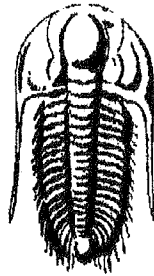


15-101-22115

2-185-27w

10



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum, LTD**

225 N. Market
Ste. 300
Wichita, KS 67202

ATTN: Flip Phillips/Josh Au

2 18 27 Lane KS

Mauch JL #1-2

Start Date: 2008.09.20 @ 22:54:00

End Date: 2008.09.21 @ 07:10:30

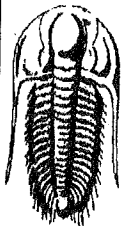
Job Ticket #: 32575 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

KCC
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Pintail Petroleum, LTD

225 N. Market
Ste. 300
Wichita, KS 67202
ATTN: Flip Phillips/Josh Au00

Mauch JL #1-2

2 18 27 Lane KS

Job Ticket: 32575

DST#: 1

Test Start: 2008.09.20 @ 22:54:00

GENERAL INFORMATION:

Formation: **KC 'J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:07:45

Time Test Ended: 07:10:30

Interval: **4158.00 ft (KB) To 4180.00 ft (KB) (TVD)**

Total Depth: 4180.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Reference Elevations: 2276.00 ft (KB)

2270.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8351

Inside

Press@RunDepth: 82.39 psig @ 4160.00 ft (KB)

Start Date: 2008.09.20

End Date:

2008.09.21

Start Time: 22:54:01

End Time:

07:10:30

Capacity: 7000.00 psig

Last Calib.: 2008.09.21

Time On Btm: 2008.09.21 @ 01:07:30

Time Off Btm: 2008.09.21 @ 03:56:45

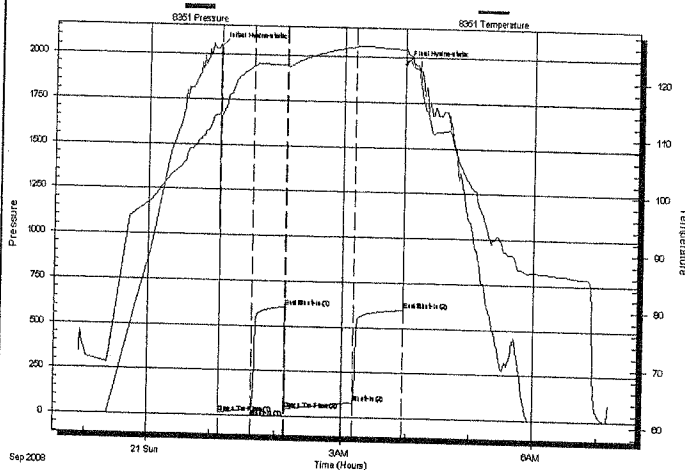
TEST COMMENT: IF: BOB @ 16 min

IS: 1/2" return died @ 20 min

FF: BOB @ 12 min

FS: 2 1/2" return died @ 30 min

Pressure vs. Time



PRESSURE SUMMARY

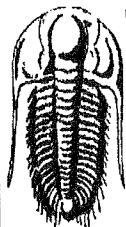
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2044.68	113.55	Initial Hydro-static
1	13.83	112.45	Open To Flow (1)
31	38.46	121.96	Shut-In (1)
61	605.47	122.27	End Shut-In (1)
61	39.11	122.07	Open To Flow (2)
123	82.39	125.64	Shut-In (2)
169	599.57	125.36	End Shut-In (2)
170	1962.50	125.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GOCM 20%G 15%O 65%M	1.07
61.00	GOCM 35%G 15%O 50%M	1.07
61.00	GO 30%G 70%O	1.07
0.00	900 Feet GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pintail Petroleum, LTD

