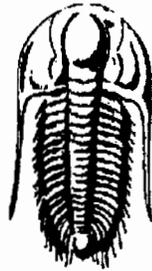


15-053-21119

27-16s-7w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Operating Co.**

562 W Hwy 4
Olmitz Ks 67564- 8561

ATTN: Tom Larson

27-16s 7w

Peppiatt 1-27

Start Date: 2003.10.26 @ 16:46:53

End Date: 2003.10.26 @ 22:17:23

Job Ticket #: 18444. DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Larson Operating Co.

Peppiatt 1-27

27-16s 7w

DST # 1

Grand Haven

2003.10.26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Operating Co.

Peppiatt 1-27

562 W Hwy 4
Olmritz Ks 67564- 8561

27-16s 7w

Job Ticket: 18444

DST#: 1

ATTN: Tom Larson

Test Start: 2003.10.26 @ 16:46:53

Tool Information

Drill Pipe:	Length: 1650.00 ft	Diameter: 3.80 inches	Volume: 23.15 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 23.76 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	1787.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.02 ft			
Tool Length:	56.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			1765.00	
Shut In Tool	5.00			1770.00	
Sampler	2.00			1772.00	
Hydraulic tool	5.00			1777.00	
Packer	5.00			1782.00	23.00 Bottom Of Top Packer
Packer	5.00			1787.00	
Stubb	1.00			1788.00	
Perforations	4.00			1792.00	
Recorder	0.01	6668	Inside	1792.01	
Perforations	25.00			1817.01	
Recorder	0.01	11085	Outside	1817.02	
Bullnose	3.00			1820.02	33.02 Bottom Packers & Anchor

Total Tool Length: 56.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Operating Co.

Peppiatt 1-27

562 W Hwy 4
Olmitz Ks 67564- 8561

27-16s 7w

Job Ticket: 18444

DST#: 1

ATTN: Tom Larson

Test Start: 2003.10.26 @ 16:46:53

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.14 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	gassy mud	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sample Chamber
250# 1.2 cu ft gas

