

DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr & Associates**

1670 Broadway Ste #3300
Denver CO 80202

ATTN: Tom Fertal

24 18N 10W Rice KS

Roelfs #2-24

Start Date: 2007.01.28 @ 18:39:18

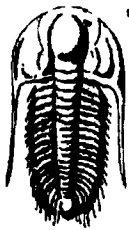
End Date: 2007.01.29 @ 01:22:48

Job Ticket #: 25838 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

Sam Gary Jr & Associates

1670 Broadway Ste #3300
Denver CO 80202

ATTN: Tom Fertal

Roelfs #2-24

24 18N 10W Rice KS

Job Ticket: 25838

DST#: 1

Test Start: 2007.01.28 @ 18:39:18

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:52:18

Time Test Ended: 01:22:48

Test Type: Conventional Straddle

Tester: Jerry Adams

Unit No: 36

Interval: **3252.00 ft (KB) To 3270.00 ft (KB) (TVD)**

Total Depth: 3359.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1750.00 ft (KB)

1744.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6798

Inside

Press@RunDepth: 14.73 psig @ 3253.00 ft (KB)

Start Date: 2007.01.28

End Date:

2007.01.29

Capacity: 7000.00 psig

Last Calib.: 2007.01.29

Start Time: 18:39:23

End Time:

01:22:47

Time On Btm: 2007.01.28 @ 20:51:48

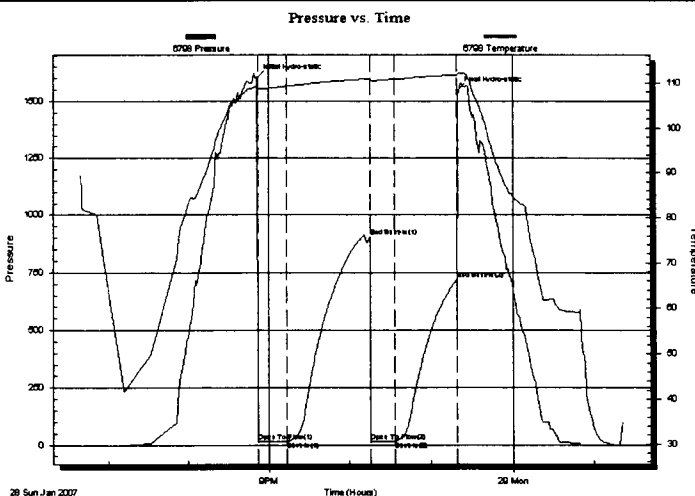
Time Off Btm: 2007.01.28 @ 23:19:47

TEST COMMENT: IF Weak blow Built to 3/4 "

ISI No blow

FF No blow

FSI No blow



PRESSURE SUMMARY

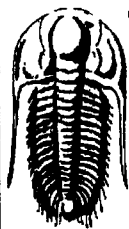
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1599.61	109.10	Initial Hydro-static
1	13.65	108.72	Open To Flow (1)
22	14.63	109.26	Shut-In(1)
84	903.61	110.86	End Shut-In(1)
84	14.10	110.42	Open To Flow (2)
102	14.73	110.82	Shut-In(2)
147	721.00	111.74	End Shut-In(2)
148	1545.13	111.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Drilling Mud 100%M	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary Jr & Associates

1670 Broadway Ste #3300
Denver CO 80202

ATTN: Tom Fertal

Roelfs #2-24

24 18N 10W Rice KS

Job Ticket: 25838

DST#: 1

Test Start: 2007.01.28 @ 18:39:18

Tool Information

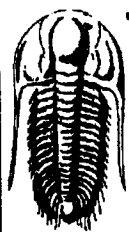
Drill Pipe:	Length: 3054.00 ft	Diameter: 2.75 inches	Volume: 22.44 bbl	Tool Weight:	2600.00 lb
Heavy Wt. Pipe:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	44000.00 lb
		Total Volume:	23.35 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3252.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	3270.00 ft				
Interval between Packers:	18.00 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			3229.00	
Hydraulic tool	5.00			3234.00	
Jars	5.00			3239.00	
Safety Joint	3.00			3242.00	
Packer	5.00			3247.00	28.00 Bottom Of Top Packer
Packer	5.00			3252.00	
Stubb	1.00			3253.00	
Recorder	0.00	6798	Inside	3253.00	
Perforations	16.00			3269.00	
Recorder	0.00	13400	Outside	3269.00	
Blank Off Sub	1.00			3270.00	18.00 Tool Interval
Packer	1.00			3271.00	
Stubb	1.00			3272.00	
Change Over Sub	1.00			3273.00	
Blank Spacing	62.00			3335.00	
Change Over Sub	1.00			3336.00	
Perforations	20.00			3356.00	
Recorder	0.00	13249	Below	3356.00	
Bullnose	3.00			3359.00	89.00 Bottom Packers & Anchor