Mauch JL #1-2

225 N. Market
Ste. 300
Wichita, KS 67202
ATTN: Flip Phillips/Josh Au00

2 18 27 Lane KS

Job Ticket: 32575 DST#: 1

Test Start: 2008.09.20 @ 22:54:00

Tool Information

Drill Pipe:	Length: 4161.00 ft	Diameter: 4.25 inches	Volume: 73.01 bbl	Tool Weight:	2200.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	28000.00 lb	
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	57000.00 lb	
			Total Volume:	73.01 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	39000.00 lb	
Depth to Top Packer:	4158.00 ft			Final	42000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	22.00 ft					
Tool Length:	44.00 ft					
Number of Packers:	2	Diameter:	6.75 inches			
Tool Comments:						

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4137.00	
Shut In Tool	5.00			4142.00	
Hydraulic tool	5.00			4147.00	
Safety Joint	2.00			4149.00	
Packer	5.00			4154.00	22.00 Bottom Of Top Packer
Packer	4.00			4158.00	
Stubb	1.00			4159.00	
Perforations	1.00			4160.00	
Recorder	0.00	8017	Inside	4160.00	
Recorder	0.00	8351	Inside	4160.00	
Perforations	15.00			4175.00	
Bullnose	5.00			4180.00	22.00 Bottom Packers & Anchor

Total Tool Length: 44.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Petroleum, LTD

Mauch JL #1-2

225 N. Market

2 18 27 Lane KS

Ste. 300

Job Ticket: 32575

DST#: 1

Wichita, KS 67202

Test Start: 2008.09.20 @ 22:54:00

ATTN: Flip Phillips/Josh Au00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	GOCM 20%G 15%O 65%M	1.070
61.00	GOCM 35%G 15%O 50%M	1.070
61.00	GO 30%G 70%O	1.070
0.00	900 Feet GIP	0.000

Total Length: 183.00 ft

Total Volume: 3.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 36 @ 60 Degrees F =36

