

15-171-20535

13-18s-32w

**WELL NAME:** Riney Heirs #1  
**COMPANY:** Wabash Energy Corp.  
**LOCATION:** 13-18s-32w  
Scott County, Kansas  
**DATE:** 7/27/98

TRILOBITE TESTING L.L.C.

OPERATOR : Wabash Energy Corportion  
 WELL NAME: Riney Heirs #1  
 LOCATION : 13-18S-32W Scott co. KS  
 INTERVAL : 3962.00 To 3985.00 ft

DATE 7-20-98  
 KB 2972.00 ft TICKET NO: 11116 DST #1  
 GR 2964.00 ft FORMATION: Lans/KC  
 TD 3985.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	3024			PF Fr. 1215 to 1245 hr
SI 30 Range(Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1245 to 1315 hr
SF 30 Clock(hrs)	12 HR	12	ALP			SF Fr. 1315 to 1345 hr
FS 30 Depth(ft )	3980.0	3980.0	3965.0	0.0	0.0	FS Fr. 1345 to 1415 hr

	Field	1	2	3	4	
A. Init Hydro	1922.0	1961.0	1898.0	0.0	0.0	T STARTED 1030 hr
B. First Flow	10.0	15.0	13.0	0.0	0.0	T ON BOTM 1213 hr
B1. Final Flow	10.0	15.0	16.0	0.0	0.0	T OPEN 1215 hr
C. In Shut-in	649.0	681.0	705.0	0.0	0.0	T PULLED 1415 hr
D. Init Flow	10.0	47.0	16.0	0.0	0.0	T OUT 1645 hr
E. Final Flow	10.0	47.0	17.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	726.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1832.0	1840.0	1865.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 52000.00 lbs
						Initial Str Wt 45000.00 lbs
						Unseated Str Wt 45000.00 lbs
						Bot Choke 0.75 in
						Hole Size 8.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 3919.00 ft

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP  
 5.00 ft of Heavy oil cut mud  
 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 blow died in 3 mins.  
 Final Flow:  
 No return blow

SAMPLES:  
 SENT TO:

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.00 lb/cf  
 Vis. 45.00 S/L  
 W.L. 10.40 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 Rod Steinbrink  
 Co. Rep. Larry Whitmer  
 Contr. Discovery  
 Rig # 2  
 Unit #  
 Pump T.

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Riney Heirs #1

LOCATION : 13-18S-32W Scott co. KS

TICKET No. 11116 D.S.T. No. 1 DATE 7-20-98

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

INTERVAL TOOL ..... 23

BOTTOM PACKERS AND ANCHOR .....

TOTAL TOOL ..... 43

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY ..... 43

D.C. ABOVE TOOLS.Stands Single 1 Total 30

D.P. ABOVE TOOLS.Stands70 Single 1 Total 3919

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3992

TOTAL DEPTH ..... 3985

TOTAL DRILL PIPE ABOVE K.B. .... 7

REMARKS:

P.O. SUB 1' Above 120'	3822
C.O. SUB 1'	3942
S.I. TOOL 5'	3948
HMV 5'	3953
JARS n/a	
SAFETY JOINT n/a	
PACKER 4'	3957
PACKER 5'	3962
DEPTH STUBB 1'	3963
ANCHOR	
ALP Rec. @	3965
17' Perf.	3980
T.C. DEPTH	
AK-1 Rec. @	3980
BULLNOSE 5'	
T.D.	3985

