

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

P. O. Box 673188
Wichita KS. 67278-3188

ATTN: Mike Englebrecht

13-13S-33W Logan

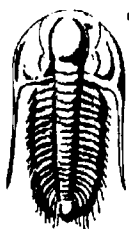
Stoll 13D #1

Start Date: 2005.07.20 @ 00:52:52

End Date: 2005.07.20 @ 07:57:52

Job Ticket #: 21309 DST #: 1

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



**TRILOBITE
TESTING, INC.**

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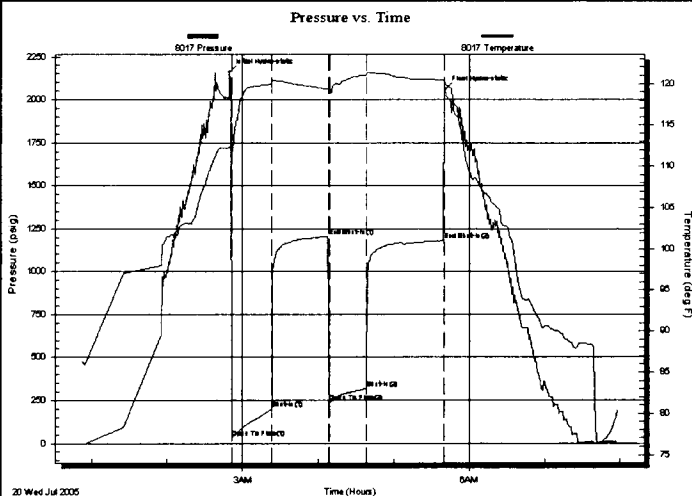
Stoll 13D #1
13-13S-33W Logan
Job Ticket: 21309 **DST#: 1**
Test Start: 2005.07.20 @ 00:52:52

GENERAL INFORMATION:

Formation: **L/KC "J - K"**
Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**
Time Tool Opened: **02:51:07** Tester: **Rod Steinbrink**
Time Test Ended: **07:57:52** Unit No: **22**
Interval: **4246.00 ft (KB) To 4304.00 ft (KB) (TVD)** Reference Elevations: **3028.00 ft (KB)**
Total Depth: **4304.00 ft (KB) (TVD)** **3018.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **10.00 ft**

Serial #: 8017 **Inside**
Press@RunDepth: **318.99 psig @ 4247.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2005.07.20** End Date: **2005.07.20** Last Calib.: **1899.12.30**
Start Time: **00:52:55** End Time: **07:57:52** Time On Btrt: **2005.07.20 @ 02:49:22**
Time Off Btrt: **2005.07.20 @ 05:40:37**

TEST COMMENT: F; Weak to fair off bttm in 27 mins
IS; No return blow
FF; Weak to fair off bttm in 27 mins
FSI; Weak surface throughout



PRESSURE SUMMARY

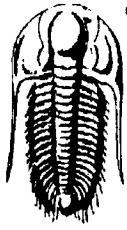
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2158.48	112.31	Initial Hydro-static
2	31.08	111.64	Open To Flow (1)
34	200.98	120.05	Shut-In(1)
79	1204.99	119.32	End Shut-In(1)
79	236.97	118.98	Open To Flow (2)
109	318.99	121.07	Shut-In(2)
170	1179.62	120.38	End Shut-In(2)
172	2056.61	119.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
720.00	Sulpher Water	4.62

Gas Rates

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



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TOOL DIAGRAM

Ritchie Exploration Inc.

