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TRILOBITE
TESTING, INC.

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DRILL STEM TEST REPORT

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Prepared for
Hart Energies, LLC
11051 S Memorial #200
Tulsa, OK 74133

ORIGINAL

Lawrence #1
1-31S-10W
Barber Co Kansas

KCC

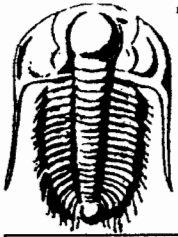
OCT 15 2003

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PO Box 362 - Hays, Kansas - 67601
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ORIGINAL


TRILOBITE
TESTING, INC.

 DRILL STEM TEST REPORT
 Hart Energies, LLC
 11051 S Memorial #200
 Tulsa, OK 74133

KCC

OCT 15 2003

CONFIDENTIAL

Well name#:	Lawrence #1	Date:	9/27/2003
Location#:	1-31S-10W Barber Co Kansas	Ticket #:	17809
		DST#	1

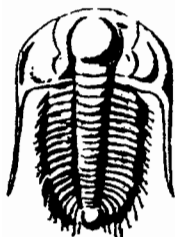
General Informaion:

Formation:	Indian Cave	Test Type:	Conventional	BHT:	
Interval:	2579-2650	Tester:	Nathan Budig	OIL API:	
Total Depth:	2650	Elevation:	1734 ft(KB)	H2O Salinity:	
Hole Diameter:	7 7/8"		1729 ft(CF)		
Start Data:	9/27/2003	Tool Weight:	2000	Mud Type:	Chemical
Start Time:	20:05:00	Weight Set on Packers:	22000	Mud Weight:	9.2
Time tool opened:	21:28:00	Weight to Pull Loose:	68000	Viscosity:	46
Time Off Btm:	21:28:00	Initial String Weight:	46000	Water Loss:	0
End Date:	9/28/03	Final String Weight:	52000	Resistivity:	
End Time:	3:30:00	Drill Pipe Length:	2330	Salinity:	
		Drill Collar Length:	247		
		Wt. Pipe Length:			

Test Comment:	IF: Strong blow, BOB in 35 sec. ISI: No blow FF: Strong blow, BOB in 55 sec. FSI: No blow
Recovery Length(ft):	620 muddy water 72%W 28%M 558 water 68%W 16%M 16%G

Gas Volume Report

Recorder #:	10242	Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:	Time:(min)		PSIG	size	
Initial Hydro-static:	1370				
Open to Flow (1):	304 30				
Shut-in (1):	479 60				
End Shut-in (1):	1133				
Open to Flow (2):	552 45				
Shut-in (2):	638 90				
End Shut-in (2):	1052				
Final Hydro-static:	1319				



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT
Hart Energies, LLC
11051 S Memorial #200
Tulsa, OK 74133

Well name#:	Lawrence #1	Date:	9/30/2003
Location#:	1-31S-10W Barber Co Kansas	Ticket #:	17810
		DST#	2

General Informaion:

Formation:	Miss	Test Type:	Conventional	BHT:	118
Interval:	4436-4470	Tester:	Nathan Budig	OIL API:	
Total Depth:	4470	Elevation:	1734 ft(KB)	H2O Salinity:	
Hole Diameter:	7 7/8"		1729 ft(CF)		

Start Data:	9/30/2003	Tool Weight:	2000	Mud Type:	Chemical
Start Time:	18:00:00	Weight Set on Packers:	22000	Mud Weight:	9
Time tool opened:	20:08:00	Weight to Pull Loose:	64000	Viscosity:	45
Time Off Btm:	23:53:00	Initial String Weight:	52000	Water Loss:	9.8
End Date:	10/1/03	Final String Weight:	52000	Resistivity;	
End Time:	2:15:00	Drill Pipe Length:	4201	Salinity:	
		Drill Collar Length:	247		
		Wt. Pipe Length:			

Test Comment:

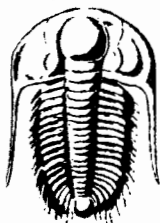
IF: Strong blow, GTS in 8 min.
ISl: No Blow
FF: Strong blow, GTS as soon as tool opened
FSI: Weak surface blow

Recovery

Length(ft): 196 gassy mud (slightly oil cut)
124 oil cut gassy mud

Gas Volume Report

Recorder #:	10242		Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:	Time:(min)			PSIG	size	
Initial Hydro-static:	2331		IR	10	3/8"	101
Open to Flow (1):	105	30		20	3/8"	135
Shut-in (1):	28	60		30	3/8"	162
End Shut-in (1):	1594	45			1/2"	173.3
Open to Flow (2):	152	90		10	1/2"	224.1
Shut-in (2):	154			20	1/2"	207.2
End Shut-in (2);	1543			30	1/2"	196
Final Hydro-static:	2248			40	1/2"	184.6
				45	1/2"	184.6



