

3-33s-19w

15-033-21413

Comanche Co.

RECEIVED
KANSAS CORPORATION COMMISSION

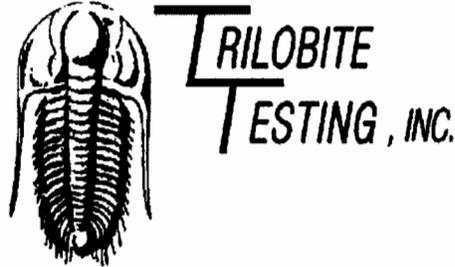
MAR 02 2005

CONSERVATION DIVISION
WICHITA, KS

KCC

MAR 01 2005

CONFIDENTIAL



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. Assc. Inc.**

1670 Broadway Suite 3300 Denver Co. 80202

ATTN: Tom Fertal

3/33/19

Jellison 3-13

Start Date: 2004.11.17 @ 06:57:41

End Date: 2004.11.17 @ 18:12:11

Job Ticket #: 20576 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Samuel Gary Jr. Assc. Inc.

Jellison 3-13

3/33/19

DST # 1

Marrow

2004.11.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. Assc. Inc.

Jellison 3-13

1670 Broadway Suite 3300 Denver Co. 80202

3/33/19

Job Ticket: 20576

DST#: 1

ATTN: Tom Fertal

Test Start: 2004.11.17 @ 06:57:41

GENERAL INFORMATION:

Formation: **Marrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:34:41

Time Test Ended: 18:12:11

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 15

Interval: **5214.00 ft (KB) To 5292.00 ft (KB) (TVD)**

Reference Elevations: 1965.00 ft (KB)

Total Depth: 5292.00 ft (KB) (TVD)

1952.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 6769

Inside

Press@RunDepth: 133.87 psig @ 5301.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.11.17

End Date:

2004.11.17

Last Calib.:

1899.12.30

Start Time: 06:57:43

End Time:

18:12:11

Time On Btm:

2004.11.17 @ 10:34:11

Time Off Btm:

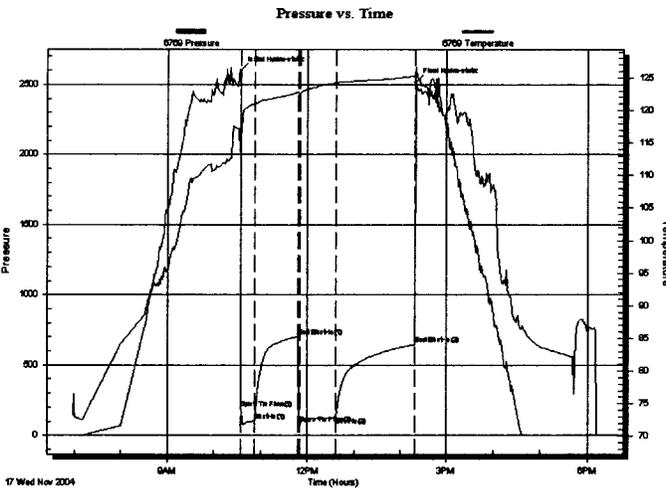
2004.11.17 @ 14:19:56

TEST COMMENT: FF- BOB 1 min. Steady blow no GTS.

IS- No blow back

FF- Steady blow GTS ASAO. 1.5 psi on 1/4in. choke, 25.224 mcf

FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2598.19	113.63	Initial Hydro-static
1	193.99	117.60	Open To Flow (1)
18	103.62	121.02	Shut-In(1)
74	703.16	122.80	End Shut-In(1)
76	84.00	122.57	Open To Flow (2)
123	133.87	124.25	Shut-In(2)
226	645.56	125.35	End Shut-In(2)
226	2518.82	126.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
412.00	100% mud. no water no oil no gas	2.31

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	1.50	25.22
Last Gas Rate	0.25	1.50	25.22
Max. Gas Rate	0.25	1.50	25.22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. Assc. Inc.

