



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & As**

1670 Broadway #3300
Denver CO 80202

ATTN: Larson/Padgett

23-32s-19w Comanche

Rich #23-3

Start Date: 2001.02.28 @ 02:18:00

End Date: 2001.02.28 @ 12:05:00

Job Ticket #: 13646 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. & As
1670 Broadway #3300
Denver CO 80202
ATTN: Larson/Padgett

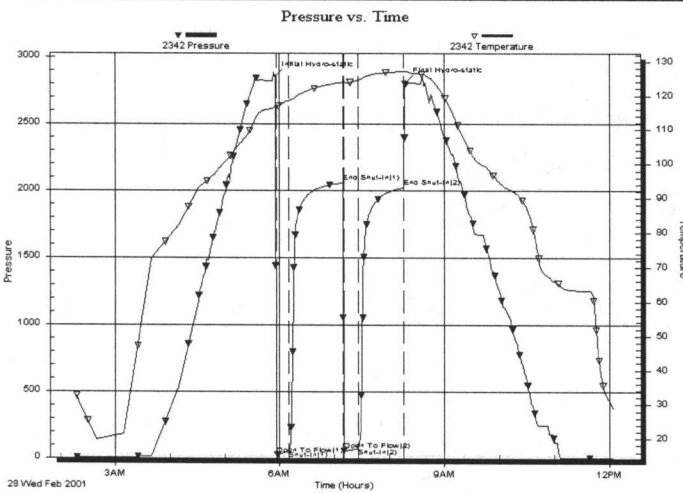
Rich #23-3
23-32s-19w Comanche
Job Ticket: 13646 **DST#: 1**
Test Start: 2001.02.28 @ 02:18:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 05:56:37
Time Test Ended: 12:05:00
Interval: **5798.00 ft (KB) To 5834.00 ft (KB) (TVD)**
Total Depth: **5834.00 ft (KB)**
Hole Diameter: **7.88 inches** Hole Condition: **Poor**
Test Type: **Conventional Bottom Hole**
Tester: **Gary Pevoteaux**
Unit No: **13**
Reference Elevations: **2045.00 ft (KB)**
2033.00 ft (CF)
KB to GR/CF: **12.00 ft**

Serial #: 2342 Inside
Press@RunDepth: **71.21 psig @ 5799.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2001.02.28** End Date: **2001.02.28** Last Calib.: **2001.02.05**
Start Time: **02:18:08** End Time: **12:05:07** Time On Btm: **2001.02.28 @ 05:55:07**
Time Off Btm: **2001.02.28 @ 08:18:07**

TEST COMMENT: SAMPLER CONTAINED A TRACE OF GAS, A TRACE OF OIL, 800 ML. OF WATER & 3200 ML. OF MUD. SOME LCM & CUTTINGS.
115 PSI / WATER Rw 0.43 OHMS @ 45 DEG. F. IF: Weak blow . 1 - 1 1/2".
ISI: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
217	2856.85	116.75	Initial Hydro-static
219	21.35	116.97	Open To Flow (1)
232	49.55	118.61	Shut-In(1)
291	2055.18	124.02	End Shut-In(1)
292	57.44	124.02	Open To Flow (2)
307	71.21	124.56	Shut-In(2)
357	2019.67	127.14	End Shut-In(2)
360	2814.81	127.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Trace of gas in pipe.	0.00
80.00	SOCWM 1%o 19%w 80%am	0.39

