

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Associates Inc**

1670 Broadway Ste 3300
Denver CO 80202

ATTN: Tom Fertal

36 20S 11W Barton KS

Hammeke #1-36

Start Date: 2007.03.19 @ 09:50:43

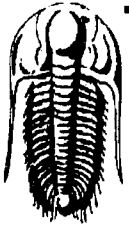
End Date: 2007.03.19 @ 17:23:07

Job Ticket #: 28221 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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Job Ticket: 28221

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Test Start: 2007.03.19 @ 09:50:43

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:31:38

Time Test Ended: 17:23:07

Test Type: Conventional Straddle

Tester: Ray Schwager

Unit No: 28

Interval: **3304.00 ft (KB) To 3321.00 ft (KB) (TVD)**

Total Depth: 3400.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1768.00 ft (KB)

1762.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6753 Inside

Press@RunDepth: 234.41 psig @ 3305.01 ft (KB)

Start Date: 2007.03.19

End Date:

2007.03.19

Start Time: 09:50:43

End Time:

17:23:07

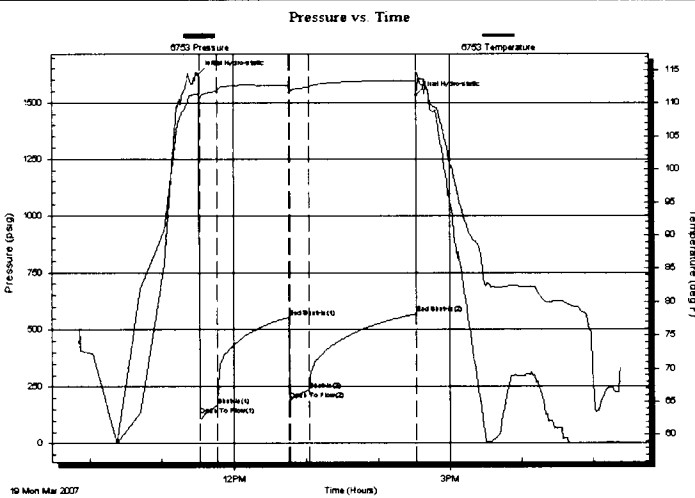
Capacity: 7000.00 psig

Last Calib.: 2007.03.19

Time On Btm: 2007.03.19 @ 11:31:08

Time Off Btm: 2007.03.19 @ 14:32:07

TEST COMMENT: IFP Strg bl in 30 sec
FFP Strg bl thru-out
ISIP Strg bl bk
FSIP Strg bl bk Time 15 60 15 90



PRESSURE SUMMARY

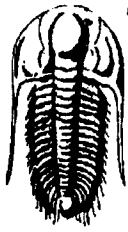
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1624.33	111.36	Initial Hydro-static
1	125.14	109.69	Open To Flow (1)
15	165.78	111.82	Shut-In(1)
75	552.00	112.70	End Shut-In(1)
75	191.24	111.71	Open To Flow(2)
91	234.41	112.40	Shut-In(2)
181	568.99	113.43	End Shut-In(2)
181	1533.18	114.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMO 20%G 40%O 40%M	0.59
480.00	CO	4.49
0.00	2340' GIP	0.00

Gas Rates

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



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TOOL DIAGRAM

Samuel Gary Jr & Associates Inc

Hammeke #1-36

1670 Broadway Ste 3300
Denver CO 80202

36 20S 11W Barton KS

Job Ticket: 28221

DST#: 1

ATTN: Tom Fertal

Test Start: 2007.03.19 @ 09:50:43

Tool Information

Drill Pipe:	Length: 3054.00 ft	Diameter: 3.34 inches	Volume: 33.10 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 34.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3304.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	3321.02 ft			
Interval between Packers:	17.02 ft			
Tool Length:	128.03 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3277.00	
Shut In Tool	5.00			3282.00	
Hydraulic tool	5.00			3287.00	
Jars	5.00			3292.00	
Safety Joint	2.00			3294.00	
Packer	5.00			3299.00	28.00 Bottom Of Top Packer
Packer	5.00			3304.00	
Stubb	1.00			3305.00	
Recorder	0.01	6753	Inside	3305.01	
Perforations	5.00			3310.01	
Recorder	0.01	13534	Outside	3310.02	
Perforations	7.00			3317.02	
Blank Off Sub	1.00			3318.02	
Blank Spacing	3.00			3321.02	17.02 Tool Interval
Packer	5.00			3326.02	
Stubb	1.00			3327.02	
Recorder	0.01	13547	Below	3327.03	
Perforations	11.00			3338.03	
Blank Spacing	63.00			3401.03	
Bullnose	3.00			3404.03	83.01 Bottom Packers & Anchor

Total Tool Length: 128.03



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FLUID SUMMARY

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Hammeke #1-36

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Denver CO 80202

36 20S 11W Barton KS

Job Ticket: 28221

DST#: 1

ATTN: Tom Fertal

Test Start: 2007.03.19 @ 09:50:43

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: 44.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.95 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4700.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GMO 20%G 40%O 40%M	0.590
480.00	CO	4.491
0.00	2340' GIP	0.000

