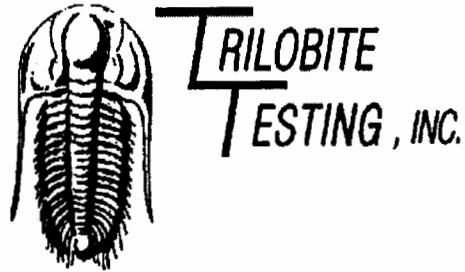


15-007-22730

32-33s-15w



DRILL STEM TEST REPORT

Prepared For: **Hummon Corp.**

950 N. Tyler
Wichita Ks. 67212

ATTN: Arden Ratzlaff

32-33s-15w Barber Ks

Platt Z Bar #1

Start Date: 2003.02.08 @ 00:47:37

End Date: 2003.02.08 @ 10:34:52

Job Ticket #: 16548

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

Hummon Corp.

950 N.Tyler
Wichita Ks. 67212

ATTN: Arden Ratzlaff

Platt Z Bar #1

32-33s-15w Barber Ks

Job Ticket: 16548

DST#: 1

Test Start: 2003.02.08 @ 00:47:37

GENERAL INFORMATION:

Formation: **Swope**

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

Time Tool Opened: 03:20:37

Time Test Ended: 10:34:52

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **4490.00 ft (KB) To 4564.00 ft (KB) (TVD)**

Total Depth: **4564.00 ft (KB) (TVD)**

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

Reference Elevations: **1719.00 ft (KB)**

1708.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: **2342**

Inside

Press@RunDepth: **209.18 psig @ 4491.00 ft (KB)**

Start Date: **2003.02.08**

End Date:

2003.02.08

Start Time: **00:47:38**

End Time:

10:34:52

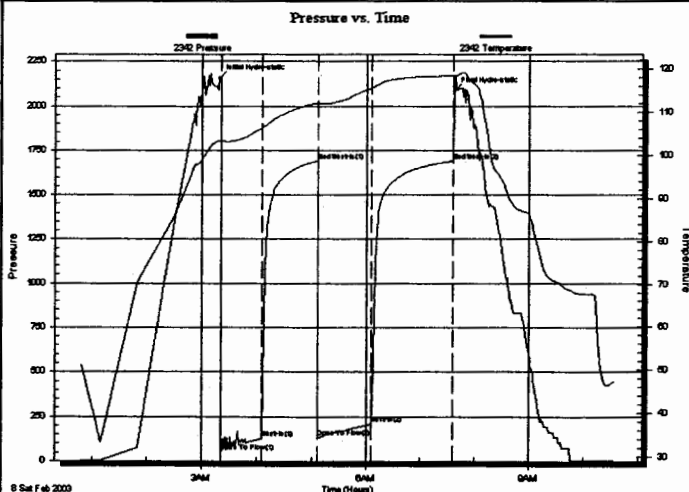
Capacity: **7000.00 psig**

Last Calib.: **2003.02.08**

Time On Btm: **2003.02.08 @ 03:19:07**

Time Off Btm: **2003.02.08 @ 07:37:07**

TEST COMMENT: **IF: Fair to strong blow . B.O.B. in 12 mins.
IS: No blow .
FF: Fair to strong blow . B.O.B. in 22 mins.
FS: Weak blow . 1" Dead in 30 mins.**



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.80	103.38	Initial Hydro-static
2	50.98	103.41	Open To Flow (1)
46	127.52	106.29	Shut-In (1)
107	1692.10	112.19	End Shut-In (1)
108	132.14	112.20	Open To Flow (2)
167	209.18	115.66	Shut-In (2)
257	1691.43	118.47	End Shut-In (2)
258	2081.87	118.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	SW with oil specs. Rw .16 ohms @ 41 d2.27	
60.00	SOC, WM 4%o 36%w 60%m	0.84
90.00	SOC, GM 4%o 22%g 74%m	1.26
0.00	310 ft. of gas in pipe	0.00

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.

