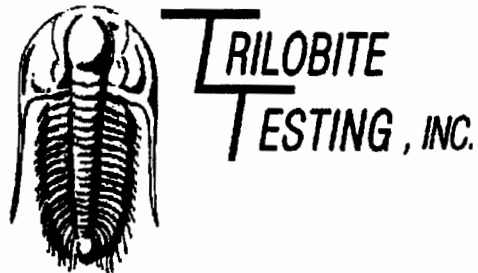


15-195-22404

15-15s-21w



DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum LTD**

225 N Market Ste 300
Wichita KS67202

ATTN: Flip Phillips

15 15S 21W Trego KS

Witthuhn ' VM ' # 1-15

Start Date: 2006.11.03 @ 02:45:52

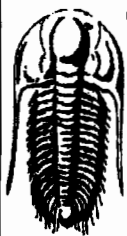
End Date: 2006.11.03 @ 12:22:52

Job Ticket #: 26121 DST #: 1

Trilobite Testing, Inc

PO Box 362 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 KS67202

ATTN: Flip Phillips

Witthuhn ' VM ' # 1-15

15 15S 21W Trego KS

Job Ticket: 26121

DST#: 1

Test Start: 2006.11.03 @ 02:45:52

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 05:30:22

Time Test Ended: 12:22:52

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **4055.00 ft (KB) To 4087.00 ft (KB) (TVD)**

Total Depth: 4087.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2247.00 ft (KB)

2242.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: 101.53 psig @ 4059.00 ft (KB)

Start Date: 2006.11.03

End Date:

2006.11.03

Capacity: 7000.00 psig

Last Calib.: 2006.11.03

Start Time: 02:45:57

End Time:

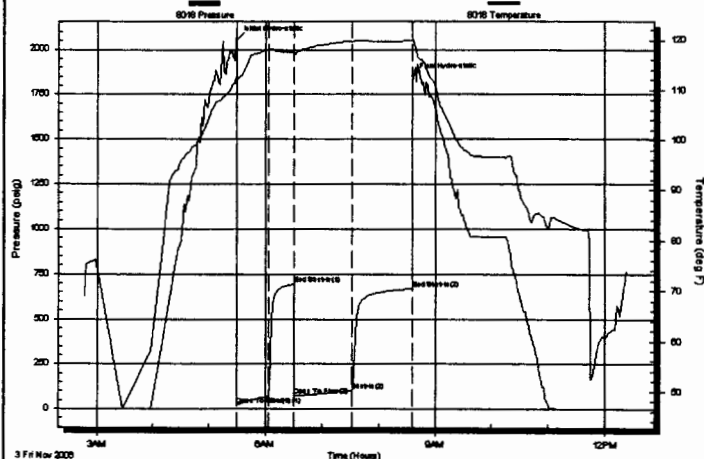
12:22:52

Time On Btmr: 2006.11.03 @ 05:29:52

Time Off Btmr: 2006.11.03 @ 08:35:21

TEST COMMENT: IF Weak to fair built to 5 "
ISI Dead
FF Weak to fair built to 5 "
FSI Weak surface blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2057.05	112.60	Initial Hydro-static
1	23.31	112.15	Open To Flow (1)
34	69.72	118.11	Shut-In(1)
60	694.72	117.55	End Shut-In(1)
61	74.07	117.27	Open To Flow (2)
122	101.53	119.73	Shut-In(2)
185	669.01	119.84	End Shut-In(2)
186	1850.54	120.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	SOGCWM 5%O 5%G 30%W 60%M	0.49
40.00	WMGO 5%G 10%W 40%M 45%OI	0.33
65.00	Clean Oil	0.91
0.00	45 gas in pipe	0.00

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 KS67202

ATTN: Flip Phillips

Witthuhn ' VM ' # 1-15

15 15S 21W Trego KS

Job Ticket: 26121

DST#: 1

Test Start: 2006.11.03 @ 02:45:52

Tool Information

Drill Pipe:	Length: 3910.00 ft	Diameter: 3.80 inches	Volume: 54.85 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 55.46 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4055.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	60.00 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			4028.00	
Shut In Tool	5.00			4033.00	
Hydraulic tool	5.00			4038.00	
Jars	5.00			4043.00	
Safety Joint	3.00			4046.00	
Packer	4.00			4050.00	28.00 Bottom Of Top Packer
Packer	5.00			4055.00	
Stubb	1.00			4056.00	
Perforations	3.00			4059.00	
Recorder	0.00	8018	Inside	4059.00	
Perforations	25.00			4084.00	
Recorder	0.00	13308	Outside	4084.00	
Bullnose	3.00			4087.00	32.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Petroleum LTD

