

DRILL STEM TEST REPORT

Prepared For: **Roberts Resources**

520 S Holland Ste 207
Wichita KS 67209

ATTN: Kent Roberts

4 32 13 Barber KS

Larson C#1-4

Start Date: 2007.07.30 @ 08:46:59

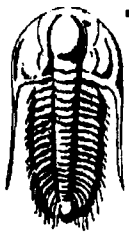
End Date: 2007.07.30 @ 17:07:59

Job Ticket #: 27970 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

Roberts Resources

520 S Holland Ste 207
Wichita KS 67209

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Larson C#1-4

4 32 13 Barber KS

Job Ticket: 27970

DST#: 1

Test Start: 2007.07.30 @ 08:46:59

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:12:59

Time Test Ended: 17:07:59

Test Type: Conventional Straddle

Tester: Gary Pevoteaux

Unit No: 39

Interval: **4639.00 ft (KB) To 4667.00 ft (KB) (TVD)**

Total Depth: 4802.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1601.00 ft (KB)

1590.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8167 Inside

Press@RunDepth: 64.13 psig @ 4640.00 ft (KB)

Start Date: 2007.07.30

End Date:

2007.07.30

Start Time: 08:47:04

End Time:

17:07:58

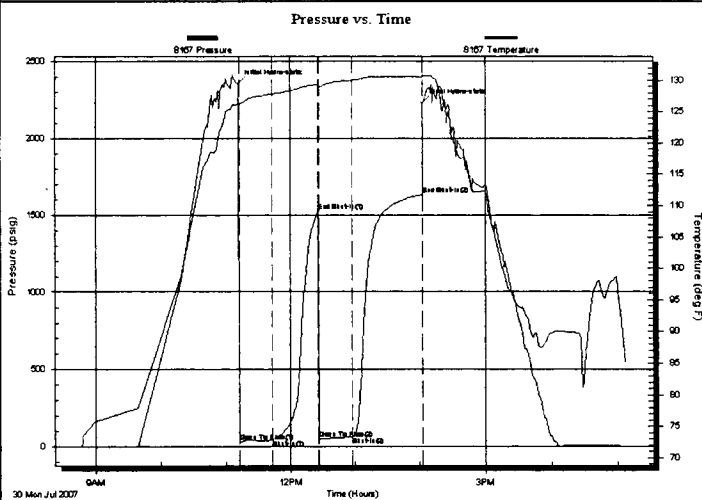
Capacity: 7000.00 psig

Last Calib.: 2007.07.30

Time On Btm: 2007.07.30 @ 11:11:59

Time Off Btm: 2007.07.30 @ 14:02:28

TEST COMMENT: IF Strong blow BOB in 10 mins.
ISI Weak blow 1/4 " or less
FF Fair blow Slow increase to 12 "
FSI No blow



PRESSURE SUMMARY

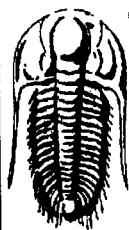
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2353.21	126.20	Initial Hydro-static
1	32.95	126.09	Open To Flow (1)
31	45.49	127.82	Shut-In (1)
74	1521.96	129.35	End Shut-In (1)
75	51.85	128.96	Open To Flow (2)
106	64.13	130.03	Shut-In (2)
171	1629.75	130.60	End Shut-In (2)
171	2228.98	130.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	MWw/O specs 21%M 79%W Rw .08 CH 10.77 87deg	
70.00	GCWw/O specs. 17%G 83%M	0.98

