

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co**

10500 E Berkeley Sq Pkwy
Ste 100
Wichita, KS 67206

ATTN: Kitt Noah

20-22-11 Stafford,KS

Gatton B 4

Start Date: 2011.09.01 @ 06:36:12

End Date: 2011.09.01 @ 15:27:12

Job Ticket #: 43963 DST #: 1

 **FILE**

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

ORIGINAL

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Hartman Oil Co

Gatton B 4

20-22-11 Stafford,KS

DST # 1

Arbuckle

2011.09.01



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DRILL STEM TEST REPORT

Hartman Oil Co
10500 E Berkeley Sq Pkwy
Ste 100
Wichita, KS 67206
ATTN: Kitt Noah

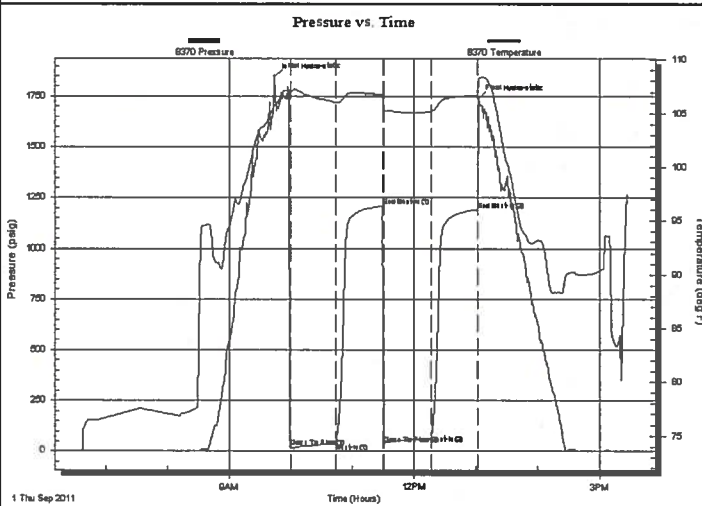
Gatton B 4
20-22-11 Stafford,KS
Job Ticket: 43963 **DST#: 1**
Test Start: 2011.09.01 @ 06:36:12

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:59:12
Time Test Ended: 15:27:12
Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 56
Interval: **3576.00 ft (KB) To 3585.00 ft (KB) (TVD)**
Reference Elevations: 1834.00 ft (KB)
Total Depth: 3585.00 ft (KB) (TVD)
1829.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good
KB to GR/CF: 5.00 ft

Serial #: 8370 Outside
Press@RunDepth: 78.58 psig @ 3577.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.09.01 End Date: 2011.09.01 Last Calib.: 2011.09.01
Start Time: 06:36:17 End Time: 15:27:12 Time On Btrr: 2011.09.01 @ 09:44:12
Time Off Btrr: 2011.09.01 @ 13:02:12

TEST COMMENT: IF: Strong Blow, BOB in 2 minutes
ISl: 1 1/12 inch Blow back
FF: Strong Blow, BOB in 10 seconds, GTS in 20 minutes, Gas was TSTM
FSl: 1 inch Blow back



PRESSURE SUMMARY

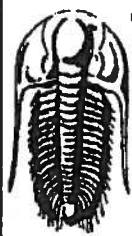
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.34	105.74	Initial Hydro-static
15	19.50	106.28	Open To Flow (1)
60	41.11	106.02	Shut-In(1)
105	1208.67	106.77	End Shut-In(1)
106	36.99	105.41	Open To Flow (2)
153	78.58	105.16	Shut-In(2)
197	1191.74	106.74	End Shut-In(2)
198	1741.72	108.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3444 GIP	0.00
60.00	GMCO 20%G 30%M 50%O	0.84
64.00	Gassy Oil 10%G 90%O	0.90