Serial #: 6668

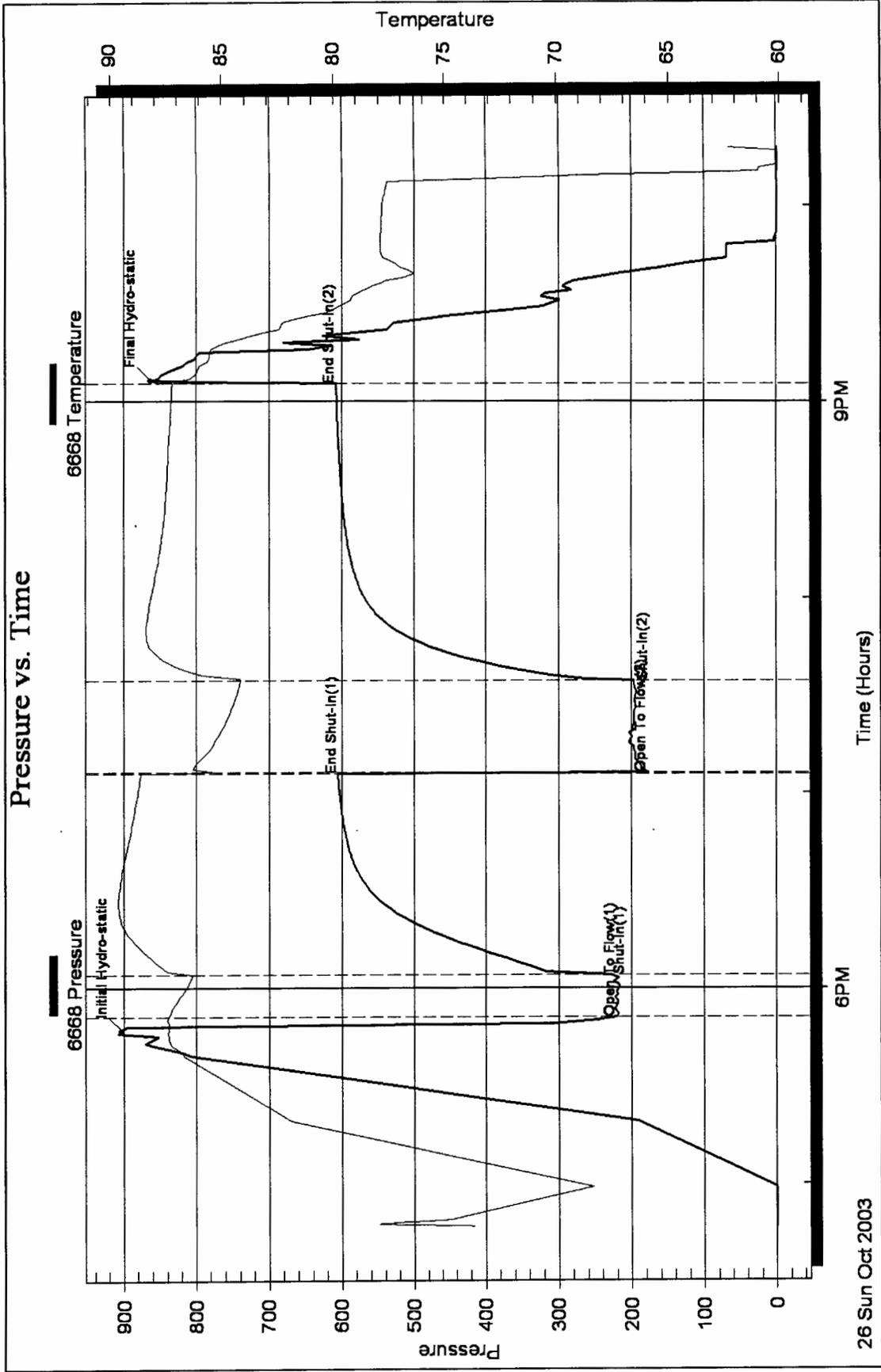
Inside

Larson Operating Co.

27-16s 7w

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Larson Operating Co.**

562 W Hwy 4
Olmitz Ks 67564- 8561

ATTN: Tom Larson

27-16s 7w

Peppiatt 1-27

Start Date: 2003.10.27 @ 12:40:51

End Date: 2003.10.27 @ 21:15:50

Job Ticket #: 18445 DST #: .2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Larson Operating Co.

Peppiatt 1-27

27-16s 7w

DST # 2

3rd Tarkio

2003.10.27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Operating Co.
562 W Hwy 4
Olmitz Ks 67564- 8561
ATTN: Tom Larson

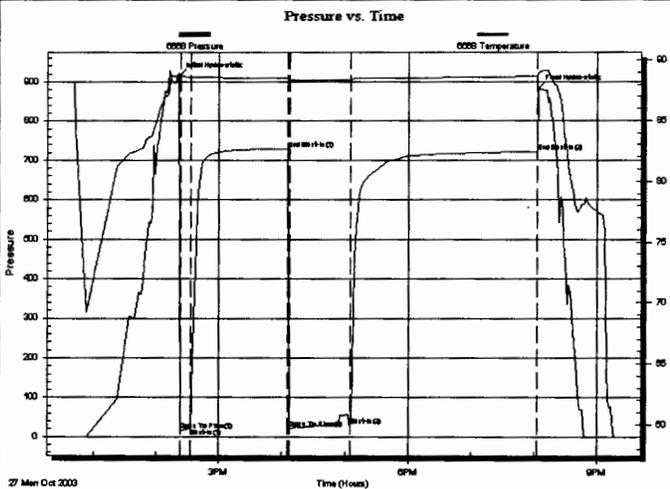
Peppiatt 1-27
27-16s 7w
Job Ticket: 18445 **DST#: 2**
Test Start: 2003.10.27 @ 12:40:51

GENERAL INFORMATION:

Formation: **3rd Tarkio**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:23:20
Time Test Ended: 21:15:50
Interval: **1887.00 ft (KB) To 1930.00 ft (KB) (TVD)**
Total Depth: 1930.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Paul Simpson
Unit No: 28
Reference Elevations: 1608.00 ft (KB)
1603.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6668 Inside
Press@RunDepth: 29.76 psig @ 1892.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2003.10.27 End Date: 2003.10.27 Last Calib.: 2003.10.28
Start Time: 12:40:51 End Time: 21:15:50 Time On Btm: 2003.10.27 @ 14:21:50
Time Off Btm: 2003.10.27 @ 20:03:50

TEST COMMENT: ff- 1" blow building to bottom of bucket in 7 minutes
FF- strong blow bottom of bucket as soon as tool opened gts in 12 minutes gauged w ith dcr 900



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	915.02	88.88	Initial Hydro-static
2	15.73	88.72	Open To Flow (1)
11	21.03	88.56	Shut-in(1)
104	729.57	88.55	End Shut-In(1)
106	20.37	88.38	Open To Flow (2)
163	29.76	88.35	Shut-in(2)
341	722.18	88.66	End Shut-In(2)
342	882.35	88.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	gassy mud	0.29

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Operating Co.

