

## DRILL STEM TEST REPORT

Prepared For: **Sam Gary & Assc. Inc.**

1670 Broadway Suite 3300  
Denver CO

ATTN: Tom Fertal

**34-17s-10w Ellsworth**

**Schroeder- Maes #1-34**

Start Date: 2005.06.12 @ 05:03:58

End Date: 2005.06.12 @ 14:27:43

Job Ticket #: 22840          DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Sam Gary & Assc. Inc.

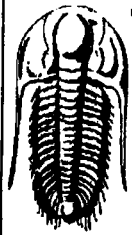
Schroeder- Maes

34-17s-10w Ellsworth

DST # 1

Arb.

2005.06.12



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ATTN: Tom Fertal

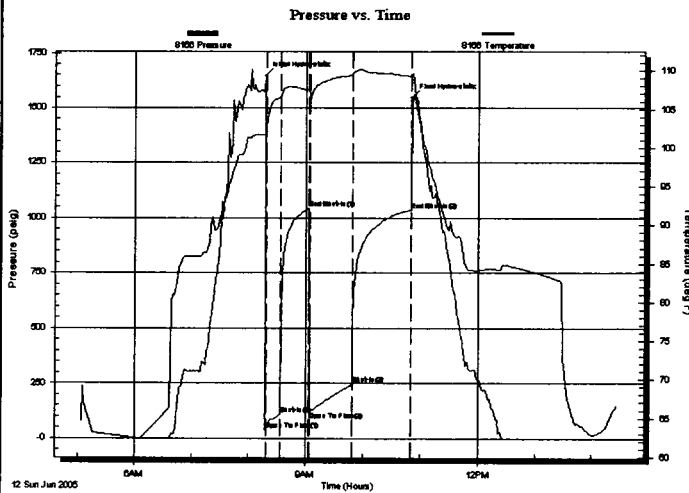
**Schroeder-Maes #1-34**  
**34-17s-10w Ellsworth**  
Job Ticket: 22840      DST#: 1  
Test Start: 2005.06.12 @ 05:03:58

## GENERAL INFORMATION:

Formation: **Arb.**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: 08:18:13  
Time Test Ended: 14:27:43  
Interval: **3266.00 ft (KB) To 3305.00 ft (KB) (TVD)**  
Total Depth: **3305.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Michael**  
Unit No: **15**  
Reference Elevations: **1810.00 ft (KB)**  
**1805.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 8166**      **Inside**  
Press@RunDepth: **246.20 psig @ 3267.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2005.06.12**      End Date: **2005.06.12**      Last Calib.: **2005.06.12**  
Start Time: **05:03:59**      End Time: **14:27:43**      Time On Btm: **2005.06.12 @ 08:17:43**  
Time Off Btm: **2005.06.12 @ 10:50:28**

**TEST COMMENT:** F- Bottom of the bucket 7m  
IS- Surface blow back died after 16 m  
FF- Bottom of the bucket 7m  
FS- Surface blow back Died 10m



## PRESSURE SUMMARY

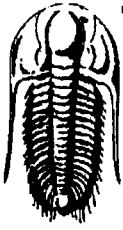
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1647.51	101.80	Initial Hydro-static
1	37.57	101.60	Open To Flow (1)
16	109.54	106.52	Shut-In (1)
46	1043.22	107.49	End Shut-In (1)
47	122.42	107.11	Open To Flow (2)
92	246.20	109.47	Shut-In (2)
153	1036.57	109.34	End Shut-In (2)
153	1545.79	109.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud & Oil 50-50%	0.30
150.00	Mud cut Oil 40% m 60% o	1.56
435.00	Clean 41 Grav. Oil	6.10
120.00	FT GP	1.68

## Gas Rates

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



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**TOOL DIAGRAM**

Sam Gary & Assc. Inc.  
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ATTN: Tom Fertal

**Schroeder- Maes**  
**34-17s-10w Ellsworth**  
Job Ticket: 22840      **DST#: 1**  
Test Start: 2005.06.12 @ 05:03:58

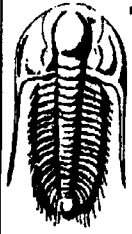
**Tool Information**

Drill Pipe:	Length: 3124.00 ft	Diameter: 3.80 inches	Volume: 43.82 bbl	Tool Weight: 2000.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 30000.00 lb
			<u>Total Volume: 44.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3266.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	72.00 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			3234.00	
Shut In Tool	5.00			3239.00	
Sampler	4.00			3243.00	
Hydraulic tool	5.00			3248.00	
Jars	5.00			3253.00	
Safety Joint	3.00			3256.00	
Packer	5.00			3261.00	33.00      Bottom Of Top Packer
Packer	5.00			3266.00	
Blank Spacing	1.00			3267.00	
Recorder	0.00	8166	Inside	3267.00	
Perforations	35.00			3302.00	
Recorder	0.00	11020	Outside	3302.00	
Bullnose	3.00			3305.00	39.00      Bottom Packers & Anchor