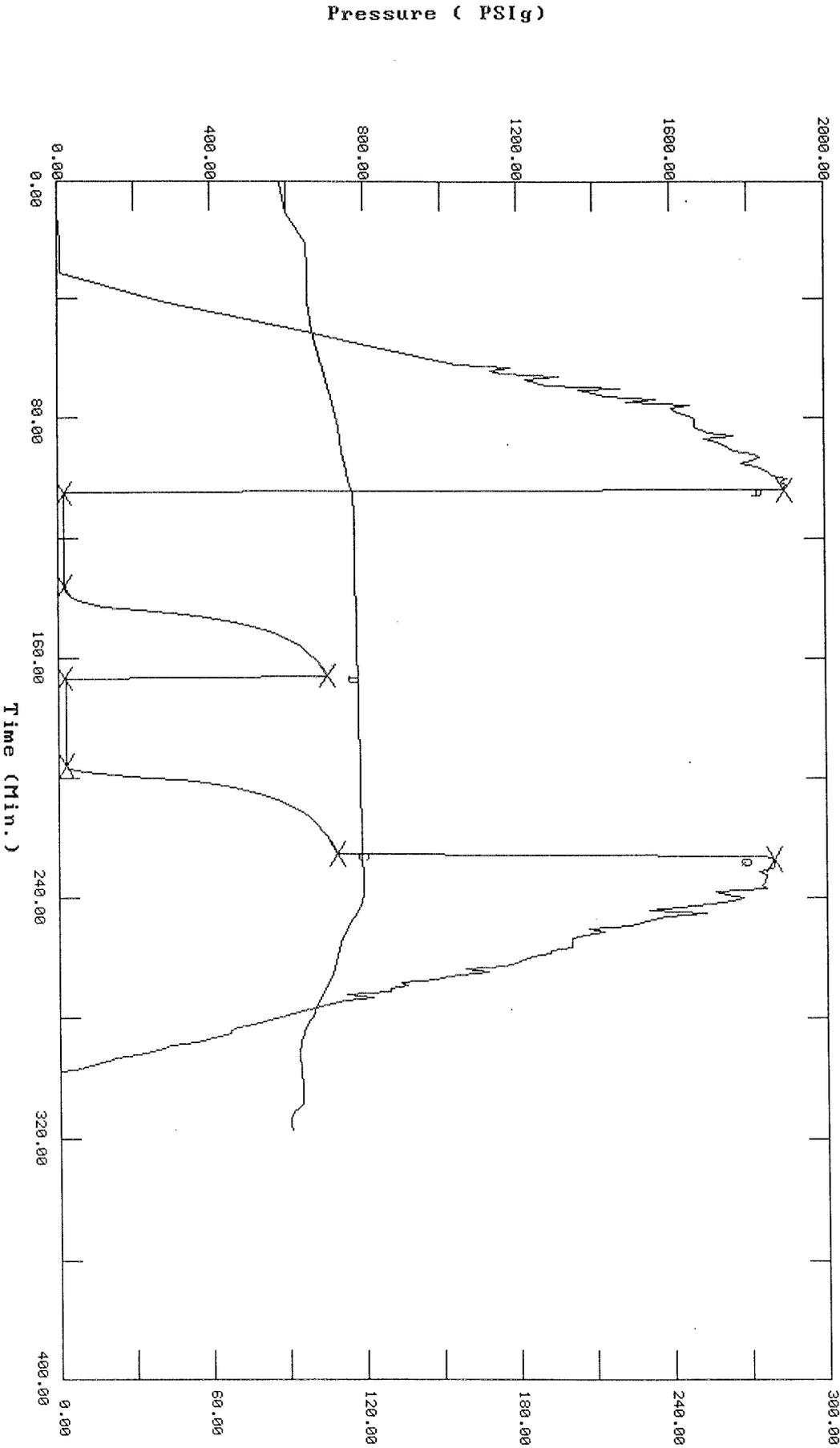
11116 DST #1 Riney Heirs #1 Wabash Energy Corp.

# TEST HISTORY

Flag Points

t (Min.) P (PSig)

R:	0.00	1898.57
B:	0.00	13.42
C:	31.00	16.03
D:	30.00	705.08
E:	0.00	16.19
F:	29.00	17.71
G:	29.00	726.35
Q:	0.00	1865.70

