

DRILL STEM TEST REPORT

Prepared For: **Samuel Gayr Jr. & Associates, Inc.**

1670 Broadway
Ste 3300
Denver, CO 80202

ATTN: Jason Brand

S - KGS DRL
8-18~~1~~-9w Rice KS

Rolfs #1-8

Start Date: 2005.07.26 @ 15:21:19

End Date: 2005.07.26 @ 22:18:04

Job Ticket #: 21480 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

Samuel Gayr Jr. & Associates, Inc.

1670 Broadway
Ste 3300
Denver, CO 80202
ATTN: Jason Brand

Rolfs #1-8

8-18⁵ 9w Rice KS

Job Ticket: 21480

DST#: 1

Test Start: 2005.07.26 @ 15:21:19

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 16:56:19

Time Test Ended: 22:18:04

Test Type: **Conventional Bottom Hole**

Tester: **Davy Cline**

Unit No: **24**

Interval: **3219.00 ft (KB) To 3243.00 ft (KB) (TVD)**

Total Depth: **3243.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1850.00 ft (KB)**

1845.00 ft (CF)

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

Serial #: **6753**

Inside

Press@RunDepth: **182.41 psig @ 3220.00 ft (KB)**

Start Date: **2005.07.26**

End Date:

2005.07.26

Capacity: **7000.00 psig**

Last Calib.: **2005.07.26**

Start Time: **15:21:20**

End Time:

22:18:04

Time On Btm: **2005.07.26 @ 16:54:49**

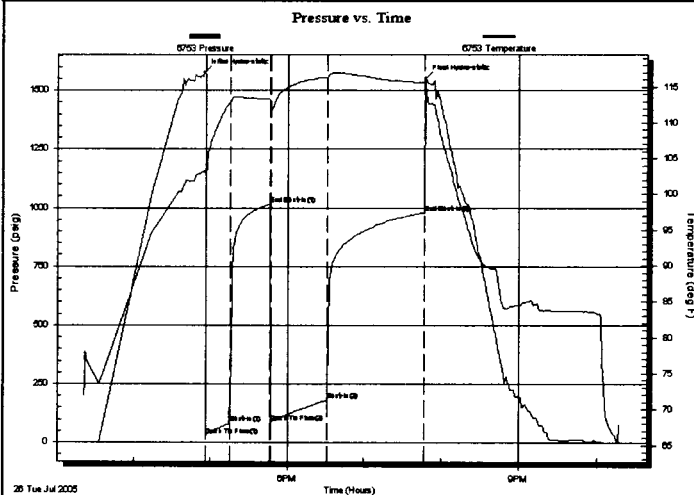
Time Off Btm: **2005.07.26 @ 19:47:49**

TEST COMMENT: **IF: Strong blow. BOB 7 min.**

IS: Bled off for 5 min. Had a slow increasing blow to 5 inches in water.

FF: Fair blow. BOB 4 min.

FS: Bled off for 5 min. No blow back.



PRESSURE SUMMARY

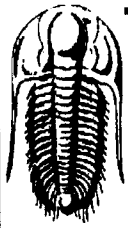
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1574.96	103.25	Initial Hydro-static
2	31.39	102.59	Open To Flow (1)
21	81.27	112.84	Shut-In(1)
52	1014.69	113.26	End Shut-In(1)
52	88.59	112.52	Open To Flow (2)
97	182.41	116.24	Shut-In(2)
173	979.41	115.54	End Shut-In(2)
173	1550.04	115.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
400.00	Free Oil 100% o	4.10
30.00	G & SOCM 45%g 5%o 50%m	0.31
0.00	250' Gas in pipe	0.00

Gas Rates

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

Samuel Gayr Jr. & Associates, Inc.

1670 Broadway
Ste 3300
Denver, CO 80202
ATTN: Jason Brand

Rolfs #1-8

8-18^J 9w Rice KS

Job Ticket: 21480

DST#: 1

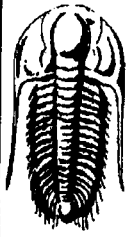
Test Start: 2005.07.26 @ 15:21:19

Tool Information

Drill Pipe:	Length: 3218.00 ft	Diameter: 3.25 inches	Volume: 33.02 bbl	Tool Weight: 2400.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 30000.00 lb
		Total Volume:	33.02 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 26000.00 lb
Depth to Top Packer:	3219.00 ft			Final 28000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	55.00 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			3189.00	
Shut In Tool	5.00			3194.00	
Sampler	3.00			3197.00	
Hydraulic tool	5.00			3202.00	
Jars	5.00			3207.00	
Safety Joint	2.00			3209.00	
Packer	5.00			3214.00	31.00 Bottom Of Top Packer
Packer	5.00			3219.00	
Stubb	1.00			3220.00	
Recorder	0.00	6753	Inside	3220.00	
Perforations	20.00			3240.00	
Recorder	0.00	10330	Outside	3240.00	
Bullnose	3.00			3243.00	24.00 Bottom Packers & Anchor

Total Tool Length: 55.00



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FLUID SUMMARY

Samuel Gayr Jr. & Associates, Inc.