Gas Rates

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

Roberts Resources

520 S Holland Ste 207
Wichita KS 67209

ATTN: Kent Roberts

Larson C#1-4

4 32 13 Barber KS

Job Ticket: 27970

DST#: 1

Test Start: 2007.07.30 @ 08:46:59

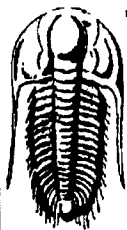
Tool Information

Drill Pipe:	Length: 4624.00 ft	Diameter: 3.80 inches	Volume: 64.86 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: 144000.0 lb
			Total Volume: 64.86 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4639.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	4667.00 ft			
Interval between Packers:	28.00 ft			
Tool Length:	183.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4620.00	
Shut In Tool	5.00			4625.00	
Hydraulic tool	5.00			4630.00	
Packer	4.00			4634.00	20.00 Bottom Of Top Packer
Packer	5.00			4639.00	
Stubb	1.00			4640.00	
Recorder	0.00	8167	Inside	4640.00	
Perforations	23.00			4663.00	
Recorder	0.00	13765	Outside	4663.00	
Travel collar	3.00			4666.00	
Blank Off Sub	1.00			4667.00	28.00 Tool Interval
Packer	0.00			4667.00	
Stubb	1.00			4668.00	
Perforations	2.00			4670.00	
Change Over Sub	1.00			4671.00	
Blank Spacing	125.00			4796.00	
Change Over Sub	1.00			4797.00	
Recorder	0.00	11019	Below	4797.00	
Bullnose	5.00			4802.00	135.00 Bottom Packers & Anchor

Total Tool Length: 183.00



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FLUID SUMMARY

Roberts Resources

Larson C#1-4

520 S Holland Ste 207
Wichita KS 67209

4 32 13 Barber KS

Job Ticket: 27970

DST#: 1

ATTN: Kent Roberts

Test Start: 2007.07.30 @ 08:46:59

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:

81000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 18000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	MMw/O specs 21%M 79%W Rw .08 OHMS@	0.772
70.00	GCWw/O specs. 17%G 83%M	0.982

Total Length: 125.00 ft

Total Volume: 1.754 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

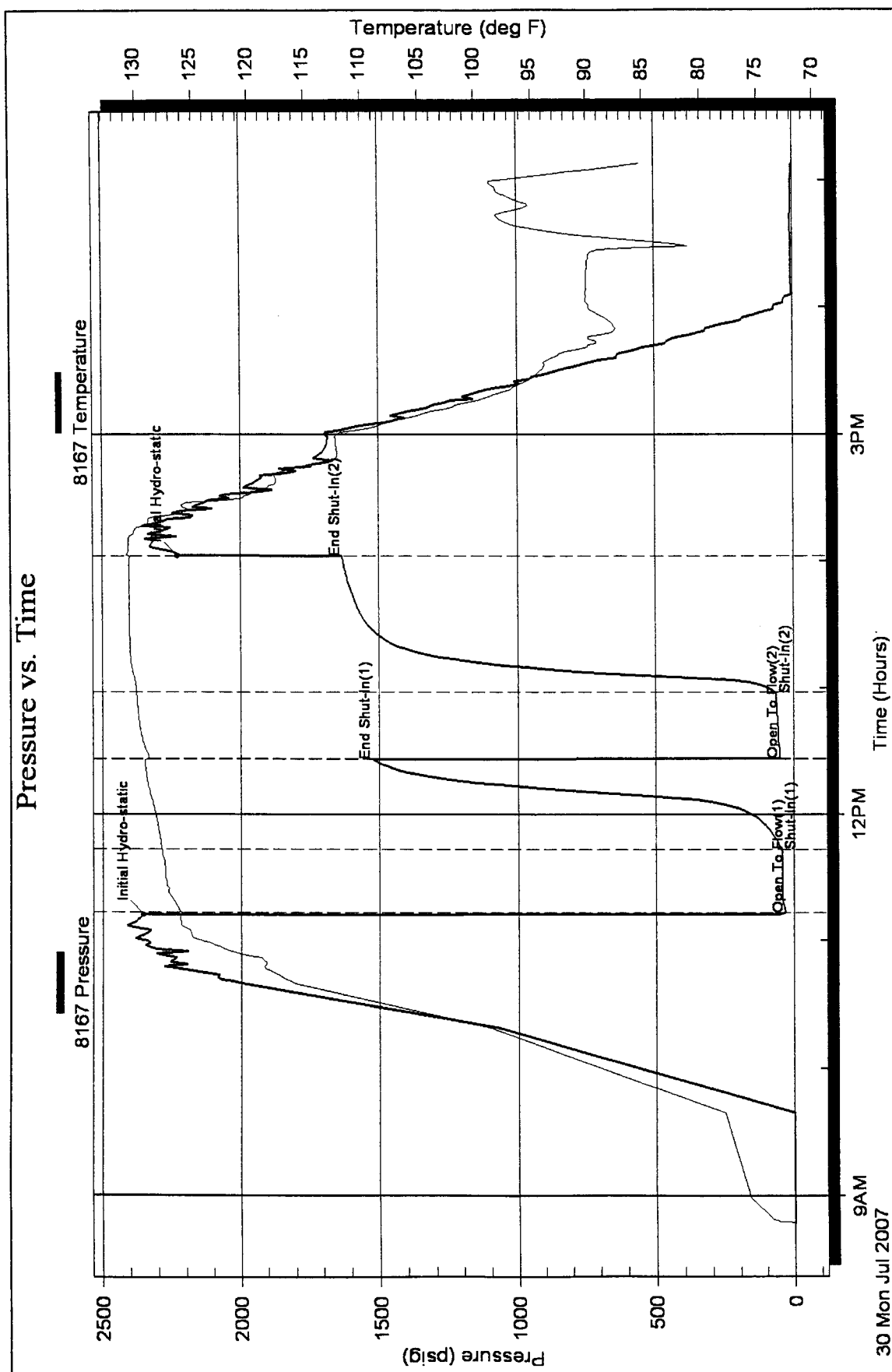
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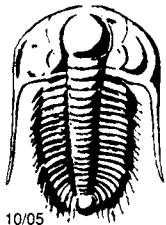
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27970

