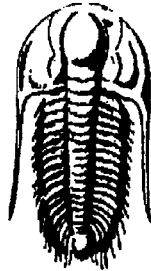


CONFIDENTIAL

15-077-21431



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: Hartman Oil Co. Inc.

1000 Rock Rd. Bldg A-200
Wichita, Ks. 67206

ORIGINAL

ATTN: Jon Christensen

32-33s-8w Harper KS

Zimmerman 3-C

Start Date: 2002.09.03 @ 16:34:45

End Date: 2002.09.03 @ 23:54:30

Job Ticket #: 16390 DST #: 1

RECEIVED
SEP 24 2002
KCC WICHITA

Hartman Oil Co. Inc.

Zimmerman 3-C

32-33s-8w Harper KS

DST # 1

Miss

2002.09.03

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

ORIGINAL



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co. Inc.
1223 N. Rock Rd. Bldg A-200
Wichita Ks. 67206
ATTN: Jon Christensen

Zimmerman 3-C
32-33s-8w Harper KS
Job Ticket: 16390 DST#: 1
Test Start: 2002.09.03 @ 16:34:45

Tool Information

Drill Pipe:	Length: 4335.00 ft	Diameter: 3.08 inches	Volume: 39.95 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: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 41.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4587.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

16390-250
SEP 24 2002
KCC WICHITA

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
S.I. Tool	5.00			4566.00		
HMV	5.00			4571.00		
Jars	5.00			4576.00		
Safety Joint	2.00			4578.00		
Packer	4.00			4582.00	26.00	Bottom Of Top Packer
Packer	5.00			4587.00		
Stubb	1.00			4588.00		
Recorder	0.00	3289	Inside	4588.00		
Perforations	20.00			4608.00		
Recorder	0.00		Outside	4608.00		
Bullnose	2.00			4610.00	23.00	Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co. Inc.
1223 N. Rock Rd. Bldg A-200
Wichita Ks. 67206
ATTN: Jon Christensen

Zimmerman 3-C
32-33s-8w Harper KS
Job Ticket: 16390 **DST#: 1**
Test Start: 2002.09.03 @ 16:34:45

Mud and Cushion Information

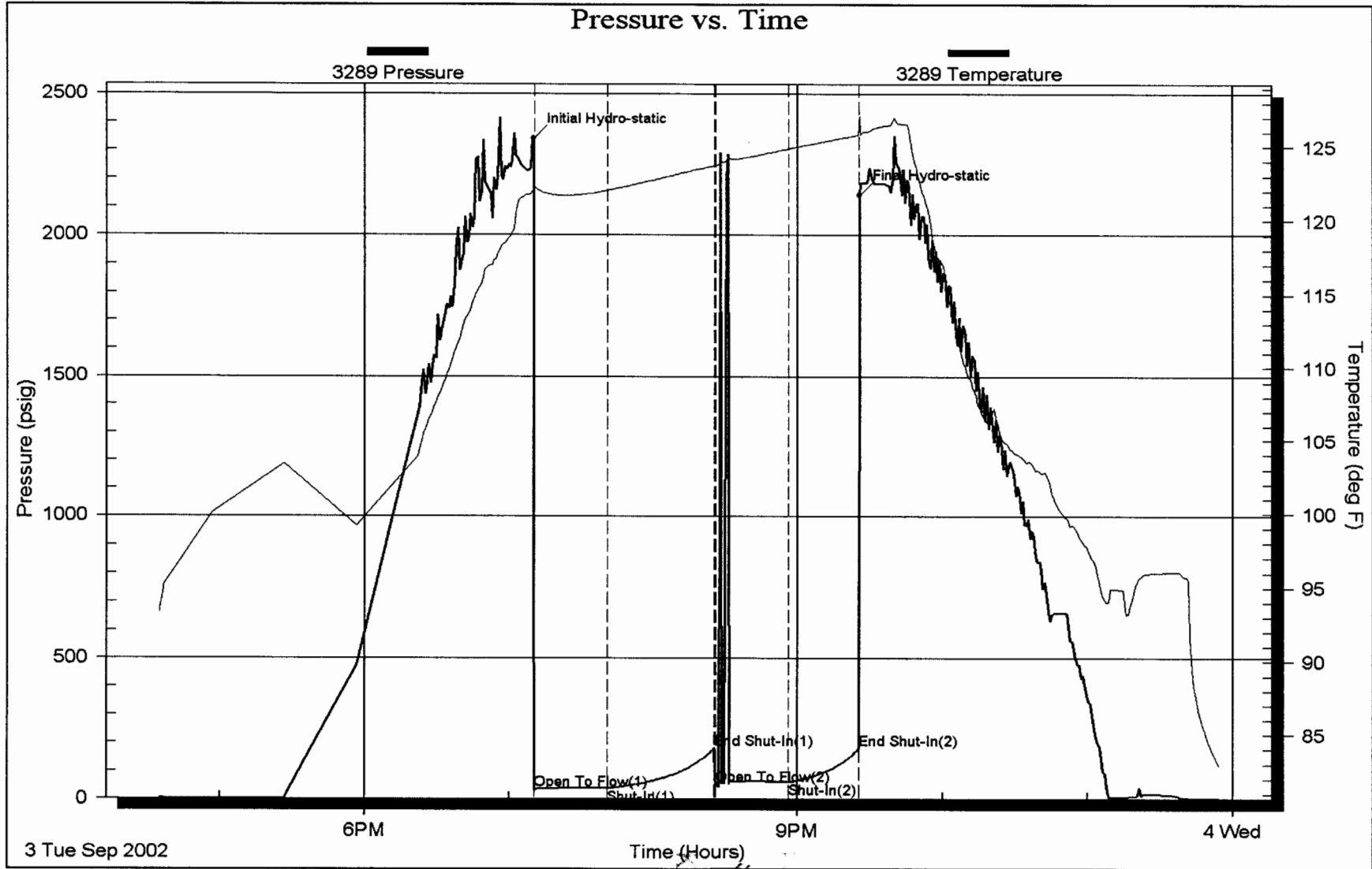
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.37 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.20 inches			

