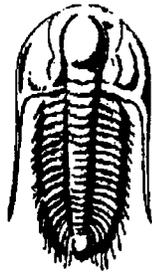


15-095-21809

25-28s-8w



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum, Inc.**

525 S. Main  
Kingman, KS 67068

ATTN: Jon Messenger

**25 28s 8e**

**Gillen A-1**

Start Date: 2002.01.26 @ 09:03:52

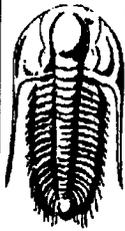
End Date: 2002.01.26 @ 17:06:37

Job Ticket #: 15374                      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

Messenger Petroleum, Inc.

**Gillen A-1**

525 S. Main  
Kingman, KS 67068

**25 28s 8e**

Job Ticket: 15374

**DST#: 1**

ATTN: Jon Messenger

Test Start: 2002.01.26 @ 09:03:52

### GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:32:52

Time Test Ended: 17:06:37

Test Type: Conventional Bottom Hole

Tester: Wenrich

Unit No: 14

Interval: **4047.00 ft (KB) To 4065.00 ft (KB) (TVD)**

Reference Elevations: 1613.00 ft (KB)

Total Depth: 4065.00 ft (KB) (TVD)

1602.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

**Serial #: 3289**

Inside

Press@RunDepth: 87.56 psig @ 4048.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2002.01.26

End Date: 2002.01.26

Last Calib.: 1899.12.30

Start Time: 09:03:57

End Time: 17:06:36

Time On Btrm: 2002.01.26 @ 11:31:52

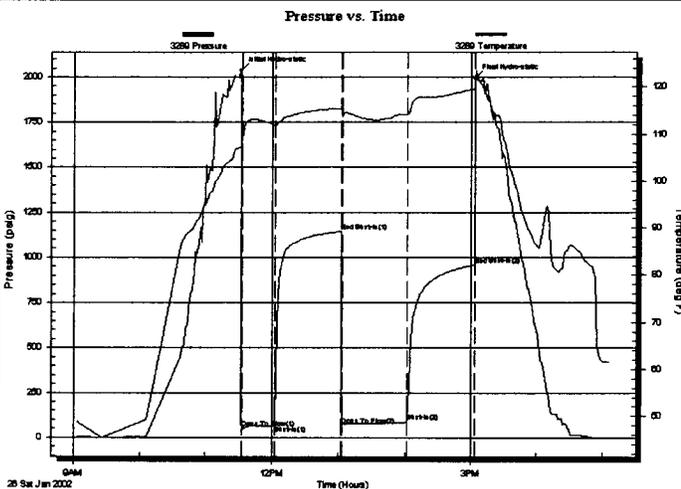
Time Off Btrm: 2002.01.26 @ 15:03:21

**TEST COMMENT:** F:Strong blow . B.O.B. 1 min. GTS 12 min.(see gas report)

IS:No blow .

FF:Strong blow .(see gas report)

FS:No blow .



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2036.65	107.42	Initial Hydro-static
1	49.93	109.04	Open To Flow (1)
31	66.81	111.94	Shut-in(1)
91	1142.28	115.49	End Shut-in(1)
92	67.16	113.93	Open To Flow (2)
151	87.56	114.16	Shut-in(2)
212	958.35	119.61	End Shut-in(2)
212	1994.14	120.08	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
300.00	gcm&w	1.94

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	10.00	164.59
Last Gas Rate	0.50	2.00	110.63
Max. Gas Rate	0.50	10.00	164.59



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Messenger Petroleum, Inc.

**Gillen A-1**

525 S. Main  
Kingman, KS 67068

**25 28s 8e**

Job Ticket: 15374

**DST#: 1**

ATTN: Jon Messenger

Test Start: 2002.01.26 @ 09:03:52

**Tool Information**

Drill Pipe:	Length: 3780.00 ft	Diameter: 3.80 inches	Volume: 53.02 bbl	Tool Weight: 2100.00 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: 249.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 54.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4047.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	45.00 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			4021.00	
S.I. Tool	5.00			4026.00	
HMV	5.00			4031.00	
Jars	5.00			4036.00	
Safety Joint	2.00			4038.00	
Packer	4.00			4042.00	27.00 Bottom Of Top Packer
Packer	5.00			4047.00	
Stubb	1.00			4048.00	
Recorder	0.00	3289	Inside	4048.00	
Perforations	15.00			4063.00	
Recorder	0.00	10242	Outside	4063.00	
Bullhose	2.00			4065.00	18.00 Bottom Packers & Anchor

**Total Tool Length: 45.00**



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Messenger Petroleum, Inc.

