

WELL NAME: Thon 1-35
COMPANY: CrossBar Petroleum
LOCATION: 35-16s-31w
Scott County, Kansas
DATE: 7/27/98

TRILOBITE TESTING L.L.C.

OPERATOR : CrossBar Petroleum
WELL NAME: Thon 1-35
LOCATION : 35-16s-31w Scott co. KS
INTERVAL : 3939.00 To 3952.00 ft

DATE 7-19-98
KB 2855.00 ft TICKET NO: 11079 DST #1
GR 2850.00 ft FORMATION: Lans "B"
TD 3952.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2346			PF Fr. 2130 to 2200 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 2200 to 2300 hr
SF 10 Clock(hrs)	12	12	alpin			SF Fr. 2300 to 2310 hr
FS 0 Depth(ft)	3949.0	3949.0	3940.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2132.0	1895.0	1895.0	0.0	0.0	T STARTED 1935 hr
B. First Flow	44.0	46.0	53.0	0.0	0.0	T ON BOTM 2127 hr
B1. Final Flow	88.0	84.0	68.0	0.0	0.0	T OPEN 2130 hr
C. In Shut-in	1064.0	1046.0	1065.0	0.0	0.0	T PULLED 2310 hr
D. Init Flow	88.0	93.0	78.0	0.0	0.0	T OUT 0115 hr
E. Final Flow	88.0	91.0	75.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2121.0	1897.0	1896.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 98000.00 lbs
						Initial Str Wt 59000.00 lbs
						Unseated Str Wt 59000.00 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 247.00 ft
						D.P. Length 3684.00 ft

RECOVERY

Tot Fluid 65.00 ft of 65.00 ft in DC and 0.00 ft in DP
65.00 ft of Heavy drilling 100% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:
Tool slide 14' to bottom , 1 1/2"
blow at open died back to a weak
surface blow, surging blow (plugging)
Initial Shut-in:
No return
Final Flow:
No blow, flush tool after 5 min.

SAMPLES:
SENT TO:

MUD DATA-----
Mud Type Chemical
Weight 9.00 lb/c
Vis. 45.00 S/L
W.L. 8.80 in3
F.C. 0.00 in
Mud Drop Y 6.0 ft

Amt. of fill 14.00 ft
Btm. H. Temp. 118.00 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. Mike
Contr. Mallard
Rig # 1
Unit #
Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Thon 1-35

LOCATION : 35-16-31

TICKET No. 11079 D.S.T. No. 1 DATE 7-19-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 33

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 13

TOTAL TOOL 46

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 46

D.C. ABOVE TOOLS.Stands4 Single Total 247

D.P. ABOVE TOOLS.Stands59 Single Total 3684

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3977

TOTAL DEPTH 3952

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

P.O. SUB

C.O. SUB 1'

3906

S.I. TOOL 5'

3912

HMV 5'

3917

JARS 5'

3922

SAFETY JOINT 2'

3924

PACKER top

3929

5' blankperf

3934

PACKER bottom

3939

DEPTH 3939

STUBB 1'

3940

ANCHOR alpine recorder

3940

7' perf

3947

T.C.

DEPTH

ak-1 recorder

3949

BULLNOSE 5' bullplug

3952

T.D.

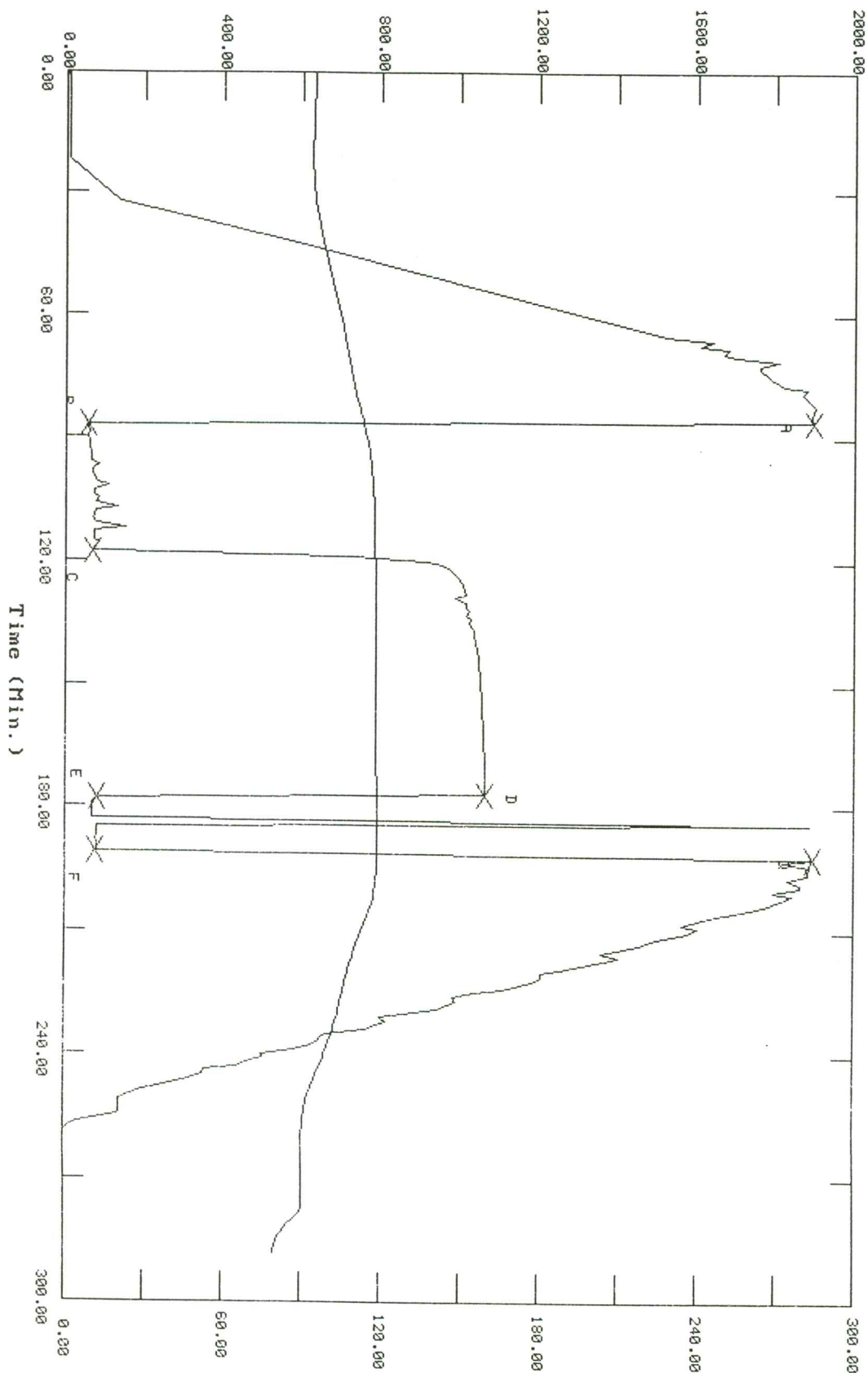
3952

TEST HISTORY

11079 DST #1 Thon #1-35 Crossbar Petrol.

Flag Points

t (Min.)	P (PSig)
A: 0.00	1895.88
B: 0.00	53.04
C: 31.00	68.34
D: 59.00	1065.05
E: 0.00	78.33
F: 13.00	75.75
G: 0.00	1896.12



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 11079

Well Name & No. <u>Then 1-35</u>	Test No. <u>1</u>	Date <u>7-19-98</u>
Company <u>CrossBar Petroleum</u>	Zone Tested <u>haws "B"</u>	
Address <u>7520 W 21st Bldg 1014 Suite B Wichita, KS</u>		Elevation <u>2855'</u> KB <u>2850'</u> GL
Co. Rep / Geo. <u>Mike Bryan</u>	Cont. <u>Malcolm J.V.</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>35</u>	Twp. <u>16</u>	Rge. <u>31</u> Co. <u>Scott</u> State <u>KS</u>
No. of Copies <u>Norm</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) <u> </u>

Interval Tested <u>3939'</u> — <u>3952'</u>	Initial Str Wt./Lbs. <u>59,000</u>	Unseated Str Wt./Lbs. <u>59,000</u>
Anchor Length <u>13'</u>	Wt. Set Lbs. <u>26,000</u>	Wt. Pulled Loose/Lbs. <u>98,000</u>
Top Packer Depth <u>3929'</u>	Tool Weight <u>4,000</u>	
Bottom Packer Depth <u>3939'</u>	Hole Size — 7 7/8" ☒	Rubber Size — 6 3/4" ☒
Total Depth <u>3952'</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>247'</u>
Mud Wt. <u>9.0</u> LCM <u> </u> Vis. <u>45</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2 X H</u>	Ft. Run <u>3684'</u>
Blow Description <u>Tool Slide 14' to Bottom — 1 1/2" blow @ open died back to</u> <u>A weak surface blow — surging blow (plugging) I.S.I.: No return</u> <u>E.F.: No Blow, flush tool after 5 min — No blow. pull tool</u>		

Recovery — Total Feet <u>65'</u>	GIP <u> </u>	Ft. in DC <u>65'</u>	Ft. in DP <u> </u>
Rec. <u>65'</u> Feet Of <u>Heavy Drilling Mud</u>	%gas <u> </u>	%oil <u> </u>	%water <u>100</u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>

BHT 118° °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 1200 ppm System

(A) Initial Hydrostatic Mud <u>1895</u> <u>2132</u> PSI	Recorder No. <u>2346</u>	T-Started <u>19:30 P.M.</u>
(B) First Initial Flow Pressure <u>53</u> <u>44</u> PSI	(depth) <u> </u>	T-Open <u>21:30 P.M.</u>
(C) First Final Flow Pressure <u>68</u> <u>88</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>23:10 P.M.</u>
(D) Initial Shut-in Pressure <u>1065</u> <u>1064</u> PSI	(depth) <u>3949'</u>	T-Out <u>01:15 A.M.</u>
(E) Second Initial Flow Pressure <u>78</u> <u>88</u> PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure <u>75</u> <u>88</u> PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure <u> </u> <u> </u> PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>600</u>
(H) Final Hydrostatic Mud <u>1896</u> <u>2121</u> PSI	Initial Shut-in <u>60</u>	Jars <u>X</u> <u>200</u>
<u>ph. line</u> <u>AK-1</u>	Final Flow <u>5-Flush-5</u>	Safety Joint <u>X</u> <u>50</u>
	Final Shut-in <u> </u>	Straddle <u> </u>
		Circ. Sub <u>X</u> <u>NE</u>
		Sampler <u> </u>
		Extra Packer <u> </u>
		Elect. Rec. <u>X</u> <u>150</u>
		Other <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 Michael R. Bryan

TRILOBITE TESTING L.L.C.