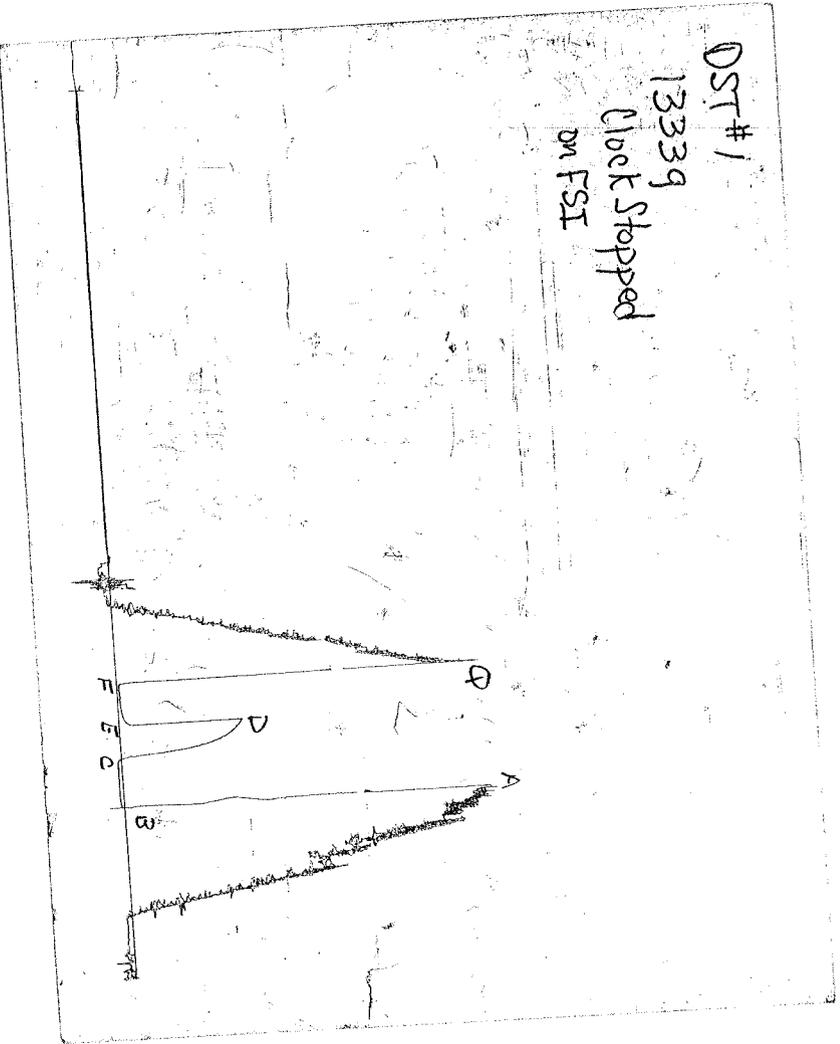


Temperature (DEG F)

Pressure (PSig)

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 11116

Well Name & No. <u>Riney Heirs #1</u>	Test No. <u>1</u>	Date <u>7-20-98</u>
Company <u>Wabash Energy Corporation</u>	Zone Tested <u>Lans/KC. 'B'</u>	
Address <u>P.O. Box 595 Lawrenceville IL. 62439</u>	Elevation <u>2972</u>	KB <u>2964</u> GL
Co. Rep / Geo. <u>Larry Whitmer</u>	Cont. <u>Discovery #2</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>13</u>	Twp. <u>18<sup>S</sup></u>	Rge. <u>32<sup>W</sup></u> Co. <u>Scott</u> State <u>KS.</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) _____

Interval Tested <u>3962 - 3985</u>	Initial Str Wt./Lbs. <u>45,000</u>	Unseated Str Wt./Lbs. <u>45,000</u>
Anchor Length <u>23'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>52,000</u>
Top Packer Depth <u>3957</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>3962</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3985</u>	Wt. Pipe Run _____	Drill Collar Run <u>H-90) 30'</u>
Mud Wt. <u>9.0</u> LCM _____ Vis. <u>45</u> WL <u>10.4</u>	Drill Pipe Size <u>4 1/2" XH</u>	Ft. Run <u>3919' (70.1)</u>
Blow Description <u>IF: Weak blow died in 3 mins.</u>		

FF: No return blow.

Recovery — Total Feet <u>5</u>	GIP <u>—</u>	Ft. in DC <u>5'</u>	Ft. in DP <u>—</u>
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. <u>5'</u> Feet Of <u>HOCM</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 _____

BHT 118° °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1,000 ppm System

(A) Initial Hydrostatic Mud <u>1922</u>   <u>1898</u> PSI	Recorder No. <u>3024</u>	T-Started <u>1030</u>
(B) First Initial Flow Pressure <u>10</u>   <u>13</u> PSI	(depth) <u>3985</u>	T-Open <u>1215</u>
(C) First Final Flow Pressure <u>10</u>   <u>16</u> PSI	Recorder No. <u>13339</u>	T-Pulled <u>1415</u>
(D) Initial Shut-in Pressure <u>649</u>   <u>705</u> PSI	(depth) <u>3980</u>	T-Out <u>1645</u>
(E) Second Initial Flow Pressure <u>10</u>   <u>16</u> PSI	Recorder No. <u>—</u>	
(F) Second Final Flow Pressure <u>10</u>   <u>17</u> PSI	(depth) <u>—</u>	
(G) Final Shut-in Pressure <u>—</u>   <u>726</u> PSI	Initial Opening <u>30</u>	Test <u>600</u>
(H) Final Hydrostatic Mud <u>1832</u>   <u>1865</u> PSI	Initial Shut-in <u>30</u>	Jars _____

AK-1 Mech. Alp Elec.