**Gillen A-1**

525 S. Main  
Kingman, KS 67068

**25 28s 8e**

Job Ticket: 15374

**DST#: 1**

ATTN: Jon Messenger

Test Start: 2002.01.26 @ 09:03:52

### 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:

4000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	gcm&w	1.940

Total Length: 300.00 ft

Total Volume: 1.940 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Messenger Petroleum, Inc.

**Gillen A-1**

525 S. Main  
Kingman, KS 67068

**25 28s 8e**

Job Ticket: 15374

**DST#: 1**

ATTN: Jon Messenger

Test Start: 2002.01.26 @ 09:03:52

### 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 <sup>3</sup> /d)
1	10	0.50	10.00	164.59
1	10	0.50	10.00	164.59
1	10	0.50	10.00	164.59
1	20	0.50	4.00	124.12
1	30	0.50	3.00	117.38
2	10	0.50	6.00	137.61
2	20	0.50	4.00	124.12
2	30	0.50	2.00	110.63
2	40	0.50	2.00	110.63

Serial #: 3289

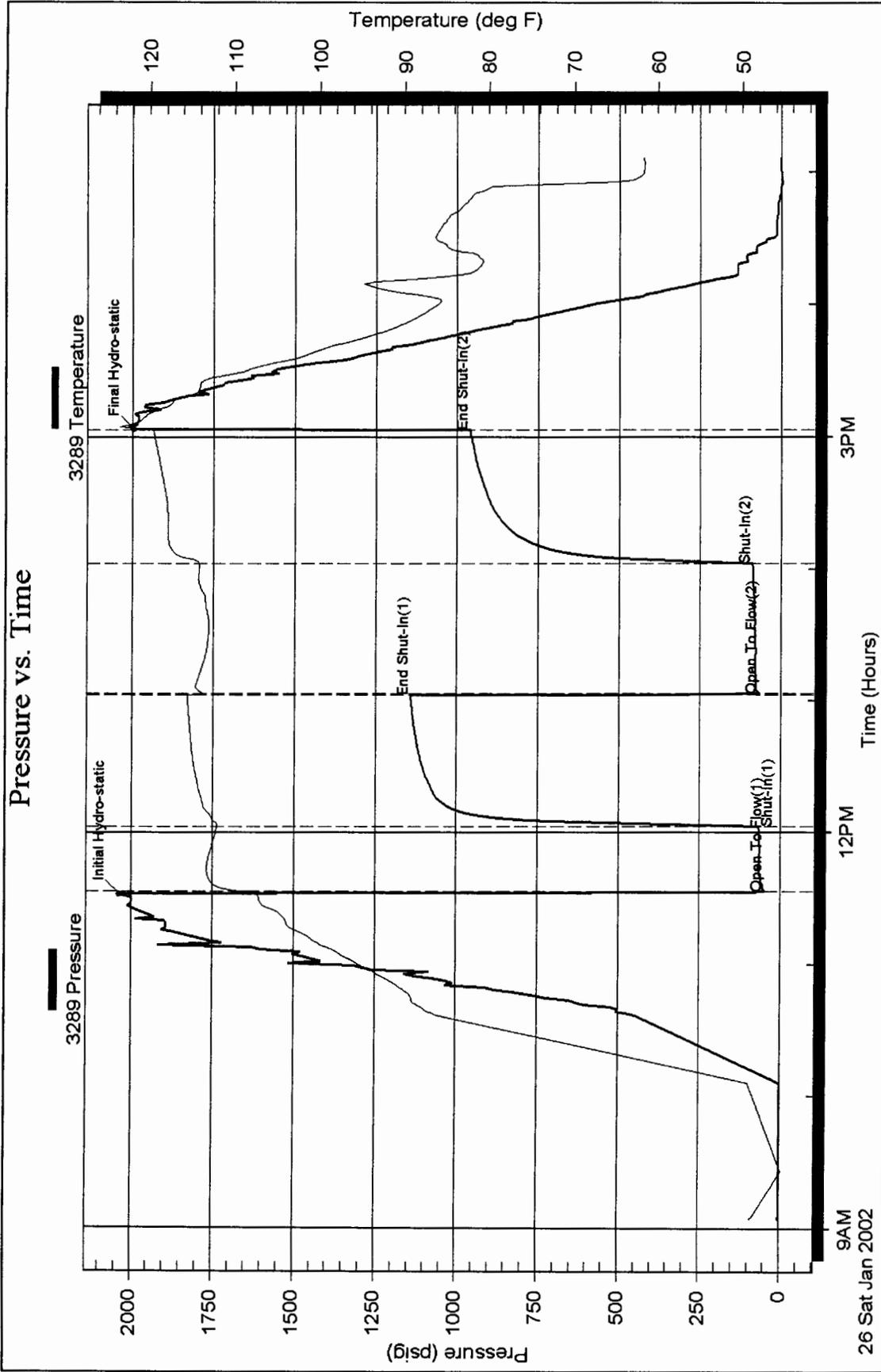
Inside

Messenger Petroleum, Inc.

25 28s 8e

DST Test Number: 1

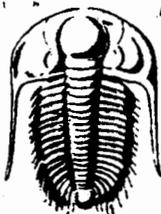
### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 15374

Printed: 2002.01.29 @ 09:05:22 Page 6



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15374

## Test Ticket

Well Name & No. Guller A-1 Test No. 1 Date 1/26/62  
 Company Messenger Petroleum Inc. Zone Tested Miss  
 Address 525 S. MAIN KINGMAN KS. 67068 Elevation 1613 KB 1602 GL  
 Co. Rep / Geo. Jim Messenger Cont. STERLING Dalg #4 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 25 Twp. 28 S Rge. 8 E Co. KINGMAN State Ks  
 No. of Copies 5 Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4047-4065 Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 52,000  
 Anchor Length 18 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 62,000  