OPERATOR : CrossBar Pet.

DATE 7-20-98

WELL NAME: Thon 1-35

KB 2855.00 ft

TICKET NO: 11080

DST #2

LOCATION : 35-16s-31w Scott co. KS

GR 2850.00 ft

FORMATION: Lans. "D"

INTERVAL : 3988.00 To 4016.00 ft

TD 4016.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	11058	11058	2347			PF Fr. 1240 to 1325 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1325 to 1425 hr
SF 30 Clock(hrs)	12	12	alpin			SF Fr. 1425 to 1455 hr
FS 60 Depth(ft)	4013.0	4013.0	3989.0	0.0	0.0	FS Fr. 1455 to 1555 hr

	Field	1	2	3	4	
A. Init Hydro	2076.0	1937.0	1949.0	0.0	0.0	T STARTED 1130 hr
B. First Flow	66.0	61.0	38.0	0.0	0.0	T ON BOTM 1236 hr
B1. Final Flow	100.0	90.0	87.0	0.0	0.0	T OPEN 1240 hr
C. In Shut-in	873.0	860.0	887.0	0.0	0.0	T PULLED 1555 hr
D. Init Flow	111.0	108.0	91.0	0.0	0.0	T OUT 1755 hr
E. Final Flow	122.0	113.0	113.0	0.0	0.0	
F. Fl Shut-in	850.0	840.0	868.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2065.0	1900.0	1904.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 85000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 60000.00 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 247.00 ft
						D.P. Length 3745.00 ft

RECOVERY

Tot Fluid 200.00 ft of 200.00 ft in DC and 0.00 ft in DP
 100.00 ft of Clean slightly gassy oil 8% gas 92% oil
 100.00 ft of Slightly oil cut mud 10% oil 90% mud
 0.00 ft of
 0.00 ft of 20' gas in pipe
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 45.00

BLOW DESCRIPTION

Initial Flow:
 Tool slide 8' to bottom 1 1/2" blow
 at open died back to a 3/4" blow
 Initial Shut-in:
 No return
 Final Flow:
 1/4" at open blew throughtout
 Final Shut-in:
 No return

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type chem
 Weight 9.20 lb/c
 Vis. 46.00 S/L
 W.L. 8.60 in3
 F.C. 0.00 in
 Mud Drop Y 8.0 ft
 Amt. of fill 8.00 ft
 Btm. H. Temp. 119.00 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. Mike Bryen
 Contr. Mallard
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Thon 1-35

LOCATION : 35-16-31

TICKET No. 11080 D.S.T. No. 2 DATE 7-20-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 28

TOTAL TOOL 56

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 56

D.C. ABOVE TOOLS.Stands4 Single Total 247

D.P. ABOVE TOOLS.Stands60 Single Total 3745

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4048

TOTAL DEPTH 4016

TOTAL DRILL PIPE ABOVE K.B. 32

REMARKS:

P.O. SUB	
C.O. SUB 1'	3960
S.I. TOOL 5'	3966
HMV 5'	3971
JARS 5'	3976
SAFETY JOINT 2'	3978
PACKER top	3983
PACKER bottom	3988
DEPTH 3988	
STUBB 1'	3889
ANCHOR alpine recorder	3989
22' perf	4011
ak-1 recorder	4013
T.C.	
DEPTH	
BULLNOSE 5' bullplug	4016
T.D.	4016

11080 DST #2 Thon 1-35 CrossBar Pet. TEST HISTORY

Flag Points
t(Min.) PK PSig)

A: 0.00 1949.03
B: 0.00 38.36
C: 45.00 87.68
D: 59.00 887.51
E: 0.00 91.07
F: 30.00 113.18
G: 59.00 868.33
Q: 0.00 1904.35

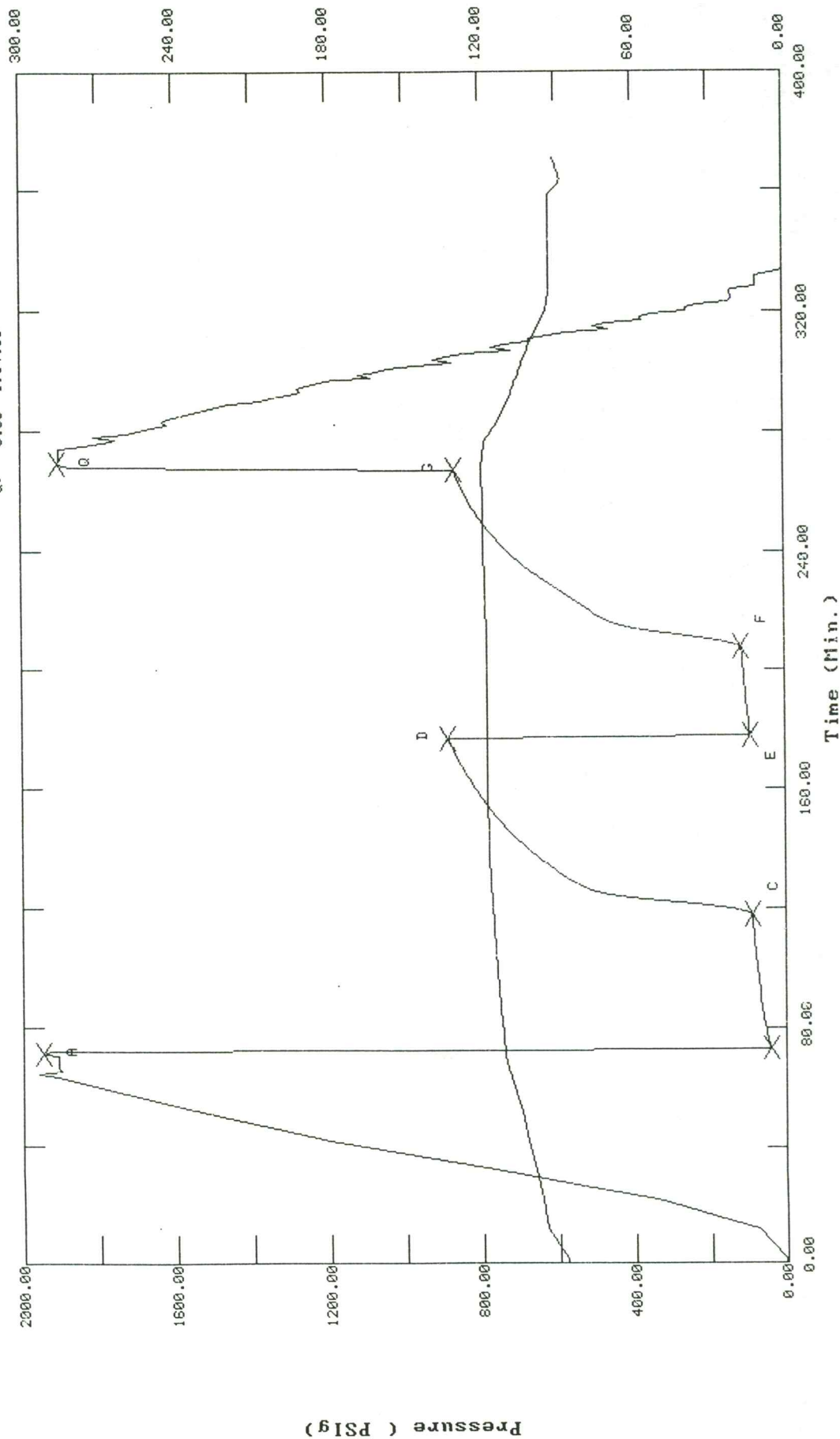
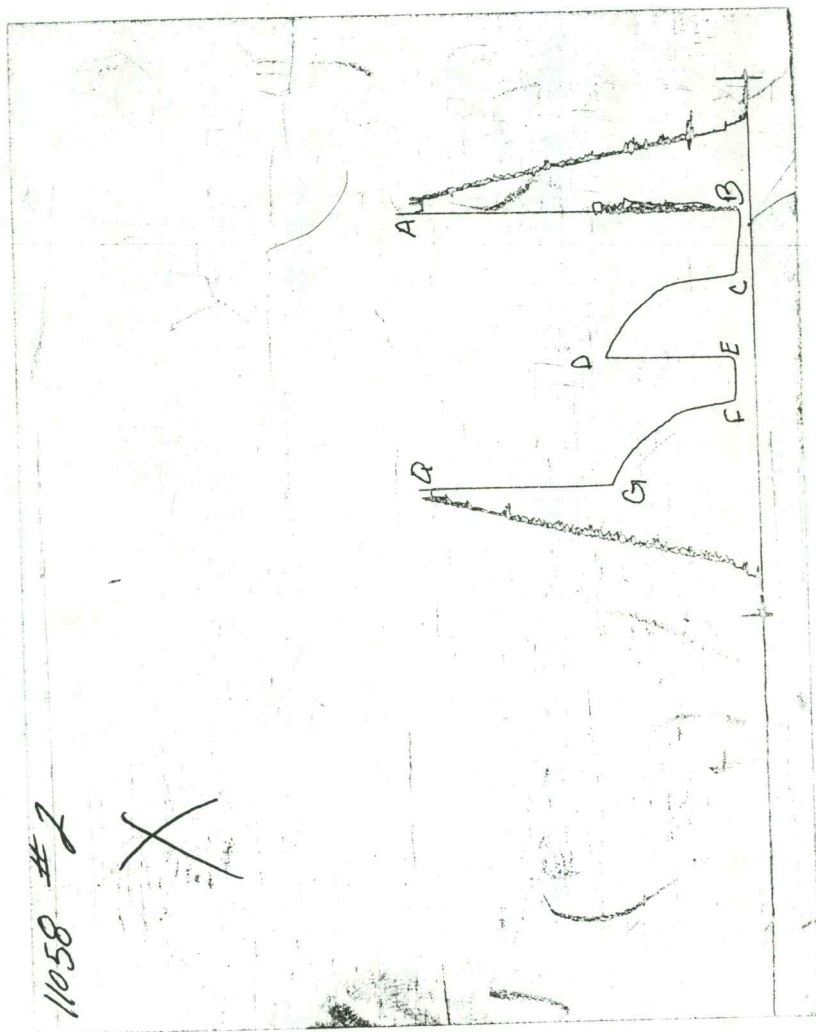