Peppiatt 1-27

562 W Hwy 4
Olmitz Ks 67564- 8561

27-16s 7w

Job Ticket: 18445

DST#: 2

ATTN: Tom Larson

Test Start: 2003.10.27 @ 12:40:51

Tool Information

Drill Pipe:	Length: 1744.00 ft	Diameter: 3.80 inches	Volume: 24.46 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 31000.00 lb
			<u>Total Volume: 25.07 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 31000.00 lb
Depth to Top Packer:	1887.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.02 ft			
Tool Length:	66.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			1865.00	
Shut In Tool	5.00			1870.00	
Sampler	2.00			1872.00	
Hydraulic tool	5.00			1877.00	
Packer	5.00			1882.00	23.00 Bottom Of Top Packer
Packer	5.00			1887.00	
Stubb	1.00			1888.00	
Perforations	4.00			1892.00	
Recorder	0.01	6668	Inside	1892.01	
Change Over Sub	1.00			1893.01	
Blank Spacing	30.00			1923.01	
Change Over Sub	1.00			1924.01	
Perforations	3.00			1927.01	
Recorder	0.01	11085	Outside	1927.02	
Bullnose	3.00			1930.02	43.02 Bottom Packers & Anchor

Total Tool Length: 66.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Operating Co.

Peppiatt 1-27

562 W Hwy 4
Olmitz Ks 67564- 8561

27-16s 7w

Job Ticket: 18445

DST#: 2

ATTN: Tom Larson

Test Start: 2003.10.27 @ 12:40:51

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	gassy mud	0.285

Total Length: 58.00 ft Total Volume: 0.285 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler

125 # 1.0 cu ft. gas

Serial #: 6668

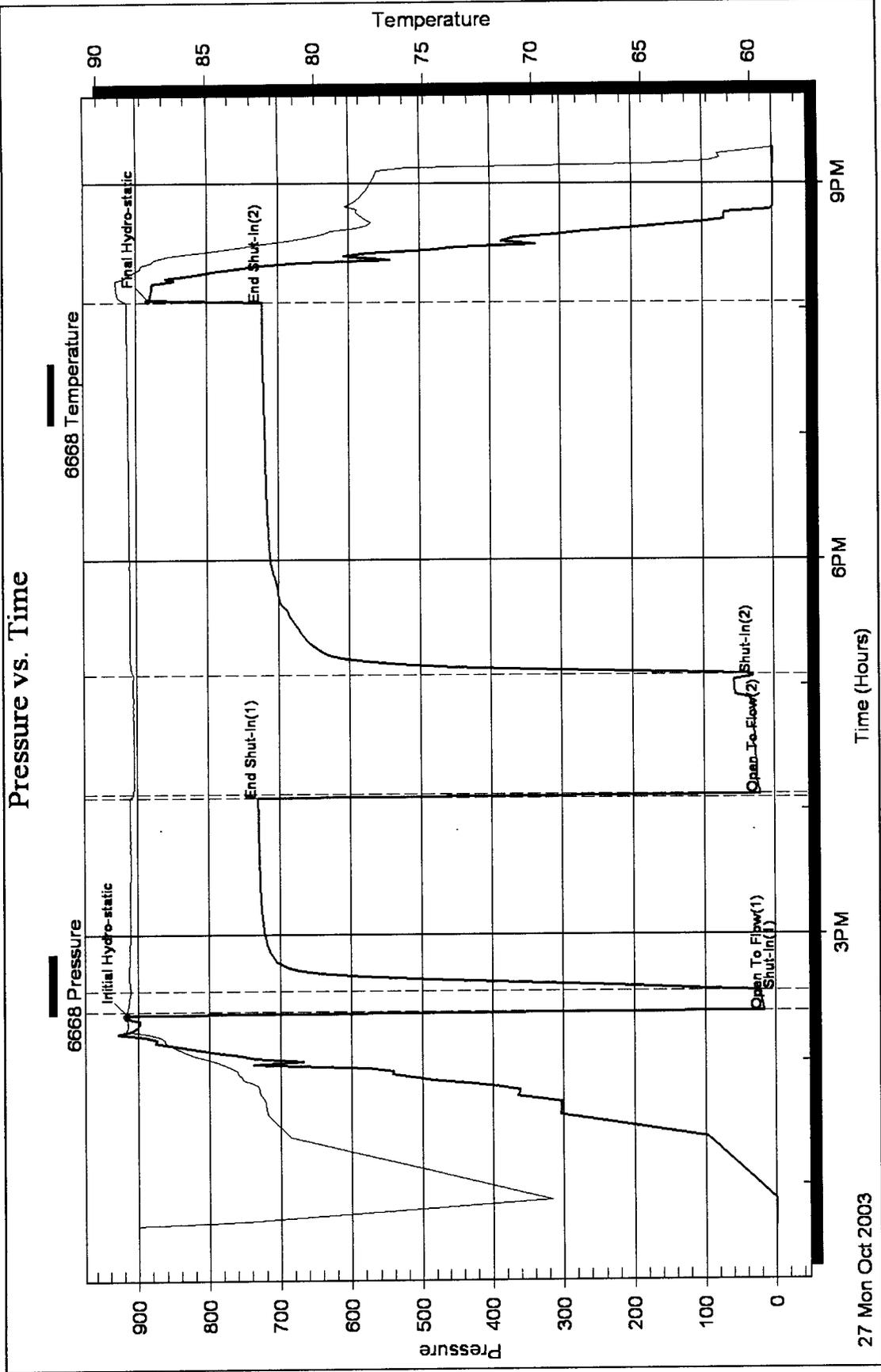
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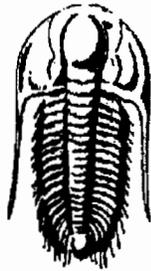
Larson Operating Co.