Rolls #1-8

1670 Broadway

Ste 3300

Denver, CO 80202

ATTN: Jason Brand

8-18^S-9w Rice KS

Job Ticket: 21480

DST#: 1

Test Start: 2005.07.26 @ 15:21:19

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 10.19 in³

Resistivity: ohm.m

Salinity: 6100.00 ppm

Filter Cake: 0.10 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

45 deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
400.00	Free Oil 100% o	4.104
30.00	G & SOCM 45%g 5%o 50%m	0.308
0.00	250' Gas in pipe	0.000

Total Length: 430.00 ft Total Volume: 4.412 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

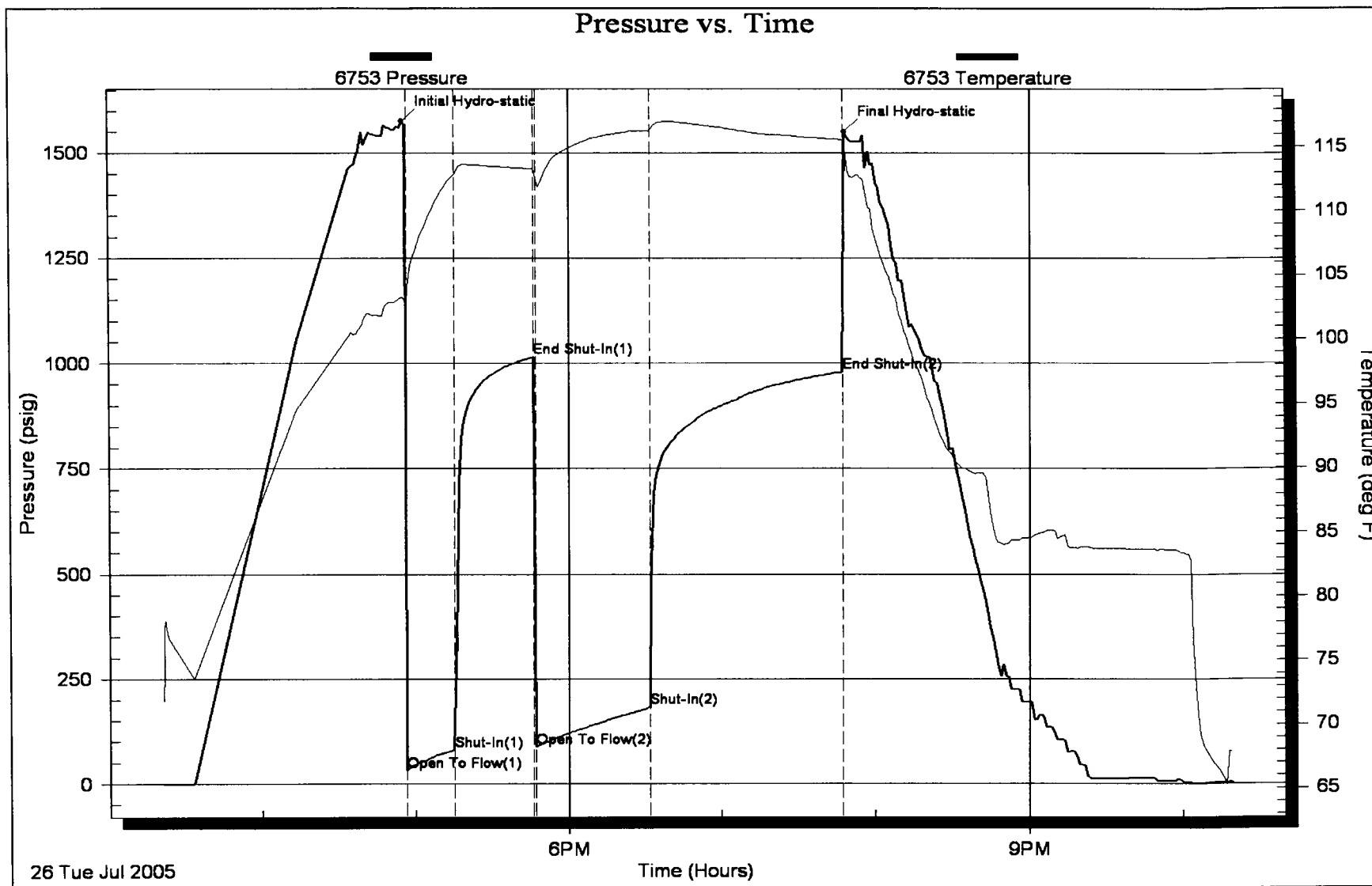
Recovery Comments: Sampler Recovery- .375 cu. ft. gas 1900ml oil @ 100 lbs.

