

15-071-20708

28-16s-41w

**Well Name:** FTIA #2  
**Company:** Ritchie Exploration Inc.  
**Location:** 28-16s-41w  
Greeley County Kansas  
**Date:** 5-7-99

TRILOBITE TESTING L.L.C.

OPERATOR : Ritchie Explor. Inc. DATE 4-30-99  
 WELL NAME: FTIA #2 KB 3762.00 ft TICKET NO: 11388 DST #1  
 LOCATION : 28-16s-41w Greeley co KS GR 3752.00 ft FORMATION: Topeka  
 INTERVAL : 3855.00 To 3873.00 ft TD 3873.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2346			PF Fr. 0140 to 0210 hr
SI 45 Range(Psi )	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0210 to 0255 hr
SF 30 Clock(hrs)	12	12	alpin			SF Fr. 0255 to 0325 hr
FS 45 Depth(ft )	3868.0	3868.0	3856.0	0.0	0.0	FS Fr. 0325 to 0410 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	1842.0	0.0	0.0	T STARTED 2300 hr
B. First Flow	0.0	0.0	23.0	0.0	0.0	T ON BOTM 0137 hr
B1. Final Flow	0.0	0.0	167.0	0.0	0.0	T OPEN 0140 hr
C. In Shut-in	0.0	0.0	950.0	0.0	0.0	T PULLED 0410 hr
D. Init Flow	0.0	0.0	174.0	0.0	0.0	T OUT 0640 hr
E. Final Flow	0.0	0.0	295.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	946.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	1807.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs

RECOVERY

Tot Fluid 583.00 ft of 583.00 ft in DC and 0.00 ft in DP  
 30.00 ft of Slight gassy muddy water  
 0.00 ft of 5% gas 65% wate 30% mud  
 553.00 ft of Salt water  
 0.00 ft of  
 SALINITY 32000.00 P.P.M. A.P.I. Gravity 0.00

Unseated Str Wt 71000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.88 in  
 D Col. ID 2.25 in  
 D. Pipe ID 3.50 in  
 D.C. Length 614.00 ft  
 D.P. Length 3238.00 ft

MUD DATA-----

Mud Type	Chemical
Weight	8.60 lb/cf
Vis.	48.00 S/L
W.L.	8.80 in3
F.C.	0.00 in

BLOW DESCRIPTION

Initial Flow:  
 1/2" at open built to 9 1/2"  
 Initial Shut-in:  
 Bleed off for 1 1/2 min. weak return  
 in 10 min. 1/4".  
 Final Flow:  
 1/2" at open built to 6"  
 Final Shut-in:  
 Bleed off for 1 1/2 mins. weak  
 return in 12 mins. 1/4"

Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	122.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00

SAMPLES:  
 SENT TO:

Reversed Out N  
 Tool Chased N  
 Tester Shane McBride  
 Co. Rep. Jeff Christian  
 Contr. Murfin  
 Rig # 14  
 Unit #  
 Pump T.

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV.STRADDLE

WELL NAME: FTIA #2

LOCATION : 28-16-41

TICKET No. 11390 D.S.T. No. 3 DATE 5-5-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL .....

TOTAL PACKERS AND ANCHOR ..... 25

TOTAL TOOL ..... 52

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single 2 Total 155

TOTAL ASSEMBLY ..... 207

D.C. ABOVE TOOLS.Stands6 Single 2 Total 614

D.P. ABOVE TOOLS.Stands50 Single Total 4489

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5310

TOTAL DEPTH ..... 5302

TOTAL DRILL PIPE ABOVE K.B. .... 8

REMARKS:

P.O. SUB	
C.O. SUB 1'	5093
S.I. TOOL 5'	5099
HMV 5'	5104
JARS 5'	5109
SAFETY JOINT 2'	5111
PACKER top	5116
PACKER bottom	5121
DEPTH 5121	
STUBB 1'	5122
ANCHOR 1' c.o.	5123
alpine recorder	5123
31' drillpipe	5154
1' c.o.	5155
ak-1 recorder	5155
10' perf	5165
1' blankoff	5166
3' top of s.packer	5169
T.C.	
DEPTH	
PACKER straddle packer	5169
1' stubb	5170
1' c.o.	5171
124' drillpipe	5295
1' c.o.	5296
ak-1 recorder	5297
BULLNOSE 5' bullplug	5302
T.D.	5302

# TEST HISTORY

11390 DST #3 FTIA #2 Ritchie Explor.

Flag Points  
 (Min.) (PSig)

