

DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum Ltd.**

225 N. Market, ste. 300
Wichita KS 67202

ATTN: Flip Phillips

3-19-24 Ness

PAVLU "AS" 1-3

Start Date: 2005.12.08 @ 17:30:10

End Date: 2005.12.09 @ 01:35:49

Job Ticket #: 22609 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Pintail Petroleum Ltd.

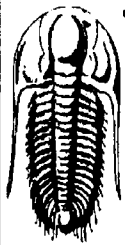
PAVLU "AS" 1-3

3-19-24 Ness

DST # 1

Ft. Scott

2005.12.08



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Pintail Petroleum Ltd.

225 N. Market, ste. 300
Wichita KS 67202

ATTN: Flip Phillips

PAVLU "AS" 1-3

3-19-24 Ness

Job Ticket: 22609

DST#: 1

Test Start: 2005.12.08 @ 17:30:10

GENERAL INFORMATION:

Formation: **Ft. Scott**

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

Time Tool Opened: 20:16:35

Time Test Ended: 01:35:49

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **18**

Interval: **4230.00 ft (KB) To 4290.00 ft (KB) (TVD)**

Total Depth: **4290.00 ft (KB) (TVD)**

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

Reference Elevations: **2332.00 ft (KB)**

2327.00 ft (CF)

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

Serial #: 6772 **Inside**

Press@RunDepth: **94.17 psig @ 4231.00 ft (KB)**

Start Date: **2005.12.08**

End Date: **2005.12.09**

Start Time: **17:30:10**

End Time: **01:35:49**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2005.12.08 @ 20:15:05**

Time Off Btm: **2005.12.08 @ 23:02:49**

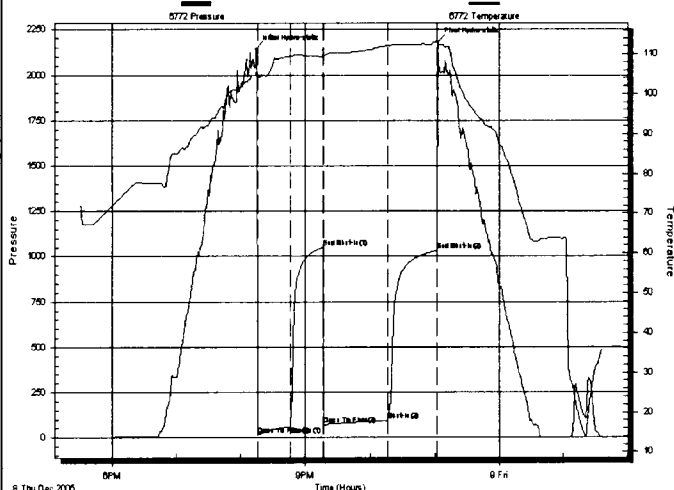
TEST COMMENT: **IF: 1/4 blow built to 5 in 30 min.**

IS: No return.

FF: Surface blow built to 5 in 60 min.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

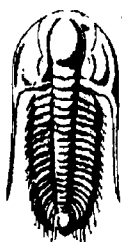
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2142.27	105.27	Initial Hydro-static
2	14.74	104.61	Open To Flow (1)
32	61.13	109.46	Shut-In(1)
62	1049.97	109.31	End Shut-In(1)
62	68.72	109.13	Open To Flow (2)
122	94.17	112.12	Shut-In(2)
167	1031.92	112.77	End Shut-In(2)
168	2179.78	112.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	w cm 10%w 90%m	0.61
40.00	mud some oil spots 100%m	0.56

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pntail Petroleum Ltd.