10437

Test Ticket

Well Name & No. <u>Larson C #1-1</u>	Test No. <u>1</u>	Date <u>7-30-07</u>
Company <u>Roberts Resources</u>	Zone Tested <u>Simpson</u>	
Address <u>5205 Holland St. 207, Wichita Ks. 67209</u> Elevation <u>1601</u> KB <u>1590</u> GL		
Co. Rep / Geo. <u>Kent Roberts</u>	Rig <u>Duke Drilling #1</u>	
Location: Sec. <u>4</u> Twp. <u>32S</u> Rge. <u>13W</u> Co. <u>Barber</u> State <u>Ks</u>		
Comment: _____ Release date / time: _____		

Interval Tested <u>4639 - 4667'</u>	Initial Str Wt./Lbs. <u>63000</u>	Unseated Str Wt./Lbs. <u>67000</u>
Anchor Length <u>28'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>144,000</u>
Top Packer Depth <u>4634 & 4639'</u>	Tool Weight <u>2100#</u>	
Bottom Packer Depth <u>4667'</u>	Hole Size 7 7/8" <u>✓</u>	Rubber Size 6 3/4" <u>✓</u>
Total Depth <u>4802'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>None</u>
Mud Wt. <u>9.4</u> LCM <u>4#</u> Vis. <u>50</u> WL <u>8.8cc</u>	Drill Pipe Size <u>4 1/2"</u>	Ft. Run <u>4624</u>
Blow Description <u>IF: Strong blow. B.O.B. in 10 mins. ISI: Weak blow. 1/4" or less.</u>		
<u>FF: Fair blow. Slow increase to 12". FSI: No blow.</u>		