Total Length: 600.00 ft Total Volume: 5.081 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

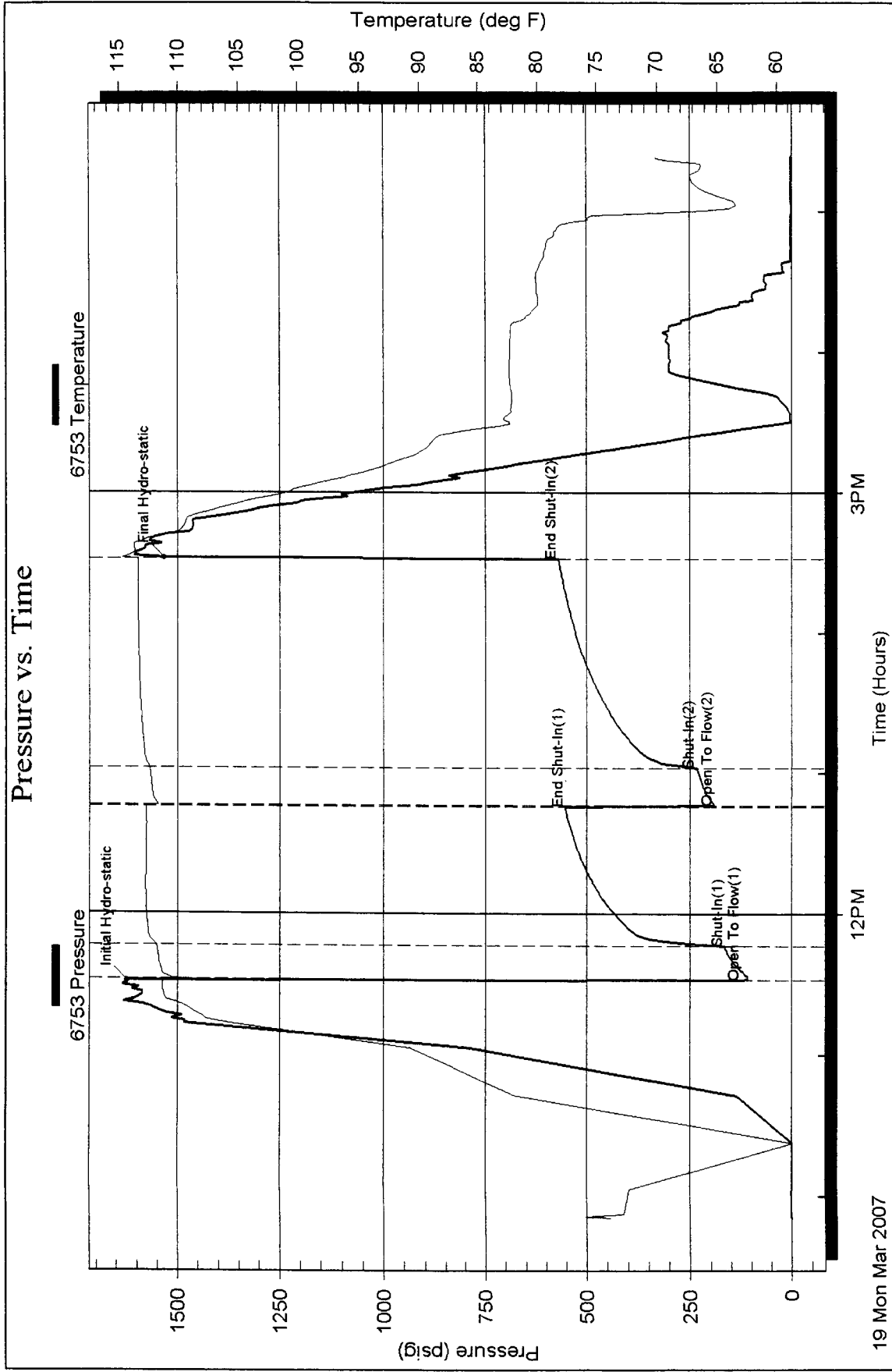
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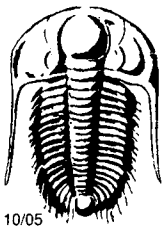
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9951 ✓

28221 ✓

Test Ticket

Well Name & No. Hammeke #1-36 Test No. 1 Date 3-19-07
 Company Samuel Gary Jr & Associates Inc Zone Tested Arbuckle
 Address 1670 Broadway, suite 3300 Denver, Co 80202 Elevation 1768 KB 1762 GL
 Co. Rep / Geo. Tom Ferial Rig Excell Dalg rig 10
 Location: Sec. 36 Twp. 20^s Rge. 11^w Co. Barton State Ko
 Comment: _____ Release date / time: _____

Interval Tested 3304-3321 Initial Str Wt./Lbs. 40000 Unseated Str Wt/Lbs. 43000
 Anchor Length 17 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 55000
 Top Packer Depth 3304-3299 Tool Weight 2200
 Bottom Packer Depth 3321 Hole Size 7 7/8" - Rubber Size 6 3/4" -
 Total Depth 3400 Wt. Pipe Run 180 Drill Collar Run 60
 Mud Wt. 9.3 LCM - Vis. 44 WL 10 Drill Pipe Size 4" FH Ft. Run 3054

