15-195-22433

4-15s-21w



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum**

225 N. Market St Ste 300
Wichita KS 67202

ATTN: Flip Phillips

4 15S 21W Trego KS

Kuppetz TA #2-4

Start Date: 2007.02.19 @ 18:08:40
End Date: 2007.02.20 @ 01:50:00
Job Ticket #: 27500 DST #: 1

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

DRILL STEM TEST REPORT

Pintail Petroleum

225 N. Market St Ste 300
Wichita KS 67202

ATTN: Flip Phillips

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4 15S 21W Trego KS

Job Ticket: 27500 **DST#: 1**

Test Start: 2007.02.19 @ 18:08:40

GENERAL INFORMATION:

Formation: **Cherokee Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:04:20
Time Test Ended: 01:50:00

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 21

Interval: 3920.00 ft (KB) To 3980.00 ft (KB) (TVD)
Total Depth: 3980.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

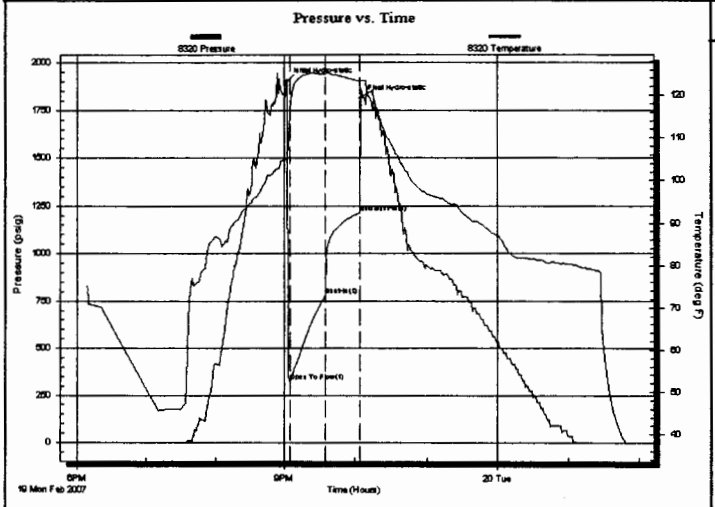
Reference Elevations: 2134.00 ft (KB)
2129.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8320 **Inside**

Press@RunDepth: 779.76 psig @ 3927.00 ft (KB)
Start Date: 2007.02.19 End Date: 2007.02.20
Start Time: 18:08:42 End Time: 01:50:00

Capacity: 7000.00 psig
Last Calib.: 2007.02.20
Time On Btm: 2007.02.19 @ 21:02:20
Time Off Btm: 2007.02.19 @ 22:04:29

TEST COMMENT: IFP BOB in 30 sec
ISI BOB in 4 min
FFP
FSI



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.10	104.93	Initial Hydro-static
2	323.25	114.48	Open To Flow (1)
33	779.76	125.11	Shut-In(1)
62	1212.79	123.23	End Shut-In(1)
63	1810.03	123.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCO 15%G 60%O 25%M	0.59
1890.00	CGO 20%G 80%O	25.68
30.00	GMO 10%G 80%O10%M	0.43
0.00	300 ' GIP	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pintail Petroleum

225 N. Market St Ste 300
Wichita KS 67202

ATTN: Flip Phillips

Kuppetz TA #2-4

4 15S 21W Trego KS

Job Ticket: 27500 **DST#: 1**

Test Start: 2007.02.19 @ 18:08:40

Tool Information

Drill Pipe:	Length:	3679.00 ft	Diameter:	3.82 inches	Volume:	52.15 bbl	Tool Weight:		2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:		60000.00 lb
					Total Volume:	53.33 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		27.00 ft					String Weight:	Initial	52000.00 lb
Depth to Top Packer:		3920.00 ft						Final	58000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		60.00 ft							
Tool Length:		88.00 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			3893.00		
Shut In Tool	5.00			3898.00		
Hydraulic tool	5.00			3903.00		
Jars	5.00			3908.00		
Safety Joint	2.00			3910.00		
Packer	5.00			3915.00	28.00	Bottom Of Top Packer
Packer	5.00			3920.00		
Stubb	1.00			3921.00		
Perforations	5.00			3926.00		
Change Over Sub	1.00			3927.00		
Recorder	0.00	8320	Inside	3927.00		
Blank Spacing	31.00			3958.00		
Change Over Sub	1.00			3959.00		
Perforations	18.00			3977.00		
Recorder	0.00	3351	Inside	3977.00		
Bullnose	3.00			3980.00	60.00	Bottom Packers & Anchor
Total Tool Length:	**88.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Petroleum

