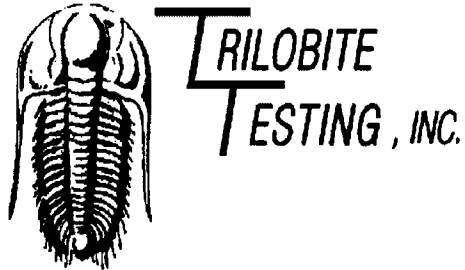


15-033-21366

25-33s-16w



DRILL STEM TEST REPORT

Prepared For: **Hummon Corp.**

950 N. Tyler Road
Wichita, Ks 67212-3240

ATTN: Arden Ratzlaff

25-33s-16w Comanche

Merrill Trust 1-25

Start Date: 2003.08.16 @ 11:16:19

End Date: 2003.08.16 @ 19:31:04

Job Ticket #: 17098 DST #: 3

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 Corp.

950 N. Tyler Road
Wichita, Ks 67212-3240

ATTN: Arden Ratzlaff

Merrill Trust 1-25

25-33s-16w Comanche

Job Ticket: 17098

DST#: 3

Test Start: 2003.08.16 @ 11:16:19

GENERAL INFORMATION:

Formation: **Miss**

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

Time Tool Opened: 13:58:49

Time Test Ended: 19:31:04

Test Type: Conventional Bottom Hole

Tester: **Nathan**

Unit No: **16**

Interval: **5178.00 ft (KB) To 5262.00 ft (KB) (TVD)**

Total Depth: **5262.00 ft (KB) (TVD)**

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

Reference Elevations: **1762.00 ft (KB)**

1749.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 3310

Inside

Press@RunDepth: **170.91 psig @ 5179.00 ft (KB)**

Start Date: **2003.08.16**

End Date:

2003.08.16

Start Time: **11:16:20**

End Time:

19:31:04

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

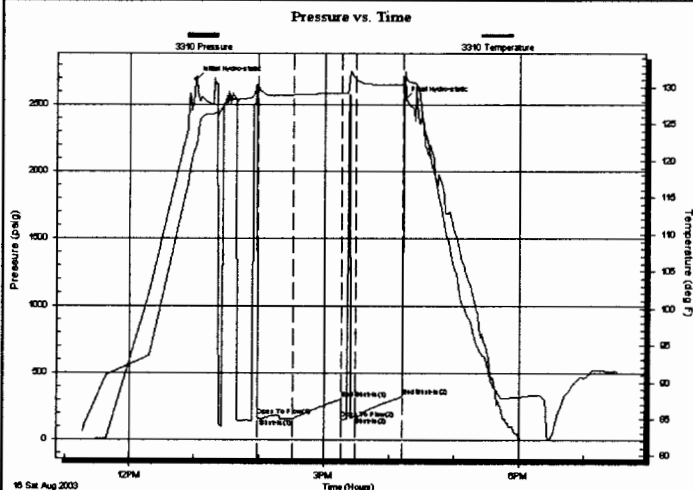
Time On Btm: **2003.08.16 @ 13:00:34**

Time Off Btm: **2003.08.16 @ 16:13:04**

TEST COMMENT: **IF- No Blow (tool slid 18ft to bottom took drink of mud) not enough pres. or perm to flow past heavy mud**

IS- No Blow

FF- No Blow (not enough bottom hole pressure or not enough permeability to flow pa



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2687.53	121.68	Initial Hydro-static
59	178.18	130.22	Open To Flow (1)
91	158.98	129.02	Shut-In(1)
135	308.06	129.29	End Shut-In(1)
135	155.77	129.32	Open To Flow (2)
149	170.91	131.08	Shut-In(2)
192	327.99	130.37	End Shut-In(2)
193	2538.33	130.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
255.00	Drig mud	1.88
60.00	SO&G Cut Mud 2%oil 1%gas 97%mu	0.84

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hummon Corp.