Stoll 13D #1

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13-13S-33W Logan

Job Ticket: 21309

DST#: 1

ATTN: Mike Englebrecht

Test Start: 2005.07.20 @ 00:52:52

Tool Information

Drill Pipe:	Length: 3640.00 ft	Diameter: 3.80 inches	Volume: 51.06 bbl	Tool Weight: 2500.00 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: 602.00 ft	Diameter: 2.25 inches	Volume: 2.96 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 54.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4246.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4225.00	
Hydraulic tool	5.00			4230.00	
Jars	5.00			4235.00	
Safety Joint	2.00			4237.00	
Packer	5.00			4242.00	26.00 Bottom Of Top Packer
Packer	4.00			4246.00	
Stubb	1.00			4247.00	
Recorder	0.00	8017	Inside	4247.00	
Perforations	24.00			4271.00	
Change Over Sub	1.00			4272.00	
Anchor	31.00			4303.00	
Change Over Sub	1.00			4304.00	
Recorder	0.00	13309	Outside	4304.00	
Bullnose	5.00			4309.00	63.00 Bottom Packers & Anchor

Total Tool Length: 89.00



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FLUID SUMMARY

Ritchie Exploration Inc.

Stoll 13D #1

P. O. Box 673188
Wichita KS. 67278-3188

13-13S-33W Logan

Job Ticket: 21309

DST#: 1

ATTN: Mike Englebrecht

Test Start: 2005.07.20 @ 00:52:52

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:

50000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
720.00	Sulpher Water	4.616

Total Length: 720.00 ft Total Volume: 4.616 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW 16 @ 70 Deg = 50,000 Chlorides

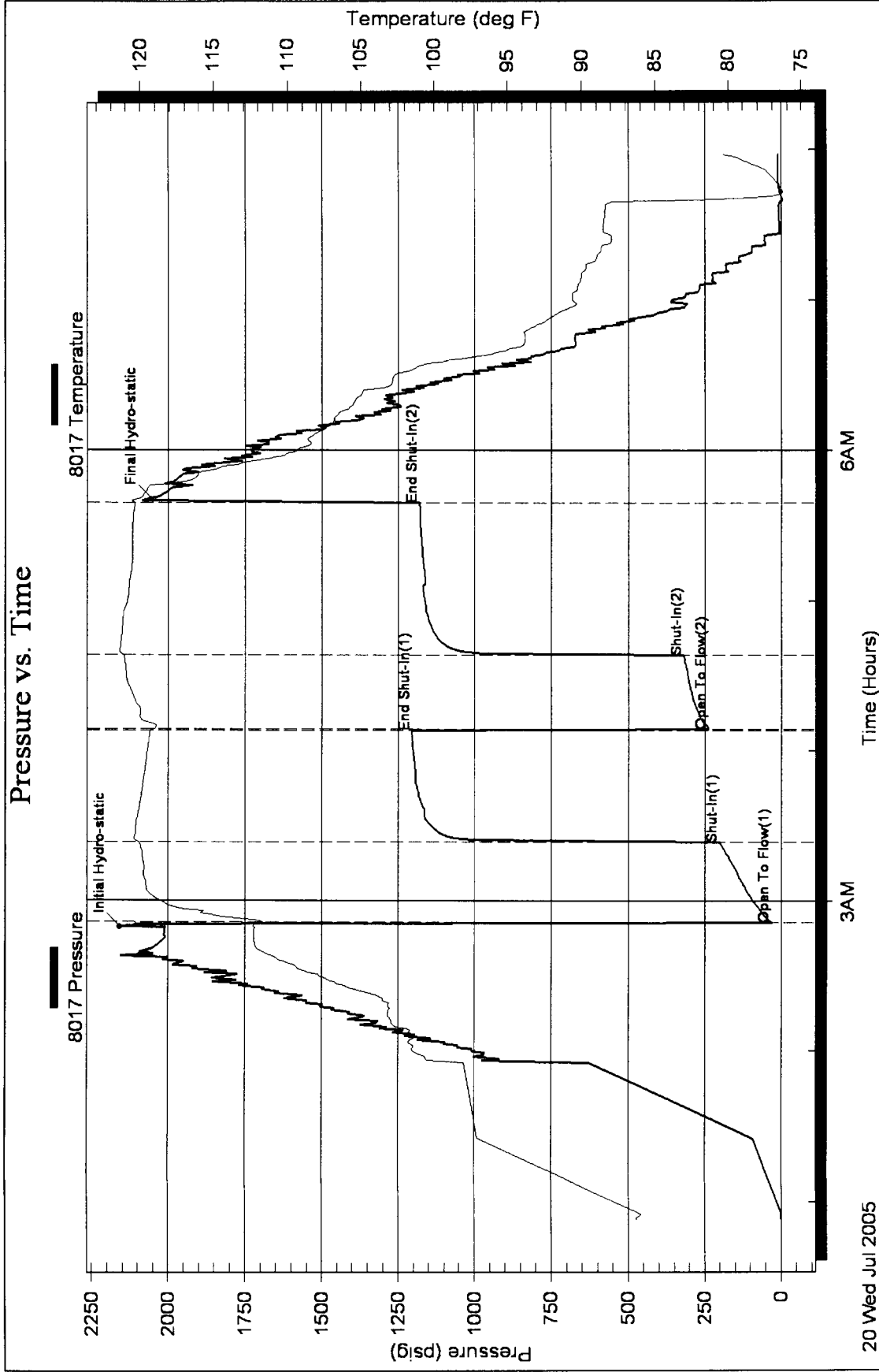
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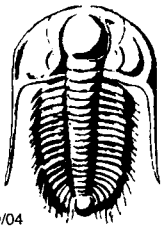
Inside