27-16s 7w

DST Test Number: 2

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Operating Co.**

562 W Hwy 4
Olmitz Ks 67564- 8561

ATTN: Tom Larson

27-16s 7w

Peppiatt 1-27

Start Date: 2003.10.28 @ 09:24:28

End Date: 2003.10.28 @ 15:23:27

Job Ticket #: 18446 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Larson Operating Co.

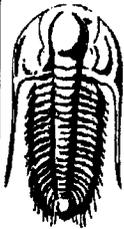
Peppiatt 1-27

27-16s 7w

DST # 3

Severy

2003.10.28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Operating Co.
562 W Hwy 4
Olmitz Ks 67564- 8561
ATTN: Tom Larson

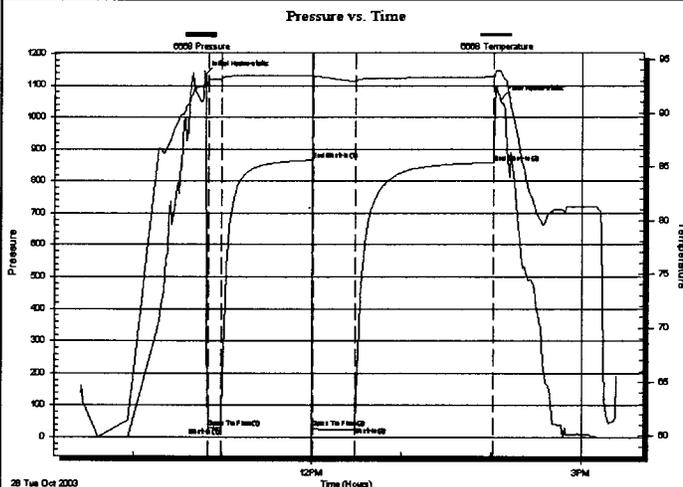
Peppiatt 1-27
27-16s 7w
Job Ticket: 18446 **DST#: 3**
Test Start: 2003.10.28 @ 09:24:28

GENERAL INFORMATION:

Formation: **Severy**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 10:50:27
Time Test Ended: 15:23:27
Test Type: **Conventional Bottom Hole**
Tester: **Ray Schwager**
Unit No: **28**
Interval: **2142.00 ft (KB) To 2182.00 ft (KB) (TVD)**
Reference Elevations: 1608.00 ft (KB)
Total Depth: 2182.00 ft (KB) (TVD) 1603.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: **Fair** KB to GR/CF: 5.00 ft

Serial #: 6668 **Inside**
Press@RunDepth: 32.51 psig @ 2150.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2003.10.28 End Date: 2003.10.28 Last Calib.: 2003.10.28
Start Time: 09:24:28 End Time: 15:23:27 Time On Btrm: 2003.10.28 @ 10:47:57
Time Off Btrm: 2003.10.28 @ 14:05:27

TEST COMMENT: **FFP-Strg bl in 1 min ISIP-GTS in 2 min**
FFP-GTS
Times 10-60-30-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1132.58	92.44	Initial Hydro-static
3	28.88	93.08	Open To Flow (1)
11	28.85	93.18	Shut-In(1)
72	865.57	93.53	End Shut-In(1)
73	29.30	93.46	Open To Flow (2)
102	32.51	92.96	Shut-In(2)
193	858.34	93.40	End Shut-In(2)
198	1055.16	93.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.50	5.95
Last Gas Rate	0.13	1.00	5.76



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Operating Co.

Peppiatt 1-27

562 W Hwy 4
Olmitz Ks 67564- 8561

27-16s 7w

Job Ticket: 18446

DST#: 3

ATTN: Tom Larson

Test Start: 2003.10.28 @ 09:24:28

Tool Information

Drill Pipe:	Length: 2019.00 ft	Diameter: 3.80 inches	Volume: 28.32 bbl	Tool Weight: 2400.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume:	28.93 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	2142.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.02 ft			
Tool Length:	63.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2120.00	
Shut In Tool	5.00			2125.00	
Sampler	2.00			2127.00	
Hydraulic tool	5.00			2132.00	
Packer	5.00			2137.00	23.00 Bottom Of Top Packer
Packer	5.00			2142.00	
Stubb	1.00			2143.00	
Perforations	7.00			2150.00	
Recorder	0.01	6668	Inside	2150.01	
Perforations	29.00			2179.01	
Recorder	0.01	11085	Outside	2179.02	
Bullnose	3.00			2182.02	40.02 Bottom Packers & Anchor

Total Tool Length: 63.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Operating Co.