CHART PAGE



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 11080

Well Name & No. <u>Thru 1-35</u>	Test No. <u>#2</u>	Date <u>7-20-98</u>
Company <u>CrossBar Pet.</u>	Zone Tested <u>LANE 17</u>	
Address <u>7570 W 21st Bldg 1014 Suite 13 Wichita KS</u>		Elevation <u>2855</u> KB <u>2850</u> GL
Co. Rep / Geo. <u>Mike Bryan</u>	Cont. <u>Mallard J.V.</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>35</u>	Twp. <u>16</u>	Rge. <u>31</u> Co. <u>Scott</u> State <u>KS</u>
No. of Copies <u>Norm</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) <u> </u>

Interval Tested <u>3988</u>	<u>4016</u>	Initial Str Wt./Lbs. <u>6000</u>	Unseated Str Wt./Lbs. <u>6000</u>
Anchor Length <u>28</u>		Wt. Set Lbs. <u>26,000</u>	Wt. Pulled Loose/Lbs. <u>85,000</u>
Top Packer Depth <u>3983</u>		Tool Weight <u>4,000</u>	
Bottom Packer Depth <u>3988</u>		Hole Size — 7 7/8" ☒	Rubber Size — 6 3/4" ☒
Total Depth <u>4016</u>		Wt. Pipe Run <u> </u>	Drill Collar Run <u>242'</u>
Mud Wt. <u>9.2</u> LCM <u>—</u> Vis. <u>46</u> WL <u>8.6</u>		Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3745'</u>

Blow Description Tool slide 8' to bottom 1 1/2" in blow @ open died back to a 3/4" in blow. I.S.I.: No return
E.F.: Surface blow @ open 14" in blow throughout.
E.S.I.: No return.

Recovery — Total Feet <u>200'</u>	GIP <u>20'</u>	Ft. in DC <u>200'</u>	Ft. in DP <u> </u>
Rec. <u>100'</u>	Feet Of <u>Cleanst. Hygassy oil</u>	8 %gas	92 %oil
Rec. <u>100'</u>	Feet Of <u>Slightly cut mud</u>	%gas	10 %oil
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil

BHT 119° °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 4200 ppm System

(A) Initial Hydrostatic Mud <u>1949</u>	<u>2076</u> PSI	Recorder No. <u>2347</u>	T-Started <u>11:30 A.M.</u>
(B) First Initial Flow Pressure <u>38</u>	<u>66</u> PSI	(depth) <u>3989'</u>	T-Open <u>12:40 P.M.</u>
(C) First Final Flow Pressure <u>87</u>	<u>100</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>15:55 P.M.</u>
(D) Initial Shut-in Pressure <u>887</u>	<u>873</u> PSI	(depth) <u>4013'</u>	T-Out <u>17:55 P.M.</u>
(E) Second Initial Flow Pressure <u>91</u>	<u>111</u> PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure <u>113</u>	<u>122</u> PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure <u>868</u>	<u>850</u> PSI	Initial Opening <u>45</u>	Test <u>X</u> <u>700</u>
(H) Final Hydrostatic Mud <u>1904</u>	<u>2065</u> PSI	Initial Shut-in <u>60</u>	Jars <u>X</u> <u>200</u>
<u>AK-1</u>		Final Flow <u>30</u>	Safety Joint <u>X</u> <u>50</u>
		Final Shut-in <u>60</u>	Straddle <u> </u>
			Circ. Sub <u>X</u> <u>N/C</u>
			Sampler <u> </u>
			Extra Packer <u> </u>
			Elect. Rec. <u>X</u> <u>150</u>

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Approved By

Michael R. Bryan

TRILOBITE TESTING L.L.C.

OPERATOR : CrossBar Pet.

DATE 7-21-98

WELL NAME: Thon 1-35

KB 2855.00 ft

TICKET NO: 11081

DST #3

LOCATION : 35-16s-31w Scott co. KS

GR 2850.00 ft

FORMATION: "H"

INTERVAL : 4082.00 To 4106.00 ft

TD 4106.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	11058	11058	2347			PF Fr. 0652 to 0707 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0707 to 0807 hr
SF 15 Clock(hrs)	12	12	alpin			SF Fr. 0807 to 0822 hr
FS 0 Depth(ft)	4103.0	4103.0	4083.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2121.0	2151.0	2068.0	0.0	0.0	T STARTED 0525 hr
B. First Flow	88.0	91.0	48.0	0.0	0.0	T ON BOTM 0649 hr
B1. Final Flow	88.0	91.0	52.0	0.0	0.0	T OPEN 0652 hr
C. In Shut-in	1142.0	1131.0	1131.0	0.0	0.0	T PULLED 0822 hr
D. Init Flow	100.0	100.0	55.0	0.0	0.0	T OUT 1010 hr
E. Final Flow	100.0	100.0	63.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2109.0	2100.0	1964.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 90000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 60000.00 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 247.00 ft
						D.P. Length 3838.00 ft

RECOVERY

Tot Fluid 65.00 ft of 65.00 ft in DC and 0.00 ft in DP
 15.00 ft of slightly oil cut mud 8%oil 92% mud
 50.00 ft of drilling mud 100% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Tool slide 15' to bottom, 3/4" blow
 at open died in 9 mins.
 Initial Shut-in:
 No return
 Final Flow:
 No blow - flush tool good surge-

SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	45.00 S/L
W.L.	8.60 in3
F.C.	0.00 in
Mud Drop Y	10.0 ft
Amt. of fill	15.00 ft
Btm. H. Temp.	118.00 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.	Mike Bryen
Contr.	Mallard
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Thon 1-35

LOCATION : 35-16s-31w Scott co. KS

TICKET No. 11081 D.S.T. No. 3 DATE 7-21-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 24

TOTAL TOOL 52

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 52

D.C. ABOVE TOOLS.Stands4 Single Total 247

D.P. ABOVE TOOLS.Stands61 Single 1 Total 3838

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4137

TOTAL DEPTH 4106

TOTAL DRILL PIPE ABOVE K.B. 31

REMARKS:

P.O. SUB	
C.O. SUB 1'	4054
S.I. TOOL 5'	4060
HMV 5'	4065
JARS 5'	4070
SAFETY JOINT 2'	4072
PACKER top	4077
PACKER bottom	4082
DEPTH 4082	
STUBB 1'	4083
ANCHOR alpine recorder	4083
18' perf	4101
ak-1 recorder	4103
T.C.	
DEPTH	
BULLNOSE 5' bullplug	4106
T.D.	4106

TEST HISTORY

11081 DST #3 CrossBar Pet. Thon 1-35

Flag Points
t(Min.) P(PSig)