Total Tool Length: 135.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr & Associates

Roelfs #2-24

1670 Broadway Ste #3300
Denver CO 80202

24 18N 10W Rice KS

Job Ticket: 25838

DST#: 1

ATTN: Tom Fertal

Test Start: 2007.01.28 @ 18:39:18

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: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Drilling Mud 100%M	0.015

Total Length: 3.00 ft

Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

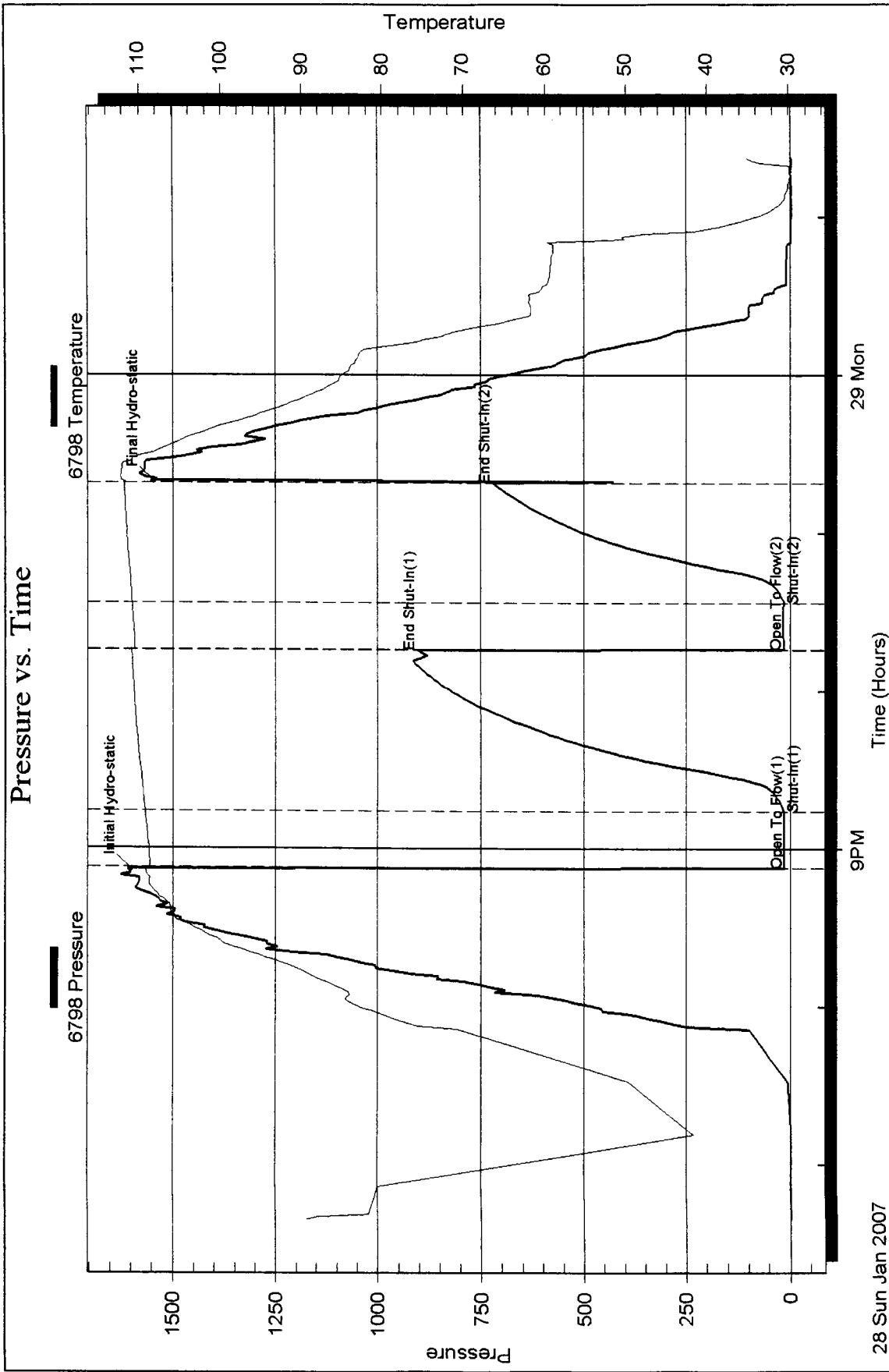
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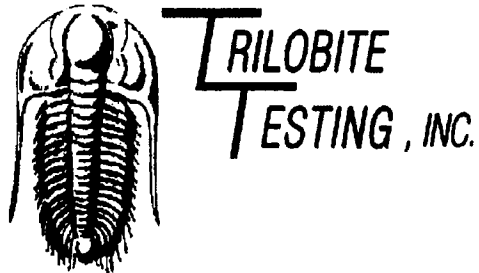
Inside