Peppiatt 1-27

562 W Hwy 4
Olmitz Ks 67564- 8561

27-16s 7w

Job Ticket: 18446

DST#: 3

ATTN: Tom Larson

Test Start: 2003.10.28 @ 09:24:28

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler 50# gas .25ml 3000ml mud



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Larson Operating Co.

Peppiatt 1-27

562 W Hwy 4
Olmritz Ks 67564- 8561

27-16s 7w

Job Ticket: 18446

DST#: 3

ATTN: Tom Larson

Test Start: 2003.10.28 @ 09:24:28

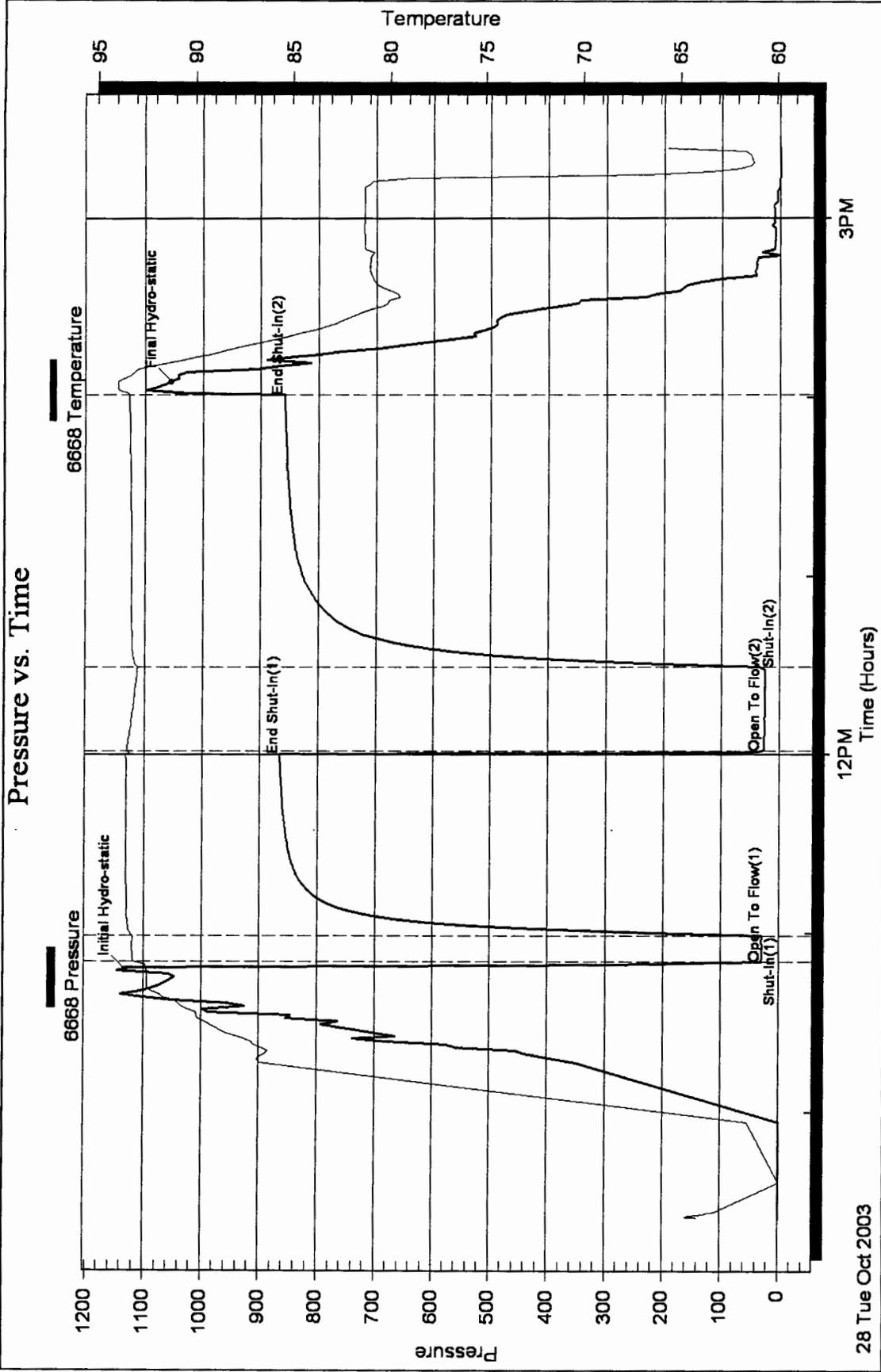
Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

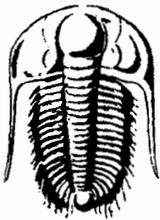
Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	5	0.13	1.50	5.95
2	10	0.13	1.00	5.76