A:	0.00	2068.04
B:	0.00	48.05
C:	14.00	52.72
D:	60.00	1131.36
E:	0.00	55.80
F:	14.00	63.15
G:	0.00	1964.36

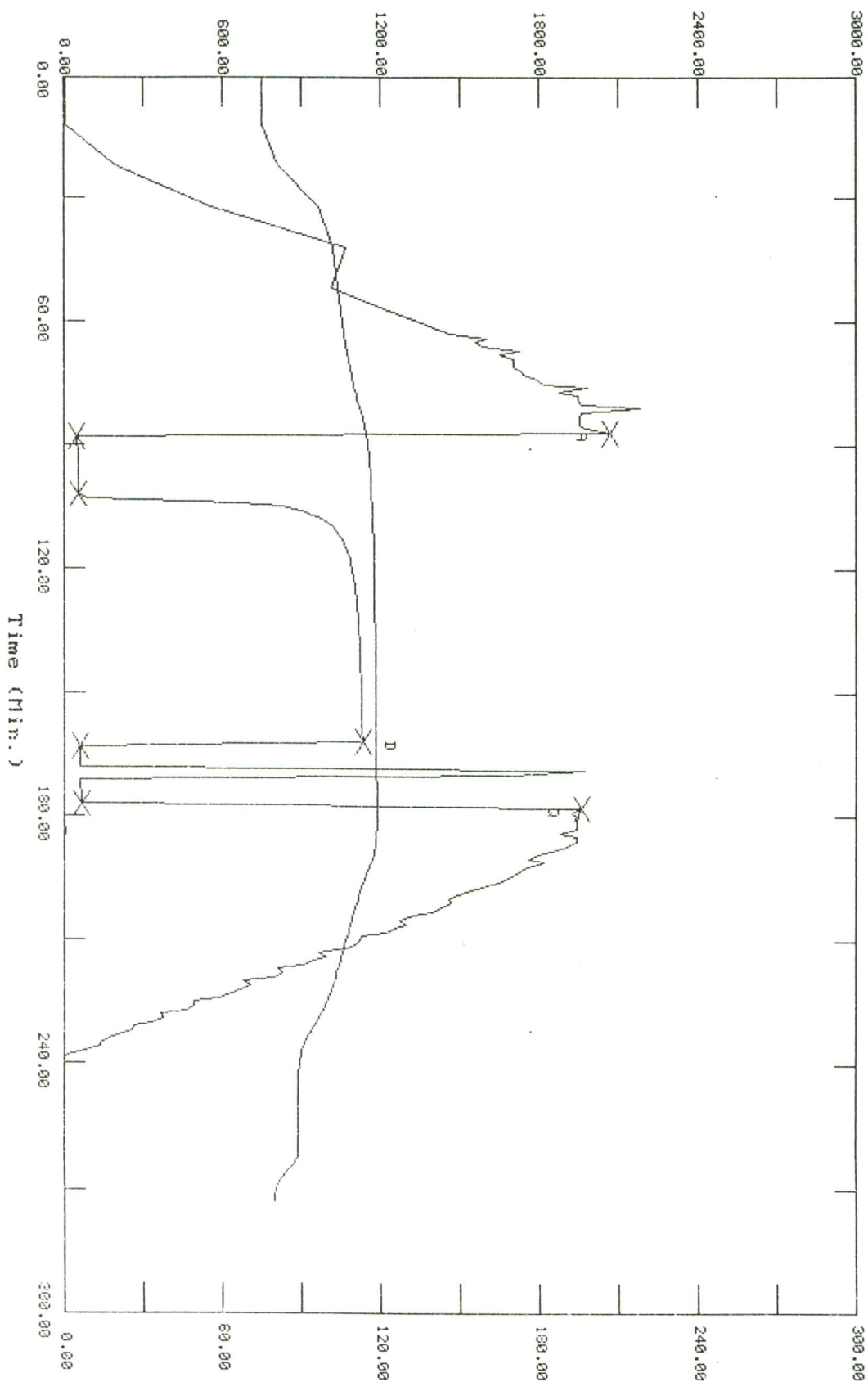
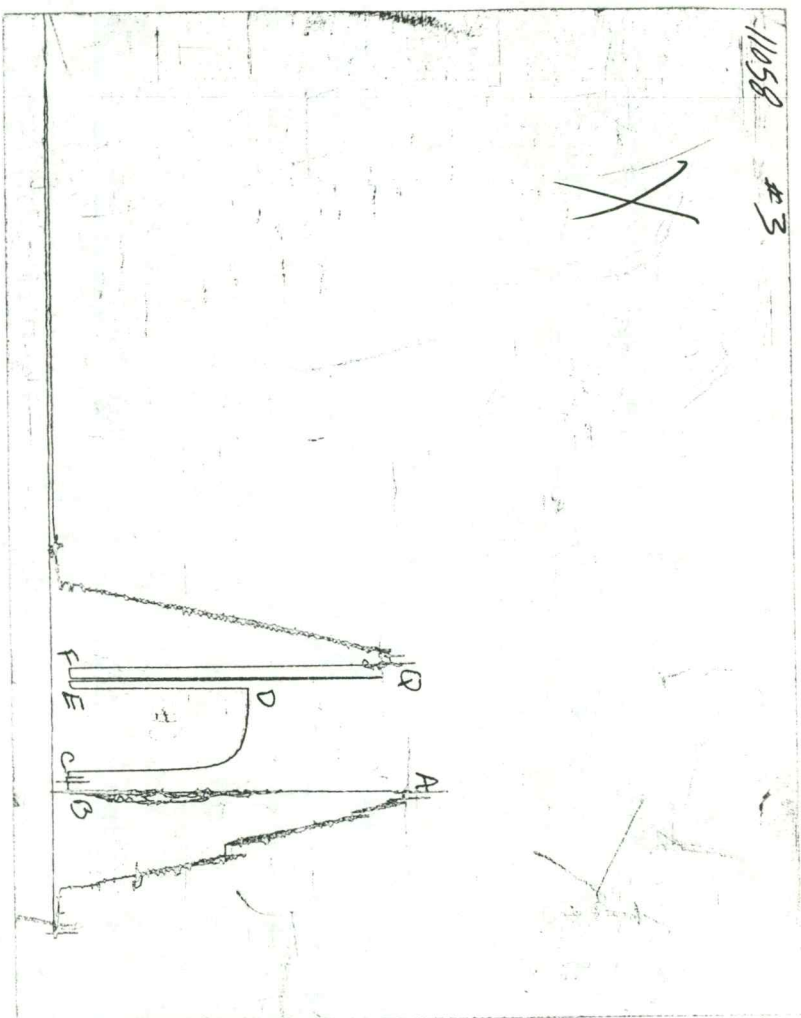


CHART PAGE



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 11081

Well Name & No. <u>Thon 1-35</u>	Test No. <u>#3</u>	Date <u>7-21-98</u>
Company <u>CrossBar Pet.</u>	Zone Tested <u>"H"</u>	
Address <u>7570 W 21st Bldg 1014 Suite B Wichita, KS</u>	Elevation <u>2855</u>	KB <u>2850</u> GL
Co. Rep / Geo. <u>Mike Bryan</u>	Cont. <u>Mallard F.U.</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>35</u> Twp. <u>16</u> Rge. <u>31</u>	Co. <u>Scott</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 4082 4106 Initial Str Wt./Lbs. 60,000 Unseated Str Wt./Lbs. 60,000
 Anchor Length 24 Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 90,000
 Top Packer Depth 4077 Tool Weight 4,000
 Bottom Packer Depth 4082 Hole Size — 7 7/8" ☒ Rubber Size — 6 3/4" ☒
 Total Depth 4106 Wt. Pipe Run Drill Collar Run 247'
 Mud Wt. 9.3 LCM — Vis. 45 WL 8.6 Drill Pipe Size 4 1/2 X 4 Ft. Run
 Blow Description Tool slide 15' to bottom, 3/4" blow @ open died in 9 min
I.S.I: No return.
F.F: No blow Flush Tool - good Surge - No blow. pull tool

Recovery — Total Feet 65' GIP Ft. in DC 65' Ft. in DP
 Rec. 15' Feet Of Sl. Hy O.I Cut mud %gas 8 %oil %water 92 %mud
 Rec. 50' Feet Of Daily Mud %gas %oil %water 100 %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud

BHT 118° °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 1,200 ppm System

(A) Initial Hydrostatic Mud	<u>2068</u>	<u>2121</u>	PSI	Recorder No. <u>2347</u>	T-Started <u>05:25 A.M.</u>
(B) First Initial Flow Pressure	<u>48</u>	<u>88</u>	PSI	(depth) <u>4083</u>	T-Open <u>06:52 AM</u>
(C) First Final Flow Pressure	<u>52</u>	<u>88</u>	PSI	Recorder No. <u>11058</u>	T-Pulled <u>08:22 AM</u>
(D) Initial Shut-in Pressure	<u>1131</u>	<u>1142</u>	PSI	(depth) <u>4103</u>	T-Out <u>10:10 A.M.</u>
(E) Second Initial Flow Pressure	<u>55</u>	<u>100</u>	PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure	<u>63</u>	<u>100</u>	PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure	<u> </u>	<u> </u>	PSI	Initial Opening <u>15</u>	Test <u>X</u> <u>700</u>
(H) Final Hydrostatic Mud	<u>1964</u>	<u>2109</u>	PSI	Initial Shut-in <u>60</u>	Jars <u>X</u> <u>200</u>

Final Flow 15 Safety Joint y 50
 Final Shut-in Straddle
 Circ. Sub X N/C
 Sampler
 Extra Packer
 Elect. Rec X 150
 Other

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 Michael R. Bryan

TRILOBITE TESTING L.L.C.

OPERATOR : CrossBar Pet.

DATE 7-21-98

WELL NAME: Thon 1-35

KB 2855.00 ft

TICKET NO: 11082

DST #4

LOCATION : 35-16s-31w Scott co. KS

GR 2850.00 ft

FORMATION: "H"

INTERVAL : 4084.00 To 4126.00 ft

TD 4126.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 10 Rec.	11058	11058	2347			PF Fr. 1900 to 1910 hr
SI 20 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1910 to 1930 hr
SF 5 Clock(hrs)	12	12	alpin			SF Fr. 1930 to 1935 hr
FS 0 Depth(ft)	4123.0	4123.0	4085.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2098.0	2017.0	1993.0	0.0	0.0	T STARTED 1700 hr
B. First Flow	100.0	98.0	26.0	0.0	0.0	T ON BOTM 1857 hr
B1. Final Flow	88.0	87.0	31.0	0.0	0.0	T OPEN 1900 hr
C. In Shut-in	1064.0	1065.0	1056.0	0.0	0.0	T PULLED 1935 hr
D. Init Flow	100.0	104.0	34.0	0.0	0.0	T OUT 2110 hr
E. Final Flow	88.0	96.0	41.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2087.0	2017.0	1984.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	o				Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 60000.00 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 247.00 ft
						D.P. Length 3839.00 ft

RECOVERY

Tot Fluid 10.00 ft of 10.00 ft in DC and 0.00 ft in DP
 10.00 ft of slightly oil cut mud 8%oil 92% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:

Weak surface blow died in 7 mins.

