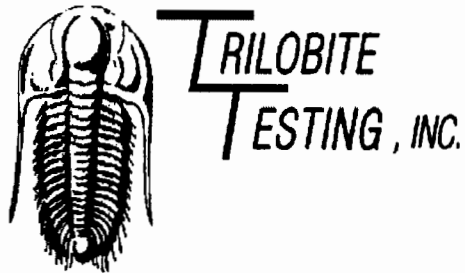


15-035-24220

10-30s-3E



DRILL STEM TEST REPORT

Prepared For: **Future Petroleum Company**

P.O. Box 540225
Houston, TX 77254

ATTN: Kent Chrisler

10-30s-3e Cowley KS

Pauly #1

Start Date: 2005.07.01 @ 03:40:33

End Date: 2005.07.01 @ 16:01:48

Job Ticket #: 20761 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

Future Petroleum Company

P.O. Box 540225
Houston, TX 77254

ATTN: Kent Chrisler

Pauly #1

10-30s-3e Cowley KS

Job Ticket: 20761

DST#: 1

Test Start: 2005.07.01 @ 03:40:33

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: Yes Whipstock: ft (KB)

Time Tool Opened: 06:59:33

Time Test Ended: 16:01:48

Test Type: Conventional Straddle

Tester: Jake Fahrenbruch

Unit No: 19

Interval: **2718.00 ft (KB) To 2750.00 ft (KB) (TVD)**

Total Depth: 2825.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1212.00 ft (KB)

1202.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6667

Inside

Press@RunDepth: 302.73 psig @ ft (KB)

Start Date: 2005.07.01

End Date:

2005.07.01

Start Time: 03:40:38

End Time:

16:01:48

Capacity: 7000.00 psig

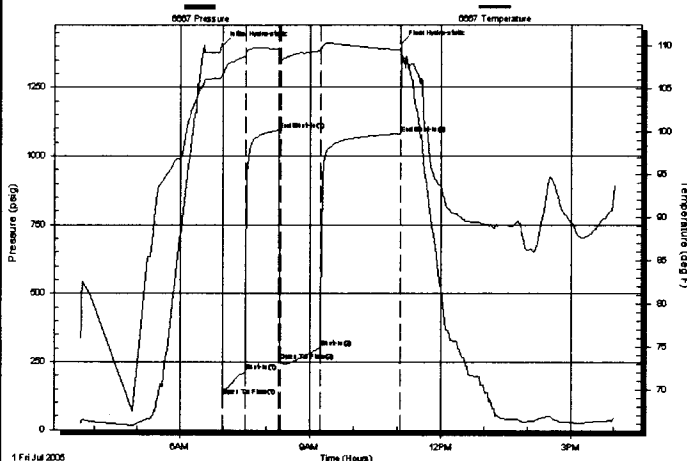
Last Calib.: 2005.07.01

Time On Btm: 2005.07.01 @ 06:59:03

Time Off Btm: 2005.07.01 @ 11:05:03

TEST COMMENT: IF: Fair to strong blow, BOB 10 minutes.
IS: Bled off, blow back 2".
FF: Fair to strong blow, BOB 15 minutes.
FS: Bled off, blow back 4.5".

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1404.78	106.67	Initial Hydro-static
1	124.96	106.37	Open To Flow (1)
32	214.11	108.81	Shut-In (1)
78	1093.60	109.59	End Shut-In (1)
80	253.33	108.52	Open To Flow (2)
136	302.73	109.42	Shut-In (2)
245	1080.45	109.49	End Shut-In (2)
246	1409.75	109.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	GWCOM 10%g 15%w 30%o 45%m	0.98
190.00	HGCMO 40%g 15%w 15%m 30%o	1.08
360.00	O 100%o	5.05
0.00	Gravity= 38 corrected	0.00
0.00	0	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