Pressure vs. Time



x



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18444

INV 3951

05/03

Test Ticket

Well Name & No. Peppiat 1-27 Test No. 1 Date 10-26-03
 Company Larson Operating Co - Inc Zone Tested Grand Haven
 Address 562 W Hwy #4 Omitz, KS 67564-8561 Elevation 1609 KB 1603 GL
 Co. Rep / Geo. Steve Doug Cont. Vanfeldt #1 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 27 Twp. 16s Rge. 7w Co. Ellsworth State Ky
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 1787-1820 Initial Str Wt./Lbs. _____ Unseated Str Wt/Lbs. _____
 Anchor Length 33 Wt. Set Lbs. _____ Wt. Pulled Loose/Lbs. _____
 Top Packer Depth 1782 Tool Weight 2200
 Bottom Packer Depth 1787 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 1820 Wt. Pipe Run _____ Drill Collar Run 124
 Mud Wt. 9.2 LCM Vis. 46 WL 16.2 Drill Pipe Size 4 1/2" #1 Ft. Run 1650
 Blow Description Strong blow - bottom of bucket in 30 seconds - GTS 3 min

ff- strong blow - gauging gas with DCR 900

Recovery - Total Feet 70 GIP _____ Ft. in DC 70 Ft. in DP _____
 Rec. 70 Feet of gsy mud %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 _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 86 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides _____ ppm System

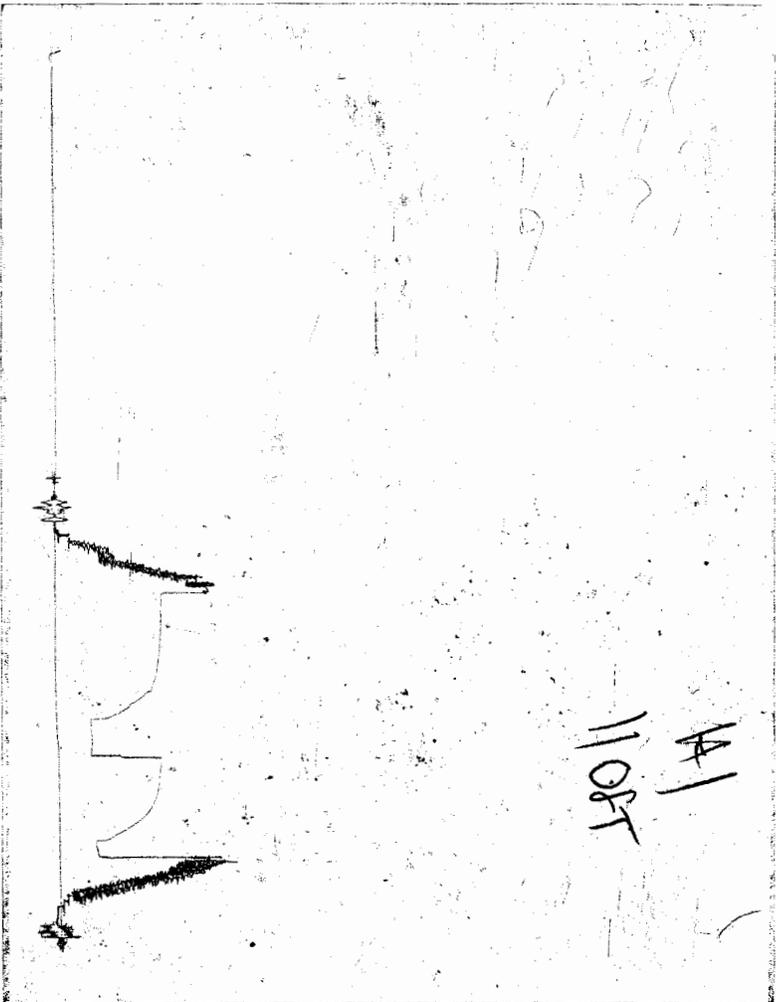
(A) Initial Hydrostatic Mud	AK-1	Alpine	903 PSI	Recorder No.	6668	Test	700
(B) First Initial Flow Pressure			220 PSI	(depth)	1791	Elec. Rec.	X 150
(C) First Final Flow Pressure			229 PSI	Recorder No.	11085	Jars	
(D) Initial Shut-In Pressure			605 PSI	(depth)	1817	Safety Jt.	
(E) Second Initial Flow Pressure			177 PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure			76 PSI	(depth)		Sampler	X 200
(G) Final Shut-In Pressure			607 PSI	Initial Opening	15	Straddle	
(Q) Final Hydrostatic Mud			862 PSI	Initial Shut-In	60	Ext. Packer	
				Final Flow	30	Shale Packer	
				Final Shut-In	90	Mileage	98 78
				T-On Location		Sub Total:	1128
				T-Started	10646	Std. By	
				T-Open	1749	Other	
				T-Pulled	2106	Total:	
				T-Out	2217		

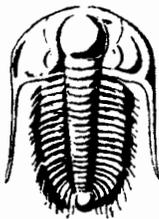
TRILLOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS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