225 N. Market St Ste 300
Wichita KS 67202

ATTN: Flip Phillips

Kuppetz TA #2-4

4 15S 21W Trego KS

Job Ticket: 27500 **DST#: 1**

Test Start: 2007.02.19 @ 18:08:40

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	43 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.40 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

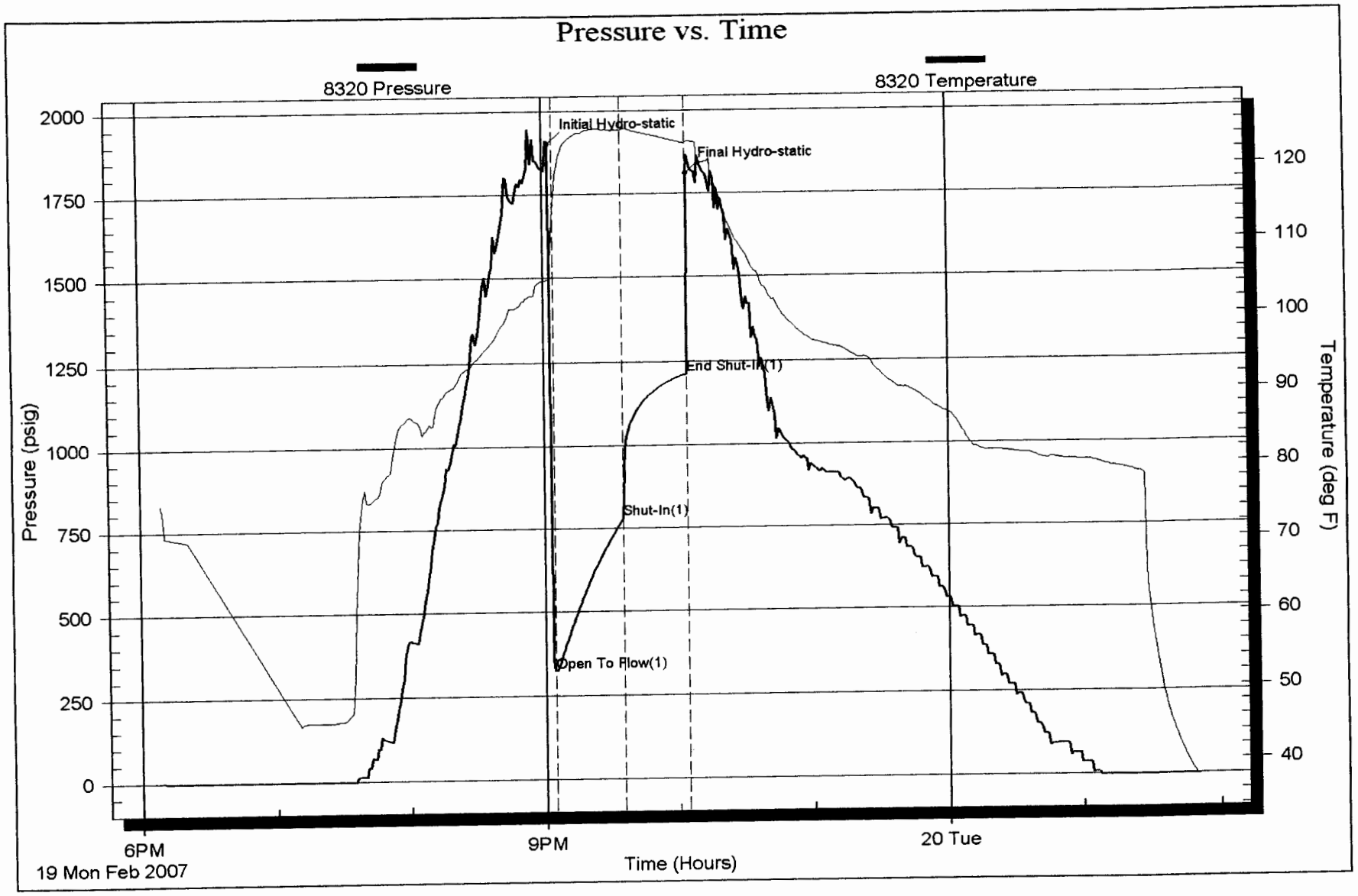
Length ft	Description	Volume bbl
120.00	GMCO 15%G 60%O 25%M	0.590
1890.00	CGO 20%G 80%O	25.681
30.00	GMO 10%G 80%O10%M	0.425
0.00	300 ' GIP	0.000