Initial Shut-in:

No return

Final Flow:

No blow waited 5 mins., flushed tool
 no blow, pulled tool

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	48.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	3.00 ft
Btm. H. Temp.	114.00 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.	Mike Bryen
Contr.	Mallard
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

ELL NAME: Thon 1-35

LOCATION : 35-16-31

TICKET No. 11082 D.S.T. No. 4 DATE 7-21-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 42

TOTAL TOOL 70

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 70

D.C. ABOVE TOOLS.Stands4 Single Total 247

D.P. ABOVE TOOLS.Stands62 Single 1 Total 3839

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4156

TOTAL DEPTH 4126

TOTAL DRILL PIPE ABOVE K.B. 30

REMARKS:

P.O. SUB	4056
C.O. SUB 1'	
S.I. TOOL 5'	4062
HMV 5'	4067
JARS 5'	4072
SAFETY JOINT 2'	4074
PACKER top	4079
PACKER bottom	4084
DEPTH 4084	
STUBB 1'	4085
ANCHOR alpine recorder	4085
36' perf	4121
ak-1 recorder	4123
T.C.	
DEPTH	
BULLNOSE 5' bullplug	4126
T.D.	4126

TEST HISTORY

11062 DST #4 Thon 1-35 CrossBar Pet.

	t (Min.)	P (PSig)	Flag Points
A:	0.00	1993.23	
B:	0.00	26.14	
C:	10.00	31.51	
D:	19.00	1056.06	
E:	0.00	34.47	
F:	8.00	41.08	
G:	0.00	1984.38	

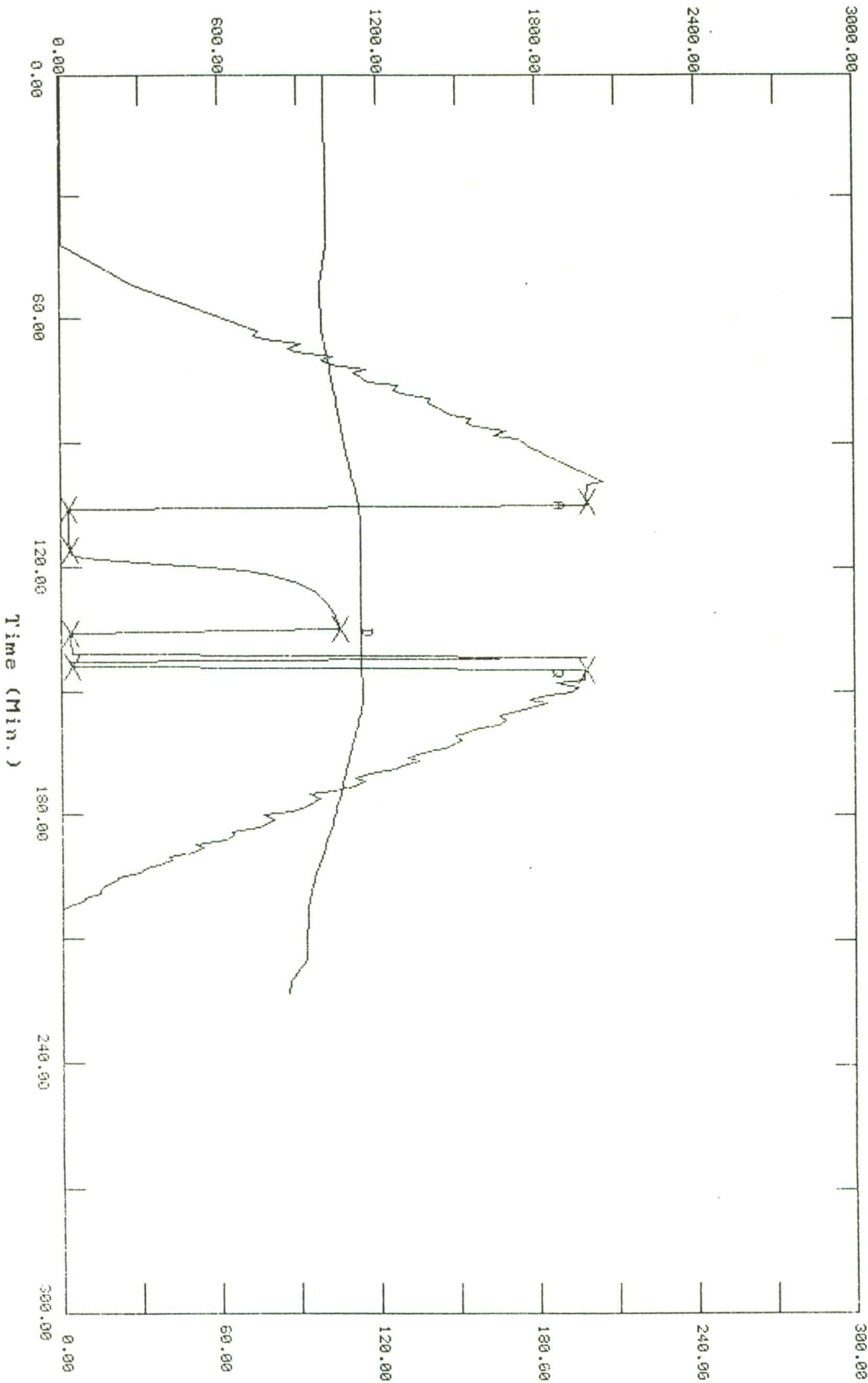
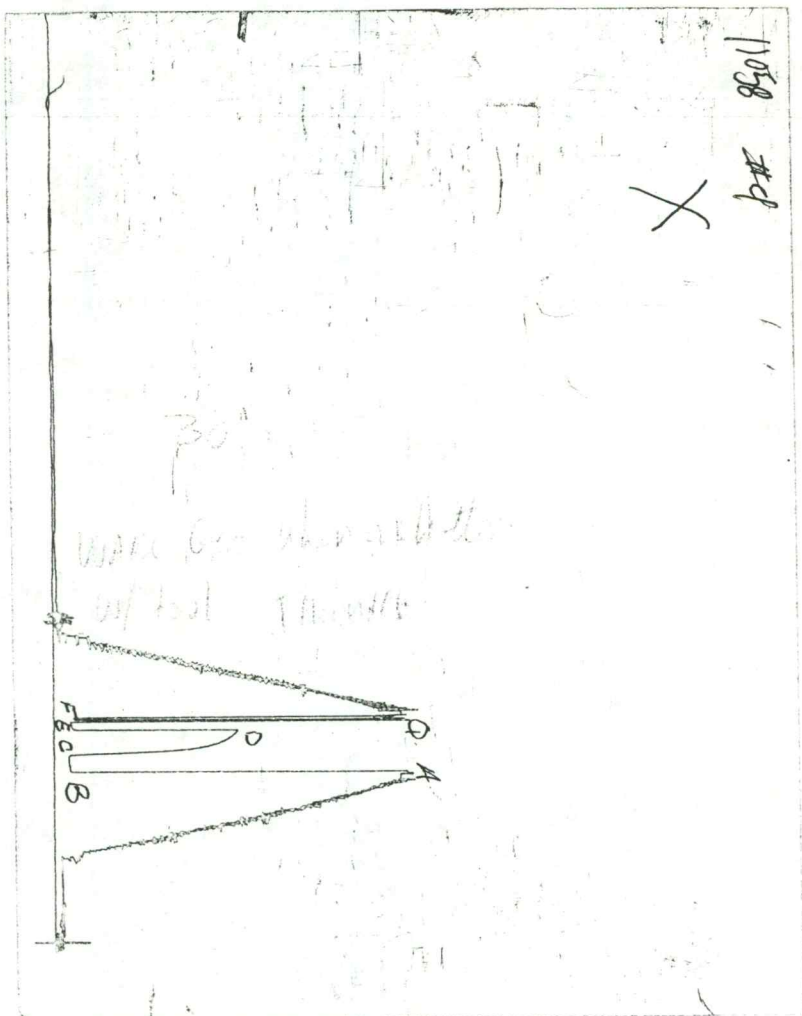


CHART PAGE



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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11082

Well Name & No. <u>Thom 1-35</u>	Test No. <u>#4</u>	Date <u>7-21-98</u>
Company <u>Cross Bar Pet.</u>	Zone Tested <u>"H"</u>	
Address <u>7570 W 21st Bldg 1014 Suite B Wichita, KS</u>	Elevation <u>2855</u> KB <u>2850</u> GL	
Co. Rep / Geo. <u>Mike Boyer</u>	Cont. <u>Mallard J.V.</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>35</u> Twp. <u>16</u> Rge. <u>31</u>	Co. <u>Scott</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>4084</u>	<u>4126</u>	Initial Str Wt./Lbs. <u>10,000</u>	Unseated Str Wt./Lbs. <u>10,000</u>
Anchor Length <u> </u>	<u>42</u>	Wt. Set Lbs. <u>26,000</u>	Wt. Pulled Loose/Lbs. <u>32,000</u>
Top Packer Depth <u> </u>	<u>4079</u>	Tool Weight <u>4,000</u>	
Bottom Packer Depth <u> </u>	<u>4084</u>	Hole Size — 7 7/8" ☒	Rubber Size — 6 3/4" ☒
Total Depth <u> </u>	<u>4126</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>247'</u>
Mud Wt. <u>9.3</u> LCM <u>—</u> Vis. <u>48</u> WL <u>8.0</u>		Drill Pipe Size <u>4 1/2 x 14</u>	Ft. Run <u> </u>
Blow Description <u>3' of soft fill on bottom - Weak Surface blow, died in 7 min</u>			
<u>I.S.I: No return</u>			
<u>F.F: No blow went 5 min, Flush Tool, No blow pull tool.</u>			

Recovery — Total Feet <u>10'</u>	GIP <u> </u>	Ft. in DC <u>10'</u>	Ft. in DP <u> </u>
Rec. <u>10'</u>	Feet Of <u>slightly oil out mud</u>	%gas <u>8</u> %oil <u> </u>	%water <u>82</u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u> %oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u> %oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u> %oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u> %oil <u> </u>	%water <u> </u> %mud <u> </u>

