

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Midwestern Exploration Co.**

3500 S. BLVD STE25
Edmond, OK 73013

ATTN: Tom Williams

Mary #2-10

10-35s-35w Stevens,KS

Start Date: 2011.11.20 @ 17:25:51

End Date: 2011.11.21 @ 06:01:21

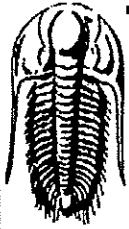
Job Ticket #: 42312 DST #: 1

Midwestern Exploration Co. 10-35s-35w Stevens,KS Mary #2-10 DST # 1 Chester A 2011.11.20

Trilobite Testing, Inc
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ORIGINAL

Printed: 2011.11.23 @ 15:53:57



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Mary #2-10

Job Ticket: 42312

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Test Start: 2011.11.20 @ 17:25:51

GENERAL INFORMATION:

Formation: **Chester A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:11:21

Time Test Ended: 06:01:21

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Slemp

Unit No: 53

Interval: 6535.00 ft (KB) To 6575.00 ft (KB) (TVD)

Reference Elevations: 2989.00 ft (KB)

Total Depth: 6575.00 ft (KB) (TVD)

2977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8677

Inside

Press@RunDepth: 123.01 psig @ 6537.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.20

End Date: 2011.11.21

Last Calib.: 2011.11.21

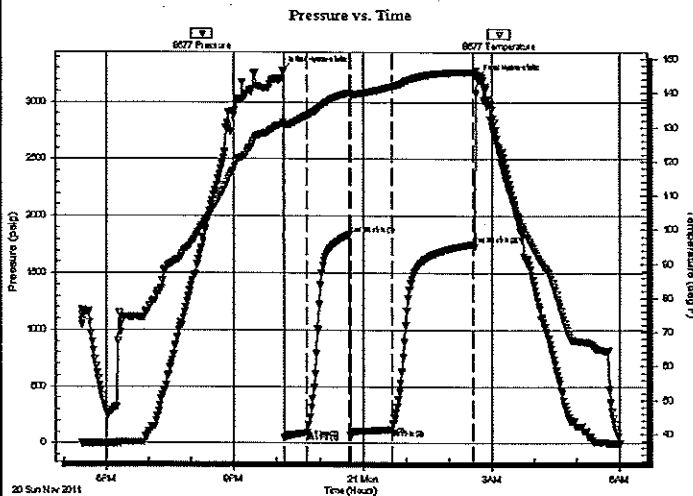
Start Time: 17:25:52

End Time: 06:01:21

Time On Btm: 2011.11.20 @ 22:07:51

Time Off Btm: 2011.11.21 @ 02:39:06

TEST COMMENT: IF- BOB in 3 min
IS- No blow back
FF- BOB ASAO GTS at Shut in
FS- No blow back



PRESSURE SUMMARY

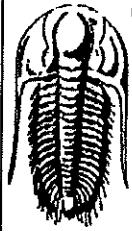
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3278.58	130.95	Initial Hydro-static
4	48.75	130.91	Open To Flow (1)
34	90.42	133.33	Shut-In(1)
93	1839.50	140.12	End Shut-In(1)
95	71.62	139.53	Open To Flow (2)
153	123.01	141.93	Shut-In(2)
266	1753.64	146.14	End Shut-In(2)
272	3209.12	145.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	GMCO 20%gas75%oil5%mud	1.40

Gas Rates

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



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TOOL DIAGRAM

Midwestern Exploration Co.

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Job Ticket: 42312

DST#: 1

ATTN: Tom Williams

Test Start: 2011.11.20 @ 17:25:51

Tool Information

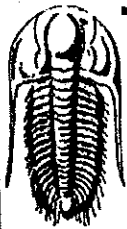
Drill Pipe:	Length: 6238.00 ft	Diameter: 3.80 inches	Volume: 87.50 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 278.00 ft	Diameter: 2.25 inches	Volume: 1.37 bbl	Weight to Full Loose: 110000.0 lb
			<u>Total Volume: 88.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 92000.00 lb
Depth to Top Packer:	6535.00 ft			Final 93000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	66.00 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			6514.00	
Hydraulic tool	5.00			6519.00	
Jars	5.00			6524.00	
Safety Joint	2.00			6526.00	
Packer	5.00			6531.00	26.00 Bottom Of Top Packer
Packer	4.00			6535.00	
Stubb	1.00			6536.00	
Perforations	1.00			6537.00	
Recorder	0.00	8678	Inside	6537.00	
Recorder	0.00	8677	Inside	6537.00	
Perforations	35.00			6572.00	
Bullnose	3.00			6575.00	40.00 Bottom Packers & Anchor