Gas Rates

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



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TOOL DIAGRAM

Samuel Gary Jr. & As

Rich #23-3

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Job Ticket: 13646

DST#: 1

ATTN: Larson/Padgett

Test Start: 2001.02.28 @ 02:18:00

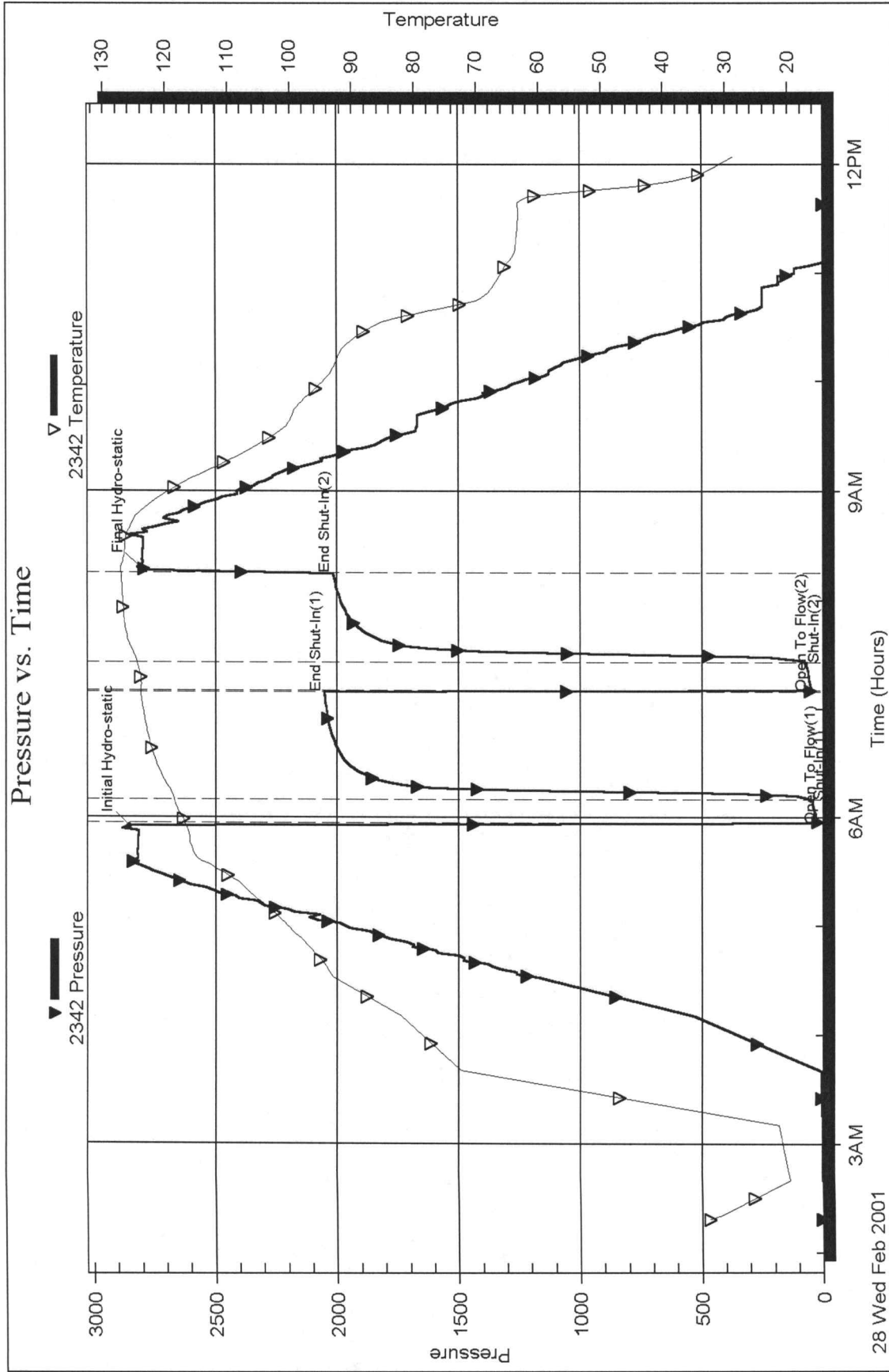
Tool Information

Drill Pipe:	Length: 5241.00 ft	Diameter: 3.80 inches	Volume: 73.52 bbl	Tool Weight: 2100.00 lb
Drill Collar:	Length: 540.00 ft	Diameter: 2.25 inches	Volume: 2.66 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 105000.0 lb
Drill Pipe Above KB:	13.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	5793.00 ft			String Weight: Initial 94000.00 lb
Depth to Bottom Packer:	ft			Final 94000.00 lb
Interval between Packers:	ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5769.00	
S.I. Tool	5.00			5774.00	
Sampler	3.00			5777.00	
HMV	5.00			5782.00	
Jars	5.00			5787.00	
Safety Joint	2.00			5789.00	
Packer	4.00			5793.00	25.00 Bottom Of Top Packer
Packer	5.00			5798.00	
Stubb	1.00			5799.00	
Recorder	0.00	2342	Inside	5799.00	
Perforations	30.00			5829.00	
Recorder	0.00	10248	Outside	5829.00	
Bullnose	5.00			5834.00	41.00 Bottom Packers & Anchor

Total Tool Length: 66.00





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1670 Broadway #3300
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23-32s-19w Comanche