Final Flow <u>30</u>	Safety Joint _____
Final Shut-in <u>30</u>	Straddle _____
<u>on loc. 0900</u>	Circ. Sub <u>X</u> <u>N/C</u>
<u>off loc</u>	Sampler _____
	Extra Packer _____
	Elect. Rec. <u>X</u> <u>150</u>
	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 

TRILOBITE TESTING L.L.C.

OPERATOR : Wabash Energy Corp. DATE 7-22-98  
 WELL NAME: Riney Heirs #1 KB 2972.00 ft TICKET NO: 11117 DST #2  
 LOCATION : 13-18S-32W Scott co. KS GR 2964.00 ft FORMATION: Cherokee  
 INTERVAL : 4525.00 To 4565.00 ft TD 4565.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	3024			PF Fr. 1702 to 1732 hr
SI 60 Range(Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1732 to 1832 hr
SF 30 Clock(hrs)	12 HR	12	ALP			SF Fr. 1832 to 1902 hr
FS 60 Depth(ft )	4560.0	4560.0	4530.0	0.0	0.0	FS Fr. 1902 to 2002 hr

	Field	1	2	3	4	
A. Init Hydro	2223.0	0.0	2233.0	0.0	0.0	T STARTED 1540 hr
B. First Flow	0.0	0.0	17.0	0.0	0.0	T ON BOTM 1700 hr
B1. Final Flow	0.0	0.0	19.0	0.0	0.0	T OPEN 1702 hr
C. In Shut-in	0.0	0.0	800.0	0.0	0.0	T PULLED 2002 hr
D. Init Flow	0.0	0.0	20.0	0.0	0.0	T OUT 2130 hr
E. Final Flow	0.0	0.0	21.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	525.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2123.0	0.0	2212.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 50000.00 lbs
						Bot Choke 0.75 in
						Hole Size 8.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 4504.00 ft

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP  
 5.00 ft of Very heave oil cut mud with free oil at top  
 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 5 mins.  
 Final Flow:  
 No return blow

SAMPLES:  
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	48.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	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	Rod Steinbrink
Co. Rep.	Larry Whitmer
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