Recovery - Total Feet <u>125</u>	GIP <u>380</u>	Ft. in DC <u>—</u>	Ft. in DP <u>125</u>
Rec. <u>70</u> Feet of <u>GCM/Wo speed</u>	<u>17</u> %gas	%oil	%water <u>83</u> %mud
Rec. <u>55</u> Feet of <u>MW/Wo speed</u>	%gas	%oil <u>79</u>	%water <u>21</u> %mud
Rec. _____ Feet of _____	%gas	%oil	%water %mud
Rec. _____ Feet of _____	%gas	%oil	%water %mud
Rec. _____ Feet of _____	%gas	%oil	%water %mud
BHT <u>131</u> °F Gravity <u>N/A</u>	*API D @ <u>—</u>	*F Corrected Gravity <u>N/A</u>	*API
RW <u>.08</u> @ <u>87</u> °F	Chlorides <u>81,000</u> ppm Recovery	Chlorides <u>18,000</u> ppm System	

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2364</u> PSI		<u>8167</u>	<u>✓ 1200</u>
(B) First Initial Flow Pressure	<u>33</u> PSI		<u>4640'</u>	Jars
(C) First Final Flow Pressure	<u>45</u> PSI		<u>13765</u>	Safety Jt.
(D) Initial Shut-In Pressure	<u>1522</u> PSI		<u>4663'</u>	Circ Sub
(E) Second Initial Flow Pressure	<u>52</u> PSI		<u>11019</u>	Sampler
(F) Second Final Flow Pressure	<u>64</u> PSI		<u>4797'</u>	Straddle <u>✓ 600</u>
(G) Final Shut-In Pressure	<u>1630</u> PSI	Initial Opening	<u>30</u>	Ext. Packer
(Q) Final Hydrostatic Mud	<u>2329</u> PSI	Initial Shut-In	<u>45</u>	Shale Packer <u>✓ 250</u>

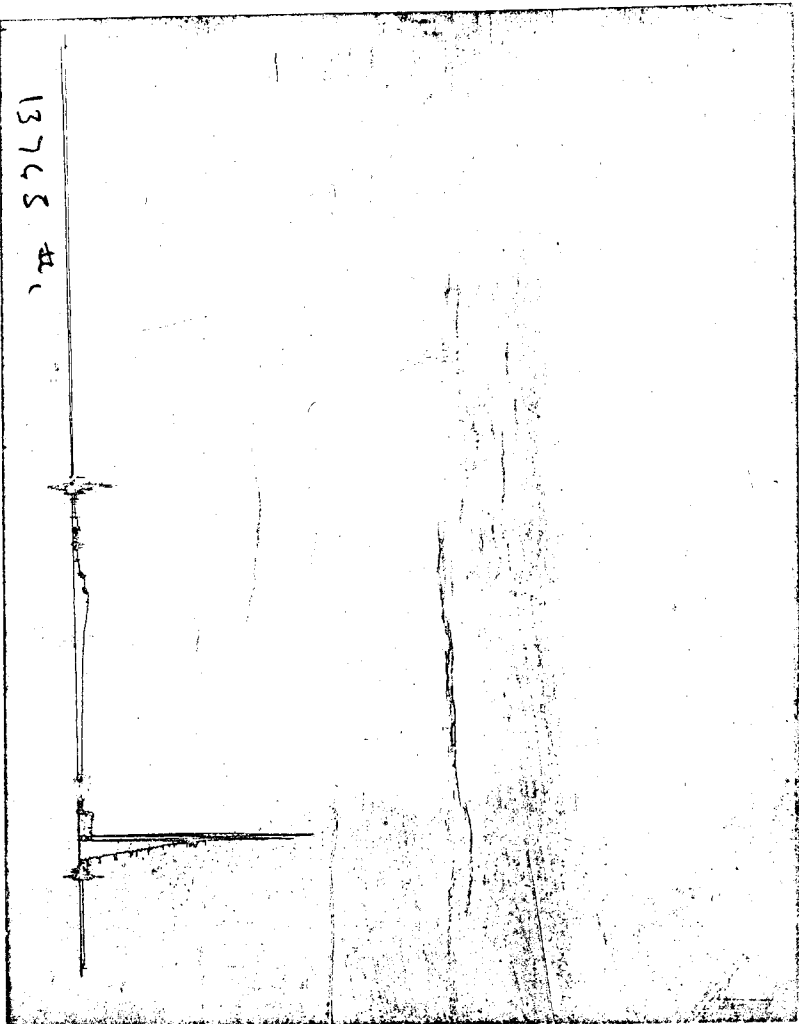
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Approved By Kent Roberts
Our Representative Cary Rustany