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17809

Test Ticket

Client Name & No. Lawrence #1 Test No. 1 Date 9-27-03
Company Hart Energies L.L.C. Zone Tested Indian Cawle
Address 11051 So. Memorial #200 Tulsa, OK 74133 Elevation 1734 KB 1728 GL
Rep / Geo. Bill Hart Cont. Malherd Drig Est. Ft. of Pay _____ Por. _____ %
Location: Sec. 1 Twp. 31 Rge. 10 Co. Barber State Ks
of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Val Tested 2579 - 2650 Initial Str Wt./Lbs. 46,000 Unseated Str Wt./Lbs. 2000
or Length 71' Wt. Set Lbs. 2,000 Wt. Pulled Loose/Lbs. 68,000
Packer Depth 2574 Tool Weight 2000
m Packer Depth 2579 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
Depth 2650 Wt. Pipe Run _____ Drill Collar Run 247
Wt. 9.2 LCM 3# Vis. 46 WL _____ Drill Pipe Size 4 1/2 Ft. Run 2330

Description IF - Strong Blow, O.B.B. in 35 sec
ISI - No Blow
FF - Strong Blow, O.B.B. in 1 min 55 sec
FSI - No Blow

Very - Total Feet 1178 GIP _____ Ft. in DC 247 Ft. in DP 931
620 Feet of muddy water 72% water 28% mud
558 Feet of water 68% water 16% mud 16% gas
Feet of _____
Feet of _____
Feet of _____

*F Gravity 142 @ 48.4 *API D @ _____ *F Corrected Gravity _____ *API
Chlorides 49,000 ppm Recovery _____ Chlorides _____ ppm System

AK-1	Alpine	Recorder No.	Test
Initial Hydrostatic Mud <u>1370</u>	PSI	<u>13630</u>	<u>700</u>
First Initial Flow Pressure <u>304</u>	PSI	<u>2638</u>	Elec. Rec. _____
First Final Flow Pressure <u>479</u>	PSI	<u>10242</u>	Jars _____
Initial Shut-In Pressure <u>1133</u>	PSI	<u>2648</u>	Safety Jt. _____
Second Initial Flow Pressure <u>552</u>	PSI		Circ Sub _____
Second Final Flow Pressure <u>1038</u>	PSI		Sampler _____
Initial Shut-In Pressure <u>1052</u>	PSI		Straddle _____
Initial Hydrostatic Mud <u>1319</u>	PSI		Ext. Packer _____

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

Welded By Willie D. Law

Representative John P. Rudy

Final Flow _____
Final Shut-In _____
T-On Location 19:15
T-Started 20:05
T-Open 21:28
T-Pulled 01:15
T-Out 03:30

Shale Packer _____
Mileage 45 45
Sub Total: 745
Std. By 15
Other _____
Total: 760