225 N. Market, ste. 300
Wichita KS 67202

ATTN: Flip Phillips

PAVLU "AS" 1-3

3-19-24 Ness

Job Ticket: 22609

DST#: 1

Test Start: 2005.12.08 @ 17:30:10

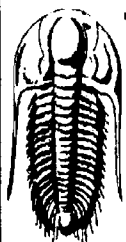
Tool Information

Drill Pipe:	Length: 4104.00 ft	Diameter: 3.80 inches	Volume: 57.57 bbl	Tool Weight: 1500.00 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: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 58.18 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4230.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4211.00	
Shut In Tool	5.00			4216.00	
Hydraulic tool	5.00			4221.00	
Packer	5.00		Fluid	4226.00	20.00 Bottom Of Top Packer
Packer	4.00			4230.00	
Stubb	1.00			4231.00	
Recorder	0.00	6772	Inside	4231.00	
Perforations	22.00			4253.00	
Change Over Sub	1.00			4254.00	
Drill Pipe	30.00			4284.00	
Change Over Sub	1.00			4285.00	
Recorder	0.00	7437	Inside	4285.00	
Bullnose	5.00			4290.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Petroleum Ltd.

PAVLU "AS" 1-3

225 N. Market, ste. 300
Wichita KS 67202

3-19-24 Ness

Job Ticket: 22609

DST#: 1

ATTN: Flip Phillips

Test Start: 2005.12.08 @ 17:30:10

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:

41000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.55 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	w cm 10%w 90%m	0.615
40.00	mud some oil spots 100%m	0.561

Total Length: 165.00 ft

Total Volume: 1.176 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

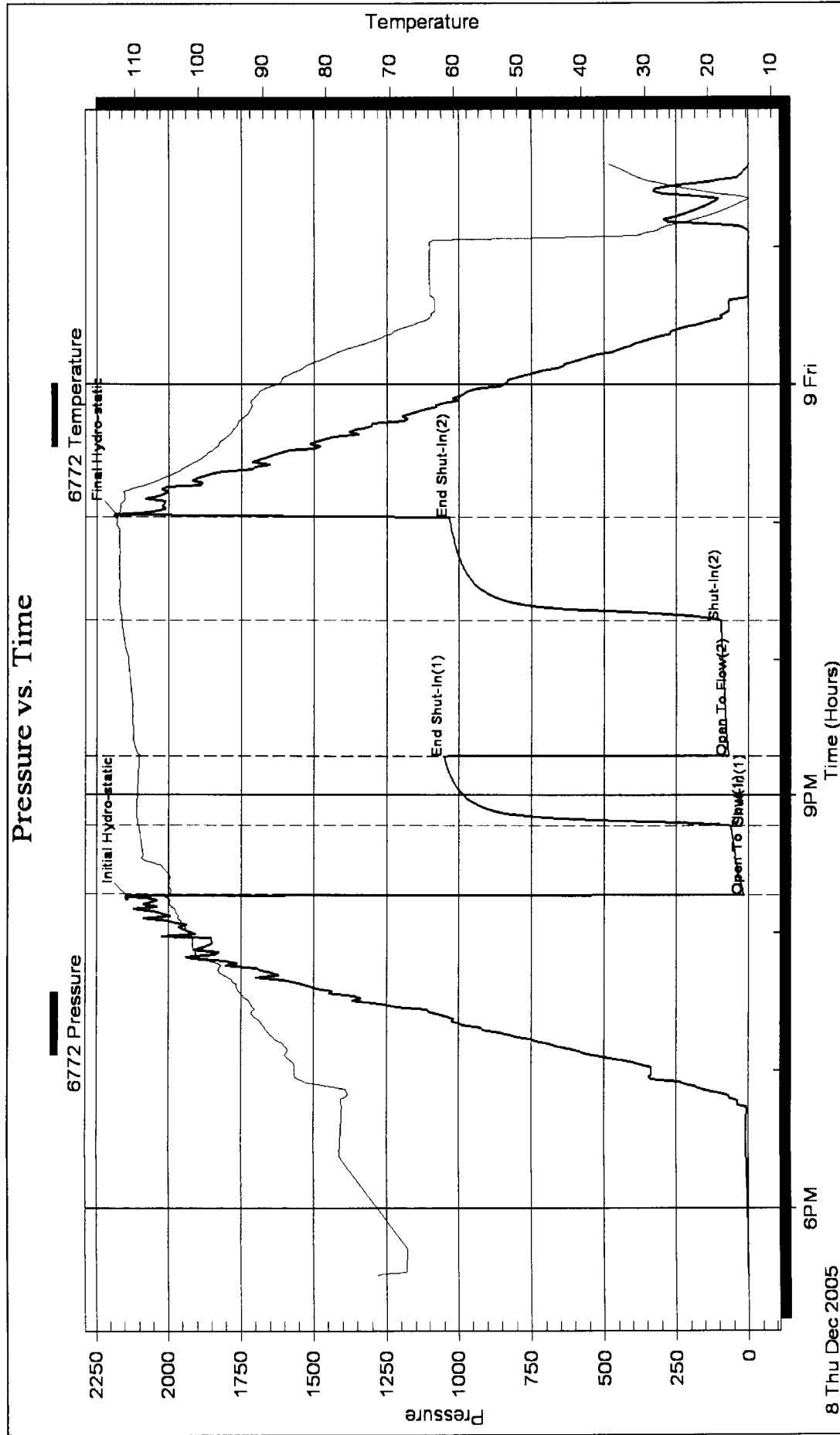
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum Ltd.**