Gas Rates

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



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TOOL DIAGRAM

Hartman Oil Co

Gatton B 4

10500 E Berkeley Sq Fkwy
Ste 100
Wichita, KS 67206
ATTN: Kitt Noah

20-22-11 Stafford, KS

Job Ticket: 43963

DST#: 1

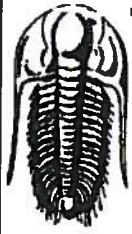
Test Start: 2011.09.01 @ 06:36:12

Tool Information

Drill Pipe:	Length: 3568.00 ft	Diameter: 3.80 inches	Volume: 50.05 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 50.05 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3576.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	29.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3557.00	
Shut in tool	5.00			3562.00	
HW	5.00			3567.00	
Packer	4.00			3571.00	20.00 Bottom Of Top Packer
Packer	5.00			3576.00	
Stubb	1.00			3577.00	
Recorder	0.00	8167	Inside	3577.00	
Recorder	0.00	8370	Outside	3577.00	
Perforations	3.00			3580.00	
Bullnose	5.00			3585.00	9.00 Bottom Packers & Anchor
Total Tool Length:	29.00				



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FLUID SUMMARY

Hartman Oil Co
10500 E Berkeley Sq Fkwy
Ste 100
Wichita, KS 67206
ATTN: Kitt Noah

Gatton B 4
20-22-11 Stafford,KS
Job Ticket: 43963 **DST#: 1**
Test Start: 2011.09.01 @ 06:36:12

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7900.00 ppm		
Filter Cake: 0.20 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3444 GIP	0.000
60.00	GMCO 20%G 30%M 50%O	0.842
64.00	Gassy Oil 10%G 90%O	0.898

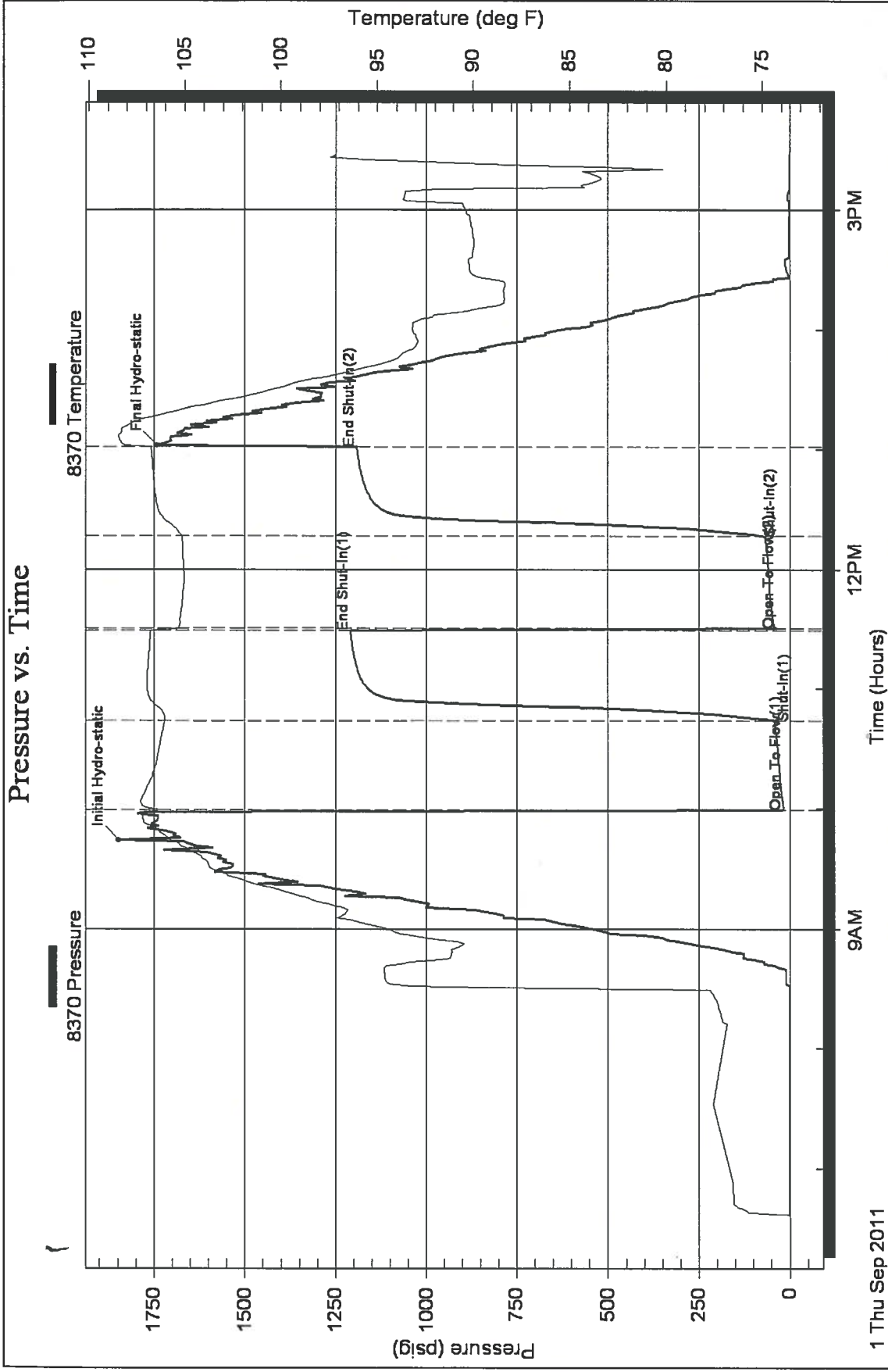
Total Length: 124.00 ft Total Volume: 1.740 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity was 42 @ 90 degrees