Approved By Thomas J. Fortal
 Our Representative Paul Simpson

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18445

05/03

Test Ticket

Well Name & No. Peppiaff 1-27 Test No. 2 Date 10/27/03
 Company Carson Operating Co Inc Zone Tested 3rd Terrace Sd
 Address _____ Elevation _____ KB _____ GL _____
 Co. Rep / Geo. Steve Davis Cont. _____ Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 27 Twp. 16s Rge. Dw Co. Ellsworth State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 1887-1930 Initial Str Wt./Lbs. _____ Unseated Str Wt./Lbs. _____
 Anchor Length 43 Wt. Set Lbs. _____ Wt. Pulled Loose/Lbs. _____
 Top Packer Depth 1882 Tool Weight 2400
 Bottom Packer Depth 1887 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 1930 Wt. Pipe Run _____ Drill Collar Run 124
 Mud Wt. 9.3 LCM _____ Vis. 47 WL 10.4 Drill Pipe Size 4 1/2 x 4 Ft. Run 1794
 Blow Description 1" blow building to bottom of bucket in 3 minutes

PF - strong blow - (6 TS) 15 min gauged w/ OCR 900

Recovery - Total Feet 58 GIP _____ Ft. in DC 58 Ft. in DP _____
 Rec. 58 Feet of 9954 mud %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 _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 89 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API _____
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides _____ ppm System _____

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	915	PSI	6668	700
(B) First Initial Flow Pressure	16	PSI	(depth) 1892	Elec. Rec. <u>X</u> 150
(C) First Final Flow Pressure	21	PSI	Recorder No. 11085	Jars _____
(D) Initial Shut-In Pressure	730	PSI	(depth) 1927	Safety Jt. _____
(E) Second Initial Flow Pressure	20	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	30	PSI	(depth) _____	Sampler <u>X</u> 200
(G) Final Shut-In Pressure	722	PSI	Initial Opening 10	Straddle _____
(Q) Final Hydrostatic Mud	882	PSI	Initial Shut-In 90	Ext. Packer _____
			Final Flow 60	Shale Packer _____
			Final Shut-In 180	Mileage <u>78</u> 78
			T-On Location 1190	Sub Total: 1128
			T-Started 1240	Std. By _____
			T-Open 1424	Other _____
			T-Pulled 2004	Total: _____
			T-Out 2115	

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED 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 Thomas H Fental
Our Representative Paul Simpson



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 18445 Date 10/25/05
 Company Name Larsen Operating
 Lease Peppia # 1-25 Test No. 2
 County Ellsworth Xs Sec. 20 Twp. 16s Rng. 7w

SAMPLER RECOVERY

Gas 1.0 cu ft ML
 Oil — ML
 Mud — ML
 Water — ML
 Other — ML
 Pressure 125 ML
 Total — ML

PIT MUD ANALYSIS

Chlorides — ppm.
 Resistivity — ohms @ — F
 Viscosity —
 Mud Weight —
 Filtrate —
 Other —