Rich #23-3

Start Date: 2001.02.28 @ 23:48:00

End Date: 2001.03.01 @ 12:26:00

Job Ticket #: 13647 DST #: 2

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Rich #23-3

23-32s-19w Comanche

DST #: 2

Viola

2001.02.28



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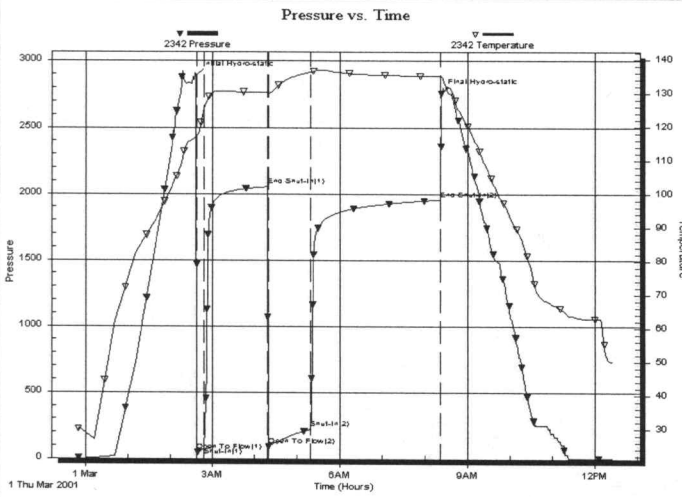
Rich #23-3
23-32s-19w Comanche
Job Ticket: 13647 **DST#: 2**
Test Start: 2001.02.28 @ 23:48:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:37:56
Time Test Ended: 12:26:00
Interval: **5841.00 ft (KB) To 5857.00 ft (KB) (TVD)**
Total Depth: 5857.00 ft (KB)
Hole Diameter: 7.88 inches Hole Condition: Poor
Reference Elevations: 2045.00 ft (KB)
2033.00 ft (CF)
KB to GR/CF: 12.00 ft
Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 13

Serial #: 2342 Inside
Press@RunDepth: 220.09 psig @ 5842.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.02.28 End Date: 2001.03.01 Last Calib.: 2001.01.04
Start Time: 23:48:57 End Time: 12:26:26 Time On Btm: 2001.03.01 @ 02:36:26
Time Off Btm: 2001.03.01 @ 08:22:26

TEST COMMENT: SAMPLER CONTENTS: .2 cubic ft. gas/500 ml. oil/3400 ml. w ater/a few cuttings.
265 PSI Water Rw .14 ohms @ 51 deg. F. IF:Strong blow . B.O.B. in 1 min.
IS:Weak blow . 1/2".
FF:Strong blow . B.O.B. in 1 1/2 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
168	2890.76	117.06	Initial Hydro-static
169	47.54	117.25	Open To Flow (1)
180	80.10	125.46	Shut-In(1)
270	2052.74	130.27	End Shut-In(1)
271	91.77	130.19	Open To Flow (2)
330	220.09	136.13	Shut-In(2)
513	1955.47	134.98	End Shut-In(2)
514	2758.74	135.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1920' - Gas	0.00
100.00	Oil	0.49
150.00	Gas and Oil cut Mud 25%g10%o65%rn	0.74
60.00	Mud and Oil cut Salt Water 12%o23%rn65%lw	0.30
180.00	Salt Water	0.89

Gas Rates

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



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23-32s-19w Comanche

Job Ticket: 13647

DST#: 2

ATTN: Larson/Padgett

Test Start: 2001.02.28 @ 23:48:00

Tool Information

Drill Pipe:	Length: 5301.00 ft	Diameter: 3.80 inches	Volume: 74.36 bbl	Tool Weight: 2100.00 lb
Drill Collar:	Length: 540.00 ft	Diameter: 2.25 inches	Volume: 2.66 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 118000.0 lb
Drill Pipe Above KB:	30.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	5836.00 ft			String Weight: Initial 97000.00 lb
Depth to Bottom Packer:	ft			Final 99000.00 lb
Interval between Packers:	ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			5812.00	
S.I. Tool	5.00			5817.00	
Sampler	3.00			5820.00	
HMV	5.00			5825.00	
Jars	5.00			5830.00	
Safety Joint	2.00			5832.00	
Packer	4.00			5836.00	25.00 Bottom Of Top Packer
Packer	5.00			5841.00	
Stubb	1.00			5842.00	
Recorder	0.00	2342	Inside	5842.00	
Perforations	10.00			5852.00	
Recorder	0.00	10248	Outside	5852.00	
Bullnose	5.00			5857.00	21.00 Bottom Packers & Anchor

Total Tool Length: 46.00

Serial #: 2342

Inside

Samuel Gary Jr. & As

23-32s-19w Comanche