Platt Z Bar #1

950 N.Tyler
Wichita Ks. 67212

32-33s-15w Barber Ks

Job Ticket: 16548

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2003.02.08 @ 00:47:37

Tool Information

Drill Pipe:	Length: 4378.00 ft	Diameter: 3.80 inches	Volume: 61.41 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 84000.00 lb
		Total Volume: 62.00 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4490.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	96.00 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			4469.00	
S.I. Tool	5.00			4474.00	
HMV	5.00			4479.00	
Safety Joint	2.00			4481.00	
Packer	4.00			4485.00	22.00 Bottom Of Top Packer
Packer	5.00			4490.00	
Stubb	1.00			4491.00	
Recorder	0.00	2342	Inside	4491.00	
Perforations	7.00			4498.00	
C.O. Sub	1.00			4499.00	
Blank Spacing	59.00			4558.00	
C.O. Sub	1.00			4559.00	
Recorder	0.00	13222	Outside	4559.00	
Bullnose	5.00			4564.00	74.00 Bottom Packers & Anchor

Total Tool Length: 96.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Hummon Corp.

Platt Z Bar #1

950 N.Tyler
Wichita Ks. 67212

32-33s-15w Barber Ks

Job Ticket: 16548

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2003.02.08 @ 00:47:37

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:

84000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	SW with oil specs. Rw .16 ohms @ 41 deg.	2.273
60.00	SOC,WM 4%o 36%w 60%m	0.842
90.00	SOC,GM 4%o 22%g 74%m	1.262
0.00	310 ft. of gas in pipe	0.000

Total Length: 390.00 ft

Total Volume: 4.377 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 2342

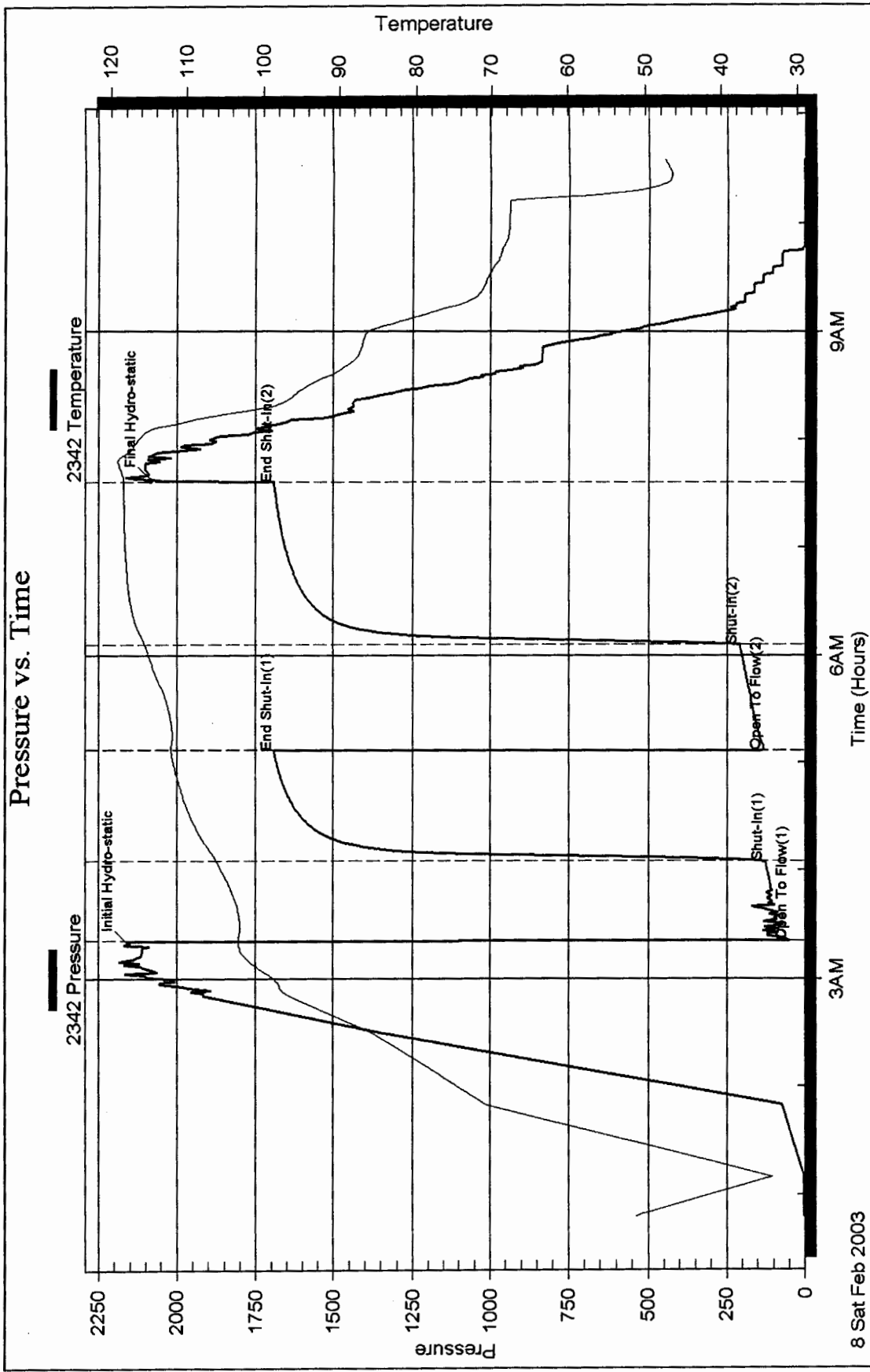
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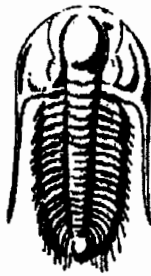
Hummon Corp.

