

15-051-25018

TRILOBITE TESTING L.L.C.

16-14s-17w

OPERATOR : Hertel Oil Co DATE 1-8-00  
 WELL NAME: Billinger #2 KB 1997.00 ft TICKET NO: 12683 DST #1  
 LOCATION : 16-14s-17w Ellis co KS GR 1992.00 ft FORMATION: Toronto/LKC-A-D  
 INTERVAL : 3256.00 To 3326.00 ft TD 3326.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13754	13754	3246			PF Fr. 1140 to 1210 hr
SI 30 Range(Psi )	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 1210 to 1240 hr
SF 45 Clock(hrs)	12	12	Elect			SF Fr. 1240 to 1325 hr
FS 60 Depth(ft )	3323.0	3323.0	3268.0	0.0	0.0	FS Fr. 1325 to 1425 hr

	Field	1	2	3	4	
A. Init Hydro	1656.0	1638.0	1615.0	0.0	0.0	T STARTED 0924 hr
B. First Flow	68.0	65.0	28.0	0.0	0.0	T ON BOTM 1138 hr
B1. Final Flow	88.0	86.0	65.0	0.0	0.0	T OPEN 1140 hr
C. In Shut-in	610.0	599.0	597.0	0.0	0.0	T PULLED 1425 hr
D. Init Flow	98.0	103.0	71.0	0.0	0.0	T OUT 1645 hr
E. Final Flow	127.0	126.0	101.0	0.0	0.0	
F. Fl Shut-in	620.0	608.0	597.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1626.0	1613.0	1585.0	0.0	0.0	Tool Wt. 1000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 65000.00 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 3.80 in
						D.C. Length 521.00 ft
						D.P. Length 2745.00 ft

RECOVERY

Tot Fluid 140.00 ft of 140.00 ft in DC and 0.00 ft in DP  
 140.00 ft of Drilling mud  
 0.00 ft of 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:  
Weak-building to 2 1/4".

Final Flow:  
Weak-building to 1/2".

SAMPLES:  
SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	50.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop N	

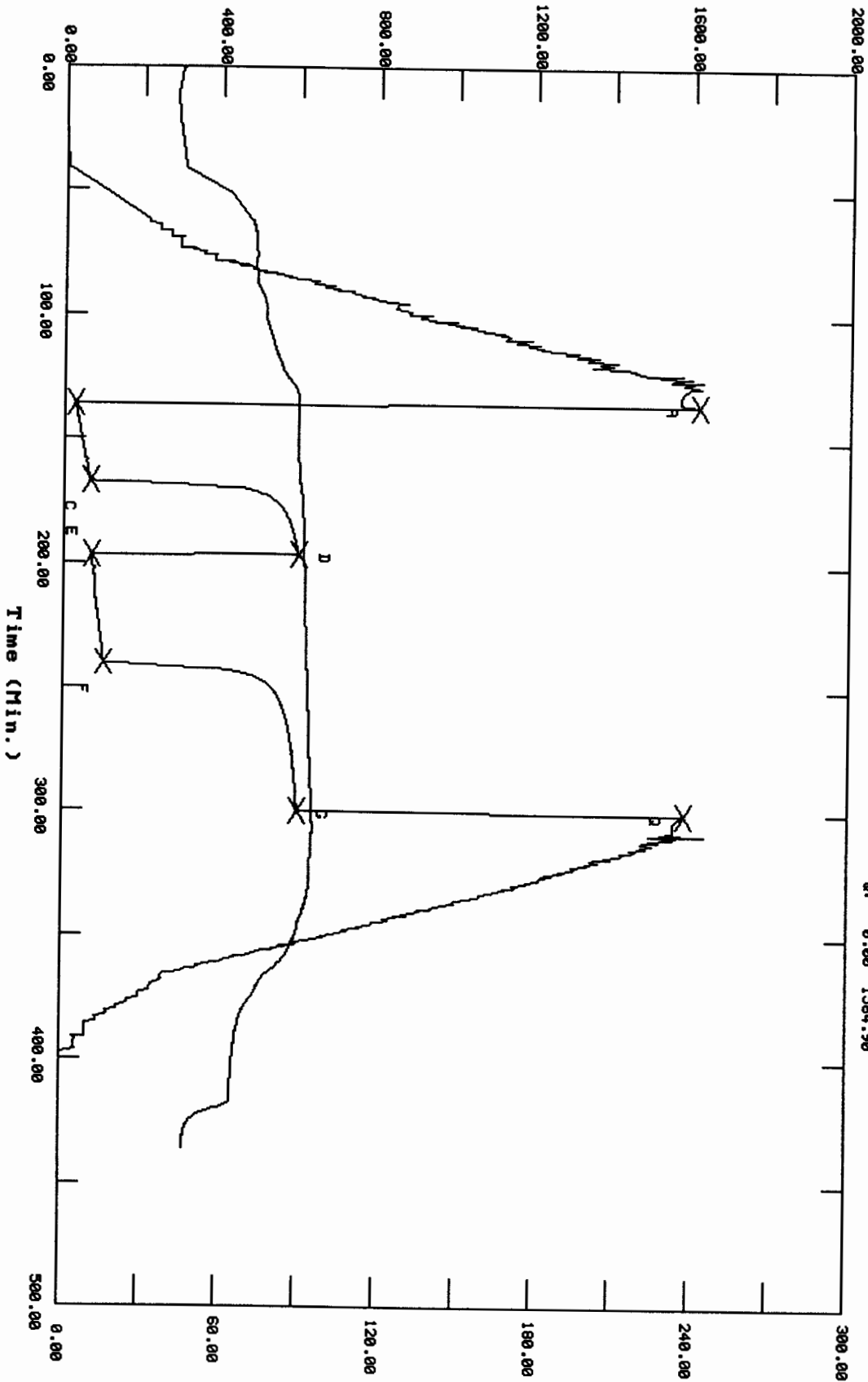
Amt. of fill	0.00 ft
Btm. H. Temp.	95.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Dan Bangle
Co. Rep.	Randy Kilian
Contr.	Murfin
Rig #	8
Unit #	
Pump T.	