225 N. Market, ste. 300
Wichita KS 67202

ATTN: Flip Phillips

3-19-24 Ness

PAVLU "AS" 1-3

Start Date: 2005.12.09 @ 14:09:12

End Date: 2005.12.09 @ 21:16:21

Job Ticket #: 22610 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Pintail Petroleum Ltd.

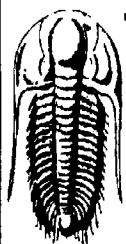
PAVLU "AS" 1-3

3-19-24 Ness

DST # 2

Mississippi

2005.12.09



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Pintail Petroleum Ltd.

225 N. Market, ste. 300
Wichita KS 67202

ATTN: Flip Phillips

PAVLU "AS" 1-3

3-19-24 Ness

Job Ticket: 22610

DST#: 2

Test Start: 2005.12.09 @ 14:09:12

GENERAL INFORMATION:

Formation: **Mississippi**

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

Time Tool Opened: 16:23:37

Time Test Ended: 21:16:21

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **18**

Interval: **4304.00 ft (KB) To 4380.00 ft (KB) (TVD)**

Total Depth: **4380.00 ft (KB) (TVD)**

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

Reference Elevations: **2332.00 ft (KB)**

2327.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772 **Inside**

Press@RunDepth: **127.37 psig @ 4305.00 ft (KB)**

Start Date: **2005.12.09**

End Date: **2005.12.09**

Start Time: **14:09:12**

End Time: **21:16:21**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2005.12.09 @ 16:21:07**

Time Off Btm: **2005.12.09 @ 19:10:51**

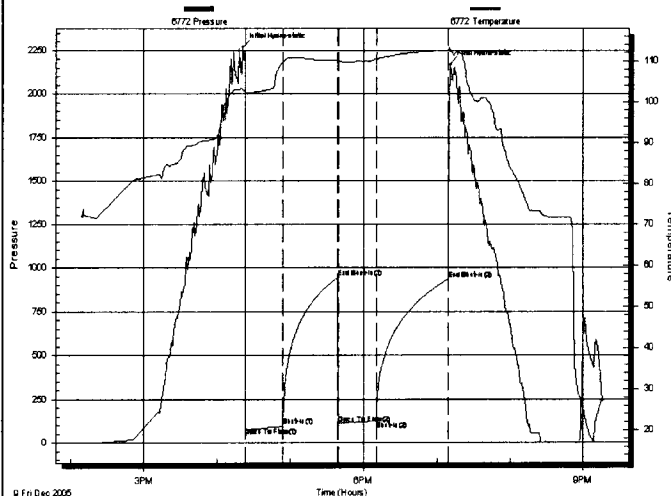
TEST COMMENT: **IF: 1/4 blow BOB in 12 min.**

IS: Surface blow built to 1 in 45 min.