R:	0.00	2578.11
B:	0.00	26.14
C:	26.00	27.00
D:	33.00	33.59
E:	0.00	26.38
F:	29.00	27.26
G:	31.00	31.11
Q:	0.00	2515.16

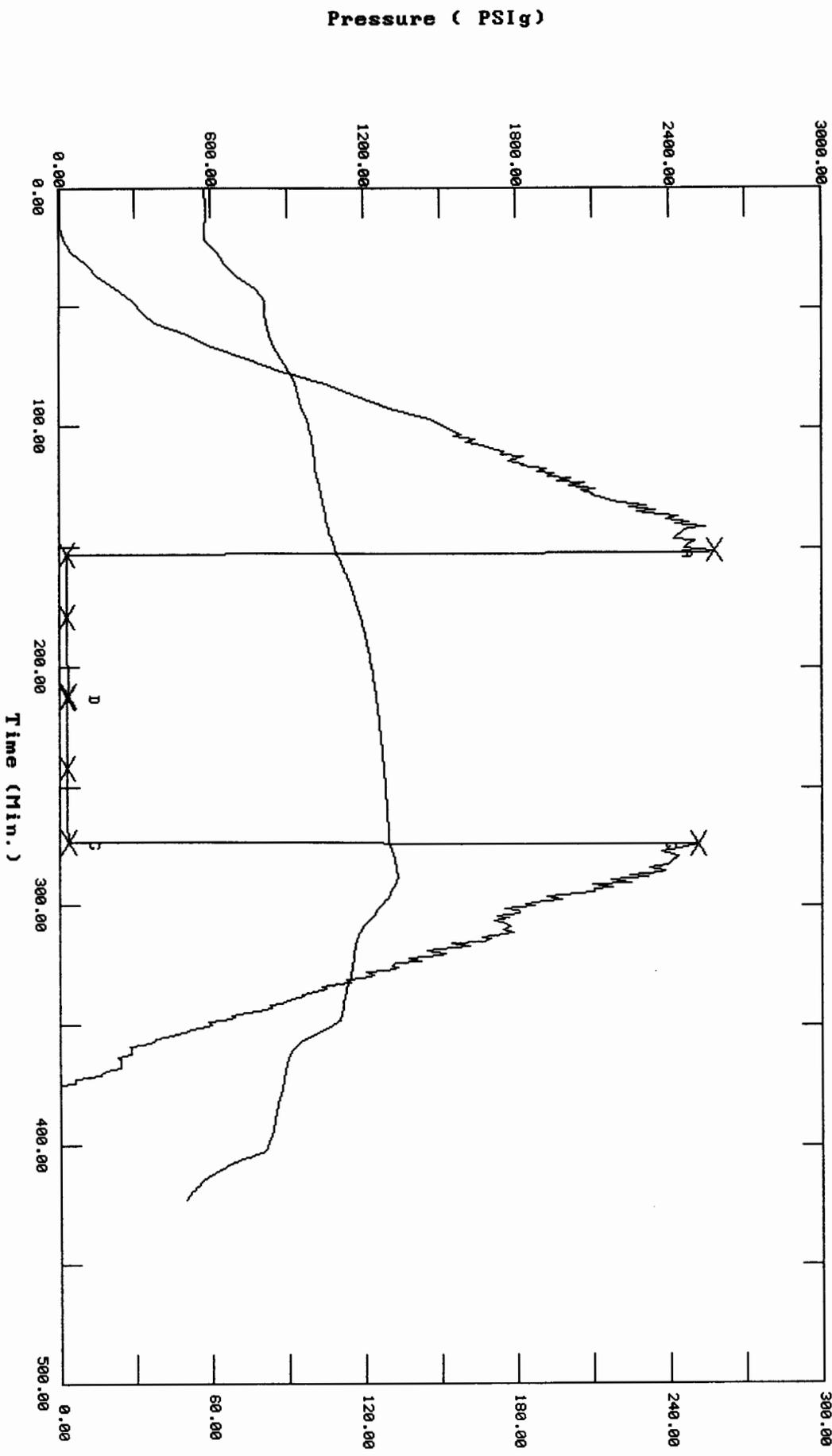
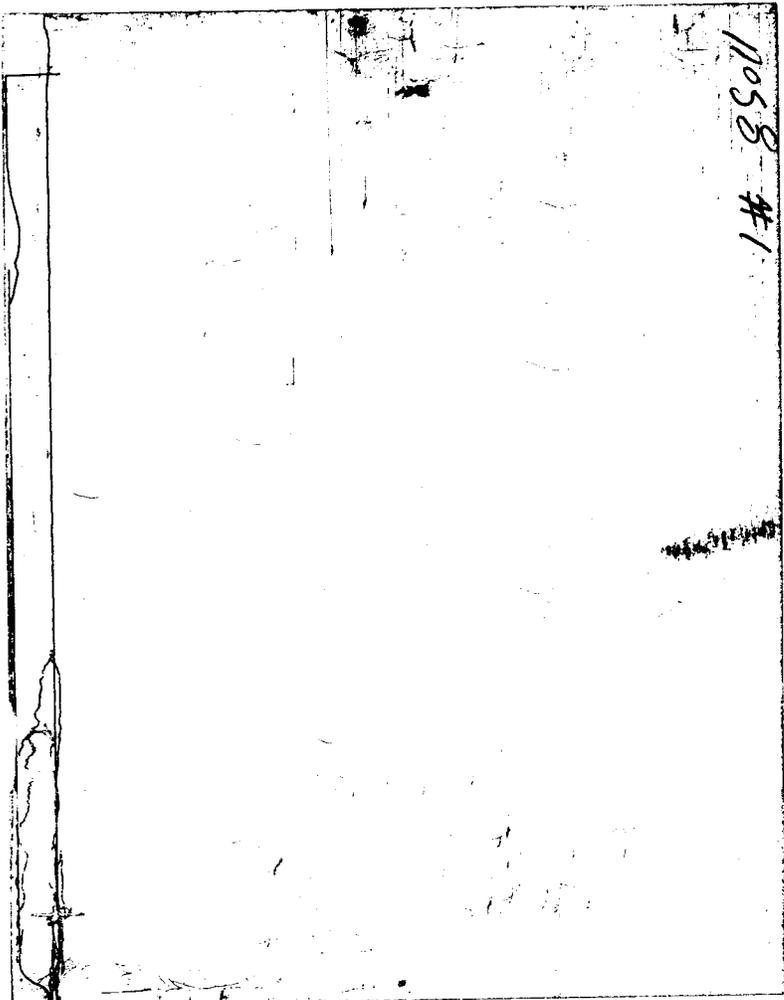