32-33s-15w Barber Ks

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Hummon Corp.**

950 N. Tyler
Wichita Ks. 67212

ATTN: Arden Ratzlaff

32-33s-15w Barber Ks

Platt Z Bar #1

Start Date: 2003.02.08 @ 21:14:21

End Date: 2003.02.09 @ 04:13:06

Job Ticket #: 16549 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

Hummon Corp.

950 N.Tyler
Wichita Ks. 67212

ATTN: Arden Ratzlaff

Platt Z Bar #1

32-33s-15w Barber Ks

Job Ticket: 16549

DST#: 2

Test Start: 2003.02.08 @ 21:14:21

GENERAL INFORMATION:

Formation: **Hertha**

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

Time Tool Opened: 23:32:51

Time Test Ended: 04:13:06

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **4572.00 ft (KB) To 4606.00 ft (KB) (TVD)**

Total Depth: **4606.00 ft (KB) (TVD)**

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

Reference Elevations: **1719.00 ft (KB)**

1708.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: **2342**

Inside

Press@RunDepth: **53.41 psig @ 4573.00 ft (KB)**

Start Date: **2003.02.08**

End Date:

2003.02.09

Start Time: **21:14:22**

End Time:

04:13:06

Capacity: **7000.00 psig**

Last Calib.: **2003.02.09**

Time On Btm: **2003.02.08 @ 23:31:21**

Time Off Btm: **2003.02.09 @ 02:08:51**

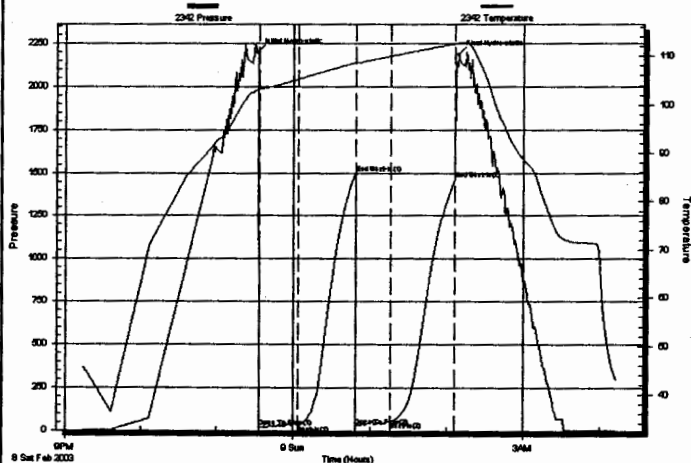
TEST COMMENT: **IF:Weak blow . 1/4 - 1/2".**

IS:No blow .