DST Test Number: 1

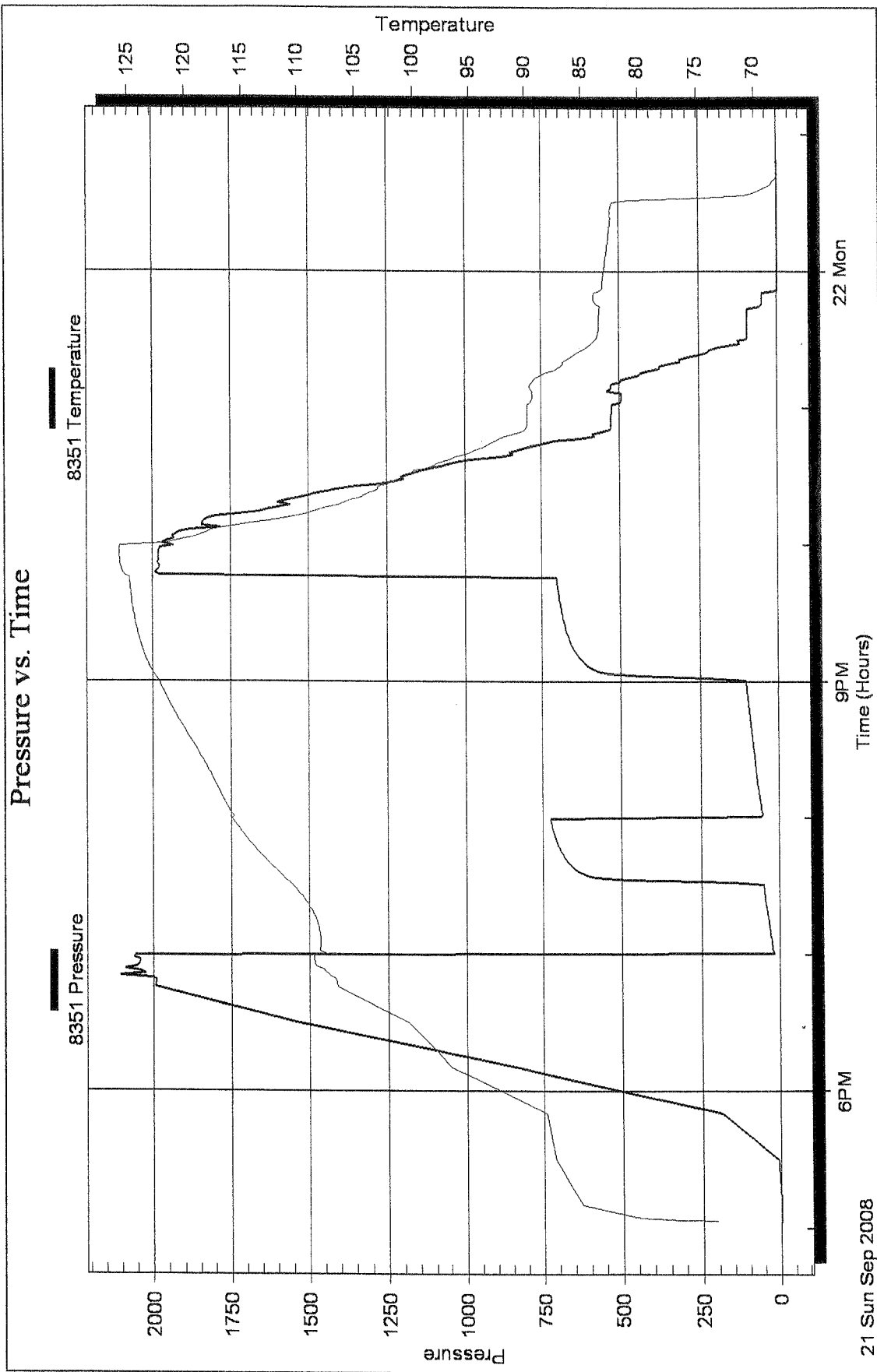
2 18 27 Lane KS

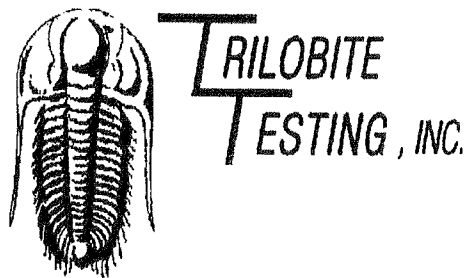
Intail Petroleum, LTD

Inside

Serial #: 8351

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum, LTD**

225 N. Market
Ste. 300
Wichita, KS 67202

ATTN: Flip Phillips/Josh Au

2 18 27 Lane KS

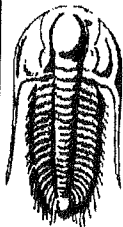
Mauch JL #1-2

Start Date: 2008.09.21 @ 17:03:05

End Date: 2008.09.22 @ 00:49:05

Job Ticket #: 32601 DST #: 2

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Pintail Petroleum, LTD

225 N. Market
Ste. 300
Wichita, KS 67202
ATTN: Flip Phillips/Josh Au00

Mauch JL #1-2

2 18 27 Lane KS

Job Ticket: 32601

DST#: 2

Test Start: 2008.09.21 @ 17:03:05

GENERAL INFORMATION:

Formation: **KC 'K'**
Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:00:35

Time Test Ended: 00:49:05

Interval: **4184.00 ft (KB) To 4220.00 ft (KB) (TVD)**

Total Depth: 4220.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Reference Elevations: 2276.00 ft (KB)

2270.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8017 Inside

Press@RunDepth: 107.96 psig @ 4186.00 ft (KB)

Start Date: 2008.09.21

End Date:

2008.09.22

Start Time: 17:03:06

End Time:

00:49:05

Capacity: 7000.00 psig

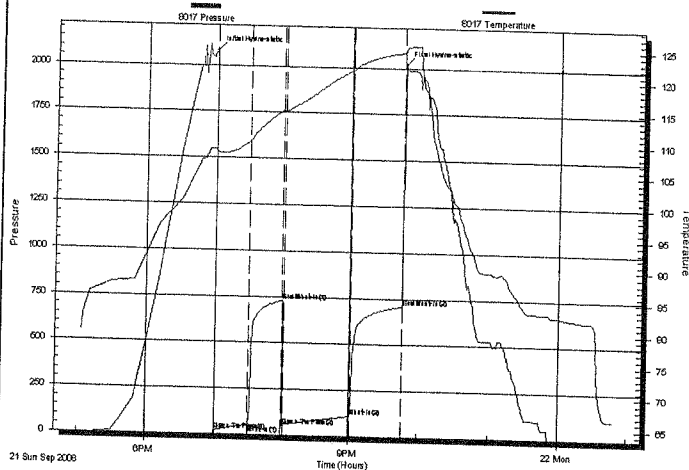
Last Calib.: 2008.09.22

Time On Btm: 2008.09.21 @ 19:00:20

Time Off Btm: 2008.09.21 @ 21:46:35

TEST COMMENT: IF: 10" Blow
ISl: Weak return died @ 5 min
FF: B.O.B. @ 31 min
FSl: 1" return died @ 29 min

Pressure vs. Time



PRESSURE SUMMARY

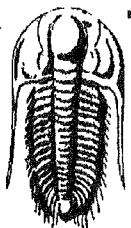
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2081.46	108.81	Initial Hydro-static
1	20.03	108.31	Open To Flow (1)
30	53.27	110.12	Shut-In(1)
60	729.10	115.08	End Shut-In(1)
61	53.30	114.84	Open To Flow (2)
120	107.96	121.43	Shut-In(2)
166	705.93	124.35	End Shut-In(2)
167	2019.74	124.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	SOMCW 1%O 24%M 75%W	2.14
64.00	GOWCM 10%G 15%O 30%W 45%M	1.12
0.00	360 Feet GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pintail Petroleum, LTD

225 N. Market
Ste. 300
Wichita, KS 67202
ATTN: Flip Phillips/Josh Au00

Mauch JL #1-2

2 18 27 Lane KS

Job Ticket: 32601

DST#: 2

Test Start: 2008.09.21 @ 17:03:05

Tool Information

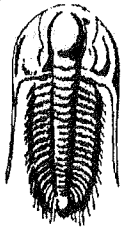
Drill Pipe:	Length: 4194.00 ft	Diameter: 4.25 inches	Volume: 73.59 bbl	Tool Weight:	2200.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb	
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb	
			Total Volume:	73.59 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	39000.00 lb	
Depth to Top Packer:	4184.00 ft			Final	40000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	36.00 ft					
Tool Length:	58.00 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			4163.00	
Shut In Tool	5.00			4168.00	
Hydraulic tool	5.00			4173.00	
Safety Joint	2.00			4175.00	
Packer	5.00			4180.00	22.00 Bottom Of Top Packer
Packer	4.00			4184.00	
Stubb	1.00			4185.00	
Perforations	1.00			4186.00	
Recorder	0.00	8017	Inside	4186.00	
Recorder	0.00	8351	Inside	4186.00	
Change Over Sub	1.00			4187.00	
Drill Pipe	30.00			4217.00	
Change Over Sub	1.00			4218.00	
Bullnose	2.00			4220.00	36.00 Bottom Packers & Anchor

Total Tool Length: 58.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Petroleum, LTD

Mauch JL #1-2

225 N. Market

2 18 27 Lane KS

Ste. 300

Job Ticket: 32601

DST#: 2

Wichita, KS 67202

Test Start: 2008.09.21 @ 17:03:05

ATTN: Flip Phillips/Josh Au00

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:

30000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	SOMCW 1%O 24%M 75%W	2.141
64.00	GOWCM 10%G 15%O 30%W 45%M	1.123
0.00	360 Feet GIP	0.000

Total Length: 186.00 ft

Total Volume: 3.264 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .225 @ 70 Degrees F = 30000 chlorides.

Pressure vs. Time