CHART PAGE



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

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 11388

Well Name & No. <u>FTIA #2</u>	Test No. <u>1</u>	Date <u>4-30-79</u>
Company <u>Ritchie Explor. Inc</u>	Zone Tested <u>Topoka</u>	
Address <u>P.O. Box 783188, Wichita, Ks 67278-3188</u>	Elevation <u>3762</u> KB <u>3752</u> GL	
Co. Rep / Geo. <u>Jeff Christian</u>	Cont. <u>Murfin #14</u>	Est. Ft. of Pay <u>    </u> Por. <u>    </u> %
Location: Sec. <u>28</u> Twp. <u>16</u> Rge. <u>41</u>	Co. <u>Greeley</u> State <u>Ks</u>	
No. of Copies <u>None</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u>    </u>

Interval Tested <u>3855</u> <u>3873</u>	Initial Str Wt./Lbs. <u>68,000</u> Unseated Str Wt./Lbs. <u>71,000</u>
Anchor Length <u>18</u>	Wt. Set Lbs. <u>26,000</u> Wt. Pulled Loose/Lbs. <u>84,000</u>
Top Packer Depth <u>3850</u>	Tool Weight <u>4000</u>
Bottom Packer Depth <u>3855</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/> Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>3873</u>	Wt. Pipe Run <u>    </u> Drill Collar Run <u>6.14'</u>
Mud Wt. <u>8.6</u> LCM <u>#1</u> Vis. <u>40</u> WL <u>88</u>	Drill Pipe Size <u>4 1/2 XH</u> Ft. Run <u>3238'</u>
Blow Description <u>1/2" @ open built to 9 1/2" in.</u>	

Bleed off in 1 1/2 min. Weak return in 10 min 1/4" in.

1/2" @ open built to 6"

Bleed off 1 1/2 min, weak return in 12 min 1/4" in.

Recovery — Total Feet <u>583'</u>	GIP <u>60' weak</u>	Ft. in DC <u>583'</u>	Ft. in DP <u>    </u>
Rec. <u>30'</u>	Feet Of <u>sgmw/w oil scum</u>	<u>5%</u> gas <u>50%</u> oil	<u>65%</u> water <u>30%</u> mud
Rec. <u>553'</u>	Feet Of <u>salt water</u>	<u>Trace</u> gas <u>Specs</u> oil	<u>100%</u> water <u>    </u> mud
Rec. <u>    </u>	Feet Of <u>    </u>	<u>    </u> gas <u>    </u> oil	<u>    </u> water <u>    </u> mud
Rec. <u>    </u>	Feet Of <u>    </u>	<u>    </u> gas <u>    </u> oil	<u>    </u> water <u>    </u> mud
Rec. <u>    </u>	Feet Of <u>    </u>	<u>    </u> gas <u>    </u> oil	<u>    </u> water <u>    </u> mud

BHT 122° °F Gravity      °API D@      °F Corrected Gravity      °API

RW .25 @ 57 °F Chlorides 32,000 ppm Recovery Chlorides 2,800 ppm System

(A) Initial Hydrostatic Mud	<u>1842</u> PSI	Recorder No. <u>2346</u>	T-Started <u>23:00 p.m.</u>
(B) First Initial Flow Pressure	<u>23</u> PSI	(depth) <u>3856</u>	T-Open <u>01:40 AM</u>
(C) First Final Flow Pressure	<u>162</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>04:10 AM</u>
(D) Initial Shut-in Pressure	<u>950</u> PSI	(depth) <u>3868'</u>	T-Out <u>06:40 AM</u>
(E) Second Initial Flow Pressure	<u>174</u> PSI	Recorder No. <u>    </u>	
(F) Second Final Flow Pressure	<u>295</u> PSI	(depth) <u>    </u>	
(G) Final Shut-in Pressure	<u>946</u> PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>600</u>
(H) Final Hydrostatic Mud	<u>1807</u> PSI	Initial Shut-in <u>45</u>	Jars <u>    </u>
	<u>AK-1</u> <u>Ah fine</u>	Final Flow <u>30</u>	Safety Joint <u>    </u>
		Final Shut-in <u>45</u>	Straddle <u>    </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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 Jeff Christian  
Our Representative Shane McBurd

Circ. Sub X N/C  
Sampler       
Extra Packer       
Elect. Rec. X 150  
Other       
TOTAL PRICE \$ 750

TRILOBITE TESTING L.L.C.

OPERATOR : Ritchie Explor.Inc.

DATE 5-4-99

WELL NAME: FTIA #2

KB 3762.00 ft

TICKET NO: 11389

DST #2

LOCATION : 28-16s-41w Greeley co KS

GR 3752.00 ft

FORMATION: morrow

INTERVAL : 4952.00 To 4986.00 ft

TD 4986.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	11058	11058	2346			PF Fr. 0255 to 0325 hr
SI 30	Range(Psi )	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0325 to 0355 hr
SF 30	Clock(hrs)	12	12	alpin			SF Fr. 0355 to 0425 hr
FS 30	Depth(ft )	4981.0	4981.0	4953.0	0.0	0.0	FS Fr. 0425 to 0455 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2452.0	0.0	0.0	T STARTED 1235 hr
B. First Flow	0.0	0.0	17.0	0.0	0.0	T ON BOTM 0252 hr
B1. Final Flow	0.0	0.0	20.0	0.0	0.0	T OPEN 0255 hr
C. In Shut-in	0.0	0.0	22.0	0.0	0.0	T PULLED 0455 hr
D. Init Flow	0.0	0.0	20.0	0.0	0.0	T OUT 0710 hr
E. Final Flow	0.0	0.0	21.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	25.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	2418.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP  
 5.00 ft of Drillin mud  
 0.00 ft of  
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

Initial Str Wt 82000.00 lbs  
 Unseated Str Wt 82000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.88 in  
 D Col. ID 2.25 in  
 D. Pipe ID 3.50 in  
 D.C. Length 614.00 ft  
 D.P. Length 4331.00 ft

BLOW DESCRIPTION

Initial Flow:  
 Weak 1/2" blow  
 Initial Shut-in:  
 No return  
 Final Flow:  
 Bubble to open tool no blow  
 Final Shut-in:  
 No return

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.20 lb/cf  
 Vis. 52.00 S/L  
 W.L. 9.60 in3  
 F.C. 0.00 in  
 Mud Drop N  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 130.00 F  
 Hole Condition good  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out N  
 Tool Chased N  
 Tester Shane McBride  
 Co. Rep. Jeff Christian  
 Contr. Murfin  
 Rig # 14  
 Unit #  
 Pump T.