FF:No blow .

FS:No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.62	103.12	Initial Hydro-static
2	22.02	103.30	Open To Flow (1)
33	29.91	105.31	Shut-In(1)
77	1496.72	108.67	End Shut-In(1)
78	29.33	108.69	Open To Flow (2)
105	53.41	110.09	Shut-In(2)
155	1461.72	112.57	End Shut-In(2)
158	2187.61	112.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud with a few w oil specs	0.10

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hummon Corp.

Platt Z Bar #1

950 N.Tyler
Wichita Ks. 67212

32-33s-15w Barber Ks

Job Ticket: 16549

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2003.02.08 @ 21:14:21

Tool Information

Drill Pipe:	Length: 4439.00 ft	Diameter: 3.80 inches	Volume: 62.27 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	84000.00 lb
		Total Volume:	62.86 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	67000.00 lb
Depth to Top Packer:	4572.00 ft			Final	67000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	56.00 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			4551.00	
S.I. Tool	5.00			4556.00	
HMV	5.00			4561.00	
Safety Joint	2.00			4563.00	
Packer	4.00			4567.00	22.00 Bottom Of Top Packer
Packer	5.00			4572.00	
Stubb	1.00			4573.00	
Recorder	0.00	2342	Inside	4573.00	
Perforations	28.00			4601.00	
Recorder	0.00	13222	Outside	4601.00	
Bullnose	5.00			4606.00	34.00 Bottom Packers & Anchor

Total Tool Length: 56.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Hummon Corp.

Platt Z Bar #1

950 N.Tyler
Wichita Ks. 67212

32-33s-15w Barber Ks

Job Ticket: 16549

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2003.02.08 @ 21:14:21

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:

8000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud with a few w oil specs	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 2