Test Successful: Y



# TEST HISTORY

Tk# 12683 DST# 1 Billinger #2 Hertel Oil Co.

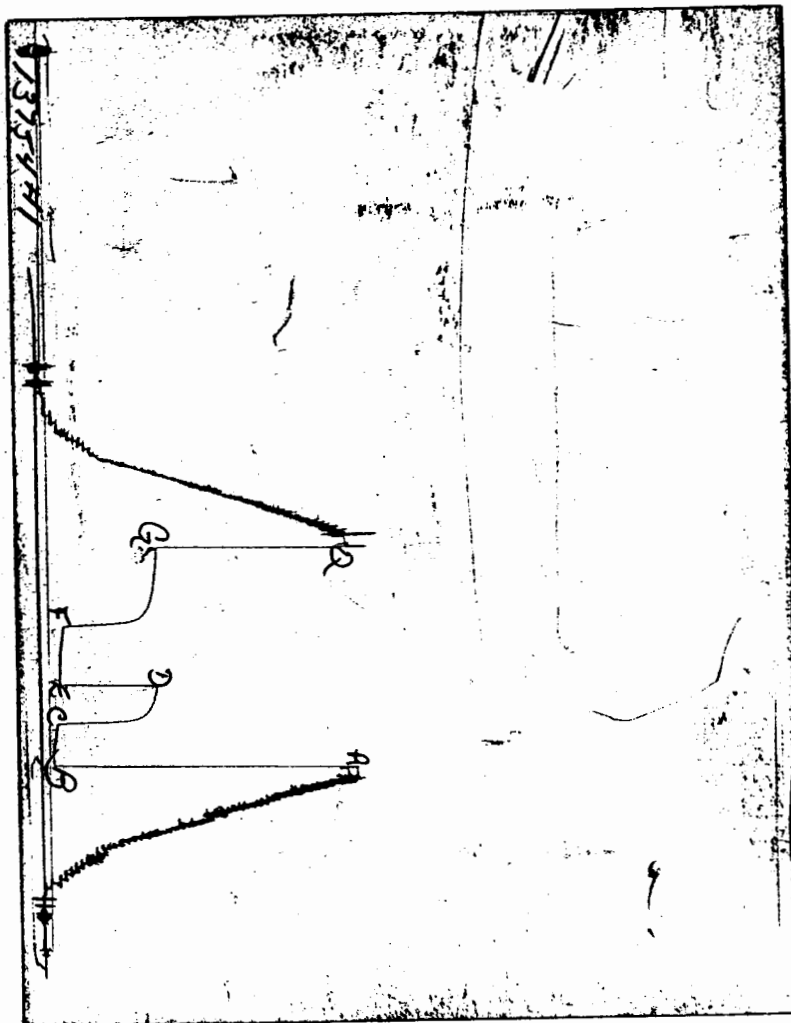


Flag Points

Time (Min.)	Pressure (PSig)
A	0.00 1614.90
B	0.00 28.28
C	31.00 65.11
D	29.50 597.30
E	0.00 70.54
F	43.50 101.48
G	59.50 597.24
H	0.00 1584.90