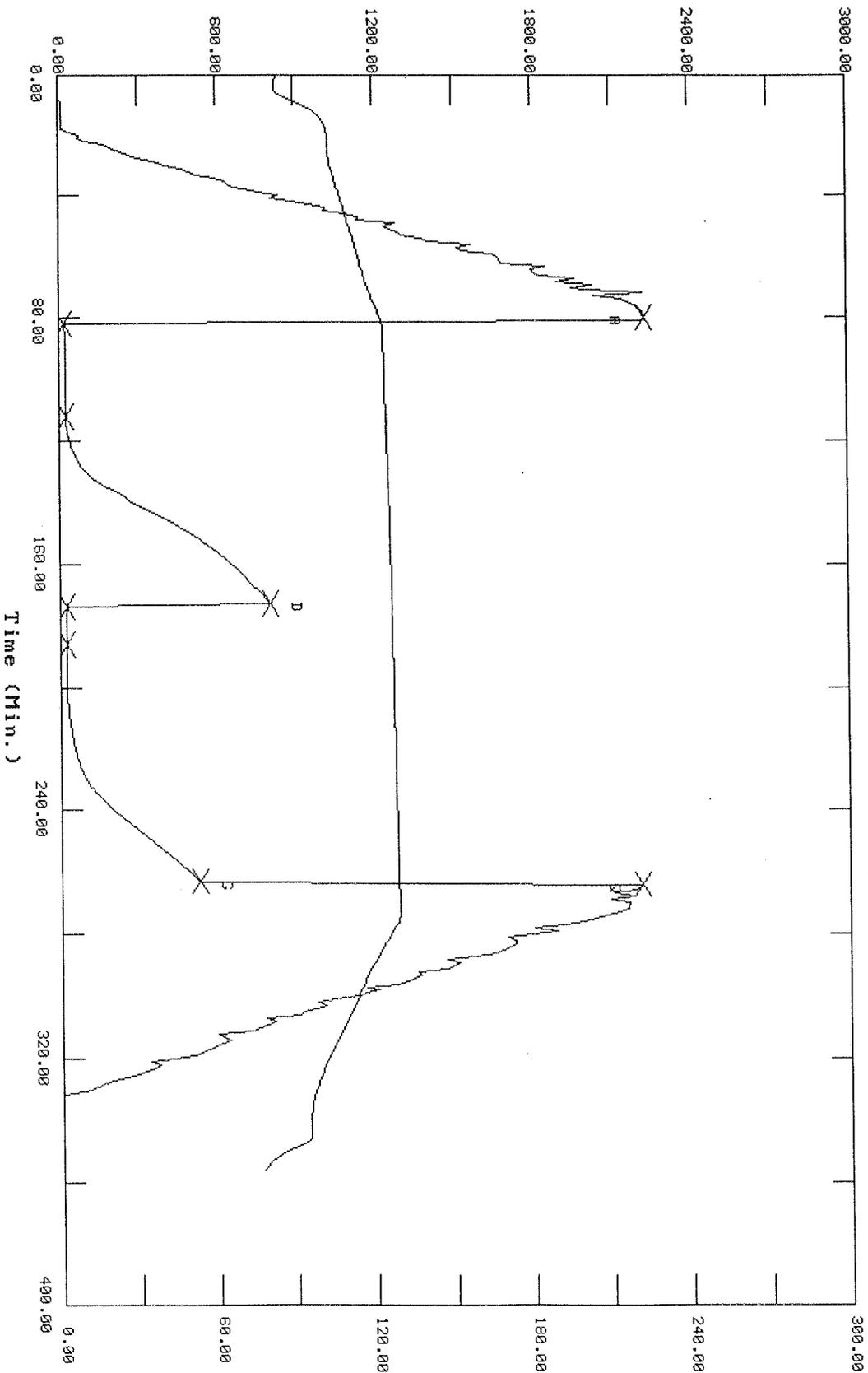
WELL NAME: Riney Heirs #1	P.O. SUB 1' Above 120'	4485
	C.O. SUB 1'	4505
LOCATION : 13-18S-32W Scott co. KS	S.I. TOOL 5'	4511
TICKET No. 11117 D.S.T. No. 2 DATE 7-22-98		
TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 20	HMV 5'	4516
INTERVAL TOOL ..... 40		
BOTTOM PACKERS AND ANCHOR .....	JARS n/a	
TOTAL TOOL ..... 60		
DRILL COLLAR ANCHOR IN INTERVAL .....		
D.C. ANCHOR STND.Stands Single Total	SAFETY JOINT n/a	
D.P. ANCHOR STND.Stands Single Total	PACKER 4'	4520
TOTAL ASSEMBLY ..... 60	PACKER 5'	4525
D.C. ABOVE TOOLS.Stands Single 1 Total 30	DEPTH	
D.P. ABOVE TOOLS.Stands 73 Single Total 4504	STUBB 1'	4526
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4594	ANCHOR	
	ALP Rec. @	4530
	34' Perf	4560
TOTAL DEPTH ..... 4565		
TOTAL DRILL PIPE ABOVE K.B. .... 29		
REMARKS:		
	T.C.	
	DEPTH	
	AK-1 Rec. @	4560
	BULLNOSE 5'	
	T.D.	4565

11117 DST #2 Riney Heirs #1 Wabash Energy Corp.

# TEST HISTORY

Flag Points  
 t (Min.) P (PSig)

A:	0.00	2233.06
B:	0.00	17.87
C:	30.00	19.81
D:	61.00	800.47
E:	0.00	20.49
F:	12.00	21.13
G:	77.00	525.98
H:	0.00	2212.71