Sam Gary Jr & Associates

24 18N 10W Rice KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr & Associates**

1670 Broadway Ste #3300
Denver CO 80202

ATTN: Tom Fertal

24 18N 10W Rice KS

Roelfs #2-24

Start Date: 2007.01.29 @ 02:09:32

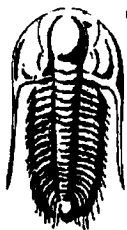
End Date: 2007.01.29 @ 10:54:32

Job Ticket #: 25839 DST #: 2

Trilobite Testing, Inc

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr & Associates

1670 Broadway Ste #3300
Denver CO 80202

ATTN: Tom Fertal

Roelfs #2-24

24 18N 10W Rice KS

Job Ticket: 25839

DST#: 2

Test Start: 2007.01.29 @ 02:09:32

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 03:56:02

Time Test Ended: 10:54:32

Test Type: **Conventional Straddle**

Tester: **Jerry Adams**

Unit No: **36**

Interval: **3270.00 ft (KB) To 3283.00 ft (KB) (TVD)**

Total Depth: **3359.00 ft (KB) (TVD)**

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

Reference Elevations: **1750.00 ft (KB)**

1744.00 ft (CF)

KB to GR/CF: **6.00 ft**

Serial #: 6798

Inside

Press@RunDepth: **131.72 psig @ 3271.00 ft (KB)**

Start Date: **2007.01.29**

End Date:

2007.01.29

Capacity: **7000.00 psig**

Last Calib.: **2007.01.29**

Start Time: **02:09:37**

End Time:

10:54:32

Time On Btm: **2007.01.29 @ 03:55:32**

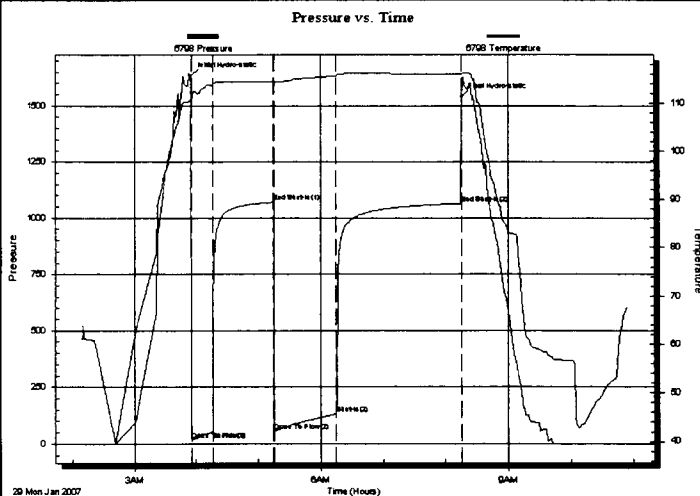
Time Off Btm: **2007.01.29 @ 08:15:31**

TEST COMMENT: IF Fair blow Built to 9 1/2 ".

ISI Weak surface blow Dead in 25 mins.

FF Fair blow BOB in 29 mins.

FSI Weak surface blow Dead in 37 mins.



PRESSURE SUMMARY

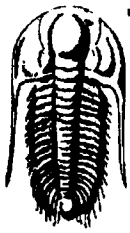
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1633.05	110.43	Initial Hydro-static
1	17.29	110.63	Open To Flow (1)
21	53.60	113.55	Shut-In (1)
80	1069.86	114.32	End Shut-In (1)
81	56.24	114.06	Open To Flow (2)
140	131.72	115.55	Shut-In (2)
260	1064.61	115.85	End Shut-In (2)
260	1537.45	115.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	SMCO 90%o 10%am	0.44
179.00	MCW 77%w 23%am	1.08
31.00	SG&OCM 2 1/2%G 2 1/2%O 95%M	0.23
0.00	370' GIP	0.00
0.00	RW= .640 @ 44 deg. 15000 ppm	0.00
0.00	Gravity= 31 API @ 35 deg. 33.5 correct	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