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

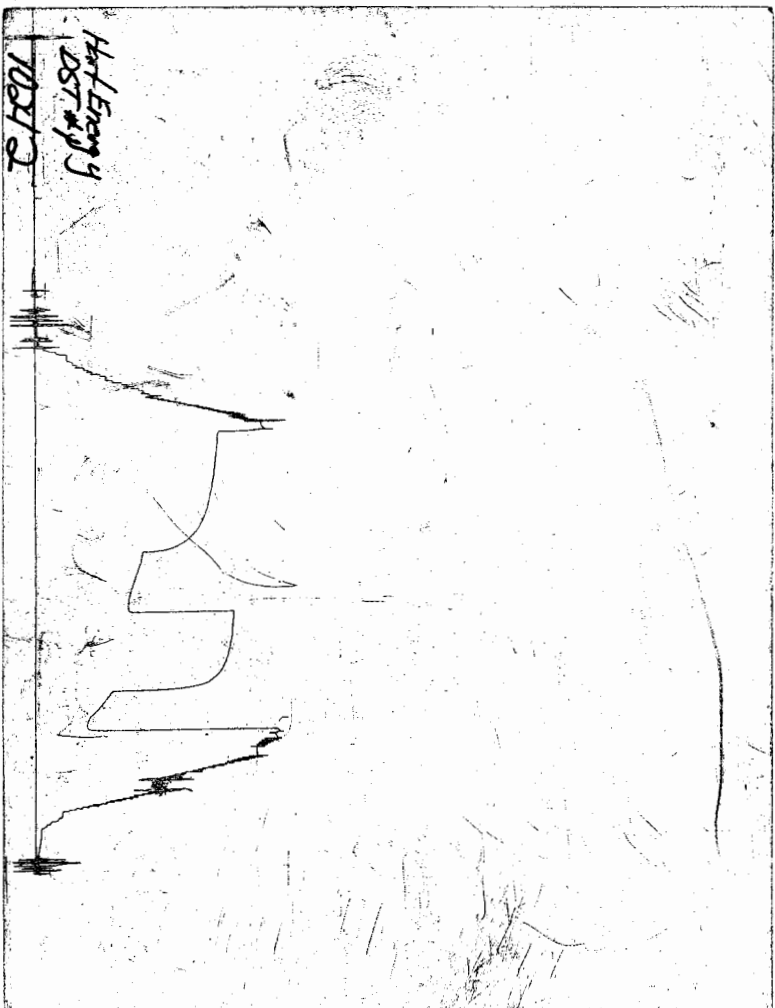
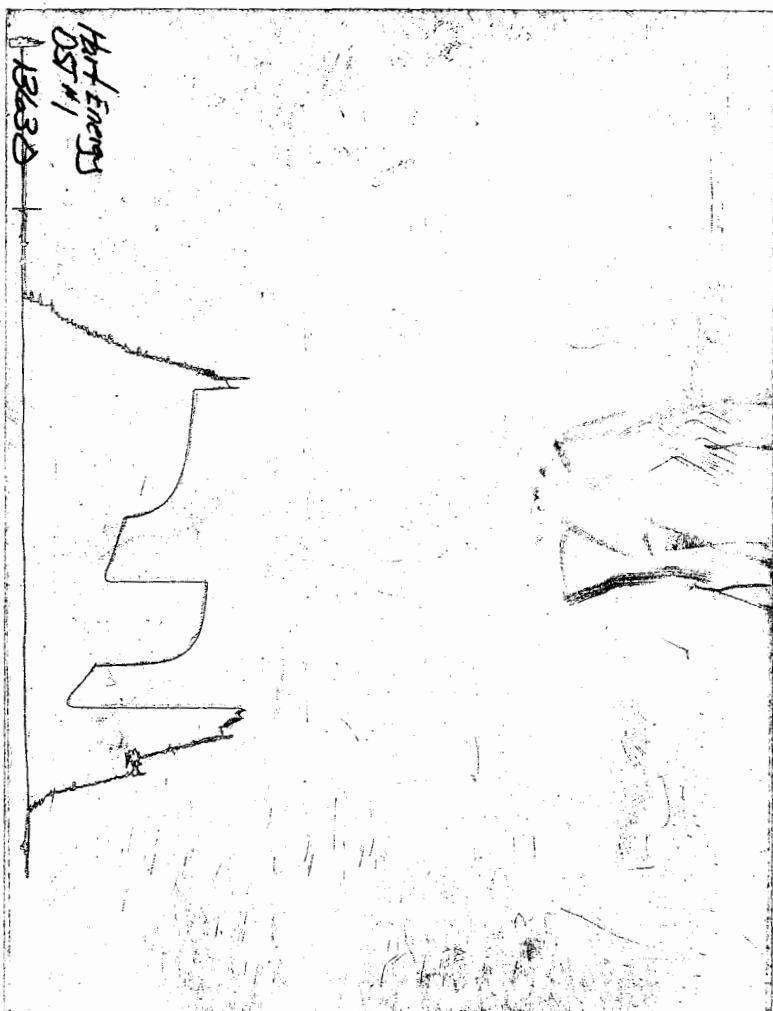
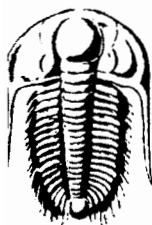


CHART PAGE
This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17810

Test Ticket

Name & No. Lawrence #1 Test No. 2 Date 9-30-03
Company Hart Energies L.L.C. Zone Tested Miss
Address 11051 So. Memorial + 2010 Tulsa, OK 74133 Elevation 1734 KB 1729 GL
Rep / Geo. Bill Hart Cont. Malcolm Dtg Est. Ft. of Pay _____ Por. _____ %
Location: Sec. 1 Twp. 31 Rge. 10 Co. Barber State Ks
No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Tool Tested 4436 - 4470 Initial Str Wt./Lbs 52000 Unseated Str Wt./Lbs 52000
Tool Length 34' Wt. Set Lbs 22000 Wt. Pulled Loose/Lbs 64000
Packer Depth 4431 Tool Weight 2000
Packer Depth 4436 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
Depth 4470 Wt. Pipe Run — Drill Collar Run 247
Wt. 9.0 LCM — Vis. 45 WL 9.8 Drill Pipe Size 4 1/2 Ft. Run 4201

