oil Co

**Dove #1**

1668 Lawrence Ct  
Wichita KS 67206

**30 23 13 Stafford KS**

Job Ticket: 31227

**DST#: 2**

ATTN: Jeff Burk

Test Start: 2008.03.25 @ 02:44:31

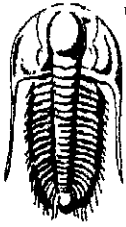
## Tool Information

Drill Pipe:	Length: 3471.00 ft	Diameter: 3.80 inches	Volume: 48.69 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 61000.00 lb
		<b>Total Volume:</b>	<b>49.58 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3660.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	114.00 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			3633.00	
Shut In Tool	5.00			3638.00	
Hydraulic tool	5.00			3643.00	
Jars	5.00			3648.00	
Safety Joint	3.00			3651.00	
Packer	4.00			3655.00	28.00 Bottom Of Top Packer
Packer	5.00			3660.00	
Stubb	1.00			3661.00	
Recorder	0.00	8167	Inside	3661.00	
Recorder	0.00	8357	Inside	3661.00	
Perforations	5.00			3666.00	
Change Over Sub	1.00			3667.00	
Blank Spacing	63.00			3730.00	
Change Over Sub	1.00			3731.00	
Perforations	10.00			3741.00	
Bullnose	5.00			3746.00	86.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>114.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

J W Williamson Oil Co

**Dove #1**

1668 Lawrence Ct  
Wichita KS 67206

**30 23 13 Stafford KS**

ATTN: Jeff Burk

Job Ticket: 31227

**DST#: 2**

Test Start: 2008.03.25 @ 02:44:31

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 11.99 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 8500.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

deg API

8500 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
205.00	DM	1.236

Total Length: 205.00 ft

Total Volume: 1.236 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

