

DRILL STEM TEST REPORT

Prepared For: **Five Star Energy, Inc.**

215 E. 14th
Harper, KS 67058

ATTN: Arden Ratzlaff

30-29s-6w

Maple #2-30

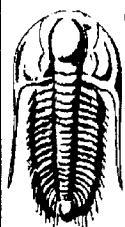
Start Date: 2005.11.05 @ 03:20:26

End Date: 2005.11.05 @ 13:15:11

Job Ticket #: 21431 DST #: 1

API 15-095-22004-00-00

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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Maple #2-30

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Job Ticket: 21431

DST#: 1

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Test Start: 2005.11.05 @ 03:20:26

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 06:51:26

Time Test Ended: 13:15:11

Test Type: Conventional Bottom Hole

Tester: Davy Cline

Unit No: 24

Interval: **4120.00 ft (KB) To 4136.00 ft (KB) (TVD)**

Total Depth: **4136.00 ft (KB) (TVD)**

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

Reference Elevations: **1531.00 ft (KB)**

1526.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6753

Inside

Press@RunDepth: **122.12 psig @ 4121.00 ft (KB)**

Start Date: **2005.11.05**

End Date:

2005.11.05

Capacity: **7000.00 psig**

Last Calib.: **2005.11.05**

Start Time: **03:20:27**

End Time:

13:15:11

Time On Btm: **2005.11.05 @ 06:49:41**

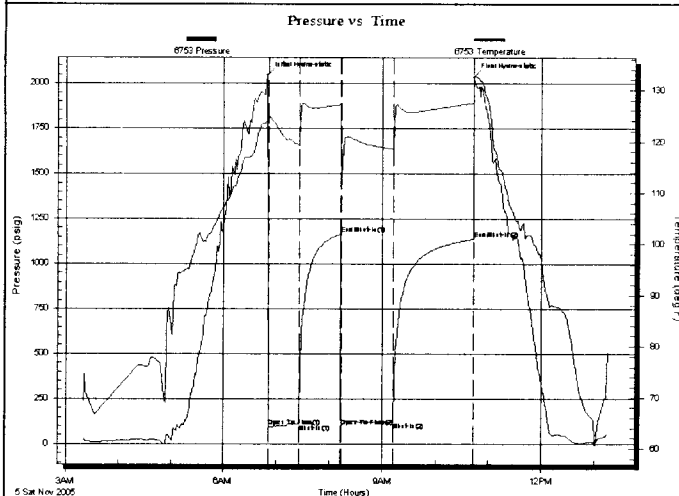
Time Off Btm: **2005.11.05 @ 10:43:41**

TEST COMMENT: IF: Strong blow. BOB 15 sec. GTS 7 1/2 min. Gauged gas.

IS: Bled off. No blow back.

FF: Strong blow. BOB immediately. Gauged gas.

FSI: Bled off. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2044.99	124.02	Initial Hydro-static
2	94.41	124.28	Open To Flow (1)
36	112.66	119.23	Shut-In(1)
83	1164.28	127.17	End Shut-In(1)
84	94.83	112.74	Open To Flow (2)
143	122.12	118.48	Shut-In(2)
234	1138.08	127.50	End Shut-In(2)
234	2036.85	132.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	GCM w/oil specs 5%g 95%w	0.39
60.00	VSI OCMM 13%g 2%o 30%w 55%w	0.30
60.00	SI OCMM 10%g 10%o 65%w 15%w	0.30
0.00	Gas in all fluid free pipe.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	3.50	65.57
Last Gas Rate	0.38	12.00	96.71
Max. Gas Rate	0.38	18.50	120.52



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TOOL DIAGRAM

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Maple #2-30

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Job Ticket: 21431

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2005.11.05 @ 03:20:26

Tool Information

Drill Pipe:	Length: 3889.00 ft	Diameter: 2.25 inches	Volume: 19.13 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: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 20.32 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	77000.00 lb
Depth to Top Packer:	4120.00 ft			Final	77000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	39.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4098.00	
Shut In Tool	5.00			4103.00	
Hydraulic tool	5.00			4108.00	
Safety Joint	2.00			4110.00	
Packer	5.00			4115.00	23.00 Bottom Of Top Packer
Packer	5.00			4120.00	
Stubb	1.00			4121.00	
Recorder	0.00	6753	Inside	4121.00	
Perforations	12.00			4133.00	
Recorder	0.00	13400	Outside	4133.00	
Bullnose	3.00			4136.00	16.00 Bottom Packers & Anchor

Total Tool Length: 39.00



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FLUID SUMMARY

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DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2005.11.05 @ 03:20:26

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:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.39 in³

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
80.00	GCM w/oil specs 5%g 95%m	0.393
60.00	VSI OCMW 13%g 2%o 30%w 55%m	0.295
60.00	SI OCMW 10%g 10%o 65%w 15%m	0.295
0.00	Gas in all fluid free pipe.	0.000

Total Length: 200.00 ft

Total Volume: 0.983 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #: DC

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



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GAS RATES

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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)
1	15	0.38	3.50	65.57
1	20	0.38	6.50	76.56
1	25	0.38	8.50	83.89
1	30	0.38	10.00	89.38
2	10	0.38	18.50	120.52
2	20	0.38	15.50	109.53
2	30	0.38	14.00	104.04
2	40	0.38	12.50	98.54
2	50	0.38	12.00	96.71
2	60	0.38	12.00	96.71

Pressure vs. Time