Sam Gary Jr & Associates

1670 Broadway Ste #3300
Denver CO 80202

ATTN: Tom Fertal

Roelfs #2-24

24 18N 10W Rice KS

Job Ticket: 25839

DST#: 2

Test Start: 2007.01.29 @ 02:09:32

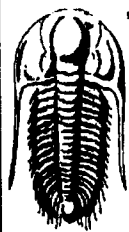
Tool Information

Drill Pipe:	Length: 3085.00 ft	Diameter: 2.75 inches	Volume: 22.66 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 23.57 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3270.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	3283.00 ft			
Interval between Packers:	13.00 ft			
Tool Length:	117.00 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			3247.00	
Hydraulic tool	5.00			3252.00	
Jars	5.00			3257.00	
Safety Joint	3.00			3260.00	
Packer	5.00			3265.00	28.00 Bottom Of Top Packer
Packer	5.00			3270.00	
Stubb	1.00			3271.00	
Recorder	0.00	6798	Inside	3271.00	
Perforations	11.00			3282.00	
Recorder	0.00	13400	Outside	3282.00	
Blank Off Sub	1.00			3283.00	13.00 Tool Interval
Packer	1.00			3284.00	
Stubb	1.00			3285.00	
Change Over Sub	1.00			3286.00	
Blank Spacing	62.00			3348.00	
Change Over Sub	1.00			3349.00	
Perforations	7.00			3356.00	
Recorder	0.00	13249	Below	3356.00	
Bullnose	3.00			3359.00	76.00 Bottom Packers & Anchor

Total Tool Length: 117.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr & Associates

Roelfs #2-24

1670 Broadway Ste #3300
Denver CO 80202

24 18N 10W Rice KS

Job Ticket: 25839

DST#: 2

ATTN: Tom Fertal

Test Start: 2007.01.29 @ 02:09:32

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: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	SMCO 90%o 10%m	0.443
179.00	MCW 77%w 23%m	1.082
31.00	SG&OCM 2 1/2%G 2 1/2%O 95%M	0.228
0.00	370 ' GIP	0.000
0.00	RW= .640 @ 44 deg. 15000 ppm	0.000
0.00	Gravity= 31 API @ 35 deg. 33.5 correct	0.000

Total Length: 300.00 ft

Total Volume: 1.753 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6798

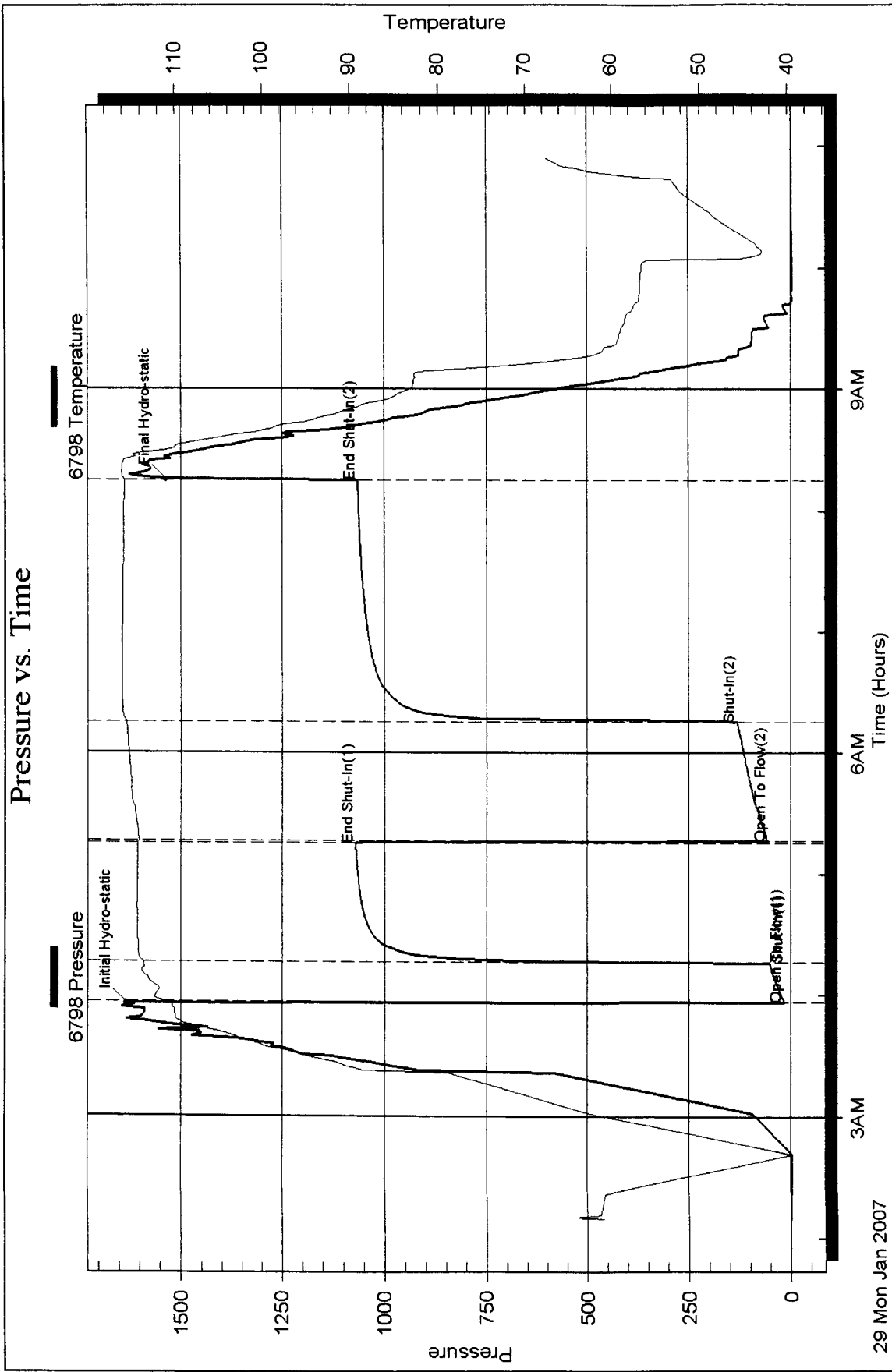
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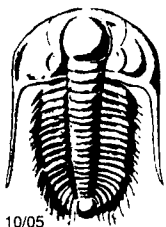
Sam Gary Jr & Associates