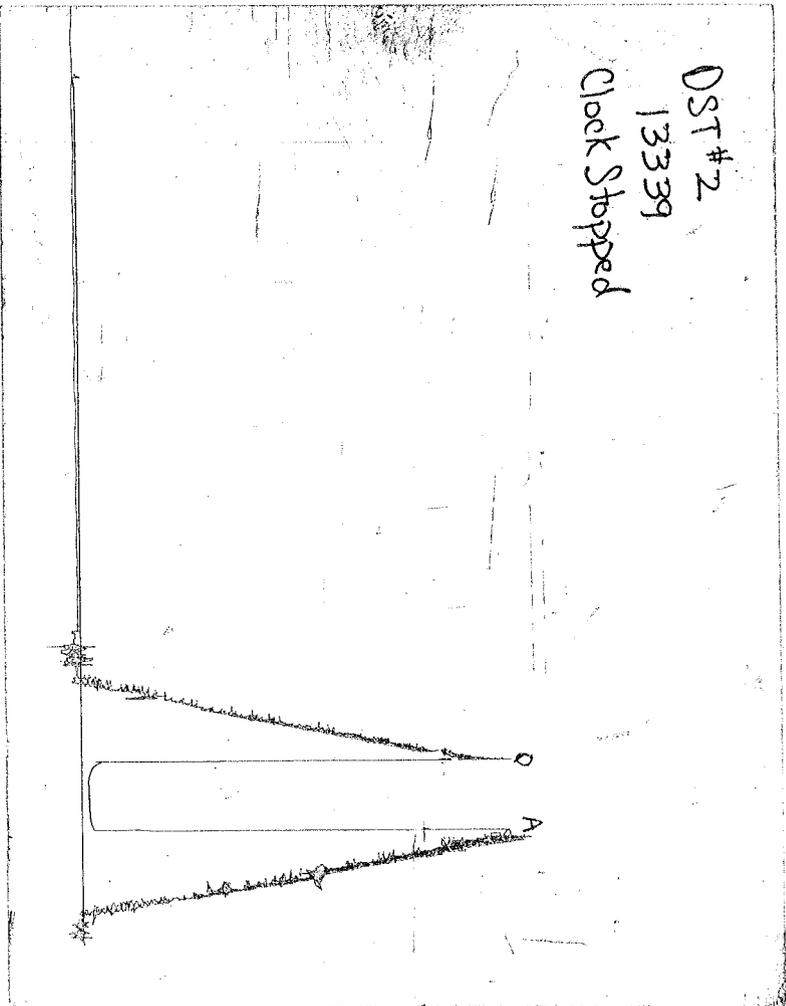


Pressure ( PSig )

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 11117

Well Name & No. <u>Riney Heirs #1</u>	Test No. <u>2</u>	Date <u>7-22-98</u>
Company <u>Wabash Energy Corporation</u>	Zone Tested <u>Cherokee</u>	
Address <u>P.O. Box 595 Lawrenceville IL 62439</u>	Elevation <u>2972</u>	KB <u>2964</u> GL
Co. Rep / Geo. <u>Larry Whitmer</u>	Cont. <u>Discovery #2</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>13</u> Twp. <u>18<sup>s</sup></u> Rge. <u>32<sup>w</sup></u>	Co. <u>Scott</u>	State <u>KS.</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) _____

Interval Tested <u>4525 - 4565</u>	Initial Str Wt./Lbs. <u>50,000</u>	Unseated Str Wt./Lbs. <u>50,000</u>
Anchor Length <u>40'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>60,000</u>
Top Packer Depth <u>4520</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>4525</u>	Hole Size — 7 7/8" _____	Rubber Size — 6 3/4" _____
Total Depth <u>4565</u>	Wt. Pipe Run _____	Drill Collar Run <u>H-90 30'</u>
Mud Wt. <u>9.3</u> LCM _____ Vis. <u>48</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2" XH</u>	Ft. Run <u>4504'(73)</u>
Blow Description <u>IF: Weak surface blow died in 5 mins.</u>		

FF: No return blow

Recovery — Total Feet <u>5'</u>	GIP <u>—</u>	Ft. in DC <u>5'</u>	Ft. in DP <u>—</u>
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. <u>5'</u> Feet Of <u>VHOCM</u>	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of <u>w/free oil @ top</u>	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____

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

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1,200 ppm System

(A) Initial Hydrostatic Mud <u>2223</u>   <u>2233</u> PSI	Recorder No. <u>3024</u>	T-Started <u>1540</u>
(B) First Initial Flow Pressure _____   <u>17</u> PSI	(depth) <u>4530</u>	T-Open <u>1702</u>
(C) First Final Flow Pressure _____   <u>19</u> PSI	Recorder No. <u>13339</u>	T-Pulled <u>2002</u>
(D) Initial Shut-in Pressure _____   <u>800</u> PSI	(depth) <u>4560</u>	T-Out <u>2130</u>
(E) Second Initial Flow Pressure _____   <u>20</u> PSI	Recorder No. <u>—</u>	
(F) Second Final Flow Pressure _____   <u>21</u> PSI	(depth) <u>—</u>	
(G) Final Shut-in Pressure _____   <u>525</u> PSI	Initial Opening <u>30</u>	Test <u>700</u>
(H) Final Hydrostatic Mud <u>2123</u>   <u>2212</u> PSI	Initial Shut-in <u>60</u>	Jars _____

AK-i Meech Alp Elec.