BHT <u>114°</u>	°F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u> </u>	@ <u> </u>	°F Chlorides <u> </u>	ppm Recovery Chlorides <u>1200</u>	ppm System <u> </u>

(A) Initial Hydrostatic Mud <u>1993</u>	<u>2098</u> PSI	Recorder No. <u>2347</u>	T-Started <u>17:00 P.M.</u>
(B) First Initial Flow Pressure <u>26</u>	<u>100</u> PSI	(depth) <u>4085'</u>	T-Open <u>19:00 P.M.</u>
(C) First Final Flow Pressure <u>31</u>	<u>88</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>19:35 P.M.</u>
(D) Initial Shut-in Pressure <u>1056</u>	<u>1064</u> PSI	(depth) <u>4123'</u>	T-Out <u>21:10 P.M.</u>
(E) Second Initial Flow Pressure <u>34</u>	<u>100</u> PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure <u>41</u>	<u>88</u> PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure <u> </u>	<u> </u> PSI	Initial Opening <u>10</u>	Test <u>X</u> <u>700</u>
(H) Final Hydrostatic Mud <u>1984</u>	<u>2087</u> PSI	Initial Shut-in <u>20</u>	Jars <u>X</u> <u>200</u>
		Final Flow <u>5</u>	Safety Joint <u>X</u> <u>50</u>
		Final Shut-in <u> </u>	Straddle <u> </u>

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Approved By Michael R. Boyer

Circ. Sub X N/C
 Sampler
 Extra Packer
 Elect. Rec. X 150
 Other

TRILOBITE TESTING L.L.C.

OPERATOR : CrossBar Pet.

DATE 7-22-98

WELL NAME: Thon 1-35

KB 2855.00 ft

TICKET NO: 11083

DST #5

LOCATION : 35-16s-31w Scott co. KS

GR 2850.00 ft

FORMATION: "I"

INTERVAL : 4120.00 To 4150.00 ft

TD 4150.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	11058	11058	2347			PF Fr. 0550 to 0600 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0600 to 0700 hr
SF 10 Clock(hrs)	12	12	alpin			SF Fr. 0700 to 0710 hr
FS 0 Depth(ft)	4147.0	4147.0	4121.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2020.0	1995.0	2015.0	0.0	0.0	T STARTED 0435 hr
B. First Flow	77.0	74.0	19.0	0.0	0.0	T ON BOTM 0546 hr
B1. Final Flow	66.0	70.0	26.0	0.0	0.0	T OPEN 0550 hr
C. In Shut-in	601.0	606.0	615.0	0.0	0.0	T PULLED 0710 hr
D. Init Flow	66.0	67.0	23.0	0.0	0.0	T OUT 0850 hr
E. Final Flow	55.0	67.0	25.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2008.0	1985.0	1991.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 60000.00 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 247.00 ft
						D.P. Length 3870.00 ft

RECOVERY

Tot Fluid 2.00 ft of 2.00 ft in DC and 0.00 ft in DP
 2.00 ft of slightly oil cut mud 5% oil 95% mud
 0.00 ft of good show of free oil on top
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:
 Weak surface blow died in 3 mins.
 Initial Shut-in:
 No return
 Final Flow:
 No blow flush tool no blow

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	54.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 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.	Mike Bryen
Contr.	Mallard
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Thon 1-35

LOCATION : 35-16s-31w Scott co. KS

TICKET No. 11083 D.S.T. No. 5 DATE 7-22-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 30

TOTAL TOOL 58

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 58

D.C. ABOVE TOOLS.Stands4 Single Total 247

D.P. ABOVE TOOLS.Stands62 Single Total 3870

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4175

TOTAL DEPTH 4150

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

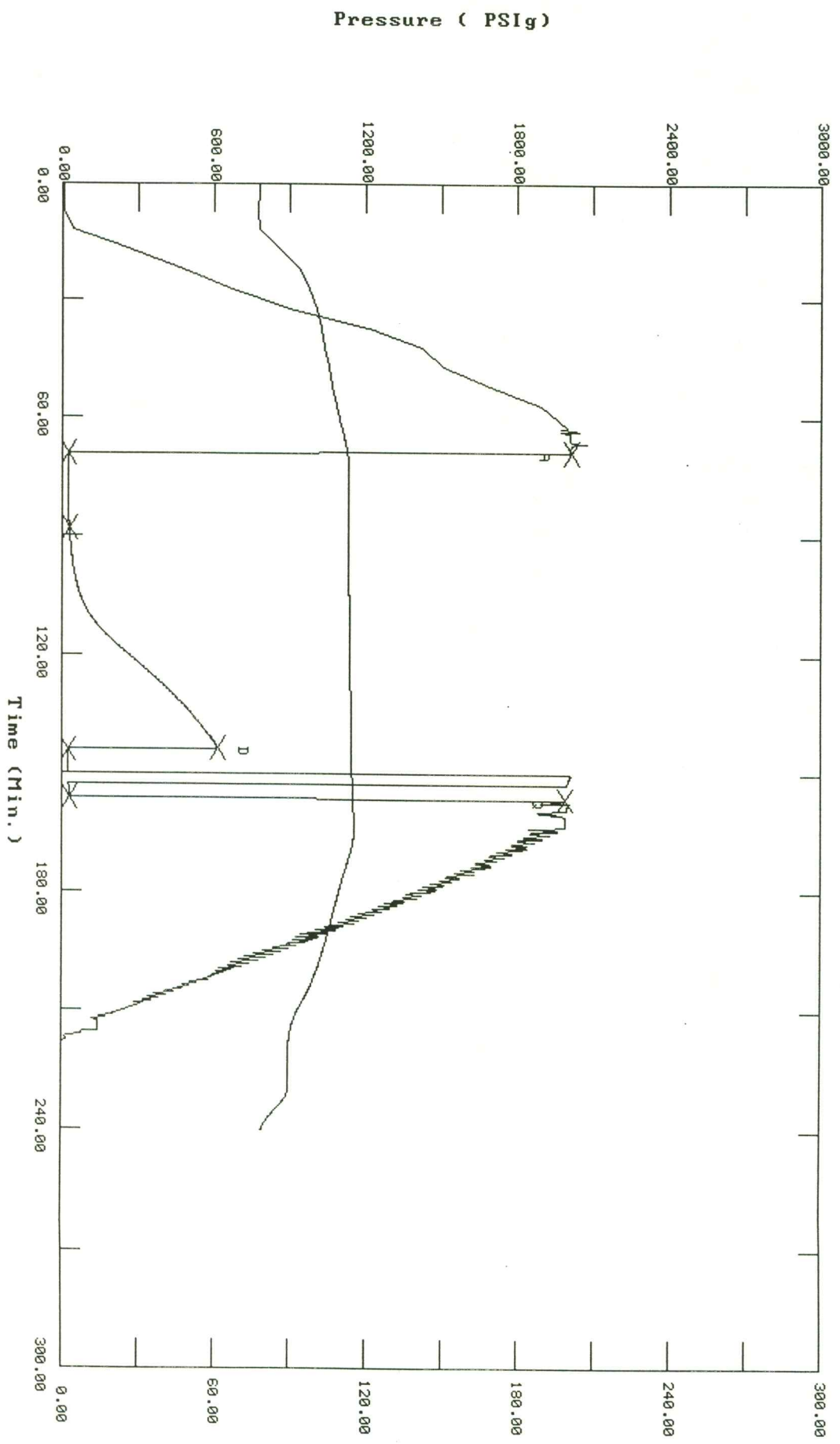
P.O. SUB	
C.O. SUB 1'	4092
S.I. TOOL 5'	4098
HMV 5'	4103
JARS 5'	4108
SAFETY JOINT 2'	4110
PACKER top	4115
PACKER bottom	4120
DEPTH 4120	
STUBB 1'	4121
ANCHOR alpine recorder	4121
24' perf	4145
ak-1 recorder	4147
T.C.	
DEPTH	
BULLNOSE 5' bullplug	4150
T.D.	4150

TEST HISTORY

11083 DST #5 Thon 1-35 CrossBar Pet.

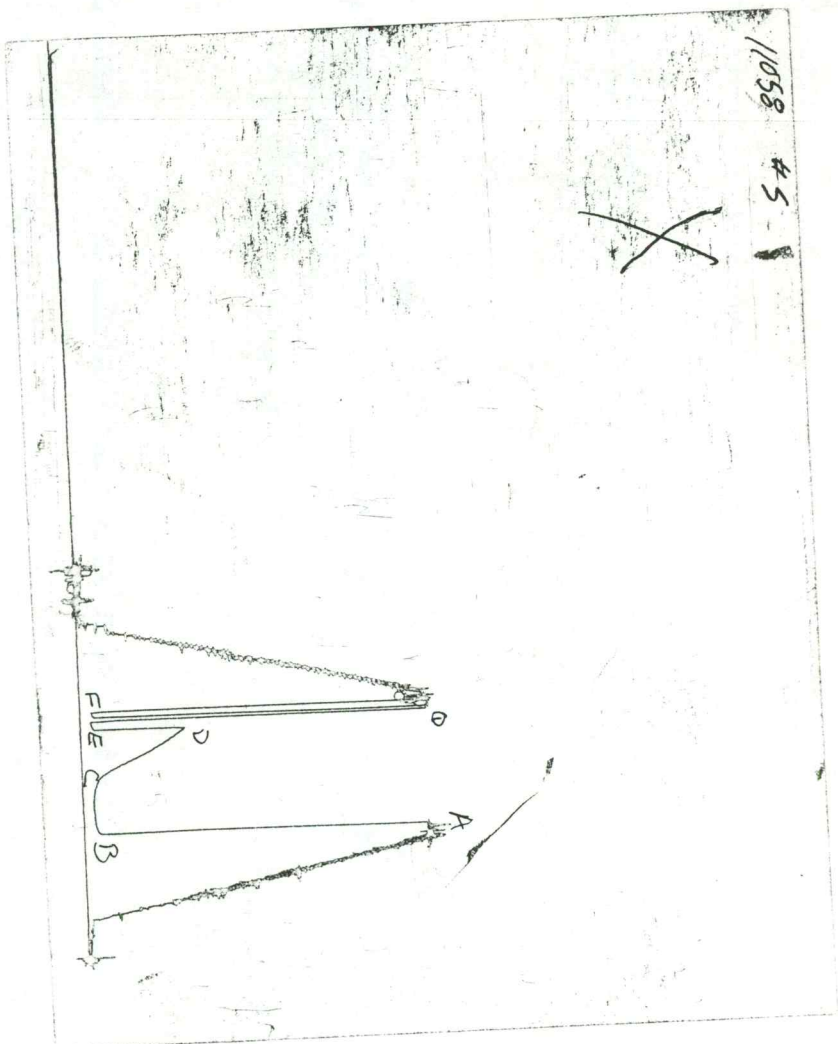
Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2015.46
B:	0.00	19.97
C:	19.25	26.26
D:	55.50	615.44
E:	0.00	23.36
F:	12.00	25.08
G:	0.00	1991.89