Description IF- Strong Blow: GTS in 8min

ISI- No Blow

FF- Strong Blow: GTS as soon as tool opened

FSI- Weak surface blow

Very - Total Feet 320 GIP 4150 Ft. in DC 247 Ft. in DP 73

196 Feet of gassy mud (slightly oilcut)

124 Feet of Oilcut gassy mud

Feet of _____

Feet of _____

Feet of _____

118 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

@ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4,000 ppm System

AK-1 Alpine
Initial Hydrostatic Mud 2331 PSI Recorder No. 13630 Test X

First Initial Flow Pressure 105 PSI (depth) 4458 Elec. Rec. _____

First Final Flow Pressure 128 PSI Recorder No. 10242 * Jars _____

Initial Shut-In Pressure 1394 PSI (depth) 4468 Safety Jt. _____

Second Initial Flow Pressure 152 PSI Recorder No. _____ Circ Sub _____

Second Final Flow Pressure 154 PSI (depth) _____ Sampler _____

Final Shut-In Pressure 1543 PSI Initial Opening 30 Straddle _____

Final Hydrostatic Mud 2248 PSI Initial Shut-In 60 Ext. Packer _____

Final Flow 45 Shale Packer _____

Final Shut-In 90 Mileage 45

T-On Location 1740 Sub Total: _____

T-Started 1800 Std. By _____

T-Open 20:08 Other _____

T-Pulled 23:53 Total: _____

T-Out 02:15

Representative W. H. Hart

Signature [Signature]

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AND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR
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COST BY THE PARTY FOR WHOM THE TEST IS MADE.



GAS VOLUME REPORT

LAWRENCE UNIT #

2

DST NO.

Fernal Open

Remarks:

CHART PAGE

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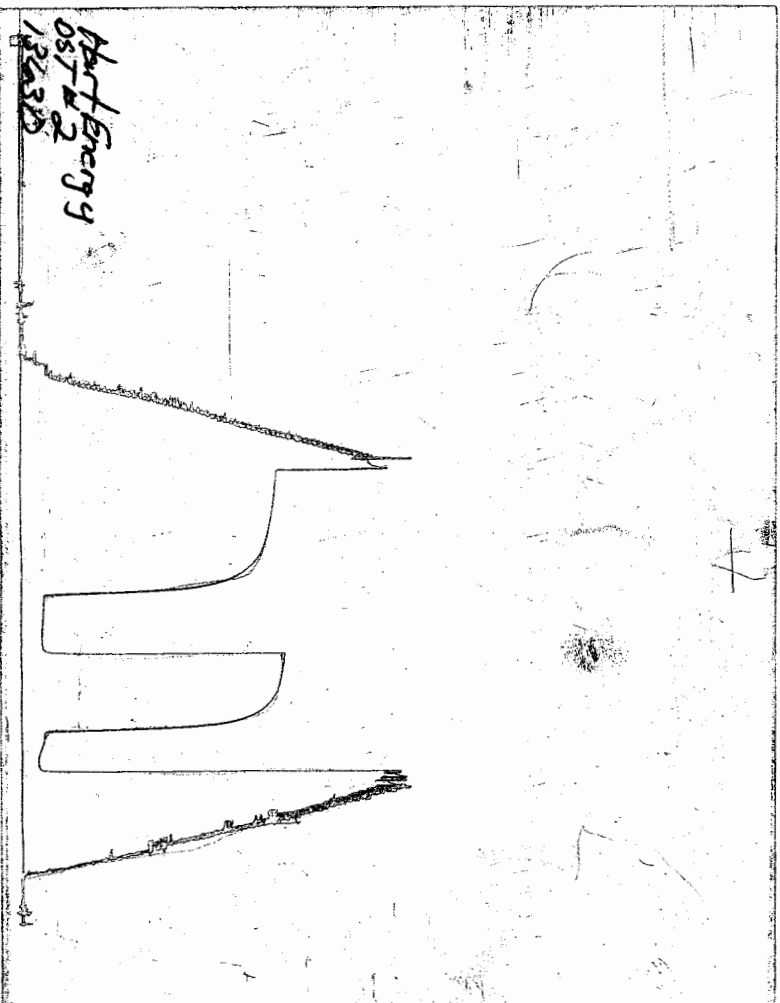


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