225 N Market Ste 300
Wichita KS67202

ATTN: Flip Phillips

Witthuhn ' VM ' # 1-15

15 15S 21W Trego KS

Job Ticket: 26121

DST#: 1

Test Start: 2006.11.03 @ 02:45:52

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

35 deg API

36000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	SOGCWM 5%O 5%G 30%W 60%M	0.492
40.00	WMGCO 5%G 10%W 40%M 45%Oil	0.333
65.00	Clean Oil	0.912
0.00	45 gas in pipe	0.000

Total Length: 205.00 ft

Total Volume: 1.737 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

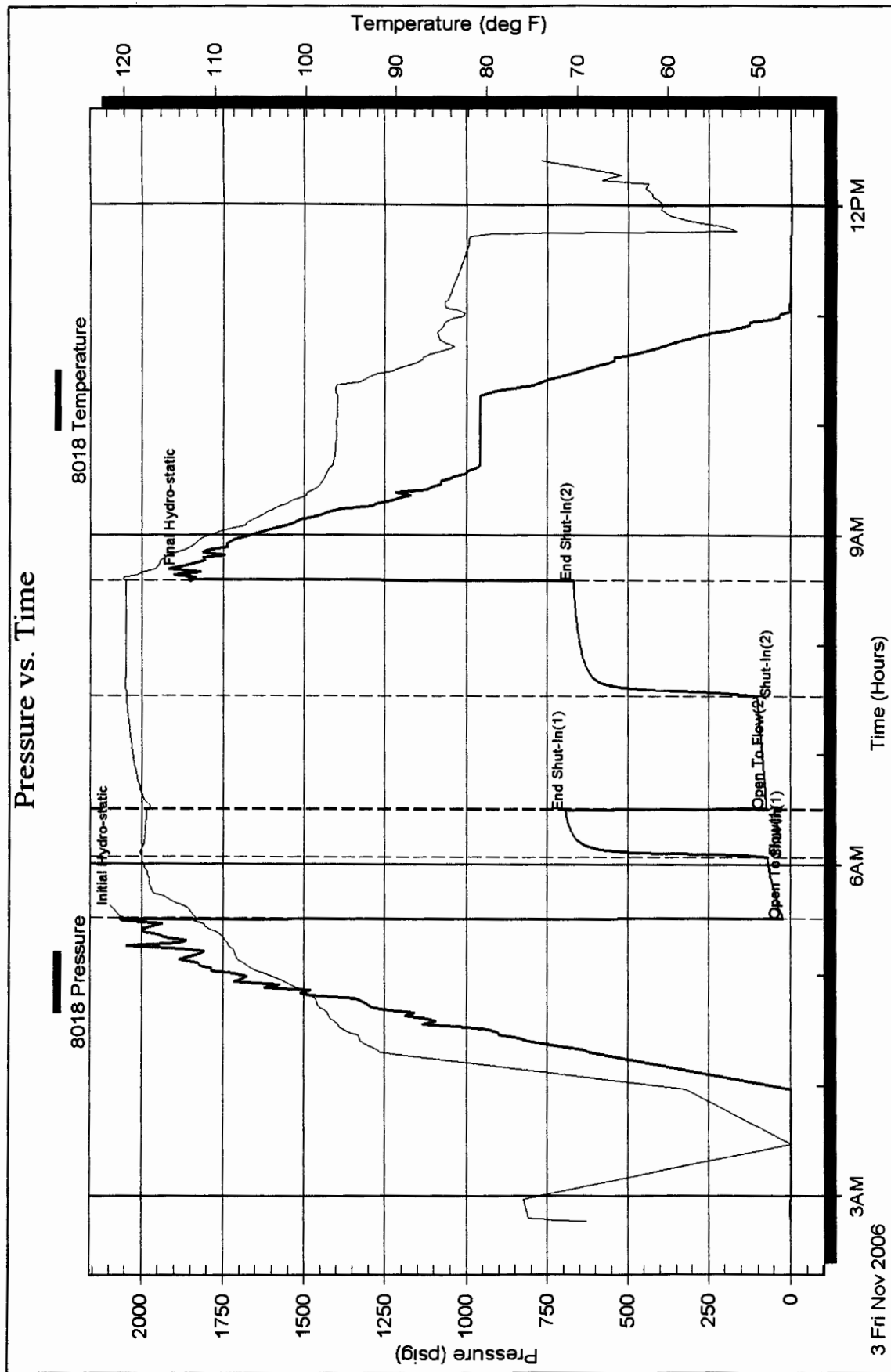
Serial #:

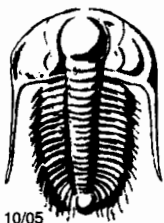
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9480

26121

Test Ticket

Well Name & No. WITTHUHN 'VM' # 1-15 Test No. #1 Date 11-3-06
 Company PINTAIL PETROLEUM, LTD. Zone Tested CHEROKEE
 Address 225 N. MARKET, SUITE 300 WICHITA, KS 67202 Elevation 2247 KB 2242 GL
 Co. Rep / Geo. DENNIS PHILLIPS Rig MURFIN #24
 Location: Sec. 15 Twp. 15s Rge. 21w Co. TREGO State KS
 Comment: _____ Release date / time: _____

Interval Tested 4055 To 4087 Initial Str Wt./Lbs. 56000 Unseated Str Wt./Lbs. 56000
 Anchor Length 32' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 4050 Tool Weight 2,600
 Bottom Packer Depth 4055 Hole Size 7 7/8" ☒ Rubber Size 6 3/4" ☒
 Total Depth 4087 Wt. Pipe Run 0 Drill Collar Run 125'
 Mud Wt. 9.0 LCM 0 Vis. 52 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3910
 Blow Description FF-WEAK TO FAIR BUILT 5" IN ISI-DEAD
FF-WEAK TO FAIR BUILT 5" IN. FST-WEAK SURFACE BLOW BACK.

Recovery - Total Feet 205' GIP 45 Ft. in DC 125 Ft. in DP 80
 Rec. 100 Feet of 50% CW M 5% gas 5% oil 30% water 60% mud
 Rec. 40' Feet of 0 W M 6 C OIL 5% gas 45% oil 10% water 40% mud
 Rec. 65' Feet of C. O. %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 119 °F Gravity 35 °API D @ 60 °F Corrected Gravity 35 °API
 RW .22 @ 64 °F Chlorides 36000 ppm Recovery - Chlorides 2,700 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2057</u> PSI	<u>8018</u>	<u>1206</u>	
(B) First Initial Flow Pressure	<u>23</u> PSI	<u>4059</u>	<u>250</u>	
(C) First Final Flow Pressure	<u>69</u> PSI	<u>13308</u>	<u>75</u>	
(D) Initial Shut-In Pressure	<u>694</u> PSI	<u>4084</u>		
(E) Second Initial Flow Pressure	<u>74</u> PSI			
(F) Second Final Flow Pressure	<u>101</u> PSI			
(G) Final Shut-In Pressure	<u>669</u> PSI	<u>Initial Opening</u>	<u>30</u>	
(Q) Final Hydrostatic Mud	<u>1927</u> PSI	<u>Initial Shut-In</u>	<u>30</u>	

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 Dennis Phillips

Our Representative John Schmidt

Recorder No. 8018 Test ☒ 1206
 (depth) 4059 Jars ☒ 250
 Recorder No. 13308 Safety Jt. ☒ 75
 (depth) 4084 Circ Sub _____
 Recorder No. _____ Sampler _____
 (depth) _____ Straddle _____
 Initial Opening 30 Ext. Packer _____
 Initial Shut-In 30 Shale Packer _____
 Final Flow 60 Ruined Packer _____
 Final Shut-In 60 Mileage RT-60 75
 T-On Location 00:00 Sub Total: _____
 T-Started 02:45 Std. By 325 325
 T-Open 05:30 Acc. Chg: _____
 T-Pulled 08:37 Other: _____
 T-Out 12:22 Total: \$1925.00

CHART PAGE

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