Total Tool Length: 66.00



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FLUID SUMMARY

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Mary #2-10

Job Ticket: 42312

DST#: 1

ATTN: Tom Williams

Test Start: 2011.11.20 @ 17:25:51

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 9.47 in³

Resistivity: ohmm

Salinity: 2200.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
280.00	GMCO 20%gas75%oil5%mud	1.395

Total Length: 280.00 ft Total Volume: 1.395 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8677

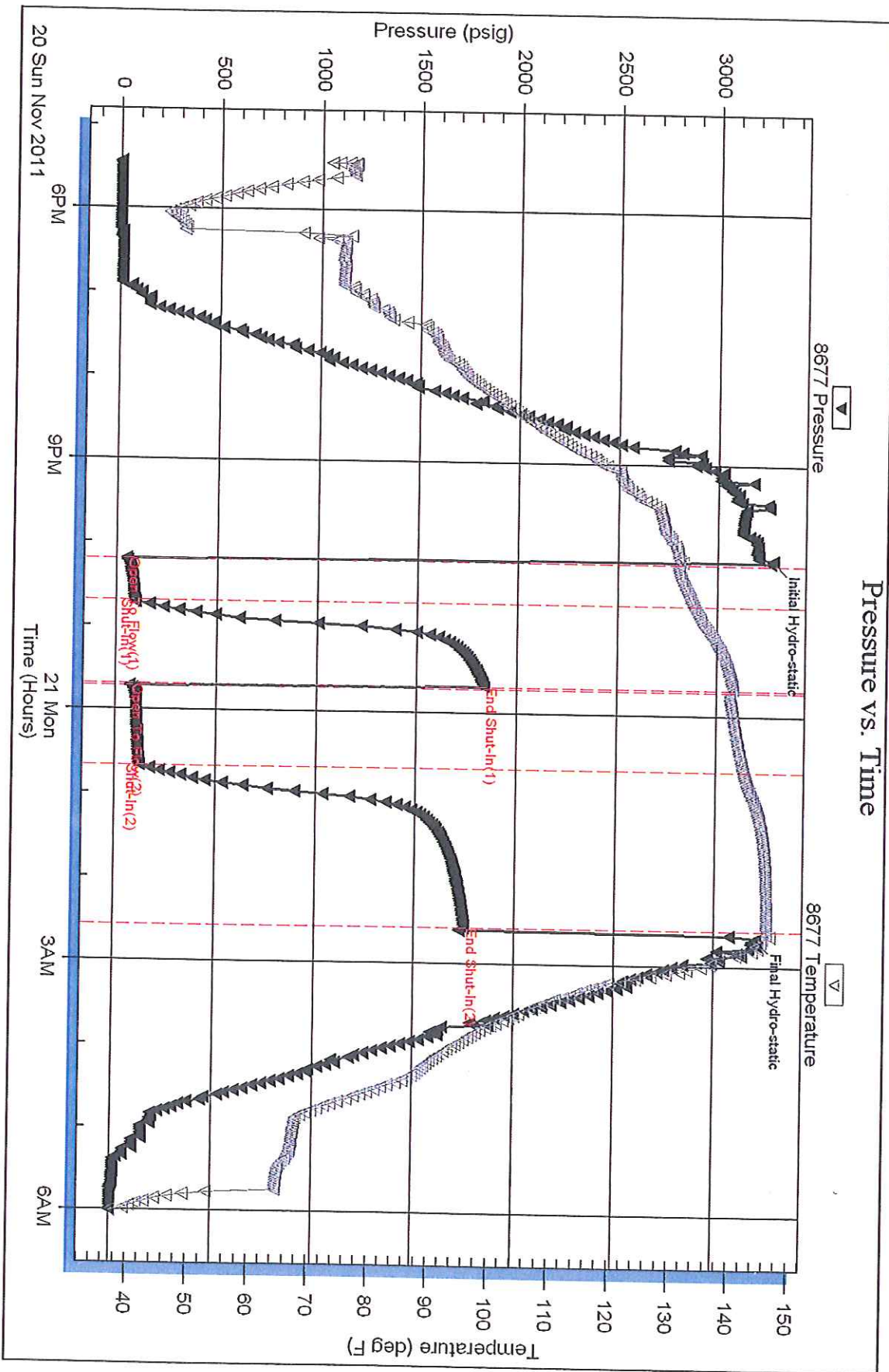
Inside

Mdw eastern Exploration Co.

May #2-10

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 42312

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