SAMPLER ANALYSIS

Resistivity — ohms @ — F
 Chlorides — ppm.
 Gravity — corrected @60F

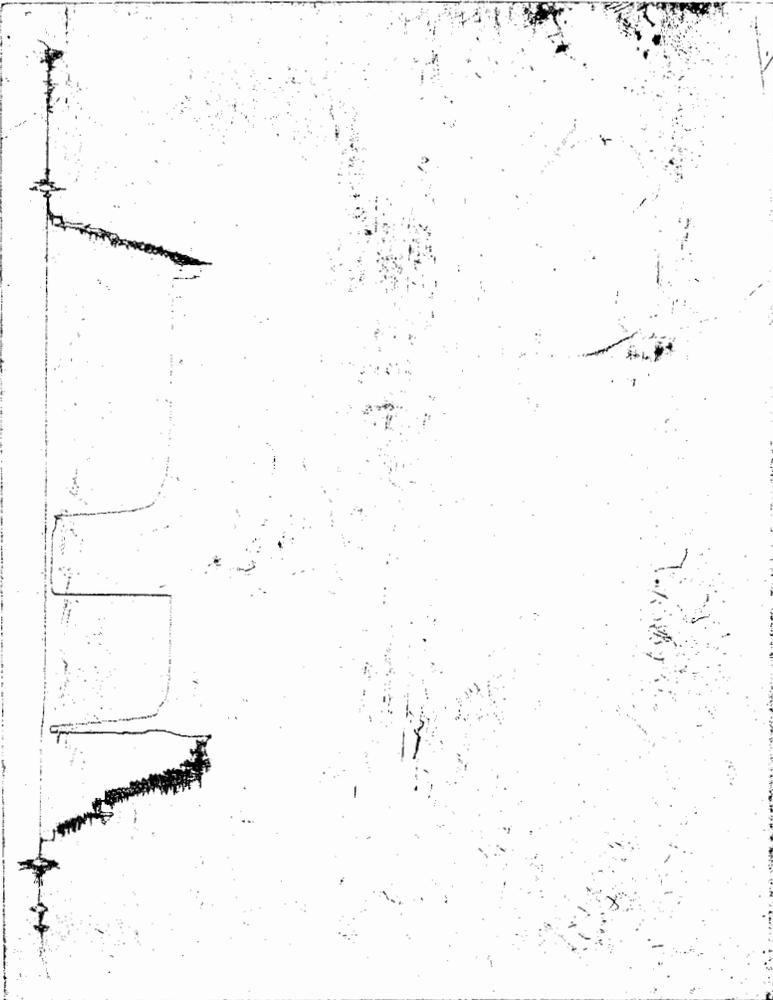
PIPE RECOVERY

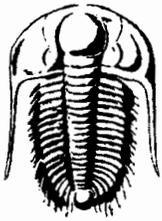
TOP
 Resistivity — ohms @ — F
 Chlorides — ppm.
MIDDLE
 Resistivity — ohms @ — F
 Chlorides — ppm.
BOTTOM
 Resistivity — ohms @ — F
 Chlorides — ppm.

*Caught
gas sample
from chamber*

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18446

05/03

Test Ticket

Well Name & No. Peppiat # 1-27 Test No. 3 Date 10-28-03
 Company LARSON OPERATING COMPANY Zone Tested SEVERY
 Address 562 West Highway 4 Olmitz, Ks 67564-8561 Elevation 1608 KB 1603 GL
 Co. Rep / Geo. Steve Davis Cont. Donfeldt rig 1 Est. Ft. of Pay - Por. - %
 Location: Sec. 27 Twp. 16^s Rge. 7^w Co. ELLSWORTH State Ks
 No. of Copies Req Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 2142-2182 Initial Str Wt./Lbs. 32000 Unseated Str Wt./Lbs. 33000
 Anchor Length 40 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 45000
 Top Packer Depth 2137 Tool Weight 2200
 Bottom Packer Depth 2142 Hole Size 7 7/8" - Rubber Size 6 3/4" -
 Total Depth 2182 Wt. Pipe Run - Drill Collar Run 124
 Mud Wt. 9.3 LCM - Vis. 46 WL 12.8 Drill Pipe Size 4 1/2 XH Ft. Run 2019
 Blow Description IFF - Strong Blow in 1 min
FFP - GTS
ISIP - GTS in 2 min

Recovery - Total Feet 15 GIP - Ft. in DC 15 Ft. in DP -
 Rec. 15 Feet of Mud %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 _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW - @ - °F Chlorides _____ ppm Recovery _____ Chlorides 8000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1132</u> PSI	<u>6668</u>	<u>700</u>
(B) First Initial Flow Pressure		<u>28</u> PSI	(depth) <u>2150</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure		<u>29</u> PSI	Recorder No. <u>11085</u>	Jars _____
(D) Initial Shut-In Pressure		<u>865</u> PSI	(depth) <u>2179</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>29</u> PSI	Recorder No. <u>-</u>	Circ Sub _____
(F) Second Final Flow Pressure		<u>32</u> PSI	(depth) <u>-</u>	Sampler _____
(G) Final Shut-In Pressure		<u>858</u> PSI	Initial Opening <u>10</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1055</u> PSI	Initial Shut-In <u>60</u>	Ext. Packer _____

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Approved By Thomas H. Ferial

Our Representative Ray Schwager Thank you

Final Flow	<u>30</u>	Shale Packer	_____
Final Shut-In	<u>90</u>	Mileage <u>16</u>	<u>16</u>
T-On Location	<u>0915</u>	Sub Total:	<u>866</u>
T-Started	<u>0924</u>	Std. By	_____
T-Open	<u>1050</u>	Other	_____
T-Pulled	<u>1400</u>	Total:	_____
T-Out	<u>1525</u>		



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 18446 Date 10-28-03
 Company Name LARSON Operating Company
 Lease Peppitt #1-27 Test No. 3
 County ELLSWORTH Sec. 27 Twp. 16^s Rng. 7^w

SAMPLER RECOVERY

Gas .25 ML
 Oil — ML
 Mud 3000 ML
 Water — ML
 Other — ML
 Pressure 50# ML
 Total 300 ML

PIT MUD ANALYSIS

Chlorides 8000 ppm.
 Resistivity .5 ohms @ 65 F
 Viscosity 46
 Mud Weight 9.3
 Filtrate 12.8
 Other _____

SAMPLER ANALYSIS

Resistivity .5 ohms @ 65 F
 Chlorides 8000 ppm.
 Gravity _____ corrected @60F

PIPE RECOVERY

TOP
 Resistivity SAME ohms @ _____ F
 Chlorides _____ ppm.
MIDDLE
 Resistivity — ohms @ _____ F
 Chlorides _____ ppm.
BOTTOM
 Resistivity — ohms @ _____ F
 Chlorides _____ ppm.

CHART PAGE

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