24 18N 10W Rice KS

DST Test Number: 2

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9742

25838

Test Ticket

Well Name & No. <u>Roelfs #2-24</u>	Test No. <u>1</u>	Date <u>1-28-07</u>
Company <u>Sam Gary Jr. & Associates</u>	Zone Tested <u>Arbuckle</u>	
Address <u>1670 Broadway, Ste. #3300 Denver, CO. 80202</u>	Elevation <u>1750</u>	KB <u>1744</u> GL
Co. Rep / Geo. <u>Tom Fertal</u>	Rig <u>Excell #10</u>	
Location: Sec. <u>24</u> Twp. <u>18n</u> Rge. <u>10w</u>	Co. <u>Rice</u>	State <u>Ks.</u>
Comment: _____		Release date / time: _____

Interval Tested <u>3252-3270</u>	Initial Str Wt./Lbs. <u>40,000</u>	Unseated Str Wt./Lbs. <u>40,000</u>
Anchor Length <u>18</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>44,000</u>
Top Packer Depth <u>3247</u>	Tool Weight <u>2,600</u>	
Bottom Packer Depth <u>3252-3270</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3359</u>	Wt. Pipe Run <u>155</u>	Drill Collar Run <u>31</u>
Mud Wt. <u>9.4</u> LCM <u>2#</u> Vis. <u>44</u> WL <u>8.0</u>	Drill Pipe Size <u>4"XH</u>	Ft. Run <u>3054</u>

Blow Description IF: Weak blow. Built to 3/4".

ISI: No blow.

FF: No blow.

FSI: No blow.

Recovery - Total Feet <u>3</u>	GIP <u>0</u>	Ft. in DC <u>0</u>	Ft. in DP <u>3</u>
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Rec. <u>3</u>	Feet of <u>Drilling Mud</u>	%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
Rec. _____	Feet of _____	%gas	%oil	%water	%mud

BHT 111 °F Gravity N/C °API D @ _____ °F Corrected Gravity _____ °API

RW N/C @ _____ °F Chlorides 5,000 ppm Recovery _____ Chlorides 5,000 ppm System

(A) Initial Hydrostatic Mud	<u>1623</u> PSI	Recorder No. <u>6798</u>	Test ✓ <u>1200</u>
(B) First Initial Flow Pressure	<u>14</u> PSI	(depth) <u>3253</u>	Jars ✓ <u>250</u>
(C) First Final Flow Pressure	<u>15</u> PSI	Recorder No. <u>13400</u>	Safety Jt. ✓ <u>75</u>
(D) Initial Shut-In Pressure	<u>918</u> PSI	(depth) <u>3269</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>14</u> PSI	Recorder No. <u>13249</u>	Sampler _____
(F) Second Final Flow Pressure	<u>15</u> PSI	(depth) <u>3356</u>	Straddle ✓ <u>600</u>
(G) Final Shut-In Pressure	<u>721</u> PSI	Initial Opening <u>20</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1584</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____
		Final Flow <u>20</u>	Ruined Packer _____
		Final Shut-In <u>45</u>	Mileage ✓ <u>170 RT. 212.5</u>
		T-On Location <u>1745</u>	Sub Total: _____
		T-Started <u>1839</u>	Std. By _____
		T-Open <u>2052</u>	Acc. Chg: <u>\$2237.50</u>
		T-Pulled <u>2322</u>	Other: _____
		T-Out <u>0122</u>	Total: _____

