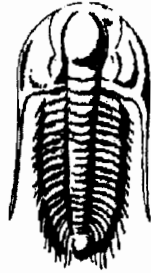


15-033-21439



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Hummon Corporation**

950 N. Tyler Rd.
Wichita, KS 67212

ATTN: Arden Ratzlaff

2/34/16W

Merrill Trust 2-2

Start Date: 2005.08.25 @ 17:01:02

End Date: 2005.08.26 @ 05:16:00

Job Ticket #: 22454 DST #: 1

Hummon Corporation

Merrill Trust 2-2

2/34/16W

DST # 1

Miss

2005.08.25

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hummon Corporation

950 N. Tyler Rd.
Wichita, KS 67212

ATTN: Arden Ratzlaff

Merrill Trust 2-2

2/34/16W

Job Ticket: 22454

DST#: 1

Test Start: 2005.08.25 @ 17:01:02

GENERAL INFORMATION:

Formation: **Miss**

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

Time Tool Opened: 20:58:00

Time Test Ended: 05:16:00

Test Type: **Conventional Bottom Hole**

Tester: **Dustin Rash**

Unit No: **20**

Interval: **5005.00 ft (KB) To 5034.00 ft (KB) (TVD)**

Total Depth: **5034.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **1637.00 ft (KB)**

1632.00 ft (CF)

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

Serial #: 6770 **Inside**

Press@RunDepth: **115.81 psig @ 5007.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.08.25**

End Date: **2005.08.26**

Last Calib.: **1899.12.30**

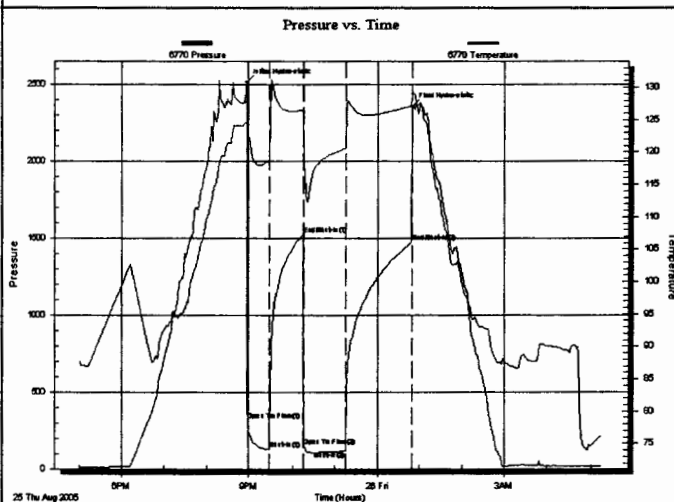
Start Time: **17:01:02**

End Time: **05:16:00**

Time On Btm: **2005.08.25 @ 20:56:30**

Time Off Btm: **2005.08.26 @ 00:49:00**

TEST COMMENT: IF-Very strong blow . BOB in 30 sec. GTS in 2 min. 30 sec. Gauged gas.
 ISI-Blow back present in 2 min. Built to 6 inches.
 FF-Very strong blow . BOB ASAO. GTS ASAO. Gauged gas.
 FSI-Blow back present in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2512.43	124.38	Initial Hydro-static
2	318.97	125.09	Open To Flow (1)
33	127.79	118.40	Shut-In(1)
79	1525.94	126.53	End Shut-In(1)
81	149.37	117.95	Open To Flow (2)
139	115.81	120.61	Shut-In(2)
233	1472.22	127.10	End Shut-In(2)
233	2354.57	128.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
260.00	40% Gas 60% Oil	1.28
60.00	40% Gas 10% Oil 50% Mud	0.37
50.00	10% Oil 90% Mud	0.70

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	18.00	218.56
Last Gas Rate	0.38	11.00	93.05
Max. Gas Rate	0.50	26.00	272.53



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hummon Corporation

Merrill Trust 2-2

950 N. Tyler Rd.
Wichita, KS 67212

2/34/16W

Job Ticket: 22454

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2005.08.25 @ 17:01:02

Tool Information

Drill Pipe:	Length: 4682.00 ft	Diameter: 3.80 inches	Volume: 65.68 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: 24000.00 lb
Drill Collar:	Length: 312.00 ft	Diameter: 2.25 inches	Volume: 1.53 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 67.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	5005.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:
Gas was flammable.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4984.00	
Shut In Tool	5.00			4989.00	
Hydraulic tool	5.00			4994.00	
Safety Joint	2.00			4996.00	
Packer	5.00			5001.00	22.00 Bottom Of Top Packer
Packer	4.00			5005.00	
Stubb	1.00			5006.00	
Perforations	1.00			5007.00	
Recorder	0.00	6770	Inside	5007.00	
Perforations	24.00			5031.00	
Recorder	0.00	10993	Inside	5031.00	
Bullnose	3.00			5034.00	29.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hummon Corporation

Merrill Trust 2-2

950 N. Tyler Rd.
Wichita, KS 67212

2/34/16W

Job Ticket: 22454

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2005.08.25 @ 17:01:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