950 N. Tyler Road
Wichita, Ks 67212-3240

ATTN: Arden Ratzlaff

Merrill Trust 1-25

25-33s-16w Comanche

Job Ticket: 17098

DST#: 3

Test Start: 2003.08.16 @ 11:16:19

Tool Information

Drill Pipe:	Length: 5002.00 ft	Diameter: 3.80 inches	Volume: 70.16 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 110000.0 lb
		Total Volume:	71.07 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	5178.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			5157.00	
S.I. Tool	5.00			5162.00	
HYD S.I. Tool	5.00			5167.00	
Safety Joint	2.00			5169.00	
Packer	4.00			5173.00	22.00 Bottom Of Top Packer
Packer	5.00			5178.00	
Stubb	1.00			5179.00	
Recorder	0.00	3310	Inside	5179.00	
Perforations	13.00			5192.00	
C.O. Sub	1.00			5193.00	
Blank Spacing	61.00			5254.00	
C.O. Sub	1.00			5255.00	
Perforations	5.00			5260.00	
Recorder	0.00	10242	Outside	5260.00	
Bullnose	2.00			5262.00	84.00 Bottom Packers & Anchor

Total Tool Length: 106.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Hummon Corp.

950 N. Tyler Road
Wichita, Ks 67212-3240

ATTN: Arden Ratzlaff

Merrill Trust 1-25

25-33s-16w Comanche

Job Ticket: 17098

DST#: 3

Test Start: 2003.08.16 @ 11:16:19

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 11.57 in³

Resistivity: 0.00 ohm.m

Salinity: 8500.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
255.00	Drig mud	1.883
60.00	SO&G Cut Mud 2%oil 1%gas 97%mud	0.842