Jellison 3-13

1670 Broadway Suite 3300 Denver Co. 80202

3/33/19

Job Ticket: 20576

DST#: 1

ATTN: Tom Fertal

Test Start: 2004.11.17 @ 06:57:41

Tool Information

Drill Pipe:	Length: 4895.00 ft	Diameter: 3.80 inches	Volume: 68.66 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: 30000.00 lb
Drill Collar:	Length: 381.00 ft	Diameter: 2.25 inches	Volume: 1.87 bbl	Weight to Pull Loose: 120000.0 lb
			<u>Total Volume: 70.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	5292.00 ft			Final 91000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	111.00 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	2.00			5263.00	
Shut In Tool	5.00			5268.00	
Sampler	3.00			5271.00	
Hydraulic tool	5.00			5276.00	
Jars	5.00			5281.00	
Safety Joint	2.00			5283.00	
Packer	5.00			5288.00	31.00 Bottom Of Top Packer
Packer	4.00			5292.00	
Stubb	1.00			5293.00	
Perforations	8.00			5301.00	
Recorder	0.00	6769	Inside	5301.00	
Change Over Sub	1.00			5302.00	
Drill Pipe	32.00			5334.00	
Drill Pipe	32.00			5366.00	
Change Over Sub	1.00			5367.00	
Recorder	0.00	6724	Outside	5367.00	
Perforations	1.00			5368.00	
Bullnose	4.00			5372.00	80.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. Assc. Inc.

Jellison 3-13

1670 Broadway Suite 3300 Denver Co. 80202

3/33/19

Job Ticket: 20576

DST#: 1

ATTN: Tom Fertal

Test Start: 2004.11.17 @ 06:57:41

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
412.00	100% mud. no water no oil no gas	2.309

Total Length: 412.00 ft Total Volume: 2.309 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: X

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: Sampler Data- 42mcf and 1000 ML of 100% mud



**TRILLOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Samuel Gary Jr. Assc. Inc.

Jellison 3-13

1670 Broadway Suite 3300 Denver Co. 80202

3/33/19

Job Ticket: 20576

DST#: 1

ATTN: Tom Fertal

Test Start: 2004.11.17 @ 06:57:41

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.25	1.50	25.22
2	20	0.25	1.50	25.22
2	30	0.25	1.50	25.22
2	40	0.25	1.50	25.22
2	45	0.25	1.50	25.22