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

N<sup>o</sup> 12683

Well Name & No. <u>Billinger #2</u>	Test No. <u>1</u>	Date <u>1-8-00</u>
Company <u>Hertel Oil Co.</u>	Zone Tested <u>Toronto - KC-AD</u>	
Address <u>204 E. 12<sup>th</sup> Hays, Ks 67601</u>	Elevation <u>1997</u>	KB <u>1992</u> GL
Co. Rep / Geo. <u>Randy Kilian</u>	Cont. <u>Murfin #8</u>	Est. Ft. of Pay ___ Por. ___ %
Location: Sec. <u>16</u>	Twp. <u>14</u>	Rge. <u>17</u> Co. <u>Ellis</u> State <u>Ks</u>
No. of Copies ___	Distribution Sheet (Y, N) ___	Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested <u>3256 - 3326</u>	Initial Str Wt/Lbs. <u>69000</u>	Unseated Str Wt/Lbs. <u>69000</u>
Anchor Length <u>70</u>	Wt. Set Lbs. <u>2000</u>	Wt. Pulled Loose/Lbs. <u>65000</u>
Top Packer Depth <u>3251</u>	Tool Weight <u>1000</u>	
Bottom Packer Depth <u>3256</u>	Hole Size — 7 7/8" ___	Rubber Size — 6 3/4" ___
Total Depth <u>3326</u>	Wt. Pipe Run ___	Drill Collar Run <u>521</u>
Mud Wt. <u>9.2</u> LCM <u>1/2<sup>th</sup></u> Vis. <u>50</u> WL <u>9.6</u>	Drill Pipe Size <u>4.5 XH</u>	Ft. Run <u>8745</u>
Blow Description <u>I.F. Weak-building to 2 1/4"</u>		
<u>E.F. Weak-building to 1/2"</u>		

Recovery — Total Feet <u>140</u>	GIP ___	Ft. in DC <u>140</u>	Ft. in DP ___
Rec. <u>140</u>	Feet Of <u>Thin Mud</u>	%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 <u>95</u>	°F Gravity ___	°API D@ ___	°F Corrected Gravity ___ °API ___
RW ___ @ ___	°F Chlorides ___	ppm Recovery ___	Chlorides <u>8,000</u> ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1656</u>	<u>1615</u>	PSI Recorder No. <u>3246</u>	T-On Location <u>08:30</u>	
(B) First Initial Flow Pressure	<u>68</u>	<u>38</u>	PSI (depth) <u>3268</u>	T-Started <u>09:24</u>	
(C) First Final Flow Pressure	<u>88</u>	<u>65</u>	PSI Recorder No. <u>13754</u>	T-Open <u>11:40</u>	
(D) Initial Shut-in Pressure	<u>610</u>	<u>597</u>	PSI (depth) <u>3323</u>	T-Pulled <u>14:25</u>	
(E) Second Initial Flow Pressure	<u>98</u>	<u>71</u>	PSI Recorder No. ___	T-Out <u>16:45</u>	
(F) Second Final Flow Pressure	<u>127</u>	<u>101</u>	PSI (depth) ___	T-Off Location <u>17:00</u>	
(G) Final Shut-in Pressure	<u>620</u>	<u>597</u>	PSI Initial Opening <u>30</u>	Test <u>1000</u>	
(Q) Final Hydrostatic Mud	<u>1626</u>	<u>1585</u>	PSI Initial Shut-in <u>30</u>	Jars ___	
			Final Flow <u>45</u>	Safety Joint ___	
			Final Shut-in <u>60</u>	Straddle ___	

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Approved By \_\_\_\_\_

Our Representative Dan Bangle

Extra Packer \_\_\_  
Elec. Rec. X 150  
Mileage \_\_\_  
Other \_\_\_  
TOTAL PRICE \$ 750