FF: 1/4 blow BOB in 20 min.

FS: Surface blow died in 15 min.

Pressure vs. Time



PRESSURE SUMMARY

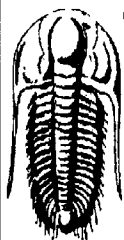
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2267.31	103.09	Initial Hydro-static
3	36.82	102.28	Open To Flow (1)
33	96.42	109.54	Shut-In(1)
78	944.39	110.18	End Shut-In(1)
78	106.52	109.97	Open To Flow (2)
109	127.37	110.46	Shut-In(2)
168	933.71	112.57	End Shut-In(2)
170	2169.11	112.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
218.00	gocm 5%g 5%o 90%m	1.92
71.00	go 10%g 90%o	1.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pintail Petroleum Ltd.

225 N. Market, ste. 300
Wichita KS 67202

ATTN: Flip Phillips

PAVLU "AS" 1-3

3-19-24 Ness

Job Ticket: 22610

DST#: 2

Test Start: 2005.12.09 @ 14:09:12

Tool Information

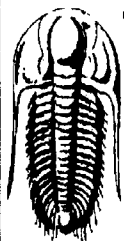
Drill Pipe:	Length: 4166.00 ft	Diameter: 3.80 inches	Volume: 58.44 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	70000.00 lb
			Total Volume: 59.05 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	4304.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	76.00 ft				
Tool Length:	96.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Stubb	1.00			4285.00	
Shut In Tool	5.00			4290.00	
Hydraulic tool	5.00			4295.00	
Packer	5.00		Fluid	4300.00	20.00 Bottom Of Top Packer
Packer	4.00			4304.00	
Stubb	1.00			4305.00	
Recorder	0.00	6772	Inside	4305.00	
Perforations	5.00			4310.00	
Change Over Sub	1.00			4311.00	
Drill Pipe	63.00			4374.00	
Change Over Sub	1.00			4375.00	
Recorder	0.00	7437	Inside	4375.00	
Bullnose	5.00			4380.00	76.00 Bottom Packers & Anchor

Total Tool Length: 96.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Petroleum Ltd.

PAVLU "AS" 1-3

225 N. Market, ste. 300
Wichita KS 67202

3-19-24 Ness

Job Ticket: 22610

DST#: 2

ATTN: Flip Phillips

Test Start: 2005.12.09 @ 14:09:12

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
218.00	gocm 5%g 5%o 90%m	1.919
71.00	go 10%g 90%o	0.996