Approved By _____

Our Representative Gerald Adams

Thank
You.

CHART PAGE

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

Sam Gary Sr. & Associates
Roe 195 # 2-24
DST # 1 Airbuckle Straddle
13400

Tick # 25838

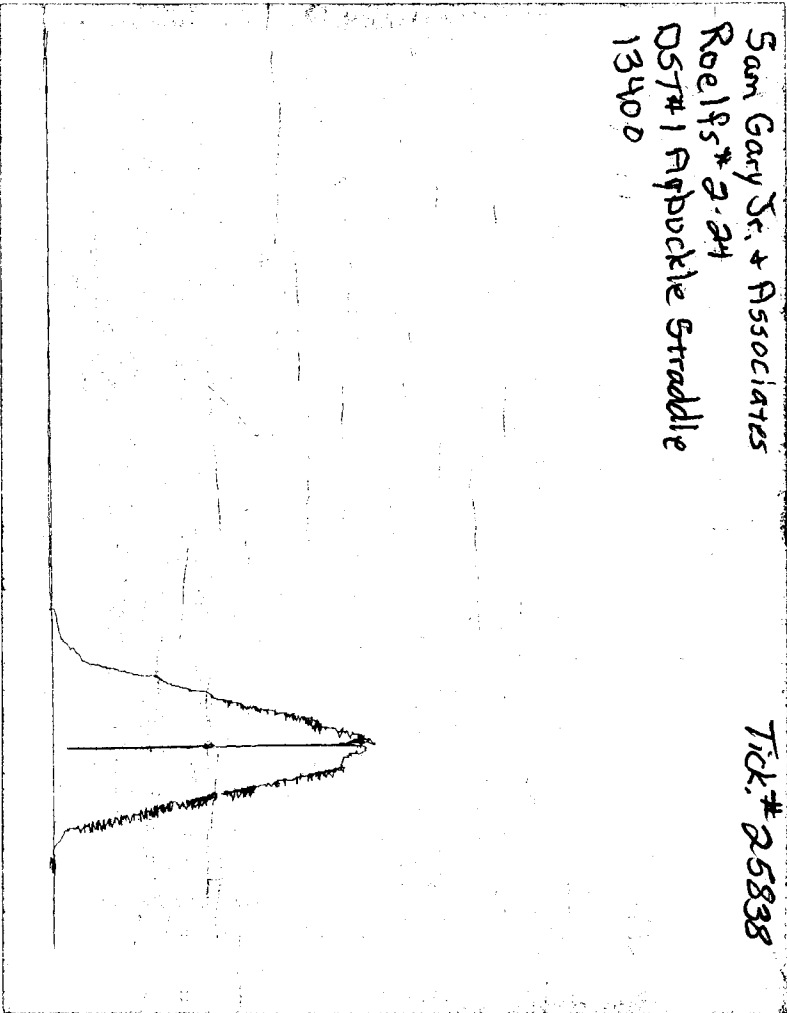


CHART PAGE

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

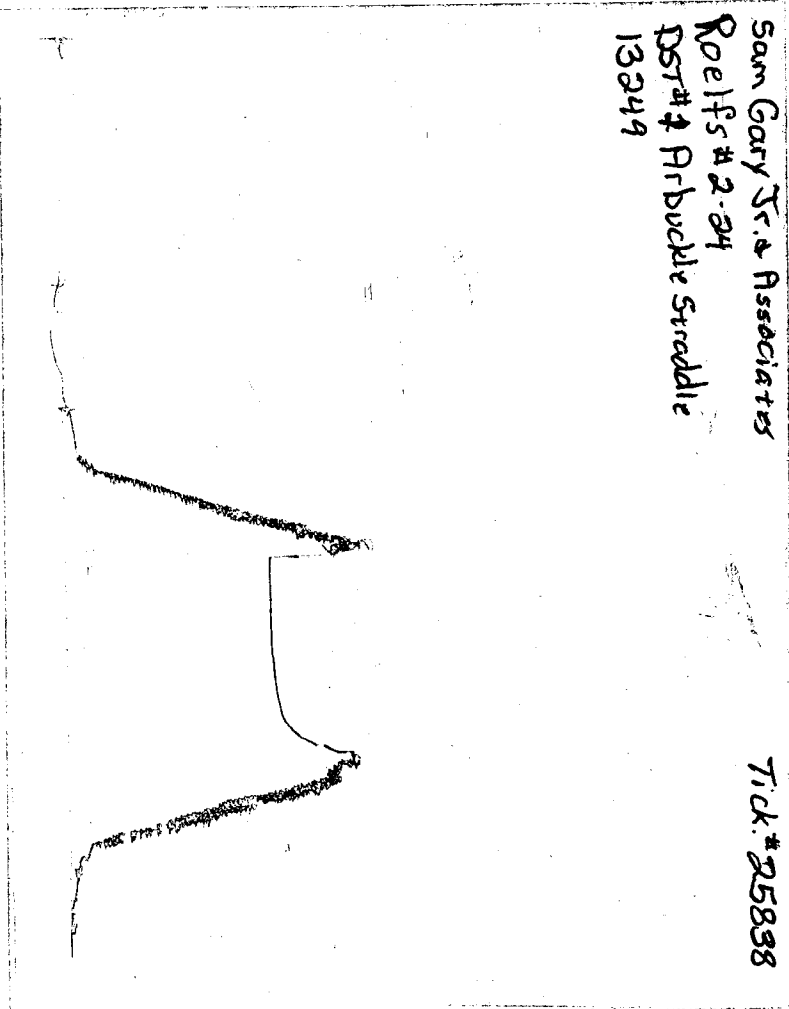
Sam Gary Jr. & Associates

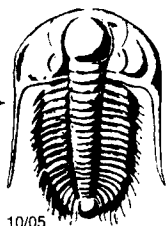
Tick # 25838

Roelfs # 2-24

DST # 2 Air-buckle Straddle

13249





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25839

Test Ticket

Well Name & No. <u>Roelfs # 2-24</u>	Test No. <u>2</u>	Date <u>1-29-07</u>
Company <u>Sam Gary, Jr. & Associates</u>	Zone Tested <u>Arbuckle</u>	
Address <u>1670 Broadway, Ste. #3300 Denver, CO 80202</u>	Elevation <u>1750</u> KB <u>1744</u>	GL
Co. Rep / Geo. <u>Tom Fernal</u>	Rig <u>Excell #10</u>	
Location: Sec. <u>24</u> Twp. <u>18n</u> Rge. <u>10w</u>	Co. <u>Rice</u>	State <u>Ks.</u>
Comment: _____		Release date / time: _____

Interval Tested <u>3270-3283</u>	Initial Str Wt./Lbs. <u>40,000</u>	Unseated Str Wt./Lbs. <u>42,000</u>
