

DRILL STEM TEST REPORT

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

1670 Broadway Ste 3300
Denver CO 80202

ATTN: Justin

19 18 9 Rice KS

Boldt 2-19

Start Date: 2007.01.10 @ 13:08:39

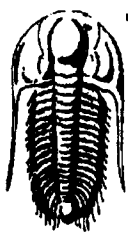
End Date: 2007.01.10 @ 23:58:54

Job Ticket #: 25895 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 Gary Jr Associates Inc

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Denver CO 80202

ATTN: Justin

Boldt 2-19

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Job Ticket: 25895

DST#: 1

Test Start: 2007.01.10 @ 13:08:39

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:33:09

Time Test Ended: 23:58:54

Test Type: Conventional Straddle

Tester: Travy Cushenbery

Unit No: 30

Interval: 3224.00 ft (KB) To 3243.00 ft (KB) (TVD)

Total Depth: 3304.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1726.00 ft (KB)

1720.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6668

Inside

Press@RunDepth: 231.59 psig @ 3224.00 ft (KB)

Start Date: 2007.01.10

End Date:

2007.01.10

Capacity: 7000.00 psig

Last Calib.: 2007.01.11

Start Time: 13:08:44

End Time:

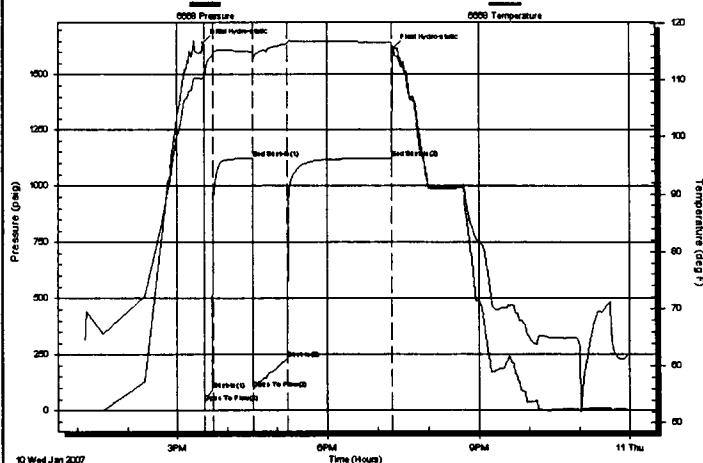
23:58:54

Time On Btm: 2007.01.10 @ 15:31:24

Time Off Btm: 2007.01.10 @ 19:18:54

TEST COMMENT: IF Fair blow BOB in 15 mins.
ISI Bled off No blow back
FF Fair blow BOB in 20 mins.
FSI Bled off No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.29	110.31	Initial Hydro-static
2	36.56	110.55	Open To Flow (1)
12	92.95	114.26	Shut-In (1)
60	1122.38	115.00	End Shut-In (1)
61	95.00	113.91	Open To Flow (2)
102	231.59	116.42	Shut-In (2)
226	1122.29	116.55	End Shut-In (2)
228	1618.06	115.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	Muddy Water 80%W 20%M	0.30
183.00	GOCMW 10%G 40%O 10%W 40%M	0.90
317.00	Gassy Oil 30%G 70%O	2.24