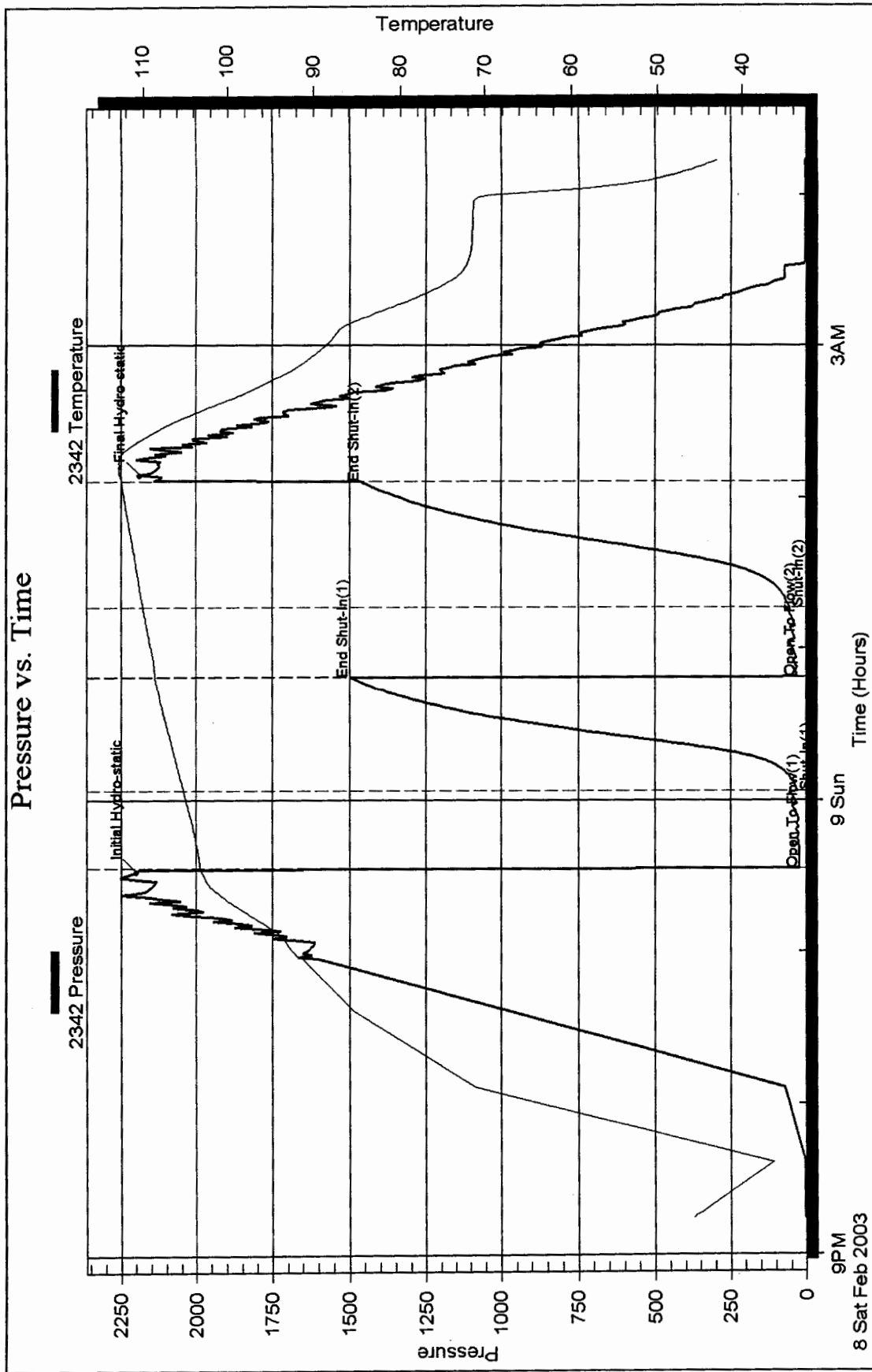
32-33s-15w Barber Ks

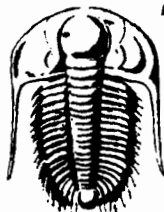
Hummon Corp.

Inside

Serial #: 2342

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

5399

No 16548

Test Ticket

Well Name & No. Platt 2 Bar #1 Test No. 1 Date 2-8-2003
 Company Hummel Corp. Zone Tested Drape
 Address 950 N. Tyler, Wichita, KS 67212 Elevation 1719 KB 1728 GL
 Co. Rep / Geo Arden Ratzloff Cont. Duke Drlg. #5 Est. Ft. of Pay Por. %
 Location: Sec. 32 Twp. 33S Rge. 15W Co. Barber State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4490 - 4564' Initial Str Wt./Lbs. 68,000 Unseated Str Wt./Lbs. 70,000
 Anchor Length 74' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 84,000
 Top Packer Depth 4485' Tool Weight 2100 #
 Bottom Packer Depth 4490' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 4564' Wt. Pipe Run None Drill Collar Run 120'
 Mud Wt. 9.0 LCM 3# Vis. 4S WL 8.0cc. Drill Pipe Size 4 1/2" K.H. Ft. Run 4378
 Blow Description IF: Fair to strong blow. B.O.B. in 12 mins. ISI: No blow.

FF: Fair to strong blow. B.O.B. in 22 mins. FSI: Weak blow.
1" dead in 30 mins.