Total Length: 2040.00 ft Total Volume: 26.696 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8320 Pressure
8320 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Shut-In(1)
Open To Flow(1)
Pressure (psig)
Temperature (deg F)
2000
1750
1500
1250
1000
750
500
250
0
120
110
100
90
80
70
60
50
40
6PM
19 Mon Feb 2007
9PM
20 Tue
Time (Hours)

TRILOBITE TESTING INC.
P.O. Box 362 • Hays, Kansas 67601

10/05

27500

9868

Test Ticket

Well Name & No. Kuppetz TA #2-4 Test No. 1 Date 2-19-07

Company Pintail Petroleum Zone Tested Cherokee Sand

Address 225 N Market Ste 300 Wichita, KS 67202 Elevation 2134 KB 2129 GL

Co. Rep / Geo. Flip Phillips Rig Mallard

Location: Sec. 4 Twp. 15S Rge. 21W Co. Trego State KS

Comment: Release date / time:

Interval Tested 3920 - 3980 Initial Str Wt./Lbs. 52000 Unseated Str Wt/Lbs. 58000

Anchor Length 60 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60000

Top Packer Depth 3915 Tool Weight 2500

Bottom Packer Depth 3920 Hole Size 7 7/8" — Rubber Size 6 3/4" —

Total Depth 3980 Wt. Pipe Run — Drill Collar Run 240

Mud Wt. 9.0 LCM — Vis. 50 WL 7.4 Drill Pipe Size 4½ XH Ft. Run 3679

Blow Description IFP - BOB in 30 sec
ISI - BOB in 4 min
FFP -
FSI -

Recovery - Total Feet 2040 GIP 300 Ft. in DC 240 Ft. in DP 1800

Rec. 30	Feet of GMO	10 %gas	80 %oil	%water	10 %mud	
Rec. 1890	Feet of CGO	20 %gas	80 %oil	%water	%mud	
Rec. 120	Feet of GMCO	15 %gas	60 %oil	%water	25 %mud	
Rec.	Feet of	%gas	%oil	%water	%mud	
Rec.	Feet of	%gas	%oil	%water	%mud	

BHT 123 °F Gravity 41 °API D @ 40 °F Corrected Gravity 43 °API

RW @ °F Chlorides ppm Recovery Chlorides 3000 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud		1508	PSI	Recorder No.	8320	Test X	1100
(B) First Initial Flow Pressure		323	PSI	(depth)	3927	Jars X	250
(C) First Final Flow Pressure		780	PSI	Recorder No.	3351	Safety Jt. X	75
(D) Initial Shut-In Pressure		1213	PSI	(depth)	3977	Circ Sub	
(E) Second Initial Flow Pressure			PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			PSI	**Initial Opening**	30	Ext. Packer	
(Q) Final Hydrostatic Mud		1827	PSI	Initial Shut-In	30	Shale Packer	
				Final Flow	—	Ruined Packer	40
				Final Shut-In	—	Mileage X 56	
				T-On Location	17:50	Sub Total:	
				T-Started	19:08	Std. By	
				T-Open	21:01	Acc. Chg:	
				T-Pulled	22:01	Other:	
				T-Out	1:50	Total:	1495

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Approved By

Our Representative Flip Phillips

CHART PAGE

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