Total Length: 289.00 ft

Total Volume: 2.915 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

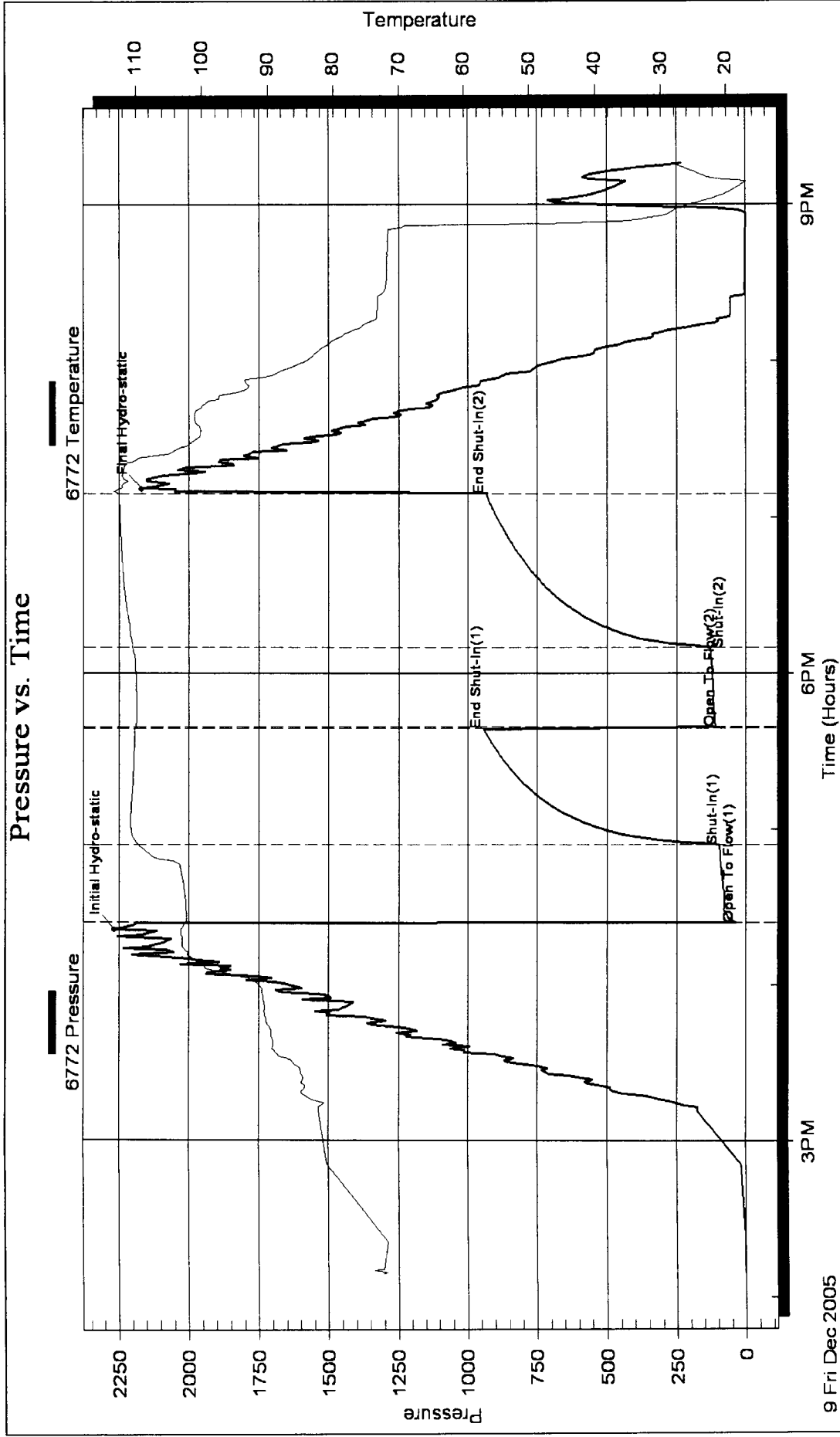
Serial #:

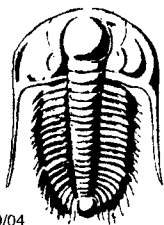
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV
8210

No 22609

Test Ticket

Well Name & No.	PAUL4 "A5" 1-3	Test No.	1	Date	12-8-05
Company	Pintail Petroleum, Ltd.	Zone Tested	Ft. Scott		
Address	225 N. Market, Ste. 300 Wichita, KS 67262	Elevation	2332	KB	2327 GL
Co. Rep / Geo.	Flip Phillips	Cont.	Murkin 24	Est. Ft. of Pay	Por. %
Location: Sec.	3	Twp.	19	Rge.	24
		Co.	Ness	State	KS
No. of Copies		Disbtribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	4230	4290	Initial Str Wt./Lbs.	42,000	Unseated Str Wt./Lbs.	43,000
Anchor Length		60	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	69,000
Top Packer Depth		4225	Tool Weight	1500		
Bottom Packer Depth		4230	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4290	Wt. Pipe Run	—	Drill Collar Run	125
Mud Wt.	9.4	LCM 1	Vis. 57	WL 9.6	Drill Pipe Size	4 1/2 XH
Blow Description	IF: 4 blow built to 5 in 30 min.					