4800 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: 1.10 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
260.00	40%Gas 60%Oil	1.279
60.00	40%Gas 10%Oil 50%Mud	0.368
50.00	10%Oil 90%Mud	0.701

Total Length: 370.00 ft Total Volume: 2.348 bbf

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: Gas was flammable.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Hummon Corporation

Merrill Trust 2-2

950 N. Tyler Rd.
Wichita, KS 67212

2/34/16W

Job Ticket: 22454

DST#: 1

ATTN: Arden Ratzlaff

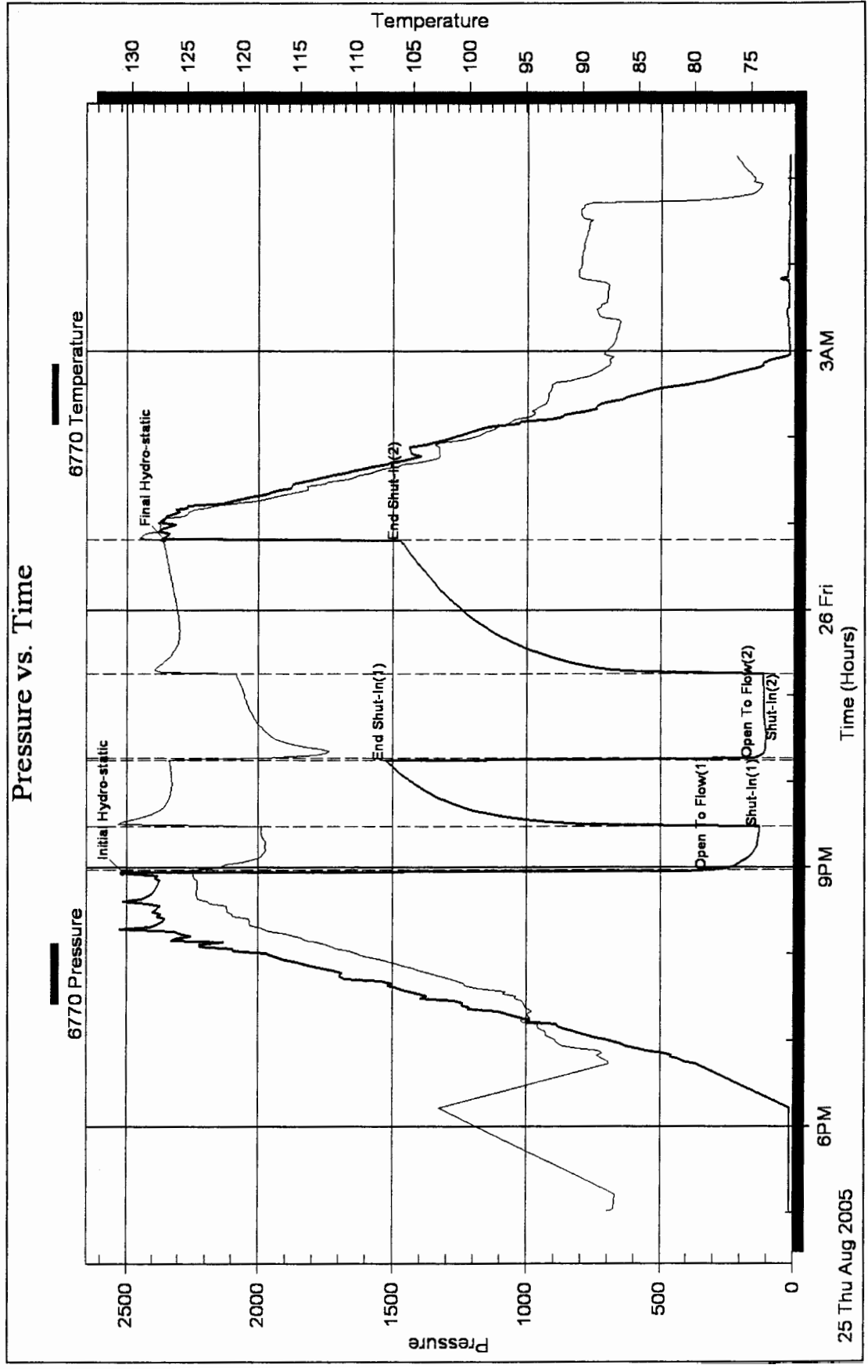
Test Start: 2005.08.25 @ 17:01:02

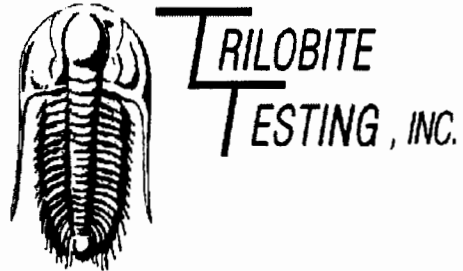
Gas Rates Information

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	10	0.50	18.00	218.56
1	10	0.50	18.00	218.56
1	20	0.38	15.00	107.70
1	30	0.38	13.00	100.37
2	10	0.50	26.00	272.53
2	20	0.38	18.00	118.69
2	30	0.38	16.00	111.36
2	40	0.38	14.00	104.04
2	50	0.38	12.00	96.71
2	60	0.38	11.00	93.05