SAMPLES:  
 SENT TO:

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV.

WELL NAME: FTIA #2

LOCATION : 28-16s-41w Greeley co KS

TICKET No. 11389 D.S.T. No. 2 DATE 5-4-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 20

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 34

TOTAL TOOL ..... 54

DRILL COLLAR ANCHOR IN INTERVAL .....

C. ANCHOR STANDS Single Total

P. ANCHOR STANDS Single Total

TOTAL ASSEMBLY ..... 54

C. ABOVE TOOLS STANDS Single 2 Total 614

P. ABOVE TOOLS STANDS Single 1 Total 4331

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4999

TOTAL DEPTH ..... 4986

TOTAL DRILL PIPE ABOVE K.B. .... 13

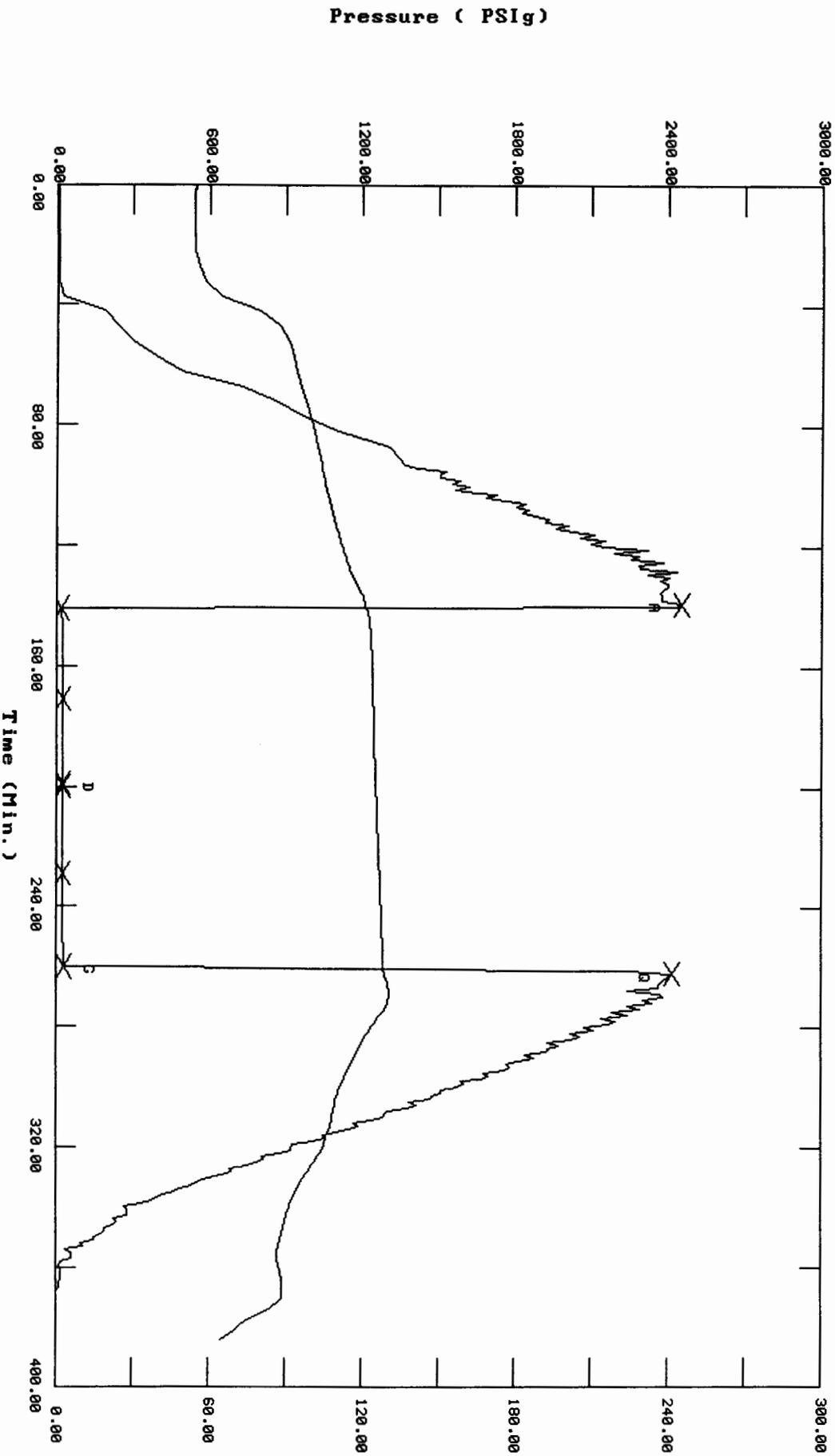
REMARKS:

P.O. SUB	
C.O. SUB 1'	4931
S.I. TOOL 5'	4937
HMV 5'	4942
JARS n/a	
SAFETY JOINT n/a	
PACKER top	4947
PACKER bottom	4952
DEPTH 4952	
STUBB 1'	4953
ANCHOR alpine recorder	4953
28' perf	4981
ak-1 recorder	4981
T.C. DEPTH	
BULLNOSE 5' bullplug	4986
T.D.	4986

# TEST HISTORY

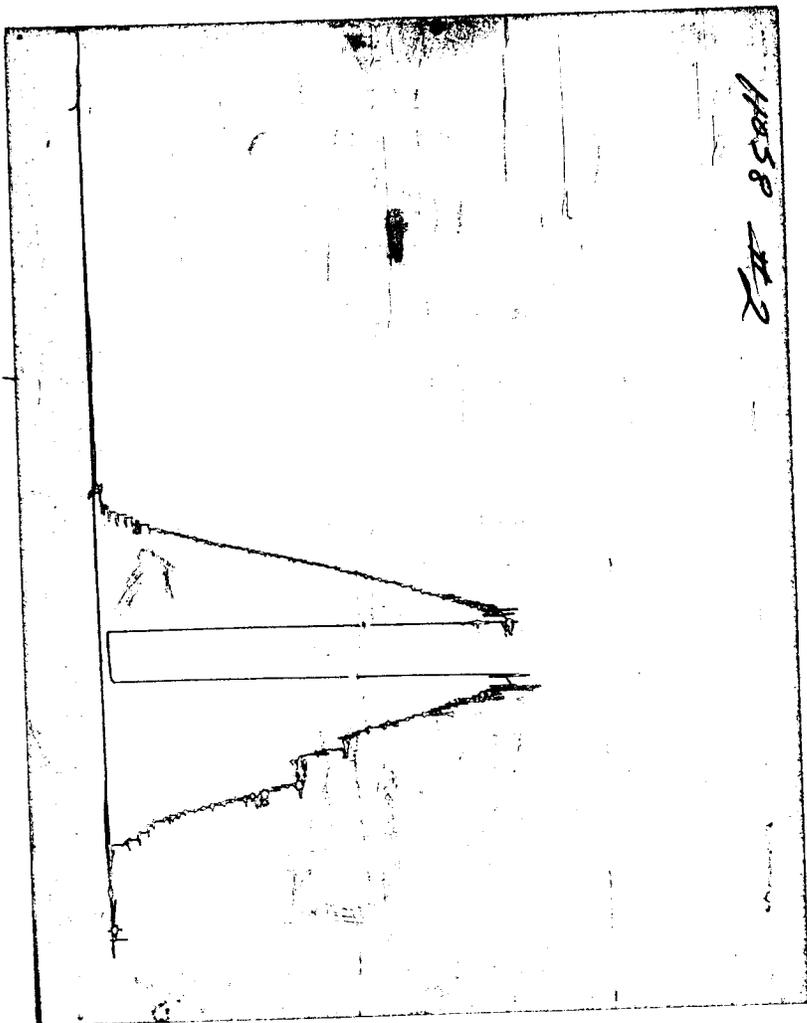
Flag Points

	T (Min.)	P (PSig)
A:	0.00	2452.00
B:	0.00	17.09
C:	30.00	20.23
D:	28.00	22.94
E:	0.00	20.87
F:	29.00	21.25
G:	31.00	25.06
Q:	0.00	2418.07



Temperature (DEG F)

CHART PAGE



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

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 11389

Well Name & No. FTIA #2 Test No. 2 Date 5-4-99  
 Company Ritchie Explor Inc. Zone Tested morrow  
 Address P.O. Box 783188, Wichita, Ks 67278-3188 Elevation 3762 KB 3752 GL  
 Co. Rep / Geo. Jeff Christian Cont. Murfin #14 Est. Ft. of Pay      Por.      %  
 Location: Sec. 28 Twp. 16 Rge. 41 Co. Greeley State KS  
 No. of Copies Norm Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)     

Interval Tested 4952 4986 Initial Str Wt./Lbs. 82,000 Unseated Str Wt./Lbs. 82,000  
 Anchor Length      34 Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 103,000  
 Top Packer Depth      4947 Tool Weight 4,000  
 Bottom Packer Depth      4952 Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth      4986 Wt. Pipe Run      Drill Collar Run 614'  
 Mud Wt. 9.2 LCM Tr Vis. 52 WL 9.6 Drill Pipe Size 4 1/2 XH Ft. Run 4331'  
 Blow Description weak 1/2 in blow  
No return  
Bubble to open tool — No blow  
No return

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
5'		5'				100%	
Rec. 5'	Feet Of <u>Daily Mud</u>						
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 130" °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 5,800 ppm System

(A) Initial Hydrostatic Mud 2452 PSI Recorder No. 2346 T-Started 12:35 A.M.  
 (B) First Initial Flow Pressure 17 PSI (depth) 4953' T-Open 02:55 A.M.  
 (C) First Final Flow Pressure 20 PSI Recorder No. 11058 T-Pulled 04:55 A.M.  
 (D) Initial Shut-in Pressure 22 PSI (depth) 4981' T-Out 07:10 A.M.  
 (E) Second Initial Flow Pressure 20 PSI Recorder No.       
 (F) Second Final Flow Pressure 21 PSI (depth)       
 (G) Final Shut-in Pressure 25 PSI Initial Opening 30 Test X 700  
 (H) Final Hydrostatic Mud 2418 PSI Initial Shut-in 30 Jars       
AK-1 ALP:W Final Flow 30 Safety Joint       
 Final Shut-in 30 Straddle     

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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 Jeff Christian  
 Our Representative Shane M. Baird  
 Circ. Sub X N/C  
 Sampler       
 Extra Packer       
 Elect. Rec. X 150  
 Other       
 TOTAL PRICE \$ 850

TRILOBITE TESTING L.L.C.