**Total Tool Length: 72.00**



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1670 Broadway Suite 3300  
Denver CO

**Schroeder- Maes**  
**34-17s-10w Ellsworth**  
Job Ticket: 22840      **DST#: 1**  
Test Start: 2005.06.12 @ 05:03:58

ATTN: Tom Fertal

**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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

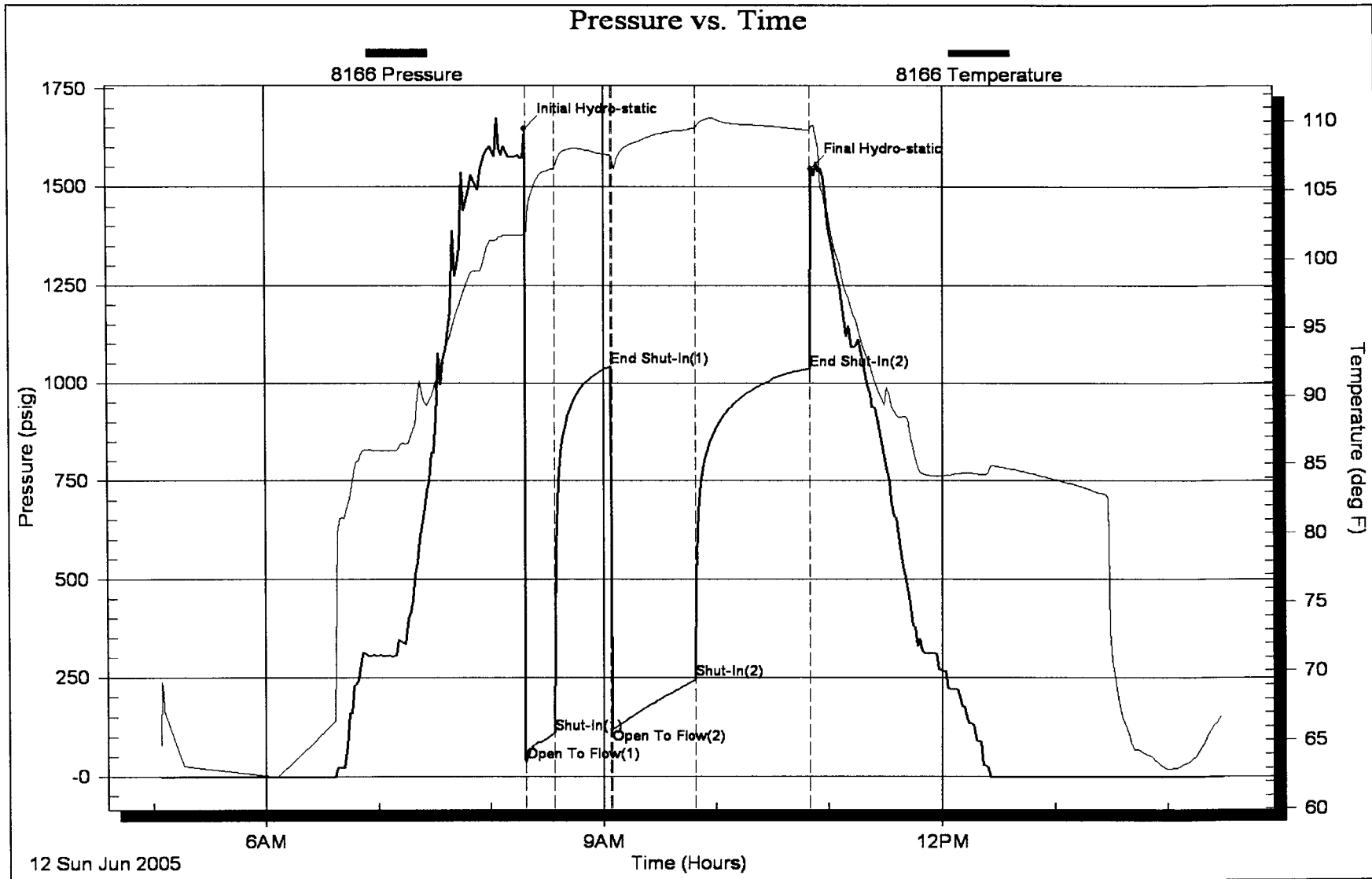
Length ft	Description	Volume bbl
60.00	Mud & Oil 50-50%	0.295
150.00	Mud cut Oil 40% m 60% o	1.558
435.00	Clean 41 Grav. Oil	6.102
120.00	FT GIP	1.683