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr Associates Inc

Boldt 2-19

1670 Broadway Ste 3300
Denver CO 80202

19 18 9 Rice KS

Job Ticket: 25895

DST#: 1

ATTN: Justin

Test Start: 2007.01.10 @ 13:08:39

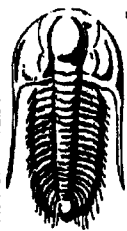
Tool Information

Drill Pipe:	Length: 2963.00 ft	Diameter: 2.70 inches	Volume: 20.98 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 61.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 45000.00 lb
			Total Volume: 22.18 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3224.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	3243.00 ft			
Interval between Packers:	19.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3201.00	
Hydraulic tool	5.00			3206.00	
Jars	5.00			3211.00	
Safety Joint	3.00			3214.00	
Packer	5.00			3219.00	28.00 Bottom Of Top Packer
Packer	5.00			3224.00	
Recorder	0.00	6668	Inside	3224.00	
Perforations	18.00			3242.00	
Recorder	0.00	13266	Outside	3242.00	
Blank Off Sub	1.00			3243.00	19.00 Tool Interval
Packer	5.00			3248.00	
Stubb	1.00			3249.00	
Perforations	10.00			3259.00	
Change Over Sub	1.00			3260.00	
Drill Pipe	31.00			3291.00	
Change Over Sub	1.00			3292.00	
Perforations	6.00			3298.00	
Recorder	0.00	13363	Outside	3298.00	
Bullnose	3.00			3301.00	58.00 Bottom Packers & Anchor

Total Tool Length: 105.00



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FLUID SUMMARY

Samuel Gary Jr Associates Inc

Boldt 2-19

1670 Broadway Ste 3300
Denver CO 80202

19 18 9 Rice KS

Job Ticket: 25895

DST#: 1

ATTN: Justin

Test Start: 2007.01.10 @ 13:08:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

4200 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.74 in³

Gas Cushion Type:

Resistivity: 1.78 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	Muddy Water 80%W 20%M	0.300
183.00	GOCMW 10%G 40%O 10%W 40%M	0.900
317.00	Gassy Oil 30%G 70%O	2.245

Total Length: 561.00 ft

Total Volume: 3.899 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

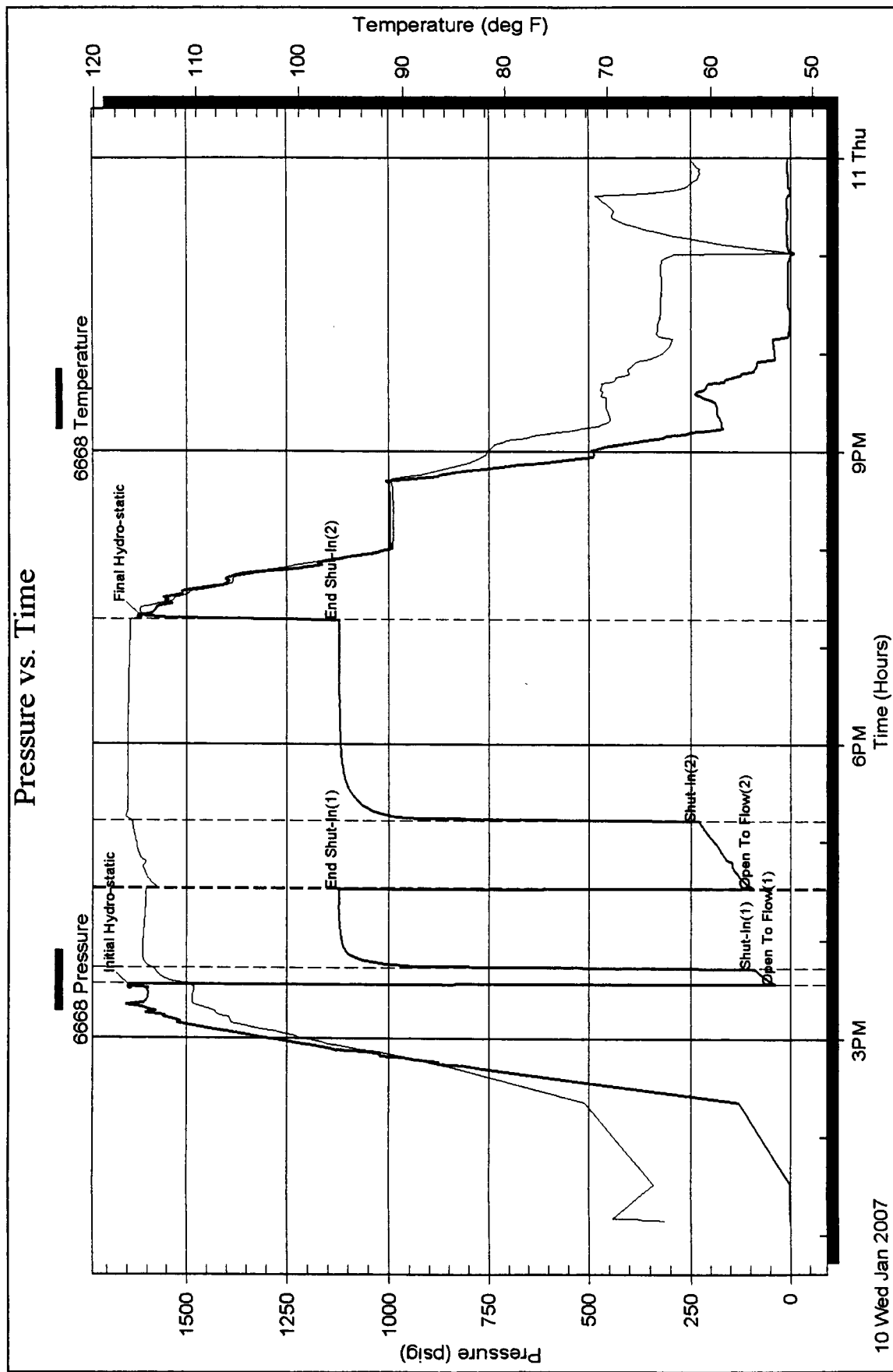
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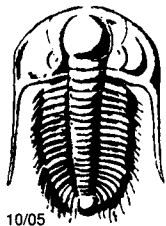
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25895