OPERATOR : Ritchie Explor.

DATE 5-5-99

WELL NAME: FTIA #2

KB 3762.00 ft

TICKET NO: 11390 DST #3

LOCATION : 28-16s-41w Greeley co KS

GR 3752.00 ft

FORMATION: miss

INTERVAL : 5121.00 To 5169.00 ft

TD 5302.00 ft

TEST TYPE: CONV.STRADDLE

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	11058	11058	2346			PF Fr. 1835 to 1905 hr
SI 30	Range(Psi )	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1905 to 1935 hr
SF 30	Clock(hrs)	12	12	alpin			SF Fr. 1935 to 2005 hr
FS 30	Depth(ft )	5155.0	5155.0	5123.0	0.0	0.0	FS Fr. 2005 to 2035 hr

	Field	1	2	3	4	
A. Init Hydro	2580.0	2571.0	2578.0	0.0	0.0	T STARTED 1600 hr
B. First Flow	55.0	53.0	26.0	0.0	0.0	T ON BOTM 1832 hr
B1. Final Flow	55.0	57.0	27.0	0.0	0.0	T OPEN 1835 hr
C. In Shut-in	66.0	57.0	33.0	0.0	0.0	T PULLED 2035 hr
D. Init Flow	44.0	57.0	26.0	0.0	0.0	T OUT 2315 hr
E. Final Flow	44.0	51.0	27.0	0.0	0.0	
F. Fl Shut-in	55.0	53.0	31.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2558.0	2524.0	2515.0	0.0	0.0	Tool Wt. 6000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 105000.00 lbs
						Initial Str Wt 84000.00 lbs
						Unseated Str Wt 84000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.50 in
						D.C. Length 614.00 ft
						D.P. Length 4644.00 ft

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP  
 5.00 ft of Drilling mud  
 0.00 ft of  
 0.00 ft of

SALINITY 5000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 1/4" at open built to 3/4"  
 Initial Shut-in:  
 No return  
 Final Flow:  
 Bubble to open tool no bow  
 Final Shut-in:  
 No return

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	52.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	132.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	3
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Jeff Christian
Contr.	Murfin
Rig #	14
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV.

WELL NAME: FTIA #2

LOCATION : 28-16-41

TICKET No. 11389 D.S.T. No. 1 DATE 5-4-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 20

INTERVAL TOOL .....

TOTAL PACKERS AND ANCHOR ..... 34

TOTAL TOOL ..... 54

DRILL COLLAR ANCHOR IN INTERVAL .....

C. ANCHOR STND.Stands Single Total

P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY ..... 54

C. ABOVE TOOLS.Stands6 Single 2 Total 614

P. ABOVE TOOLS.Stands46 Single 1 Total 4331

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4999

TOTAL DEPTH ..... 4986

TOTAL DRILL PIPE ABOVE K.B. .... 13

REMARKS:

P.O. SUB	
C.O. SUB 1'	4931
S.I. TOOL 5'	4937
HMV 5'	4942
JARS n/a	
SAFETY JOINT n/a	
PACKER top	4947
PACKER bottom	4952
DEPTH 4952	
STUBB 1'	4953
ANCHOR alpine recorder	4953
28' perf	4981
ak-1 recorder	4981
T.C.	
DEPTH	
BULLNOSE 5' bullplug	4986
T.D.	4986

# TEST HISTORY

11389 DST #2 FTIA #2 Ritchie Explor. Inc.

## Flag Points

t (Min.)	P (PSig)
A: 0.00	2452.80
B: 0.00	17.89
C: 30.00	20.23
D: 28.00	22.94
E: 0.00	20.87
F: 29.00	21.25
G: 31.00	25.86
Q: 0.00	2418.07