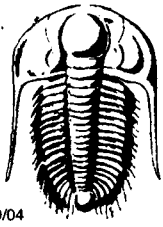
Total Length: 765.00 ft      Total Volume: 9.638 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:





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P.O. Box 362 • Hays, Kansas 67601

7575  
No 22840  
303 825 3211

## Test Ticket

Well Name & No. Schroeder-Maes Test No. 1 Date 6-11-05  
 Company Sam Gary & Assoc. & NC Zone Tested Arbuckle  
 Address 1670 Broadway Suite 3300 Elevation 1810 KB 1805 GL  
 Co. Rep / Geo. Tom Fertal Cont. Petromark Rig 2 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 34 Twp. 17s Rge. 10w Co. Ellsworth State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3266-3305 Initial Str Wt./Lbs. 30,000 Unseated Str Wt./Lbs. 31600  
 Anchor Length 39ft Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 30000  
 Top Packer Depth 3261 Tool Weight 2000  
 Bottom Packer Depth 3266 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3305 Wt. Pipe Run 0 Drill Collar Run 120  
 Mud Wt. 9.1 LCM \_\_\_\_\_ Vis. 46 WL 9.2 Drill Pipe Size 3 1/2 4 1/2 Ft. Run 3124

Blow Description IF - Bottom of bucket 7min  
ISI - Surface blow back died after 16min  
FF - Bottom of bucket 7min  
FS - Surface blow died after 10min

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>435</u>	<u>120</u>		
Rec. <u>150</u>		%gas <u>100</u> %oil _____ %water _____ %mud _____	
Rec. <u>60</u>		Feet of <u>clean 4 1/2 Gravity oil</u> %gas <u>60</u> %oil _____ %water <u>40</u> %mud _____	
		Feet of <u>Mud and Oil</u> %gas <u>50</u> %oil _____ %water <u>50</u> %mud _____	
		Feet of _____ %gas _____ %oil _____ %water _____ %mud _____	
		Feet of _____ %gas _____ %oil _____ %water _____ %mud _____	
BHT <u>109</u>	°F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API		
RW _____ @ _____ °F	Chlorides _____ ppm Recovery _____ Chlorides _____ ppm System		

AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1648</u> PSI	<u>8166</u>	<u>960</u>
(B) First Initial Flow Pressure	<u>38</u> PSI	(depth) <u>3267</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
(C) First Final Flow Pressure	<u>110</u> PSI	Recorder No. <u>11020</u>	Safety Jt. <input checked="" type="checkbox"/> <u>50</u>
(D) Initial Shut-In Pressure	<u>1043</u> PSI	(depth) <u>3303</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>122</u> PSI	Recorder No. _____	Sampler <input checked="" type="checkbox"/> <u>200</u>
(F) Second Final Flow Pressure	<u>246</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1037</u> PSI	Initial Opening <u>30 15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1546</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____
		Final Flow <u>45</u>	Ruined Packer _____
		Final Shut-In <u>60</u>	Mileage <u>152</u>
		T-On Location <u>4:00</u>	Sub Total: <u>1593</u>
		T-Started <u>8:14 5:00</u>	Std. By <u>15 45</u>
		T-Open <u>8:14</u>	Other _____
		T-Pulled <u>10:45</u>	Total: <u>\$1597</u>
		T-Out <u>13:30</u>	

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Approved By J. Reiv Hestrad  
 Our Representative Michael A.



# TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 22840 Date 11-05  
 Company Name Sam Gary & Assoc. INC.  
 Lease Schroeder - Maes Test No. DST 1  
 County Ellsworth Sec. 34 Twp. 17s Rng. 10W

### SAMPLER RECOVERY

Gas \_\_\_\_\_ ML  
 Oil 3000 Clean 41 Vis Oil ML  
 Mud \_\_\_\_\_ ML  
 Water \_\_\_\_\_ ML  
 Other \_\_\_\_\_ ML  
 Pressure 0 ML  
 Total 3000 Clean 41 vis Oil ML

### PIT MUD ANALYSIS

Chlorides \_\_\_\_\_ ppm.  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Viscosity \_\_\_\_\_  
 Mud Weight \_\_\_\_\_  
 Filtrate \_\_\_\_\_  
 Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 Gravity \_\_\_\_\_ corrected @60F

### PIPE RECOVERY

**TOP**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
**MIDDLE**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
**BOTTOM**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.

**CHART PAGE**

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