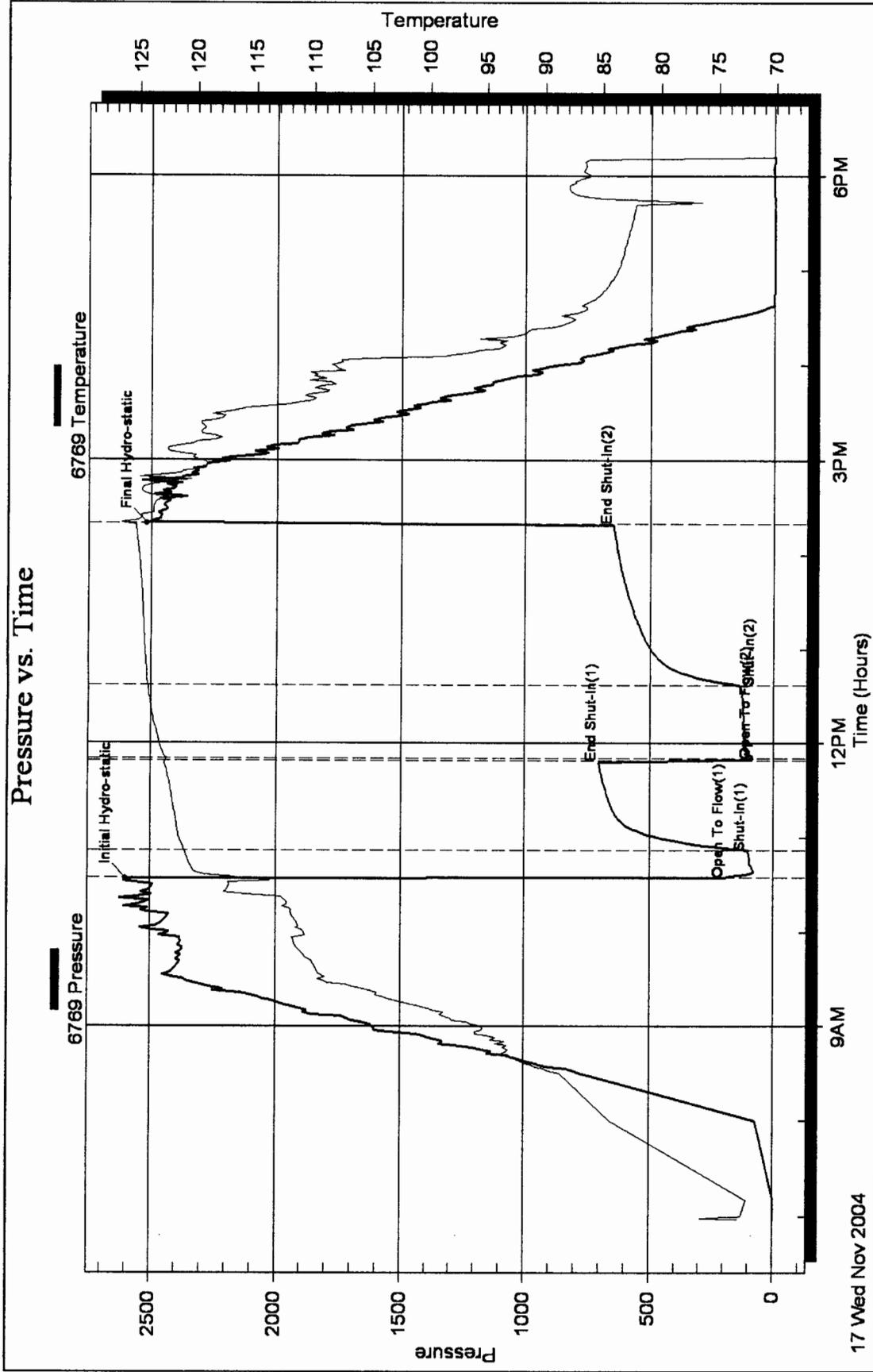
Serial #: 6769

Inside

Samuel Gary J. Assc. Inc.

3/33/19

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. Assc. Inc.**

1670 Broadway Suite 3300 Denver Co. 80202

ATTN: Tom Fertal

3/33/19

Jellison 3-13

Start Date: 2004.11.19 @ 11:04:22

End Date: 2004.11.19 @ 22:48:37

Job Ticket #: 19246 DST #: 2

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. Assc. Inc.
 1670 Broadway Suite 3300 Denver Co. 80202
 ATTN: Tom Fertal

Jellison 3-13
3/33/19
 Job Ticket: 19246 **DST#: 2**
 Test Start: 2004.11.19 @ 11:04:22

GENERAL INFORMATION:

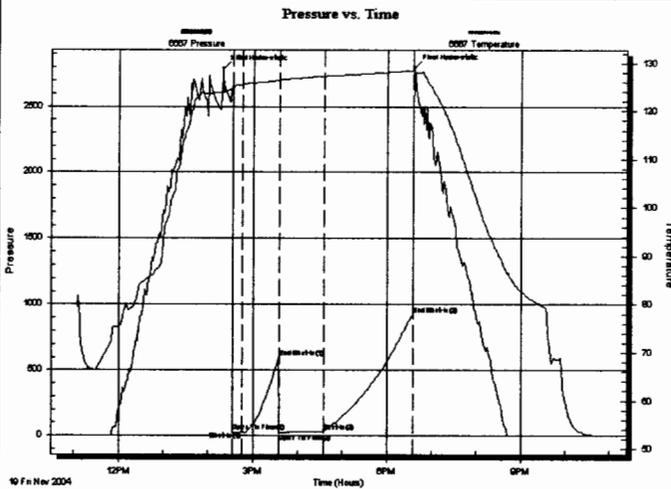
Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:33:22
 Time Test Ended: 22:48:37
 Interval: **5318.00 ft (KB) To 5342.00 ft (KB) (TVD)**
 Total Depth: 5385.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Fair
 Test Type: Conventional Straddle
 Tester: Steve Clark
 Unit No: 19
 Reference Elevations: 1965.00 ft (KB)
 1952.00 ft (CF)
 KB to GRVCF: 13.00 ft

Serial #: 6667

Inside

Press@RunDepth: 33.90 psig @ 5319.00 ft (KB)
 Start Date: 2004.11.19 End Date: 2004.11.19
 Start Time: 11:04:32 End Time: 22:48:36
 Capacity: 7000.00 psig
 Last Calib.: 2004.11.19
 Time On Btm: 2004.11.19 @ 14:19:37
 Time Off Btm: 2004.11.19 @ 18:36:52

TEST COMMENT: F-Fair blw . increasing to 61/2" 15min.
 IS- After bleed off, blw died.
 FF-Fair blw increasing to 10" 60min. no gas detected.
 FS- After bleed off, blw died.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2788.79	123.97	Initial Hydro-static
14	33.72	124.79	Open To Flow (1)
26	28.22	125.44	Shut-In(1)
75	598.54	126.42	End Shut-In(1)
76	18.04	126.54	Open To Flow (2)
136	33.90	127.26	Shut-In(2)
256	925.79	128.49	End Shut-In(2)
258	2795.31	128.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slightly OCM	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. Assc. Inc.
1670 Broadway Suite 3300 Denver Co. 80202
ATTN: Tom Fertal

Jellison 3-13
3/33/19
Job Ticket: 19246 DST#: 2
Test Start: 2004.11.19 @ 11:04:22

Tool Information

Drill Pipe:	Length: 4942.00 ft	Diameter: 3.80 inches	Volume: 69.32 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 360.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 71.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	5318.00 ft			Final 93000.00 lb
Depth to Bottom Packer:	5342.00 ft			
Interval between Packers:	24.00 ft			
Tool Length:	103.00 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			5288.00	
Shut In Tool	5.00			5293.00	
Sampler	2.00			5295.00	
Hydraulic tool	5.00			5300.00	
Jars	5.00			5305.00	
Safety Joint	3.00			5308.00	
Packer	5.00			5313.00	31.00 Bottom Of Top Packer
Packer	5.00			5318.00	
Perforations	1.00			5319.00	
Recorder	0.00	6667	Inside	5319.00	
Perforations	22.00			5341.00	
Recorder	0.00	6074	Outside	5341.00	
Blank Off Sub	1.00			5342.00	24.00 Tool Interval
Packer	5.00			5347.00	
Perforations	7.00			5354.00	
Change Over Sub	1.00			5355.00	
Drill Pipe	31.00			5386.00	
Change Over Sub	1.00			5387.00	
Recorder	0.00	11019	Outside	5387.00	
Bullnose	3.00			5390.00	48.00 Bottom Packers & Anchor

Total Tool Length: 103.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

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Jellison 3-13

1670 Broadway Suite 3300 Denver Co. 80202

3/33/19

Job Ticket: 19246

DST#: 2

ATTN: Tom Fertal

Test Start: 2004.11.19 @ 11:04:22

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: 10.07 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Slightly OCM	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6667

Inside

Samuel Gary Jr. Assc. Inc.

3/33/19

DST Test Number: 2

Pressure vs. Time