Final Flow	<u>30</u>	Ruined Packer	
Final Shut-In	<u>60</u>	Mileage <u>82</u> <u>✓</u>	<u>102.5</u>
T-On Location	<u>0611</u>	Sub Total:	<u>2152.50</u>
T-Started	<u>0846</u>	Std. By <u>✓</u>	<u>100.00</u>
T-Open	<u>1112</u>	Acc. Chg:	
T-Pulled	<u>1406</u>	Other:	
T-Out	<u>1707</u>	Total:	<u>2252.50</u>

CHART PAGE

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

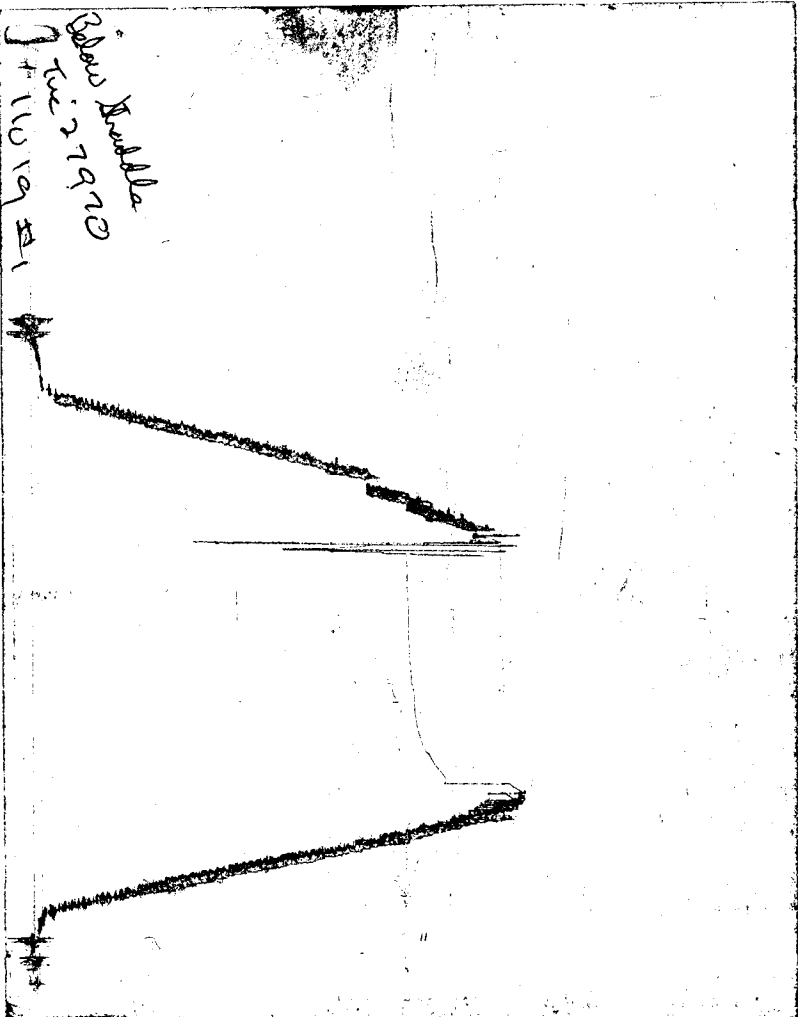


13745 #1

Roberts
Resources
#1-4
Larson C

CHART PAGE

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



Roberts Resources
Hanson C# 1-4