Recovery — Total Feet 390 GIP 310 Ft. in DC 120 Ft. in DP 270
 Rec. 90 Feet Of SOC, GM 22 %gas 4 %oil %water 74 %mud
 Rec. 60 Feet Of SOC, WM %gas 4 %oil 36 %water 60 %mud
 Rec. 240 Feet Of Salt Water (w/ oil spec) %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 118 °F Gravity N/A °API D@ °F Corrected Gravity N/A °API
 RW 112 @ 41 °F Chlorides 84,000 ppm Recovery Chlorides 7,000 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud		2155	PSI	Recorder No. <u>2342</u>	T-On Location	2320
(B) First Initial Flow Pressure		51	PSI	(depth) <u>4491'</u>	T-Started	01:47
(C) First Final Flow Pressure		128	PSI	Recorder No. <u>13222</u>	T-Open	0320
(D) Initial Shut-In Pressure		1692	PSI	(depth) <u>4559'</u>	T-Pulled	0735
(E) Second Initial Flow Pressure		132	PSI	Recorder No. <u> </u>	T-Out	1034
(F) Second Final Flow Pressure		209	PSI	(depth) <u> </u>	T-Off Location	1115
(G) Final Shut-in Pressure		1491	PSI	Initial Opening <u>45</u>	Test	✓ 800 ⁰⁰
(Q) Final Hydrostatic Mud		2082	PSI	Initial Shut-in <u>60</u>	Jars	<u>No</u>
				Final Flow <u>60</u>	Safety Joint	✓ 50 ⁰⁰
				Final Shut-in <u>90</u>	Straddle	<u> </u>
				<u> </u>	Circ. Sub	<u> </u>
				<u> </u>	Sampler	<u> </u>

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Approved By

Arden Ratzloff

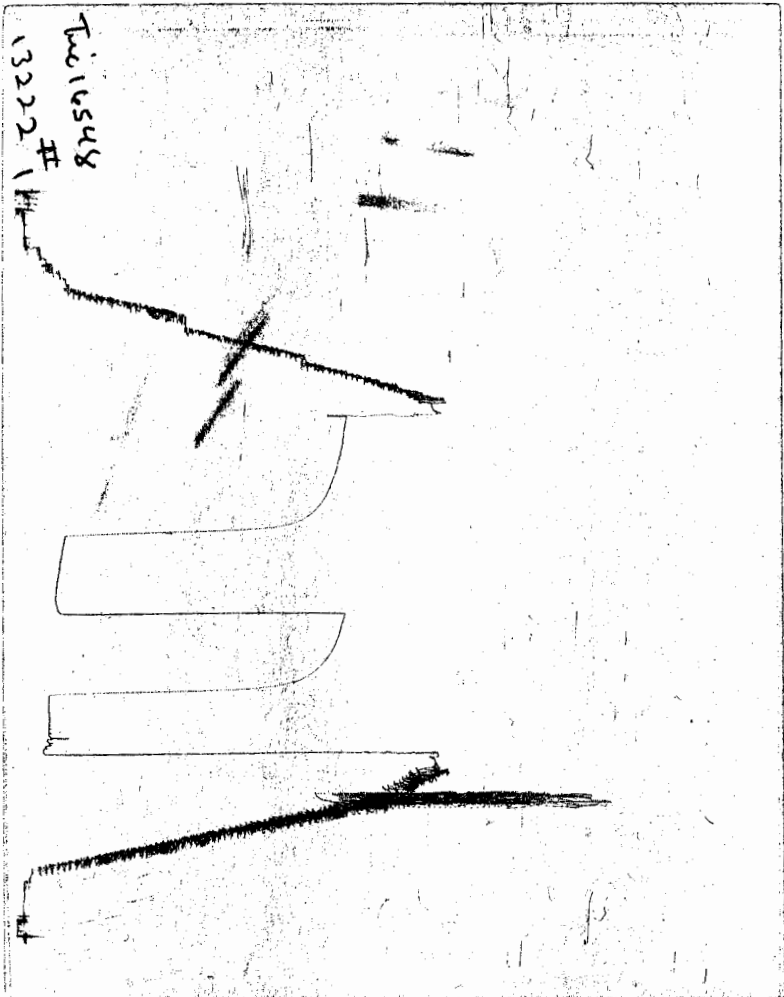
Our Representative

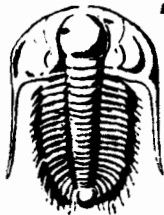
Cory Swathway

Extra Packer
 Elec. Rec. ✓ 150⁰⁰
 Mileage ✓ 60⁰⁰
 Other STAND BY ✓ 60⁰⁰
 TOTAL PRICE \$ ✓ 1120⁰⁰