 Top Packer Depth 4042 Tool Weight 2100  
 Bottom Packer Depth 4047 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
 Total Depth 4065 Wt. Pipe Run 0 Drill Collar Run 249  
 Mud Wt. 9.5 LCM 0 Vis. 49 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3780  
 Blow Description IF: Strong blow B.O.B. 1 min. GTS 12 min. ISI: No Blow  
FF: Strong blow (see gas report) FSI: No blow

Recovery — Total Feet	GIP <u>GTS</u>	Ft. in DC <u>249</u>	Ft. in DP <u>3780</u>
Rec. <u>300</u>	Feet Of <u>ACM&amp;W</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 119 °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RWA 2 @ \_\_\_\_\_ °F Chlorides 4,000 ppm Recovery Chlorides 4,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2037</u>		<u>3289</u>	<u>8:00</u>
(B) First Initial Flow Pressure		<u>49.93</u>		(depth) <u>4045</u>	T-Started <u>0904</u>
(C) First Final Flow Pressure		<u>67</u>		Recorder No. <u>10242</u>	T-Open <u>1133</u>
(D) Initial Shut-In Pressure		<u>1142</u>		(depth) <u>4063</u>	T-Pulled <u>1504</u>
(E) Second Initial Flow Pressure		<u>67</u>		Recorder No. _____	T-Out <u>1706</u>
(F) Second Final Flow Pressure		<u>88</u>		(depth) _____	T-Off Location _____
(G) Final Shut-in Pressure		<u>958</u>		PSI Initial Opening <u>30</u>	Test <u>800</u>
(Q) Final Hydrostatic Mud		<u>2012</u>		PSI Initial Shut-in <u>60</u>	Jars <u>200</u>
				Final Flow <u>60</u>	Safety Joint <u>50</u>
				Final Shut-in <u>60</u>	Straddle _____

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Approved By [Signature]  
 Our Representative [Signature]

Extra Packer \_\_\_\_\_  
 Elec. Rec. ✓ 150  
 Mileage ✓ 32  
 Other \_\_\_\_\_  
 TOTAL PRICE \$ 1232



**CHART PAGE**

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