Future Petroleum Company

Pauly #1

P.O. Box 540225
Houston, TX 77254

10-30s-3e Cowley KS

Job Ticket: 20761

DST#: 1

ATTN: Kent Chrisler

Test Start: 2005.07.01 @ 03:40:33

Tool Information

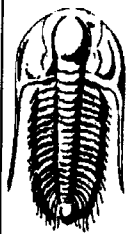
Drill Pipe:	Length: 2658.00 ft	Diameter: 3.80 inches	Volume: 37.28 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 374.00 ft	Diameter: 2.25 inches	Volume: 1.84 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	39.12 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	342.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2718.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	2750.00 ft			
Interval between Packers:	32.00 ft			
Tool Length:	135.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			2695.00	
Hydraulic tool	5.00			2700.00	
Jars	5.00			2705.00	
Safety Joint	3.00			2708.00	
Packer	5.00			2713.00	28.00 Bottom Of Top Packer
Packer	5.00			2718.00	
Stubb	1.00			2719.00	
Recorder	0.00	6667	Inside	2719.00	
Perforations	30.00			2749.00	
Recorder	0.00	11019	Outside	2749.00	
Blank Off Sub	1.00			2750.00	32.00 Tool Interval
Packer	3.00			2753.00	
Change Over Sub	1.00			2754.00	
Blank Spacing	62.00			2816.00	
Change Over Sub	1.00			2817.00	
Perforations	5.00			2822.00	
Recorder	0.00	6074	Outside	2822.00	
Bullnose	3.00			2825.00	75.00 Bottom Packers & Anchor

Total Tool Length: 135.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Future Petroleum Company

Pauly #1

P.O. Box 540225
Houston, TX 77254

10-30s-3e Cowley KS

Job Ticket: 20761

DST#: 1

ATTN: Kent Chrisler

Test Start: 2005.07.01 @ 03:40:33

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbl

Water Loss: 27.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 16800.00 ppm

Filter Cake: 0.04 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	GWCOM 10%g 15%w 30%o 45%m	0.984
190.00	HGCWMO 40%g 15%w 15%m 30%o	1.080
360.00	O 100%o	5.050
0.00	Gravity= 38 corrected	0.000
0.00	0	0.000

Total Length: 750.00 ft

Total Volume: 7.114 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

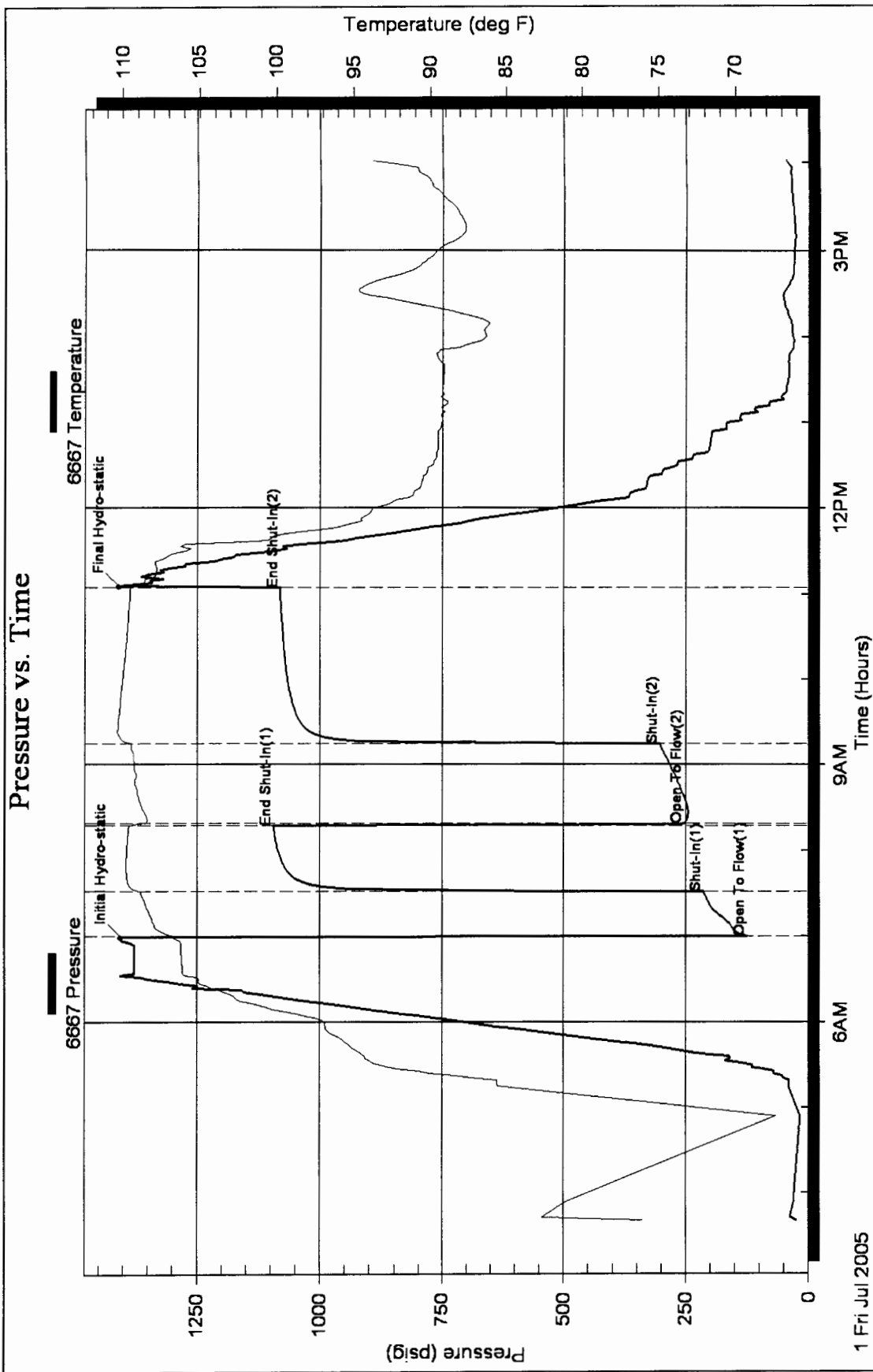
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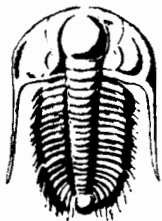
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV
7644