9735

Test Ticket

Well Name & No. <u>Boldt 2-19</u>	Test No. <u>#1</u>	Date <u>1-9-07</u>
Company <u>Samuel Gange Associates Inc.</u>	Zone Tested <u>Arbuckle</u>	
Address <u>1670 Broadway, Suite 3300, Denver CO. 80202</u>	Elevation <u>1726'</u>	KB <u>1720'</u> GL
Co. Rep / Geo. <u>Justin</u>	Rig <u>Excell Rig #10</u>	
Location: Sec. <u>19</u> Twp. <u>18</u> Rge. <u>9</u>	Co. <u>Rice</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested 3224' - 3243' Initial Str Wt./Lbs. 40,000 Unseated Str Wt./Lbs. 42,000
 Anchor Length 19' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 45,000
 Top Packer Depth 3229' Tool Weight 2,100 lbs
 Bottom Packer Depth 3224' - 3243' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3304 Wt. Pipe Run 183' Drill Collar Run 61'
 Mud Wt. 9.5 LCM 1 Vis. 108 WL 8.8 Drill Pipe Size 4 1/2 FH Ft. Run 2963'

Blow Description IF: Fair blow. B.O.B. in 15 mins.

ISI: Bled off. No blow back.

FF: Fair blow. B.O.B. in 20 mins.

FSI: Bled off. No blow back.

Recovery - Total Feet <u>317'</u>	GIP <u>165'</u>	Ft. in DC <u>61'</u>	Ft. in DP <u>317'</u>
Rec. <u>317'</u>	Feet of <u>Gas, Oil</u>	30% gas	70% oil
Rec. <u>183'</u>	Feet of <u>Gas, Oil Cut Muddy</u>	10% gas	40% oil
Rec. <u>61'</u>	Feet of <u>Water</u>	% gas	% oil
Rec. <u>61'</u>	Feet of <u>Muddy Water</u>	% gas	% oil
Rec. _____	Feet of _____	% gas	% oil
BHT <u>117</u>	*F Gravity _____	*API D @ _____	*F Corrected Gravity _____
RW <u>1.7822</u>	@ <u>56</u> *F	Chlorides _____ ppm	Recovery <u>4,200</u> Chlorides <u>4,400</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1,1642</u> PSI	Alpine	Recorder No. <u>6668</u>	Test <u>✓</u>
(B) First Initial Flow Pressure	<u>37</u> PSI		(depth) <u>3224'</u>	Jars <u>✓</u>
(C) First Final Flow Pressure	<u>93</u> PSI		Recorder No. <u>13266</u>	Safety Jt. <u>✓</u>
(D) Initial Shut-In Pressure	<u>1,122</u> PSI		(depth) <u>3242'</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>95</u> PSI		Recorder No. <u>90330 10330</u>	Sampler _____
(F) Second Final Flow Pressure	<u>232</u> PSI		(depth) <u>3293'</u>	Straddle <u>✓</u>
(G) Final Shut-In Pressure	<u>1,122</u> PSI	Initial Opening	<u>15 mins.</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1,1618</u> PSI	Initial Shut-In	<u>45 mins.</u>	Shale Packer _____
		Final Flow	<u>45 mins</u>	Ruined Packer _____
		Final Shut-In	<u>120 mins</u>	Mileage <u>✓ 166 mile</u>