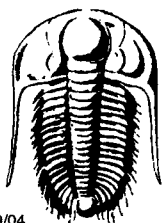
Serial #: 6753

Inside Samuel Gayr Jr. & Associates, Inc.

5
8-18-9w Rice KS

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 21480

INV
7735

Test Ticket

Well Name & No. <u>Rolfs #1-8</u>	Test No. <u>1</u>	Date <u>7-26-05</u>
Company <u>Samuel Gary Jr. & Associates, Inc.</u>	Zone Tested <u>Arbuckle</u>	
Address <u>1670 Broadway Ste. 3300 Denver, CO 80202</u>	Elevation <u>1850</u>	KB <u>1845</u> GL
Co. Rep / Geo. <u>Jason Brand</u>	Cont. <u>Petromark Drilling #2</u>	Est. Ft. of Pay <u>—</u> Por. <u>—</u> %
Location: Sec. <u>8</u> Twp. <u>18s</u> Rge. <u>9w</u> Co. <u>Rice</u>	State <u>KS</u>	
No. of Copies <u>5</u>	Disbtribution Sheet (Y, N) <u>—</u>	Turnkey (Y, N) <u>—</u> Evaluation (Y, N) <u>—</u>

Interval Tested <u>3219 - 3243</u>	Initial Str Wt./Lbs. <u>26,000</u>	Unseated Str Wt./Lbs. <u>28,000</u>
Anchor Length <u>24'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>30,000</u>
Top Packer Depth <u>3214</u>	Tool Weight <u>2400</u>	
Bottom Packer Depth <u>3219</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3243</u>	Wt. Pipe Run <u>—</u>	Drill Collar Run <u>0</u>
Mud Wt. <u>9.2</u> LCM <u>—</u> Vis. <u>44</u> WL <u>10.2</u>	Drill Pipe Size <u>4 1/2" XH</u>	Ft. Run <u>3218</u>

Blow Description IF: Strong blow. BOB 7 min.
ISI: Bled off for 5 min. Had a slow increasing blow to 5 inches in water.
FF: Fair blow. BOB 4 min.
FSI: Bled off for 5 min. No blow back.

Recovery - Total Feet <u>430</u>	GIP <u>yes</u>	Ft. in DC <u>0</u>	Ft. in DP <u>430</u>
Rec. <u>400</u>	Feet of <u>Free Oil</u>	%gas	%oil %water %mud
Rec. <u>30</u>	Feet of <u>6' SOCM</u>	<u>45</u> %gas	<u>5</u> %oil %water <u>50</u> %mud
Rec. <u>—</u>	Feet of <u>—</u>	%gas	%oil %water %mud
Rec. <u>—</u>	Feet of <u>250' GIP</u>	%gas	%oil %water %mud
Rec. <u>—</u>	Feet of <u>—</u>	%gas	%oil %water %mud
BHT <u>116</u> °F Gravity <u>44</u>	°API D @ <u>70</u>	°F Corrected Gravity <u>45</u>	°API
RW <u>No</u> ✓ @ <u>—</u> °F	Chlorides <u>—</u> ppm Recovery	Chlorides <u>6100</u>	ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1575</u> PSI	Alpine	Recorder No. <u>6753</u>	Test <u>✓</u>
(B) First Initial Flow Pressure	<u>31</u> PSI		(depth) <u>3220</u>	Jars <u>✓</u>
(C) First Final Flow Pressure	<u>81</u> PSI		Recorder No. <u>10330</u>	Safety Jt. <u>✓</u>
(D) Initial Shut-In Pressure	<u>1015</u> PSI		(depth) <u>3240</u>	Circ Sub <u>✓</u> <u>NC</u>
(E) Second Initial Flow Pressure	<u>89</u> PSI		Recorder No. <u>—</u>	Sampler <u>✓</u>
(F) Second Final Flow Pressure	<u>182</u> PSI		(depth) <u>—</u>	Straddle <u>—</u>
(G) Final Shut-In Pressure	<u>979</u> PSI	Initial Opening	<u>20</u>	Ext. Packer <u>—</u>
(Q) Final Hydrostatic Mud	<u>1550</u> PSI	Initial Shut-In	<u>30</u>	Shale Packer <u>—</u>
		Final Flow	<u>45</u>	Ruined Packer <u>—</u>
		Final Shut-In	<u>75</u>	Mileage <u>165 total</u>
		T-On Location	<u>14:15</u>	Sub Total: <u>\$1565</u>
		T-Started	<u>15:21</u>	Std. By <u>—</u>
		T-Open	<u>16:56</u>	Other <u>—</u>
		T-Pulled	<u>19:41</u>	Total: <u>—</u>
		T-Out	<u>22:18</u>	

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Approved By [Signature]

Our Representative [Signature]

CHART PAGE

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