IS: No return.

FF: Surface blow built to 5 in 60 min.

FS: No return.

Recovery - Total Feet	165	GIP	—	Ft. in DC	125	Ft. in DP	40
Rec.	40	Feet of	mud some oil spots	%gas	%oil	%water	100 %mud
Rec.	125	Feet of	wom	%gas	%oil	10 %water	90 %mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
BHT	112	°F Gravity	—	°API D @	—	°F Corrected Gravity	— °API
RW	.24	@	52 °F	Chlorides	41,000	ppm Recovery	41,000
				Chlorides	3000	ppm System	

(A) Initial Hydrostatic Mud	AK-1	Alpine	2142	PSI	Recorder No.	6772	Test	1100.00
(B) First Initial Flow Pressure			14	PSI	(depth)	4231	Jars	
(C) First Final Flow Pressure			61	PSI	Recorder No.	7437	Safety Jt.	
(D) Initial Shut-In Pressure			1049	PSI	(depth)	4289	Circ Sub	x N/C
(E) Second Initial Flow Pressure			68	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			94	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			1031	PSI	Initial Opening	30	Ext. Packer	
(Q) Final Hydrostatic Mud			2179	PSI	Initial Shut-In	30	Shale Packer	

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.

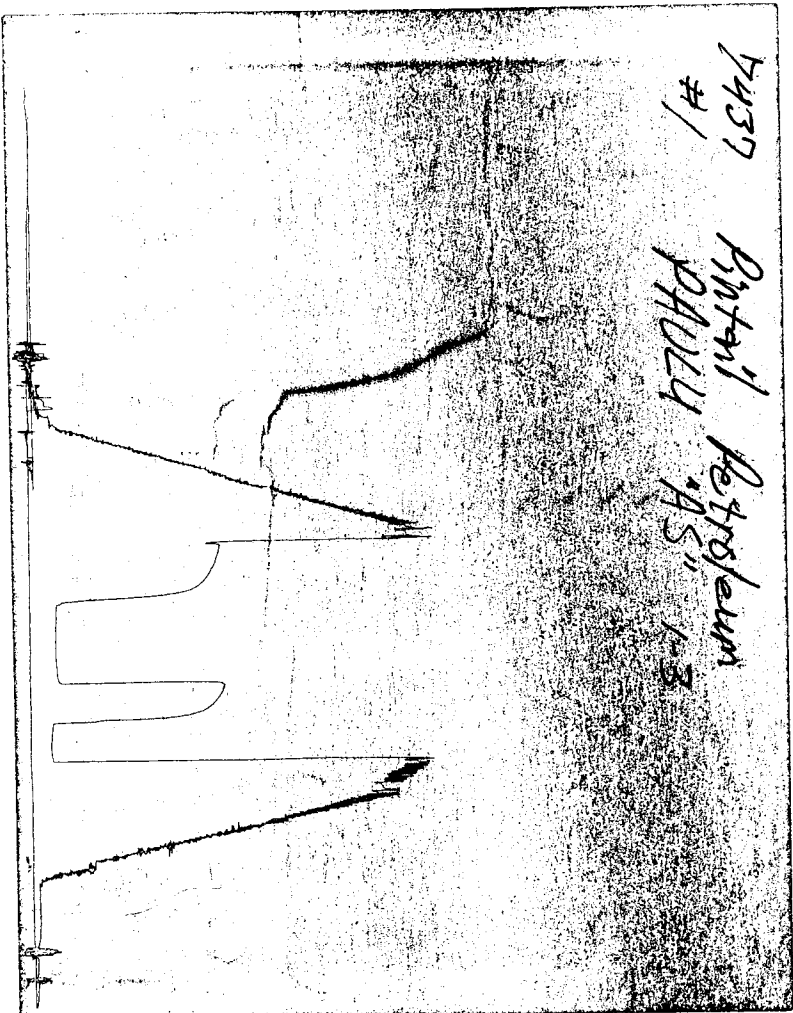
Final Flow	60	45
Final Shut-In		
T-On Location	16:30	
T-Started	17:30	
T-Open	20:17	
T-Pulled	23:02	
T-Out	01:40	
Mileage	112.00	
Sub Total:	1212	
Std. By		
Other		
Total:		