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Approved By Justin

Our Representative Travis L. Kenney

T-On Location 11:30

T-Started 13:08

T-Open 15:31

T-Pulled 19:15

T-Out 23:58

Sub Total: _____

Std. By ✓ 4 1/2 h

Acc. Chg: _____

Other: _____

Total: 2682.50

CHART PAGE

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

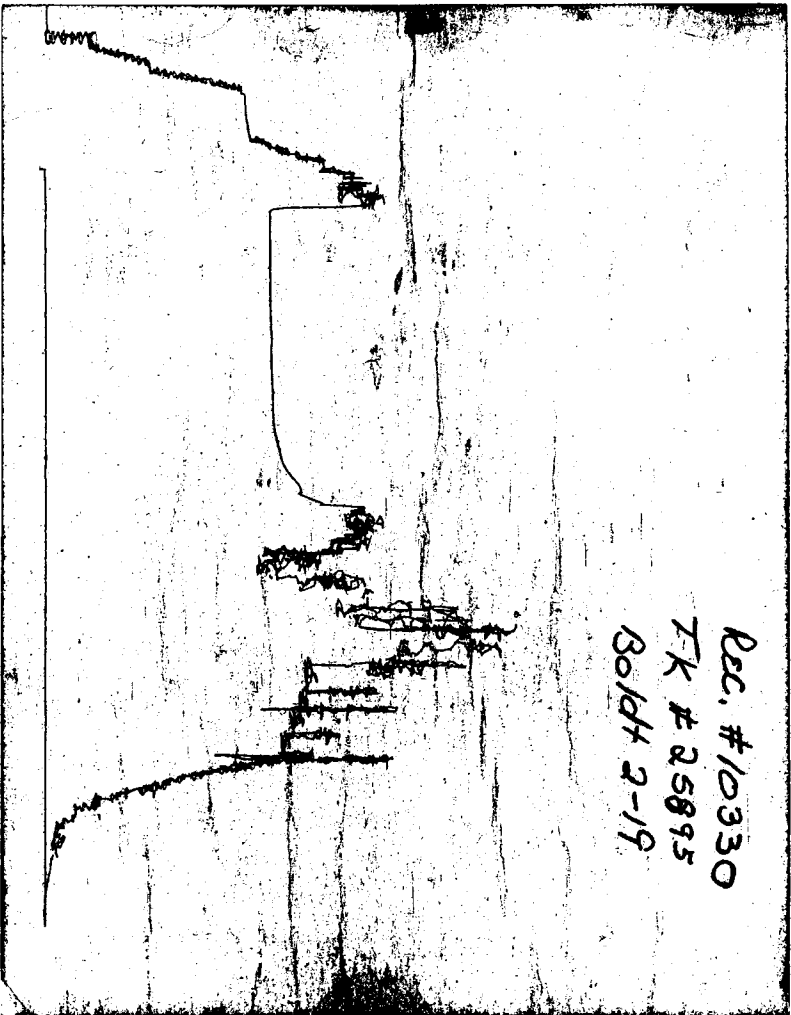


CHART PAGE

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

Rec. # 13266

TR# 25895

Baldt 2-19