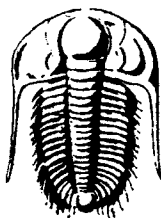
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	m 100%	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:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Handwritten: Zimmer H 3127 9126500

No 16390

Test Ticket

Well Name & No. Zimmerman 3-C Test No. 1 Date 9/3/02
 Company Nartman Oil Co Inc Zone Tested Miss
 Address 1223 N. Rock Rd Bldg A-200 Wichita, Ks 67206 Elevation 1327 KB 1318 GL
 Co. Rep / Geo. Jon Christensen Stirling Dalgard Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 32 Twp. 33s Rge. 8w Co. Harper State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4587 4610 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 50,000
 Anchor Length _____ 23 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 20,000
 Top Packer Depth _____ 4582 Tool Weight 2100
 Bottom Packer Depth _____ 4587 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" ✓
 Total Depth _____ 4610 Wt. Pipe Run 0 Drill Collar Run 250
 Mud Wt. 9.3 LCM 3 Vis. 45 WL 10.4 Drill Pipe Size 4 1/2 X H Ft. Run 4335
 Blow Description IF: Wear blow. 1/4", Blow died after 20 mins. IS: No blow.
FF: No blow. Flush tool. Got surge. No blow. FSI: No blow.

Recovery — Total Feet 60 GIP N/A Ft. in DC 60 Ft. in DP 0
 Rec. 60 Feet Of M %gas _____ %oil _____ %water 100 %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 126 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2340</u>		<u>3289</u>	<u>1530</u>
(B) First Initial Flow Pressure		<u>32</u>	PSI	(depth) <u>4588</u>	T-Started <u>1634</u>
(C) First Final Flow Pressure		<u>38</u>	PSI	Recorder No. <u>10242</u>	T-Open <u>1910</u>
(D) Initial Shut-in Pressure		<u>178</u>	PSI	(depth) <u>4608</u>	T-Pulled <u>2125</u>
(E) Second Initial Flow Pressure		<u>51</u>	PSI	Recorder No. _____	T-Out <u>0000</u>
(F) Second Final Flow Pressure		<u>61</u>	PSI	(depth) _____	T-Off Location _____
(G) Final Shut-in Pressure		<u>178</u>	PSI	Initial Opening <u>30</u>	Test <u>800</u>
(Q) Final Hydrostatic Mud		<u>2185</u>	PSI	Initial Shut-in <u>45</u>	Jars <u>200</u>
				Final Flow <u>30</u>	Safety Joint <u>50</u>
				Final Shut-in <u>30</u>	Straddle _____

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Approved By [Signature]
 Our Representative [Signature]

Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Elec. Rec. 150
 Mileage 65
 Other _____
 TOTAL PRICE \$ _____

CHART PAGE

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