No 20761

Test Ticket

Well Name & No. Pauly #1 Test No. 1 Date 7-1-05
Company Future Petroleum Company, LLC. Zone Tested Arbuckle
Address P.O. Box 540225 Houston, TX 77254 Elevation 1212 KB 202 GL
Co. Rep / Geo. Kent Chrisler Cont. Gulick Drilling Co. Est. Ft. of Pay Por. %
Location: Sec. 10 Twp. 30s Rge. 3E Co. Cowley State Kansas
No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 2718-2750 Initial Str Wt./Lbs. 50000 Unseated Str Wt./Lbs. 55000
Anchor Length 32 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 70000
Top Packer Depth 2718 Tool Weight 2100
Bottom Packer Depth 2750 Hole Size 7 7/8" YES Rubber Size 6 3/4" YES
Total Depth 2825 Wt. Pipe Run NONE Drill Collar Run 374
Mud Wt. 9.4 LCM 4# Vis. 42 WL 28 Drill Pipe Size 4 1/2" XH Ft. Run 2658
Blow Description IF: Strong Fair to strong blow, BOB 10 minutes.
IS: Bled off. Blowback 2".
FF: Fair to strong blow, BOB 15 minutes.
FSD: Bled off. Blowback 4 1/2".

Recovery - Total Feet 750 GIP 500 Ft. in DC 374 Ft. in DP 376
Rec. 360 Feet of oil %gas 100 %oil %water %mud
Rec. 190 Feet of HGCWMD %gas 30 %oil 15 %water 15 %mud
Rec. 200 Feet of GWCOM %gas 45 %oil 15 %water 30 %mud
Rec. Feet of %gas %oil %water %mud
Rec. Feet of %gas %oil %water %mud
BHT 109 °F Gravity 33 °API D. @ 110 °F Corrected Gravity 38 °API
RW NC @ °F Chlorides ppm Recovery Chlorides 16,800 ppm System