DRILL STEM TEST REPORT

Prepared For: **Hummon Corporation**

950 N. Tyler Rd.
Wichita, KS 67212

ATTN: Arden Ratzlaff

2/34/16W

Merrill Trust 2-2

Start Date: 2005.08.26 @ 17:48:22

End Date: 2005.08.27 @ 04:31:05

Job Ticket #: 22455 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Hummon Corporation

Merrill Trust 2-2

2/34/16W

DST # 2

Mississippian

2005.08.26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hummon Corporation

950 N. Tyler Rd.
Wichita, KS 67212

ATTN: Arden Ratzlaff

Merrill Trust 2-2

2/34/16W

Job Ticket: 22455

DST#: 2

Test Start: 2005.08.26 @ 17:48:22

GENERAL INFORMATION:

Formation: **Mississippian**

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

Time Tool Opened: 22:46:35

Time Test Ended: 04:31:05

Test Type: **Conventional Bottom Hole**

Tester: **Dustin Rash**

Unit No: **20**

Interval: **5036.00 ft (KB) To 5060.00 ft (KB) (TVD)**

Reference Elevations: **1637.00 ft (KB)**

Total Depth: **5060.00 ft (KB) (TVD)**

1632.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Good**

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

Serial #: 6770

Inside

Press@RunDepth: **68.21 psig @ 5038.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.08.26**

End Date:

2005.08.27

Last Calib.: **1899.12.30**

Start Time: **17:48:22**

End Time:

04:31:05

Time On Btm: **2005.08.26 @ 22:44:35**

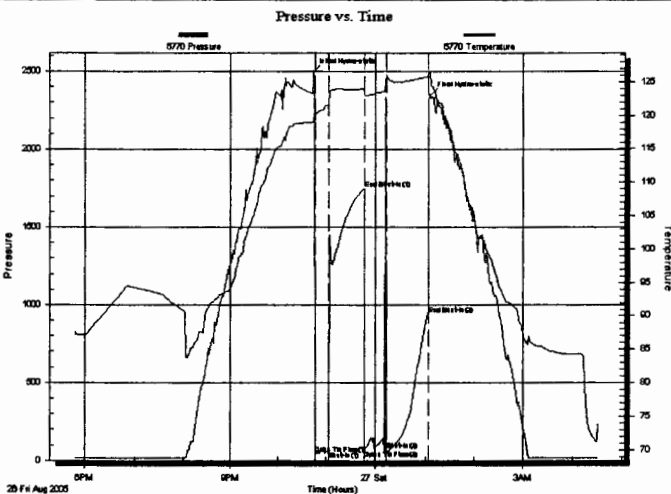
Time Off Btm: **2005.08.27 @ 01:05:35**

TEST COMMENT: IF-Very weak surface blow . Built to top of water.

IS-No blow back.

FF-Very weak surface blow . Built to top of water. Flushed tool.

FSI-No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2496.32	119.33	Initial Hydro-static
2	44.59	119.16	Open To Flow (1)
19	59.94	121.64	Shut-In(1)
63	1749.12	123.94	End Shut-In(1)
64	67.06	123.24	Open To Flow (2)
90	68.21	125.99	Shut-In(2)
139	938.92	125.76	End Shut-In(2)
141	2348.42	126.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	100% Mud	0.30

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hurmon Corporation

950 N. Tyler Rd.
Wichita, KS 67212

ATTN: Arden Ratzlaff

Merrill Trust 2-2

2/34/16W

Job Ticket: 22455

DST#: 2

Test Start: 2005.08.26 @ 17:48:22

Tool Information

Drill Pipe:	Length: 4713.00 ft	Diameter: 3.80 inches	Volume: 66.11 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: 25000.00 lb
Drill Collar:	Length: 312.00 ft	Diameter: 2.25 inches	Volume: 1.53 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume: 67.64 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	5036.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	46.00 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			5015.00	
Shut In Tool	5.00			5020.00	
Hydraulic tool	5.00			5025.00	
Safety Joint	2.00			5027.00	
Packer	5.00			5032.00	22.00 Bottom Of Top Packer
Packer	4.00			5036.00	
Stubb	1.00			5037.00	
Perforations	1.00			5038.00	
Recorder	0.00	6770	Inside	5038.00	
Perforations	19.00			5057.00	
Recorder	0.00	10993	Inside	5057.00	
Bullnose	3.00			5060.00	24.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hummon Corporation

Merrill Trust 2-2

950 N. Tyler Rd.
Wichita, KS 67212

2/34/16W

Job Ticket: 22455

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2005.08.26 @ 17:48:22

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:

5000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 23.94 in³

Gas Cushion Type:

Resistivity: 1.20 ohm.m

Gas Cushion Pressure:

psig

Salinity: 15000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	100% Mud	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:

Pressure vs. Time