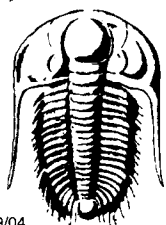
Approved By

Our Representative

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 22610

Test Ticket

Well Name & No. PAUL4 "A5" 1-3 Test No. 2 Date 12-9-05
Company Pintail Petroleum, Ltd Zone Tested Mississippi
Address 225 N. Market, Ste. 300 Wichita, KS 67202 Elevation 2332 KB 2327 GL
Co. Rep / Geo. Flip Phillips Cont. Murphy 24 Est. Ft. of Pay _____ Por. _____ %
Location: Sec. 3 Twp. 19 Rge. 24 Co. Ness State KS
No. of Copies None Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4304 4380 Initial Str Wt./Lbs. 49,000 Unseated Str Wt./Lbs. 50,000
Anchor Length _____ 76 Wt. Set Lbs. 39,000 Wt. Pulled Loose/Lbs. 70,000
Top Packer Depth _____ 4299 Tool Weight 1500
Bottom Packer Depth _____ 4304 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
Total Depth _____ 4380 Wt. Pipe Run _____ Drill Collar Run 125
Mud Wt. 9.4 LCM Ø Vis. 63 WL 10.4 Drill Pipe Size 4 1/2 x 4 Ft. Run 4166

Blow Description IF: 1/4 blow BOB in 12 min.
IS: Surface blow built to 1 in 45 min.
FF: 1/4 blow BOB in 20 min.
FS: Surface blow died in 15 min.

Recovery - Total Feet 289 GIP 144 Ft. in DC 125 Ft. in DP 164
Rec. 71 Feet of 90 10 %gas 90 %oil _____ %water _____ %mud _____
Rec. 218 Feet of 90cm 5 %gas 5 %oil _____ %water 90 %mud _____
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
BHT 112 °F Gravity 34 °API D @ 30 °F Corrected Gravity 37 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 3000 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	<u>2267</u>	PSI	Recorder No.	<u>6772</u>	Test	<u>x 1000.00</u>
(B) First Initial Flow Pressure	<u>36</u>	PSI	(depth)	<u>4305</u>	Jars	_____
(C) First Final Flow Pressure	<u>96</u>	PSI	Recorder No.	<u>7437</u>	Safety Jt.	_____
(D) Initial Shut-In Pressure	<u>944</u>	PSI	(depth)	<u>4379</u>	Circ Sub	<u>x N/C</u>
(E) Second Initial Flow Pressure	<u>106</u>	PSI	Recorder No.	_____	Sampler	_____
(F) Second Final Flow Pressure	<u>127</u>	PSI	(depth)	_____	Straddle	_____
(G) Final Shut-In Pressure	<u>933</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer	_____
(Q) Final Hydrostatic Mud	<u>2169</u>	PSI	Initial Shut-In	<u>45</u>	Shale Packer	_____

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.

Approved By [Signature]
Our Representative [Signature]

Final Flow 30
Final Shut-In 60
T-On Location 13:30
T-Started 14:09
T-Open 16:23
T-Pulled 19:08
T-Out 20:20
Ruined Packer _____
Mileage 112.00
Sub Total: 1212
Std. By _____
Other _____
Total: _____

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