AK-1 Alpine

(A) Initial Hydrostatic Mud	<u>1405</u> PSI	Recorder No.	<u>6667</u>	Test	<u>950</u>
(B) First Initial Flow Pressure	<u>125</u> PSI	(depth)	<u>2719</u>	Elec. Rec.	<u> </u>
(C) First Final Flow Pressure	<u>214</u> PSI	Recorder No.	<u>11019</u>	Jars	<u>200</u>
(D) Initial Shut-In Pressure	<u>1094</u> PSI	(depth)	<u>2747</u>	Safety Jt.	<u>50</u>
(E) Second Initial Flow Pressure	<u>253</u> PSI	Recorder No.	<u>6074</u>	Circ Sub	<u>NC</u>
(F) Second Final Flow Pressure	<u>303</u> PSI	(depth)	<u>2747</u>	Sampler	<u> </u>
(G) Final Shut-In Pressure	<u>1080</u> PSI	Initial Opening	<u>30</u>	Straddle	<u>250</u>
(Q) Final Hydrostatic Mud	<u>1410</u> PSI	Initial Shut-In	<u>45</u>	Ext. Packer	<u>150</u>
		Final Flow	<u>60</u>	Shale Packer	<u> </u>
		Final Shut-In	<u>90</u>	Mileage	<u>222 222</u>
		T-On Location	<u>0200</u>	Sub Total:	<u>1822</u>
		T-Started	<u>0340</u>	Std. By	<u>4 1/2 hours 120</u>
		T-Open	<u>0659</u>	Other	<u>30</u>
		T-Pulled	<u>1105</u>	Total:	<u>\$1972</u>
		T-Out	<u>1430</u>		

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Approved By Kent Chrisler

Our Representative Scott Schubert

CHART PAGE

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

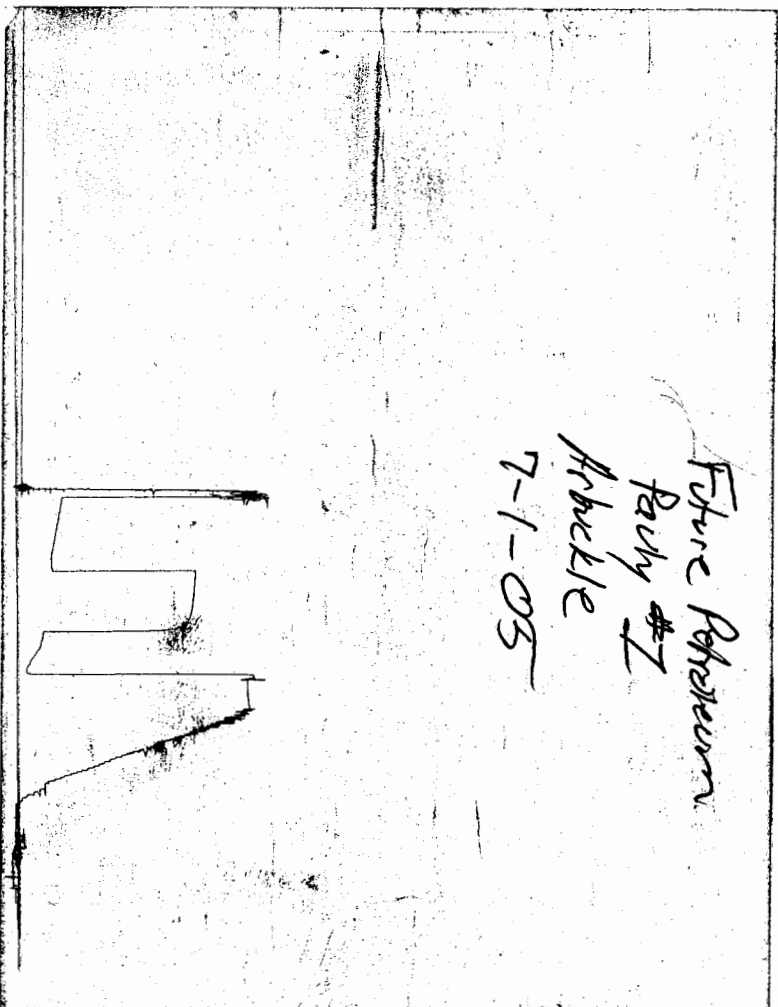


CHART PAGE
This is a photocopy of the actual AK-1 recorder chart.