Anchor Length <u>13</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>45,000</u>
Top Packer Depth <u>3265</u>	Tool Weight <u>2,600</u>	
Bottom Packer Depth <u>3270+3283</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3359</u>	Wt. Pipe Run <u>155'</u>	Drill Collar Run <u>31'</u>
Mud Wt. <u>9.4</u> LCM <u>2#</u> Vis. <u>44</u> WL <u>8.0</u>	Drill Pipe Size <u>4"XH</u>	Ft. Run <u>3085</u>

Blow Description IF: Fair blow. Built to 9 1/2."
ISI: Weak surface blow. Dead in 25 mins.
FF: Fair blow. B.O.B. in 29 mins.
FSI: Weak surface blow. Dead in 37 mins.

Recovery - Total Feet <u>300</u>	GIP <u>370</u>	Ft. in DC <u>186</u>	Ft. in DP <u>114</u>
Rec. <u>90</u>	Feet of <u>SMCO</u>	%gas <u>90</u> %oil	%water <u>10</u> %mud
Rec. <u>179</u>	Feet of <u>MCW</u>	%gas	%oil <u>77</u> %water <u>23</u> %mud
Rec. <u>31</u>	Feet of <u>SG+OCM</u>	<u>2 1/2</u> %gas <u>2 1/2</u> %oil	%water <u>95</u> %mud
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
BHT <u>115</u>	°F Gravity <u>31</u>	°API D @ <u>35</u>	°F Corrected Gravity <u>33.5</u> °API
RW <u>.640</u> @ <u>44</u> °F	Chlorides <u>15,000</u> ppm	Recovery _____	Chlorides <u>5,000</u> ppm System