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
SEP 06 2011

Test Ticket

NO. 43963

Well Name & No. Gatton B 4 BY: _____ Test No. 1 Date 09/01/11
 Company Hartman Oil Co. Elevation 1834 KB 1829 GL _____
 Address 10500 E Berkeley Sq Pkwy Ste 100 Wichita, KS 67206
 Co. Rep / Geo. Kitt Noah Rig Southwind 6
 Location: Sec. 20 Twp. 22S Rge. 11W Co. Stafford State KS

Interval Tested 3576 - 3585 Zone Tested Arbuckle
 Anchor Length 9 Drill Pipe Run 3568 Mud Wt. 9.3
 Top Packer Depth 3571 Drill Collars Run 0 Vis 51
 Bottom Packer Depth 3576 Wt. Pipe Run 0 WL 10.2
 Total Depth 3585 Chlorides 7900 ppm System LCM 2#

Blow Description FF: Strong Blow, BOB in 2 minutes

ISI: 1 1/2 inch Blowback

FF: Strong Blow, BOB in 10 seconds, GTS in 20 minutes Gas was TSTM

FSI: 1 inch Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>3444</u>	<u>GIP</u>				
<u>64</u>	<u>GCO</u>	<u>10</u>	<u>90</u>		
<u>60</u>	<u>GMCO</u>	<u>20</u>	<u>50</u>		<u>30</u>
____	Feet of _____	%gas	%oil	%water	%mud
____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 124 BHT 107° Gravity 39 API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic 1846 Test 1125' T-On Location 05:45
 (B) First Initial Flow 19 Jars _____ T-Started 06:36
 (C) First Final Flow 41 Safety Joint _____ T-Open 09:59
 (D) Initial Shut-In 1209 Circ Sub _____ T-Pulled 13:01
 (E) Second Initial Flow 37 Hourly Standby 3/4 hr 75' T-Out 15:27
 (F) Second Final Flow 79 Mileage 80 112' Comments _____
 (G) Final Shut-In 1192 Sampler _____
 (H) Final Hydrostatic 1742 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1312-
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1312-

Approved By Kitt Noah

Our Representative _____

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