Ritchie Exploration Inc.

13-13S-33W Logan

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV 1639

No 21309

9/04

Test Ticket

Well Name & No. Stoll 13D #1 Test No. 1 Date 7-19-05
 Company Ritchie Exploration Inc. Zone Tested LIKE
 Address P.O. Box 783188 Wichita, KS. 67278-3188 Elevation 3028 KB 3018 GL
 Co. Rep / Geo. Mike Englebrecht Cont. Murfin #14 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 13 Twp. 13^S Rge. 33^W Co. Logan State KS-
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4246 - 4304 Initial Str Wt./Lbs. 80,000 Unseated Str Wt./Lbs. 80,000
 Anchor Length 58' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 90,000
 Top Packer Depth 4241 Tool Weight 2,500
 Bottom Packer Depth 4246 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4304 Wt. Pipe Run — Drill Collar Run 602'
 Mud Wt. 9.1 LCM — Vis. 55 WL 7.2 Drill Pipe Size 4 1/2" XH Ft. Run 3640'

Blow Description
IF: Weak to Fair off bttm 27 mins. IS1: No return blow
FF: Weak to Fair off bttm 27 mins. FS1: Weak surface throughout

Recovery - Total Feet 720' GIP — Ft. in DC 602' Ft. in DP 118'
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. 720' Feet of Sulphur Wtr. %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 120° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .16 @ 70° °F Chlorides 50,000 ppm Recovery _____ Chlorides 2,700 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2158</u> PSI		<u>8017</u>	<u>1050</u>
(B) First Initial Flow Pressure	<u>31</u> PSI		(depth) <u>4247</u>	Jars <u>X</u> <u>200</u>
(C) First Final Flow Pressure	<u>200</u> PSI		Recorder No. <u>13309</u>	Safety Jt. <u>X</u> <u>50</u>
(D) Initial Shut-In Pressure	<u>1204</u> PSI		(depth) <u>4299</u>	Circ Sub <u>X</u> <u>N/C</u>
(E) Second Initial Flow Pressure	<u>236</u> PSI		Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>318</u> PSI		(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1179</u> PSI	Initial Opening <u>30</u>		Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2056</u> PSI	Initial Shut-In <u>45</u>		Shale Packer _____
		Final Flow <u>30</u>		Ruined Packer _____
		Final Shut-In <u>60</u>		Mileage <u>1 way 39</u> <u>78</u>
		T-On Location <u>2215</u>		Sub Total: <u>1378</u>
		T-Started <u>0052</u> <u>7-20-05</u>		Std. By <u>3/4</u> <u>22.50</u>
		T-Open <u>0251</u>		Other _____
		T-Pulled <u>0539</u>		Total: <u>\$1400.50</u>
		T-Out <u>0757</u>		

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Approved By Mike Englebrecht
 Our Representative Rod Steinbrink

CHART PAGE

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