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16549

Test Ticket

Well Name & No. <u>Platt 2 Bar #1</u>	Test No. <u>2</u>	Date <u>2-8-03</u>
Company <u>Hummon Corp.</u>	Zone Tested <u>Herttha</u>	
Address <u>950 N. Tyler, Wichita, Ks. 67212</u>	Elevation <u>1719</u> KB <u>1708</u> GL	
Co. Rep / Geo. <u>Arden Ratyliff</u>	Cont. <u>Dulse Dely #5</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>32</u> Twp. <u>33^S</u> Rge. <u>15^W</u>	Co. <u>Barber</u>	State <u>Ks.</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>4572 - 4606'</u>	Initial Str Wt./Lbs. <u>67,000</u>	Unseated Str Wt./Lbs. <u>67,000</u>
Anchor Length <u>34'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>84,000</u>
Top Packer Depth <u>4567'</u>	Tool Weight <u>2100#</u>	
Bottom Packer Depth <u>4572'</u>	Hole Size — 7 7/8" <u>✓</u>	Rubber Size — 6 3/4" <u>✓</u>
Total Depth <u>4606'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>120'</u>
Mud Wt. <u>9.0</u> LCM <u>4#</u> Vis. <u>48</u> WL <u>8.8 cc.</u>	Drill Pipe Size <u>4 1/2" x H.</u>	Ft. Run <u>4439</u>
Blow Description <u>IF: Weak below, 1/4 - 1/2"</u>	<u>FSI: No below.</u>	

FF: No below. FSI: No below.

Recovery — Total Feet <u>20</u>	GIP <u>0</u>	Ft. in DC <u>20</u>	Ft. in DP <u> </u>
Rec. <u>20</u> Feet Of <u>Mud @ a few oil</u>	%gas	%oil	%water %mud
Rec. <u> </u> Feet Of <u>specs.</u>	%gas	%oil	%water %mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water %mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water %mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water %mud
BHT <u>113</u> °F Gravity <u>N/A</u>	°API D@ <u> </u>	°F Corrected Gravity <u>N/A</u>	°API <u> </u>
RW <u>NIC</u> @ <u> </u> °F	Chlorides <u>8,000</u> ppm Recovery	Chlorides <u>8,000</u> ppm System	

(A) Initial Hydrostatic Mud	AK-1 <u>2200</u> PSI	Alpine <u>alp</u> Recorder No. <u>2342</u>	T-On Location <u>2100</u>
(B) First Initial Flow Pressure	<u>22</u> PSI	(depth) <u>4573'</u>	T-Started <u>2114</u>
(C) First Final Flow Pressure	<u>30</u> PSI	Recorder No. <u>13222</u>	T-Open <u>2332</u> 11:13
(D) Initial Shut-In Pressure	<u>1497</u> PSI	(depth) <u>4601'</u>	T-Pulled <u>0918</u>
(E) Second Initial Flow Pressure	<u>29</u> PSI	Recorder No. <u> </u>	T-Out <u>0413</u>
(F) Second Final Flow Pressure	<u>33</u> PSI	(depth) <u> </u>	T-Off Location <u>0453</u>
(G) Final Shut-in Pressure	<u>1462</u> PSI	Initial Opening <u>30</u>	Test <u>✓</u> <u>8000</u>
(Q) Final Hydrostatic Mud	<u>2188</u> PSI	Initial Shut-in <u>45</u>	Jars <u> </u>
		Final Flow <u>30</u>	Safety Joint <u>✓</u> <u>50</u> 50
		Final Shut-in <u>45</u>	Straddle <u> </u>
			Circ. Sub <u> </u>
			Sampler <u> </u>

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Approved By

Arden Ratyliff

Our Representative

Gary Watson

Extra Packer

Elec. Rec. ✓ 1500

Mileage ✓ 60

Other

TOTAL PRICE \$ ✓ 1060.00

CHART PAGE

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