AK-1	Alpine	
(A) Initial Hydrostatic Mud	<u>1645</u> PSI	Recorder No. <u>6798</u> Test <u>✓</u> <u>1200</u>
(B) First Initial Flow Pressure	<u>17</u> PSI	(depth) <u>3271</u> Jars <u>✓</u> <u>250</u>
(C) First Final Flow Pressure	<u>54</u> PSI	Recorder No. <u>13400</u> Safety Jt. <u>✓</u> <u>75</u>
(D) Initial Shut-In Pressure	<u>1070</u> PSI	(depth) <u>3282</u> Circ Sub _____
(E) Second Initial Flow Pressure	<u>56</u> PSI	Recorder No. <u>13249</u> Sampler _____
(F) Second Final Flow Pressure	<u>132</u> PSI	(depth) <u>3356</u> Straddle <u>✓</u> <u>600</u>
(G) Final Shut-In Pressure	<u>1065</u> PSI	Initial Opening <u>20</u> Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>11627</u> PSI	Initial Shut-In <u>60</u> Shale Packer _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By <u>[Signature]</u>	Final Flow <u>13249</u> <u>60</u>	Ruined Packer _____
Our Representative <u>Gerald Adams</u>	Final Shut-In <u>120</u>	Mileage _____
	T-On Location <u>1745</u>	Sub Total: _____
	T-Started <u>0209</u>	Std. By <u>\$ 2125</u>
	T-Open <u>0356</u>	Acc. Chg: _____
	T-Pulled <u>0818</u>	Other: _____
	T-Out <u>1054</u>	Total: _____

Thank
You.

CHART PAGE

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

Sam Gary Sr. & Associates

Tick # 25839

Reelfoot # 3-24

DST # 2 Arbuckle Syncline

13400 Rod Clock

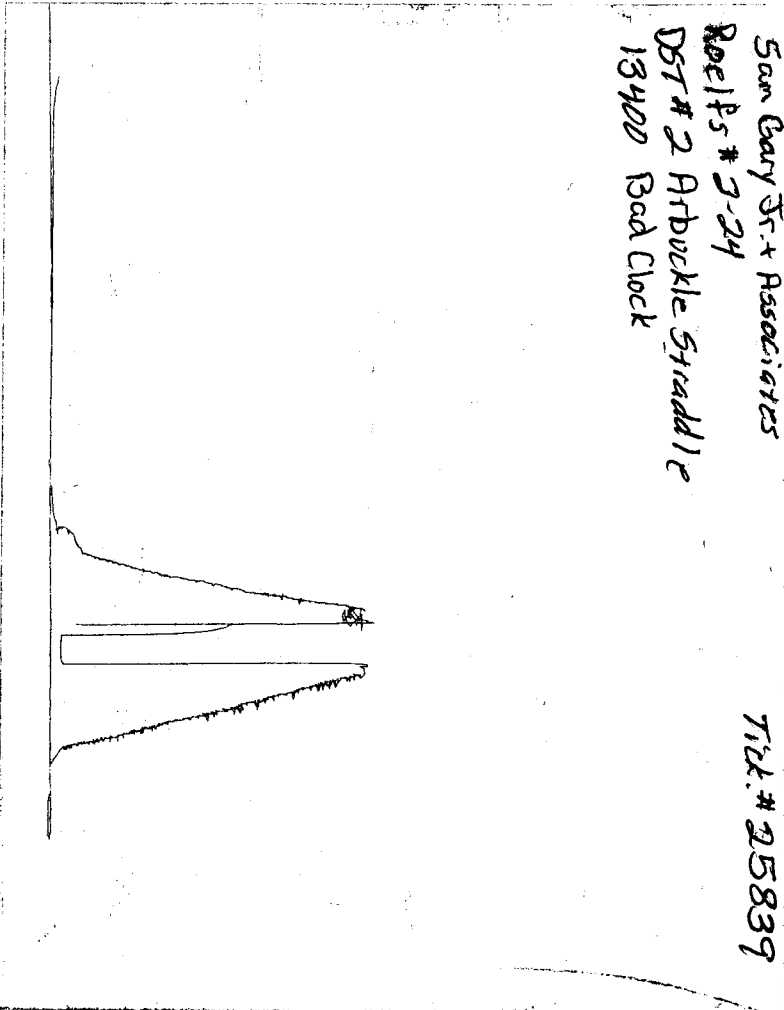


CHART PAGE

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

Sam Gary Sr's Associates

Tick # 25839

Roelfs # 2-24

DST # 2 Arbuckle Straddle

13249