Blow Description TFP - STRONG BLOW IN 30 sec
FFP - STRONG BLOW Thru-out
ISIP - STRONG BLOW BACK
FSIP - STRONG BLOW BACK

Recovery - Total Feet 600 GIP 2340 Ft. in DC ~~300~~ 240 Ft. in DP 360
 Rec. 120 Feet of GMO 20 %gas 40 %oil _____ %water 40 %mud _____
 Rec. 480 Feet of CO %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 113 °F Gravity 43 °API D @ 60 °F Corrected Gravity 43 °API
 RW - @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4700 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1585 PSI	Recorder No.	<u>6753</u>	Test	✓	<u>1100</u>
(B) First Initial Flow Pressure			<u>125</u> PSI	(depth)	<u>3305</u>	Jars	✓	<u>250</u>
(C) First Final Flow Pressure			<u>165</u> PSI	Recorder No.	<u>13534</u>	Safety Jt.	✓	<u>75</u>
(D) Initial Shut-In Pressure			<u>552</u> PSI	(depth)	<u>3310</u>	Circ Sub	✓	<u>50</u>
(E) Second Initial Flow Pressure			<u>191</u> PSI	Recorder No.	<u>13547</u>	Sampler		
(F) Second Final Flow Pressure			<u>234</u> PSI	(depth)	<u>3322</u>	Straddle	✓	<u>600</u>
(G) Final Shut-In Pressure			<u>569</u> PSI	Initial Opening	<u>15</u>	Ext. Packer	✓	<u>NK</u>
(Q) Final Hydrostatic Mud			<u>1577</u> PSI	Initial Shut-In	<u>60</u>	Shale Packer		
				Final Flow	<u>15</u>	Ruined Packer		
				Final Shut-In	<u>90</u>	Mileage	✓	<u>162 RT 22.5</u>
				T-On Location	<u>0915</u>	Sub Total:		
				T-Started	<u>0950</u>	Std. By		
				T-Open	<u>1130</u>	Acc. Chg:		
				T-Pulled	<u>1430</u>	Other:		
				T-Out	<u>1723</u>	Total:		<u>\$2277.5</u>

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Approved By _____

Our Representative Ray Schwager Thank you

CHART PAGE

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

13547
05T#1
SAM GARY

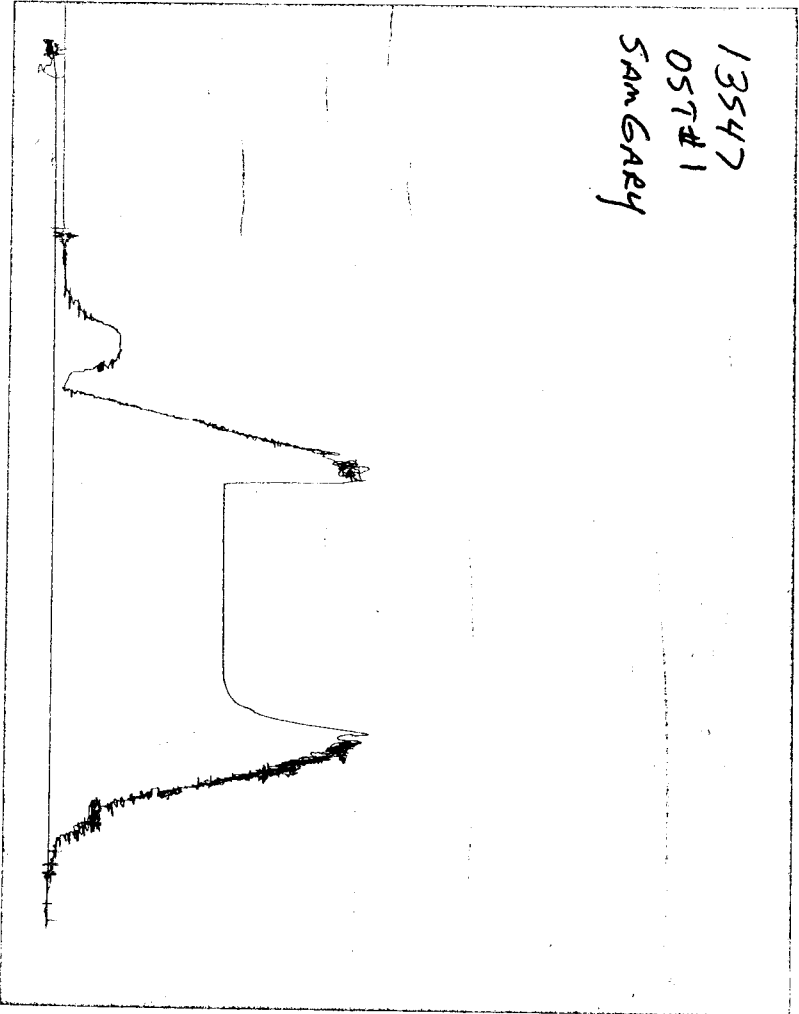


CHART PAGE

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