Total Length: 315.00 ft

Total Volume: 2.725 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 3

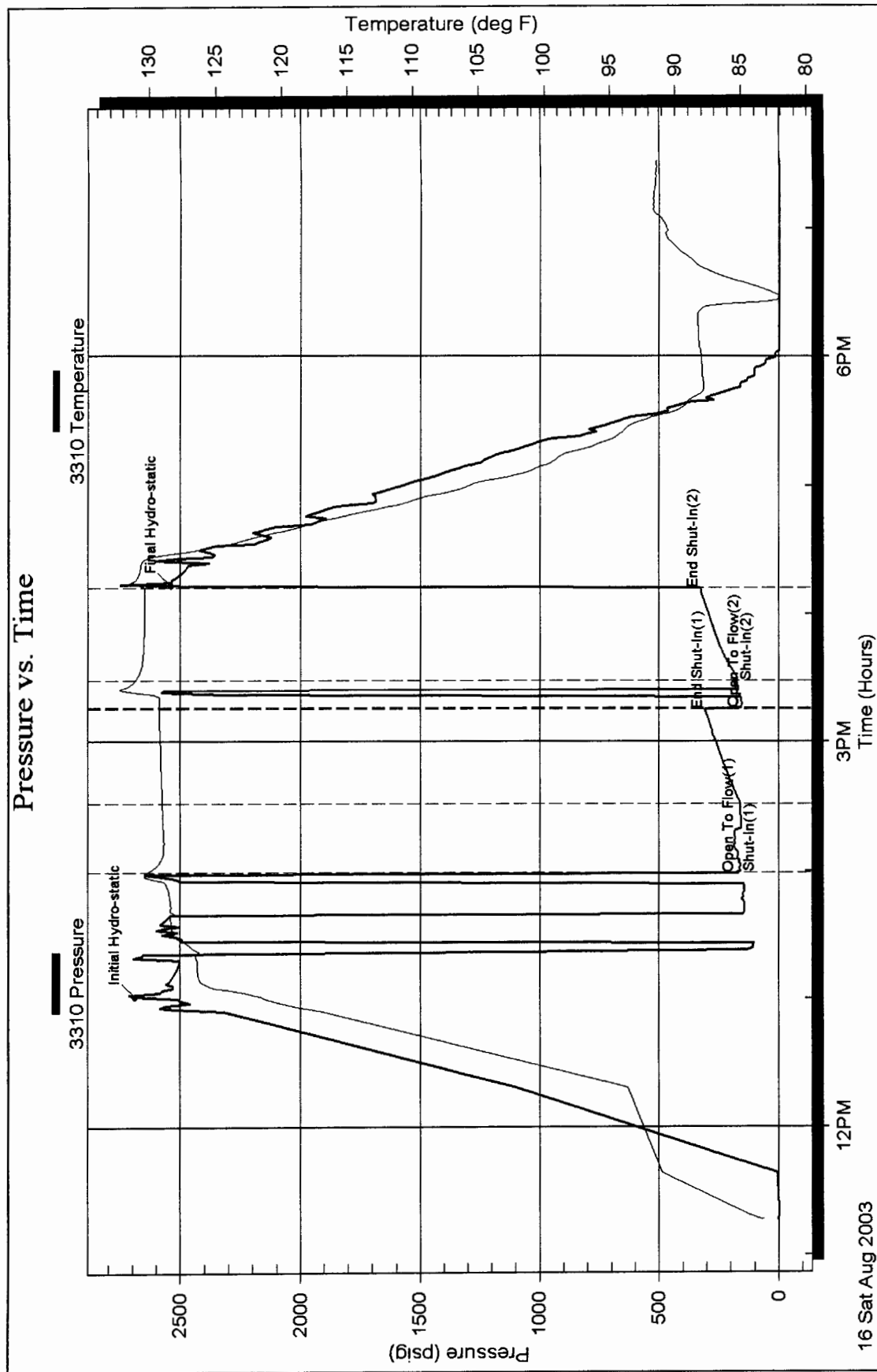
25-33s-16w Comanche

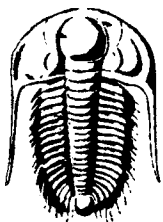
Hummon Corp.

Inside

Serial #: 3310

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17098

12/02

Test Ticket

Well Name & No. Merrill Trust 1-25 Test No. 3 Date 8-16-03
 Company Hummon Corp Zone Tested _____
 Address 950 N. Tyler Road Wichita, KS 67212-3240 Elevation 1762 KB 1749 GL
 Co. Rep / Geo. Arden Ratzlaff Cont. Duke Drtg #7 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 25 Twp. 33S Rge. 16W Co. Comanche State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 5178 5262 Initial Str Wt./Lbs. 45,000 Unseated Str Wt./Lbs. 75,000
 Anchor Length _____ 84' Wt. Set Lbs. 22,000 Wt. Pulled Loose/Lbs. 110,000
 Top Packer Depth _____ 5173 Tool Weight 2200
 Bottom Packer Depth _____ 5178 Hole Size 7 7/8" ☒ Rubber Size 6 3/4" ☒
 Total Depth _____ 5262 Wt. Pipe Run _____ Drill Collar Run 186
 Mud Wt. 9.1 LCM 6" Vis. 57 WL 11.6 Drill Pipe Size 4 1/2 Ft. Run 5002
 Blow Description IF- No Blow (tool slid 18ft to bottom) took drink of mud
ISI- No Blow
FF- No Blow (not enough pressure or perm. to push past mud)
FSI- No Blow

Recovery - Total Feet 315 GIP _____ Ft. in DC 186 Ft. in DP 129
 Rec. 255 Feet of Drtg mud
 Rec. 60 Feet of 500 gassy mud 2% oil 1% gas 97% mud
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 130 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides 8700 ppm Recovery _____ Chlorides 8700 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud		<u>2687</u>	PSI	Recorder No.	<u>3310</u>	Test
(B) First Initial Flow Pressure		<u>178</u>	PSI	(depth)	<u>5179</u>	Elec. Rec. <u>X</u>
(C) First Final Flow Pressure		<u>158</u>	PSI	Recorder No.	<u>10242</u>	Jars
(D) Initial Shut-In Pressure		<u>308</u>	PSI	(depth)	<u>5260</u>	Safety Jt. <u>X</u>
(E) Second Initial Flow Pressure		<u>156</u>	PSI	Recorder No.		Circ Sub
(F) Second Final Flow Pressure		<u>171</u>	PSI	(depth)		Sampler
(G) Final Shut-In Pressure		<u>328</u>	PSI	Initial Opening	<u>30</u>	Straddle
(Q) Final Hydrostatic Mud		<u>2538</u>	PSI	Initial Shut-In	<u>45</u>	Ext. Packer
				Final Flow	<u>15</u>	Shale Packer
				Final Shut-In	<u>45</u>	Mileage <u>68</u>
				T-On Location	<u>10:45</u>	Sub Total: <u>1168</u>
				T-Started	<u>12:15</u>	Std. By
				T-Open	<u>1400</u>	Other
				T-Pulled	<u>1615</u>	Total:
				T-Out	<u>18:45</u>	

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Arden Ratzlaff
 Our Representative Arden Ratzlaff

CHART PAGE

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