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 11083

Well Name & No. <u>Thaw 1-35</u>	Test No. <u>5</u>	Date <u>7-22-98</u>
Company <u>CrossBar Pet</u>	Zone Tested <u>"I"</u>	
Address <u>2570 W 21st Bldg 114 Suite B Wichita, KS</u>	Elevation <u>2855</u> KB <u>2850</u> GL	
Co. Rep / Geo. <u>Mike Bryen</u>	Cont. <u>Marlhard</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>35</u> Twp. <u>16</u> Rge. <u>31</u>	Co. <u>Scott</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>4120'</u>	<u>4150'</u>	Initial Str Wt./Lbs. <u>64,000</u>	Unseated Str Wt./Lbs. <u>60,000</u>
Anchor Length <u>30'</u>		Wt. Set Lbs. <u>24,000</u>	Wt. Pulled Loose/Lbs. <u>80,000</u>
Top Packer Depth <u>4115'</u>		Tool Weight <u>4,000</u>	
Bottom Packer Depth <u>4120'</u>		Hole Size — 7 7/8" ☒	Rubber Size — 6 3/4" ☒
Total Depth <u>4150'</u>		Wt. Pipe Run <u> </u>	Drill Collar Run <u>247'</u>
Mud Wt. <u>9.3</u> LCM <u> </u> Vis. <u>54</u> WL <u>8.8</u>		Drill Pipe Size <u>4 1/2 x H</u>	Ft. Run <u>3870'</u>
Blow Description <u>Weak surface blow died in 3m.w</u>			
<u>T.S.I: No return</u>			
<u>F.F: No blow - Flush tool No blow Pull Tool</u>			

Recovery — Total Feet <u>2'</u>	GIP <u> </u>	Ft. in DC <u>2'</u>	Ft. in DP <u> </u>
Rec. <u>2'</u>	Feet Of <u>slightly oil cut mud</u>	%gas <u>5</u>	%oil <u> </u> %water <u>95</u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u>(good show of free flow top)</u>	%gas <u> </u>	%oil <u> </u> %water <u> </u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u> %water <u> </u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u> %water <u> </u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u> %water <u> </u> %mud <u> </u>

BHT 118° °F Gravity °API D @ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 1200 ppm System

(A) Initial Hydrostatic Mud <u>2015</u>	<u>2020</u> PSI	Recorder No. <u>2347</u>	T-Started <u>04:35 AM</u>
(B) First Initial Flow Pressure <u>19</u>	<u>77</u> PSI	(depth) <u>4121</u>	T-Open <u>05:50 AM</u>
(C) First Final Flow Pressure <u>26</u>	<u>66</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>07:15 AM</u>
(D) Initial Shut-in Pressure <u>615</u>	<u>601</u> PSI	(depth) <u>4147'</u>	T-Out <u>08:50 AM</u>
(E) Second Initial Flow Pressure <u>23</u>	<u>66</u> PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure <u>25</u>	<u>55</u> PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure <u> </u>	<u> </u> PSI	Initial Opening <u>15</u>	Test <u>X</u> <u>700</u>
(H) Final Hydrostatic Mud <u>1991</u>	<u>2008</u> PSI	Initial Shut-in <u>60</u>	Jars <u>X</u> <u>200</u>
<u>Alpine</u>	<u>AK-1</u>	Final Flow <u>10</u>	Safety Joint <u>X</u> <u>50</u>
		Final Shut-in <u> </u>	Straddle <u> </u>
			Circ. Sub <u>X</u> <u>N/C</u>
			Sampler <u> </u>
			Extra Packer <u> </u>
			Elect. Rec <u>X</u> <u>150</u>
			Other <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 Michael R. Bryen

TRILOBITE TESTING L.L.C.

OPERATOR : CrossBar Pet.

DATE 7-22-98

WELL NAME: Thon 1--35

KB 2855.00 ft

TICKET NO: 11084

DST #6

LOCATION : 35-16s-31w Scott co. KS

GR 2850.00 ft

FORMATION: "J-K"

INTERVAL : 4150.00 To 4200.00 ft

TD 4200.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2347			PF Fr. 2000 to 2030 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 2030 to 2130 hr
SF 30 Clock(hrs)	12	12	alpin			SF Fr. 2130 to 2200 hr
FS 60 Depth(ft)	4197.0	4197.0	4201.0	0.0	0.0	FS Fr. 2200 to 2300 hr

	Field	1	2	3	4	
A. Init Hydro	2076.0	2047.0	2222.0	0.0	0.0	T STARTED 1830 hr
B. First Flow	111.0	121.0	56.0	0.0	0.0	T ON BOTM 1956 hr
B1. Final Flow	489.0	488.0	533.0	0.0	0.0	T OPEN 2000 hr
C. In Shut-in	1064.0	1054.0	1075.0	0.0	0.0	T PULLED 2300 hr
D. Init Flow	534.0	351.0	542.0	0.0	0.0	T OUT 0145 hr
E. Final Flow	737.0	731.0	777.0	0.0	0.0	
F. Fl Shut-in	1064.0	1065.0	1075.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2065.0	2049.0	2137.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 66000.00 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 247.00 ft
						D.P. Length 3933.00 ft

RECOVERY

Tot Fluid 1627.00 ft of 247.00 ft in DC and 1380.00 ft in DP
 65.00 ft of watery mud trace of oil 30%water 70% mud
 120.00 ft of mud cut water trace of oil 75%water 25%mud
 200.00 ft of slight mud cut water trace of oil
 0.00 ft of 90% water 10% mud
 1242.00 ft of water with oil spots 100% water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 29000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Bottom of bucket in 3 1/2 mins.
 Initial Shut-in:
 No return
 Final Flow:
 Bottom of bucket in 4 1/2 mins.
 Final Shut-in:
 No return

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.30 lb/cf
 Vis. 49.00 S/L
 W.L. 8.80 in3
 F.C. 0.00 in
 Mud Drop Y 10.0 ft
 Amt. of fill 6.00 ft
 Btm. H. Temp. 129.00 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. Mike Bryen
 Contr. Mallard
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Thon 1--35

LOCATION : 35-16s-31w Scott co. KS

TICKET No. 11084 D.S.T. No. 6 DATE 7-22-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 19

TOTAL TOOL 47

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 78

D.C. ABOVE TOOLS.Stands4 Single Total 247

D.P. ABOVE TOOLS.Stands63 Single 1 Total 3902

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4227

TOTAL DEPTH 4200

TOTAL DRILL PIPE ABOVE K.B. 27

REMARKS:

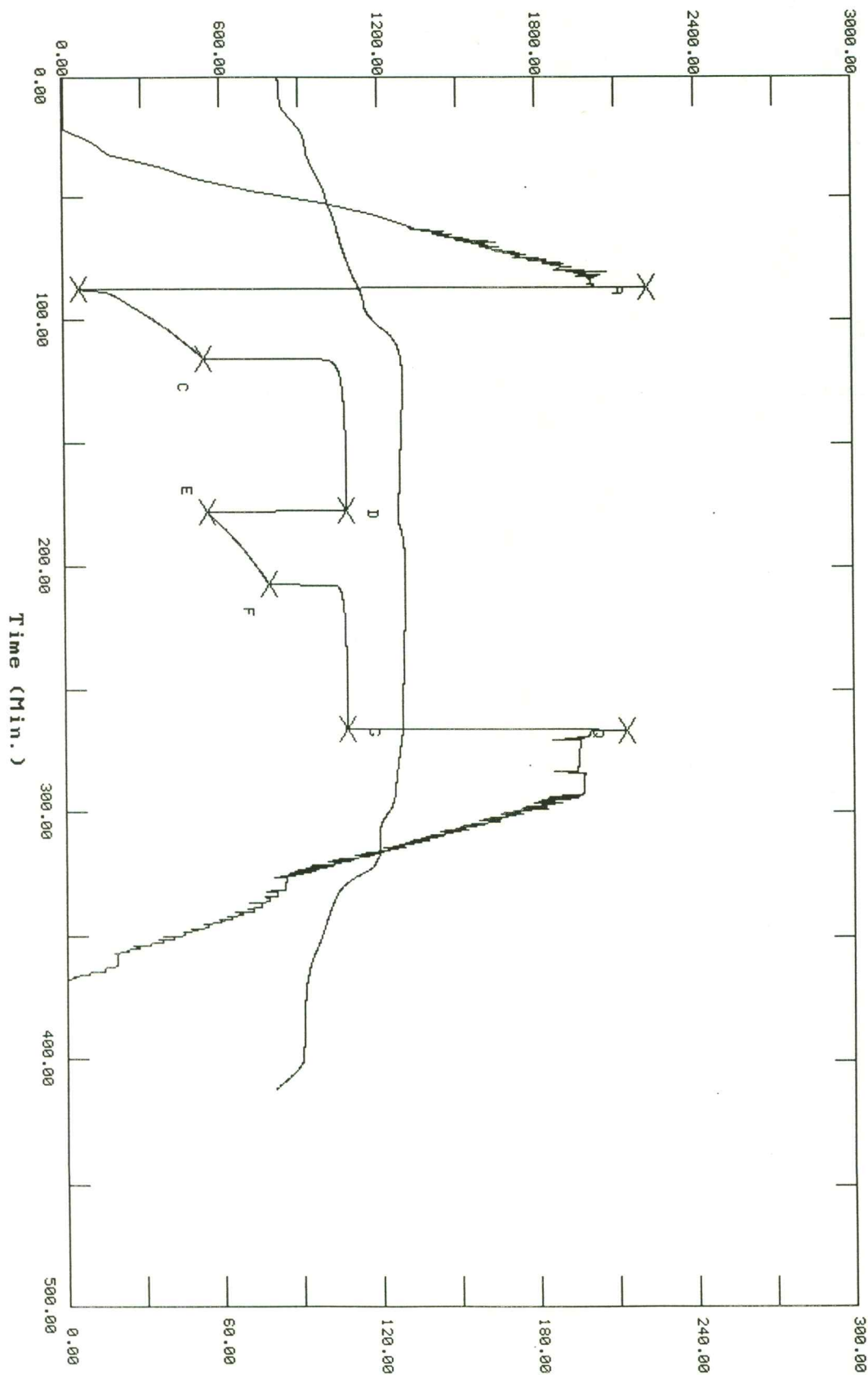
P.O. SUB	
C.O. SUB 1'	4122
S.I. TOOL 5'	4128
HMV 5'	4133
JARS 5'	4138
SAFETY JOINT 2'	4140
PACKER top	4145
PACKER bottom	4150
DEPTH 4150	
STUBB 1'	4151
ANCHOR alpine recorder	4151
11' perf	4162
1' c.o.	4163
31' drillpipe	4194
1' c.o.	4195
T.C.	
DEPTH	
ak-1 recorder	4197
BULLNOSE 5'bullplug	4200
T.D.	4200

TEST HISTORY

11084 DST #6 Thon 1-35 CrossBar Pet.

Flag Points
t(Min.) P(PSig)

A: 0.00 2222.89
B: 0.00 56.72
C: 28.75 533.25
D: 61.75 1075.95
E: 0.00 542.36
F: 29.50 777.30
G: 58.75 1075.15
Q: 0.00 2137.63

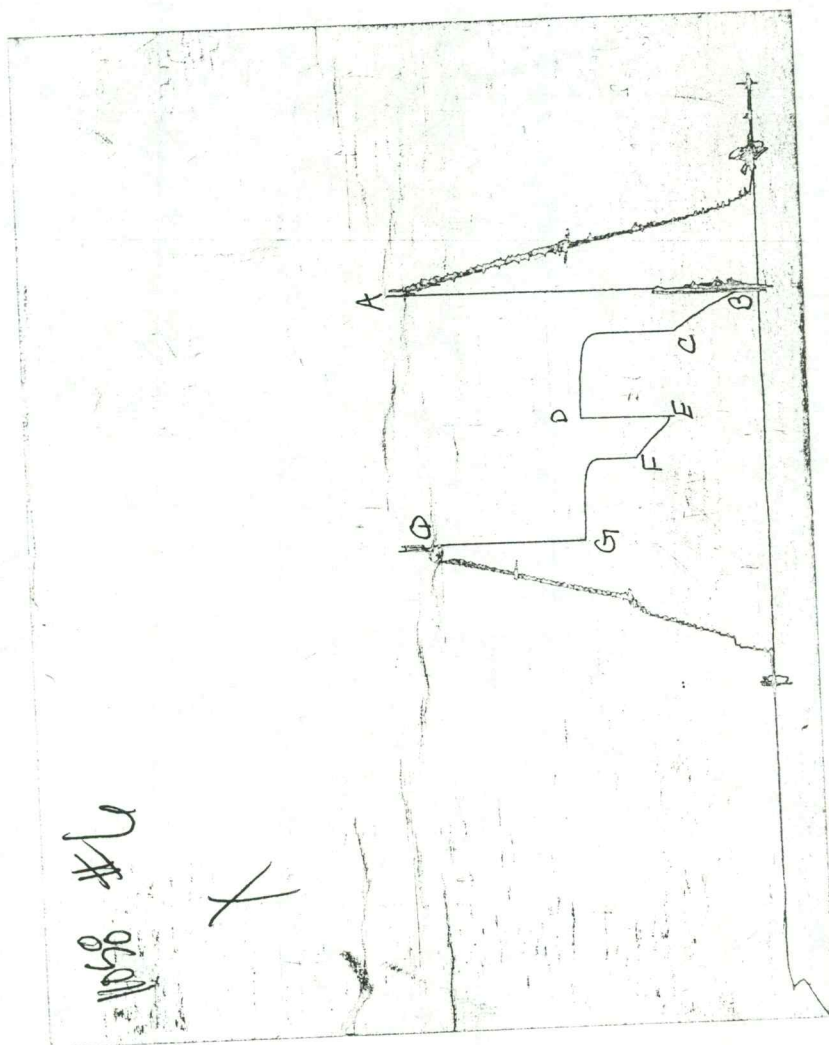


Pressure (PSig)

Temperature (DEG F)

Time (Min.)

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 11084

Well Name & No.	<u>Thorn 1-35</u>	Test No.	<u>6</u>	Date	<u>7-22-98</u>
Company	<u>Cross Bar Pet.</u>	Zone Tested	<u>J-K</u>		
Address	<u>7570 W 21st Bldg 1014 Swite B Wichita KS</u>	Elevation	<u>2855</u>	KB	<u>2850</u> GL
Co. Rep / Geo.	<u>Mike Boyen</u>	Cont.	<u>Mallard J. H.</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>35</u>	Twp.	<u>16</u>	Rge.	<u>31</u> Co. <u>Scott</u> State <u>KS</u>
No. of Copies	<u>Norm</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>4150</u>	<u>4200</u>	Initial Str Wt./Lbs.	<u>6000</u>	Unseated Str Wt./Lbs.	<u>66,000</u>
Anchor Length	<u>50</u>		Wt. Set Lbs.	<u>24,000</u>	Wt. Pulled Loose/Lbs.	<u>80,000</u>
Top Packer Depth	<u>4145</u>		Tool Weight	<u>4,000</u>		
Bottom Packer Depth	<u>4150</u>		Hole Size — 7 7/8"	☒	Rubber Size — 6 3/4"	☒
Total Depth	<u>4200</u>		Wt. Pipe Run	<u> </u>	Drill Collar Run	<u>247'</u>
Mud Wt. <u>9.3</u>	LCM <u> </u>	Vis. <u>45</u>	Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>3933'</u>

Blow Description B.O.B in 3 1/2 min

FSI! Bleed off blow - No return.

FF! B.O.B in 4 1/2 min.

FSI! Bleed off blow - No return.

Recovery — Total Feet	<u>1627'</u>	GIP	<u> </u>	Ft. in DC	<u>247'</u>	Ft. in DP	<u>1380'</u>
Rec. <u>65'</u>	Feet Of	<u>Watery Mud Trace Oil</u>	%gas	<u>Trace</u>	%oil	<u>30%</u>	<u>70%</u>
Rec. <u>120'</u>	Feet Of	<u>Mud Cut Water</u>	%gas	<u>Trace</u>	%oil	<u>75%</u>	<u>25%</u>
Rec. <u>200'</u>	Feet Of	<u>Silty Mud Cut Water</u>	%gas	<u>Trace</u>	%oil	<u>90%</u>	<u>10%</u>
Rec. <u>1242'</u>	Feet Of	<u>Water</u>	%gas	<u>Spots</u>	%oil	<u>100%</u>	<u> </u>
Rec. <u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>	<u> </u>

BHT 129° °F Gravity °API D@ °F Corrected Gravity °API

RW .21 @ 80 °F Chlorides 29,000 ppm Recovery Chlorides 1200 ppm System

(A) Initial Hydrostatic Mud	<u>2222</u>	<u>2076</u>	PSI	Recorder No.	<u>2347</u>	T-Started	<u>18:30 P.M.</u>
(B) First Initial Flow Pressure	<u>56</u>	<u>111</u>	PSI	(depth)	<u>4151'</u>	T-Open	<u>20:00 P.M.</u>
(C) First Final Flow Pressure	<u>533</u>	<u>489</u>	PSI	Recorder No.	<u>11058</u>	T-Pulled	<u>23:00 P.M.</u>
(D) Initial Shut-in Pressure	<u>1075</u>	<u>1064</u>	PSI	(depth)	<u>4197'</u>	T-Out	<u>01:45 A.M.</u>
(E) Second Initial Flow Pressure	<u>542</u>	<u>534</u>	PSI	Recorder No.	<u> </u>		
(F) Second Final Flow Pressure	<u>777</u>	<u>737</u>	PSI	(depth)	<u> </u>		
(G) Final Shut-in Pressure	<u>1075</u>	<u>1064</u>	PSI	Initial Opening	<u>30</u>	Test	<u>X</u> <u>7.00</u>
(H) Final Hydrostatic Mud	<u>2137</u>	<u>2065</u>	PSI	Initial Shut-in	<u>60</u>	Jars	<u>X</u> <u>200</u>

ALP:we AK-1

Final Flow 30 Safety Joint X 50
Final Shut-in 60 Straddle

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Approved By

Michael R. Boyen

Circ. Sub X N/K

Sampler

Extra Packer

Elect. Rec. X 150

Other