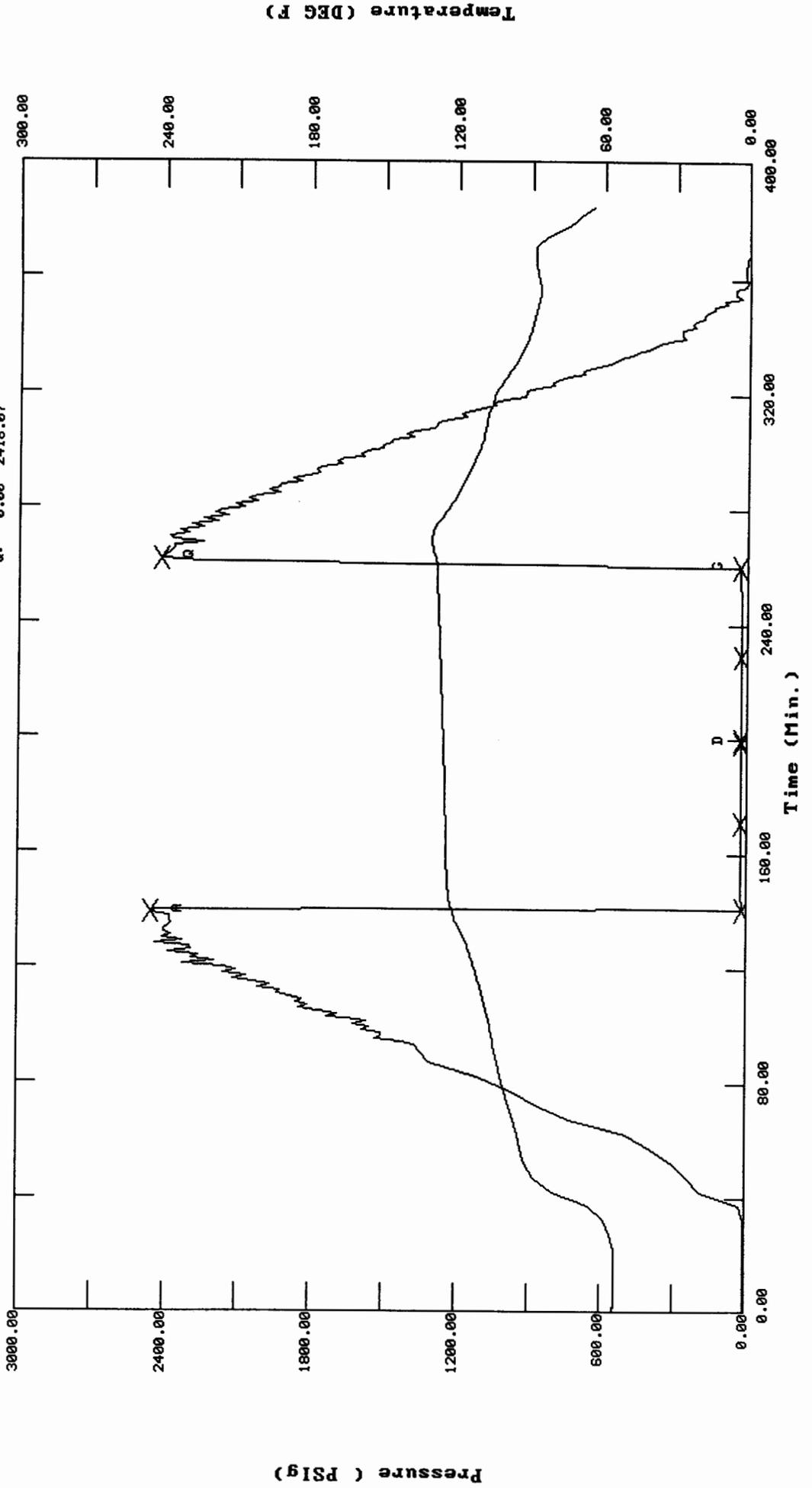
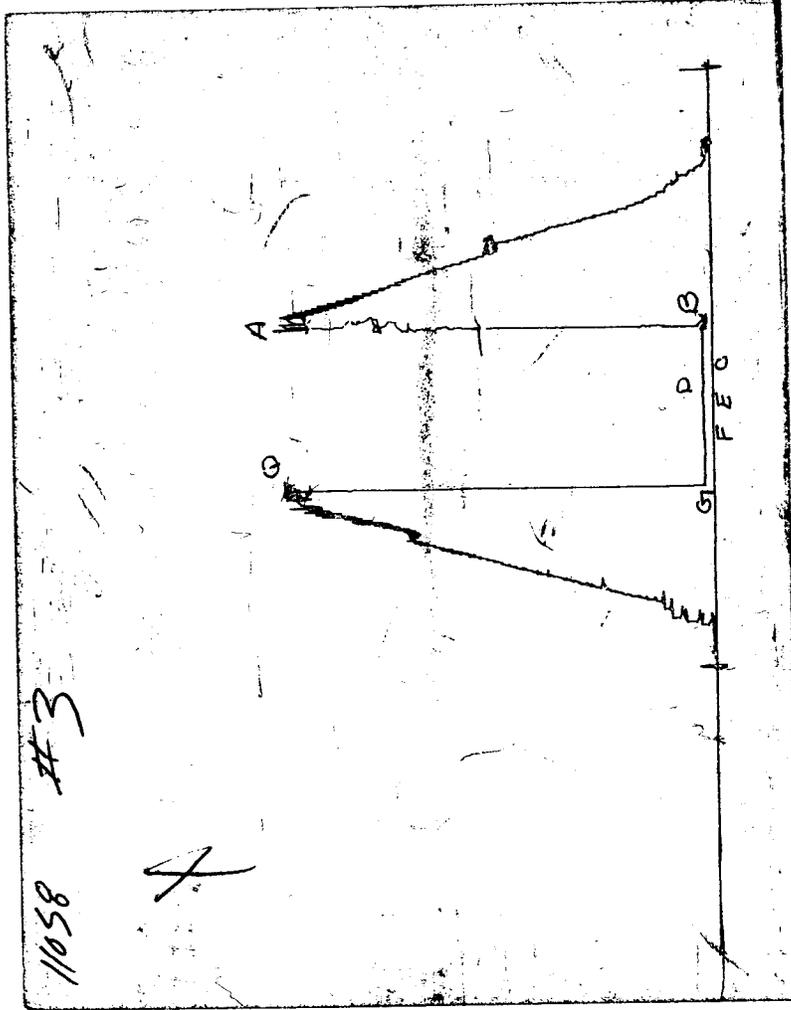
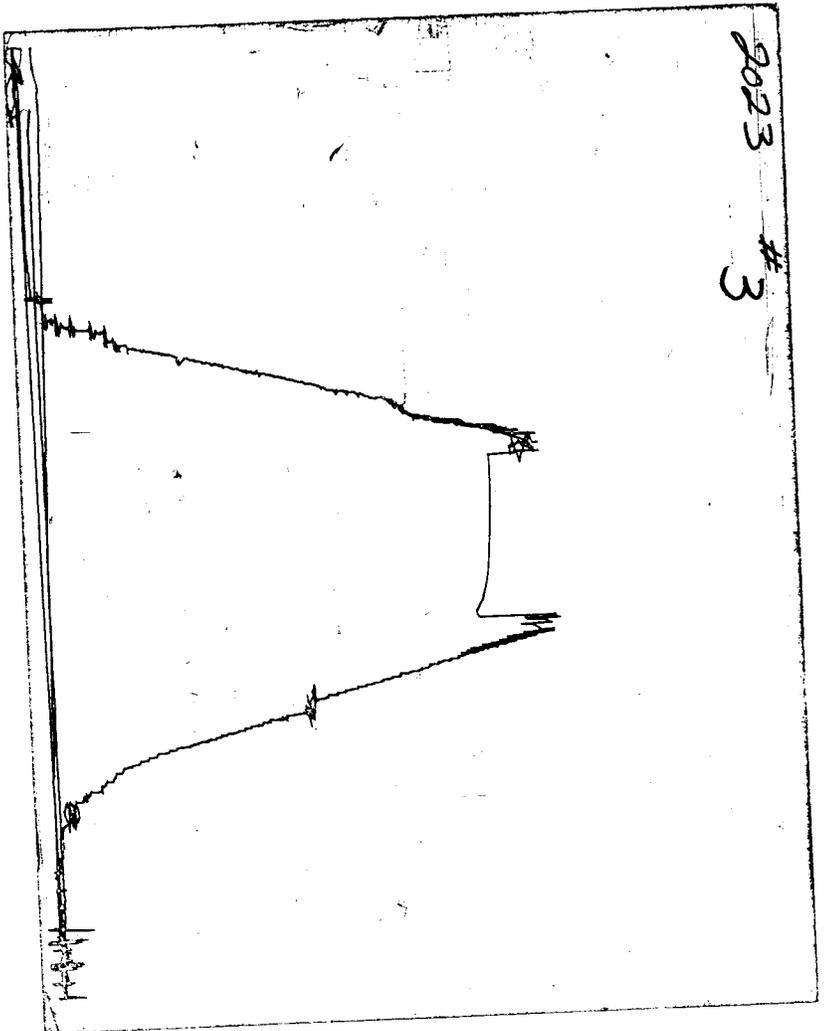


CHART PAGE



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

CHART PAGE



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# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 11390

Well Name & No. <u>FTIA #2</u>	Test No. <u>3</u>	Date <u>5-5-99</u>
Company <u>Ritchie Explor.</u>	Zone Tested <u>MISS.</u>	
Address <u>P.O. Box 783188 Wichita Ks 67278-3188</u>	Elevation <u>3762</u>	KB <u>3752</u> GL
Co. Rep / Geo. <u>Jeff Christian</u>	Cont. <u>Mark #14</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>28</u>	Twp. <u>16</u>	Rge. <u>41</u> Co. <u>Crowley</u> State <u>Ks</u>
No. of Copies <u>None</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) _____

Interval Tested <u>5121'</u>	<u>5169'</u>	Initial Str Wt./Lbs. <u>84,000</u>	Unseated Str Wt./Lbs. <u>84,000</u>
Anchor Length _____	<u>48'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>105,000</u>
Top Packer Depth <u>5116'</u>	<u>5121'</u>	Tool Weight <u>6,000</u>	
Bottom Packer Depth _____	<u>5169'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth _____	<u>5302'</u>	Wt. Pipe Run _____	Drill Collar Run <u>614'</u>
Mud Wt. <u>9.2</u> LCM <u>Tr</u> Vis. <u>52</u> WL <u>9.6</u>		Drill Pipe Size <u>4 1/2 X 4</u>	Ft. Run <u>4644'</u>
Blow Description <u>1/4" @ open built to 3/4" in weak blow</u>			
<u>No return</u>			
<u>Bubble to open tool — No blow</u>			
<u>No return</u>			

Recovery — Total Feet <u>5'</u>	GIP _____	Ft. in DC <u>5'</u>	Ft. in DP _____
Rec. <u>5'</u> Feet Of <u>Dry Mud</u>	%gas _____	%oil _____	%water <u>100</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>132°</u> °F Gravity _____	°API D@ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F Chlorides _____	ppm Recovery _____	Chlorides <u>5,000</u>	ppm System _____

(A) Initial Hydrostatic Mud	<u>2580</u>   <u>2518</u> PSI	Recorder No. <u>2344</u>	T-Started <u>16:00 p.m.</u>
(B) First Initial Flow Pressure	<u>55</u>   <u>26</u> PSI	(depth) <u>5123'</u>	T-Open <u>18:35 p.m.</u>
(C) First Final Flow Pressure	<u>55</u>   <u>27</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>20:35 p.m.</u>
(D) Initial Shut-in Pressure	<u>66</u>   <u>33</u> PSI	(depth) <u>5155'</u>	T-Out <u>23:15 p.m.</u>
(E) Second Initial Flow Pressure	<u>44</u>   <u>26</u> PSI	Recorder No. <u>2023</u>	
(F) Second Final Flow Pressure	<u>44</u>   <u>27</u> PSI	(depth) <u>5297'</u>	
(G) Final Shut-in Pressure	<u>55</u>   <u>31</u> PSI	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> 800
(H) Final Hydrostatic Mud	<u>2558</u>   <u>2515</u> PSI	Initial Shut-in <u>30</u>	Jars <input checked="" type="checkbox"/> 200
	<u>AK-1</u>   <u>ALPINE</u>	Final Flow <u>30</u>	Safety Joint <input checked="" type="checkbox"/> 50
		Final Shut-in <u>30</u>	Straddle <input checked="" type="checkbox"/> 250
			Circ. Sub <input checked="" type="checkbox"/> N/C
			Sampler _____
			Extra Packer <input checked="" type="checkbox"/> 150
			Elect. Rec. <input checked="" type="checkbox"/> 150
			Other _____
			TOTAL PRICE \$ <u>1600</u>

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Approved By Jeff Christian  
 Our Representative Shane McBurn