Final Flow 30 Safety Joint \_\_\_\_\_

Final Shut-in 60 Straddle \_\_\_\_\_

on loc. 1500 Circ. Sub X N/C

off loc. 2230 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 \_\_\_\_\_



TRILOBITE TESTING L.L.C.

OPERATOR : Wabash Energy Corp.  
 WELL NAME: Riney Heirs #1  
 LOCATION : 13-18S-32W Scott co. KS  
 INTERVAL : 4464.00 To 4482.00 ft

DATE 7-23-98  
 KB 2972.00 ft TICKET NO: 11118 DST #3  
 GR 2964.00 ft FORMATION: Upper Cherokee "A"  
 TD 4666.00 ft TEST TYPE: CONV STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30	Rec.		3024		13339	PF Fr. 1642 to 1712 hr
SI 45	Range(Psi )	0.0	4995.0	0.0	4025.0	IS Fr. 1712 to 1757 hr
SF 30	Clock(hrs)		ALP		12 HR	SF Fr. 1757 to 1827 hr
FS 45	Depth(ft )	0.0	4469.0	0.0	4661.0	FS Fr. 1827 to 1912 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2228.0	0.0	2553.0	T STARTED 1530 hr
B. First Flow	0.0	0.0	15.0	0.0	0.0	T ON BOTM 1640 hr
B1. Final Flow	0.0	0.0	26.0	0.0	0.0	T OPEN 1642 hr
C. In Shut-in	0.0	0.0	993.0	0.0	0.0	T PULLED 1912 hr
D. Init Flow	0.0	0.0	28.0	0.0	0.0	T OUT 2045 hr
E. Final Flow	0.0	0.0	33.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	779.0	0.0	0.0	
G. Final Hydro	0.0	0.0	2201.0	0.0	2201.0	TOOL DATA-----
Inside/Outside			I		S	Tool Wt. 2000.00 lbs
						Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 50000.00 lbs
						Bot Choke 0.75 in
						Hole Size 8.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 4444.00 ft

RECOVERY

Tot Fluid 40.00 ft of 30.00 ft in DC and 10.00 ft in DP  
 1.00 ft of Free Oil  
 39.00 ft of Very heavy oil cut mud 10%oil 90%mud  
 0.00 ft of  
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/ci
Vis.	46.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:  
 Weak surface blow died in 15 mins.  
 Final Flow:  
 No return blow

Amt. of fill	0.00 ft
Btm. H. Temp.	129.00 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	Rod Steinbrink
Co. Rep.	Larry Whitmer
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

SAMPLES:  
 SENT TO:

Test Successful: Y

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

WELL NAME: Riney Heirs #1

LOCATION : 13-18S-32W Scott co. KS

TICKET No. 11118 D.S.T. No. 3 DATE 7-23-98

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

INTERVAL TOOL ..... 16

BOTTOM PACKERS AND ANCHOR ..... 29

TOTAL TOOL ..... 65

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY ..... 220

D.C. ABOVE TOOLS.Stands Single 1 Total 30

D.P. ABOVE TOOLS.Stands72 Single Total 4444

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4694

TOTAL DEPTH ..... 4666

TOTAL DRILL PIPE ABOVE K.B. .... 28

REMARKS:

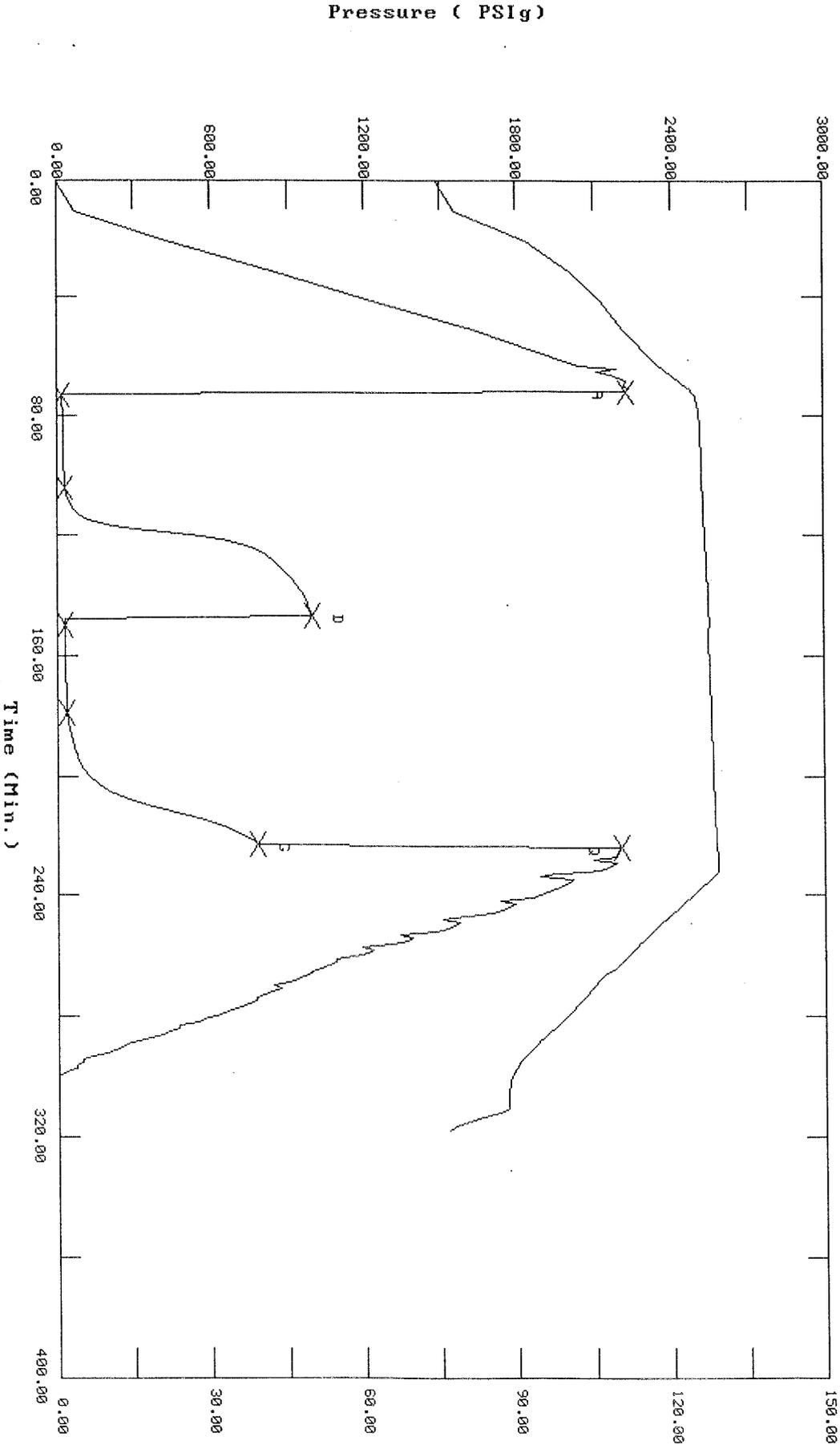
P.O. SUB 1' Above 120'	4326
C.O. SUB 1'	4446
S.I. TOOL 5'	4452
HMV 5'	4457
JARS n/a	
SAFETY JOINT n/a	
PACKER 4'	4461
PACKER 5'	4466
DEPTH STUBB 1'	4467
ANCHOR	
ALP Rec. @	4469
10' Perf.	4477
1' Blank Off Sub	4478
T.C. DEPTH	
PACKER 4'	4482
1' stubb	4483
21' Perf.	4504
1' c/o sub	4505
155' DP	4660
1' c/o sub	4461
AK-1 Rec. @	4461
BULLNOSE 5'	
T.D.	4466

11118 DST #3 Riney Heirs #1 Wabash Energy Corp.

# TEST HISTORY

Flag Points

t(Min.)	P( PSIG)
A: 0.00	2228.35
B: 0.00	15.71
C: 31.00	26.32
D: 43.00	993.29
E: 0.00	28.94
F: 29.00	33.01
G: 44.00	779.70
H: 0.00	2201.50

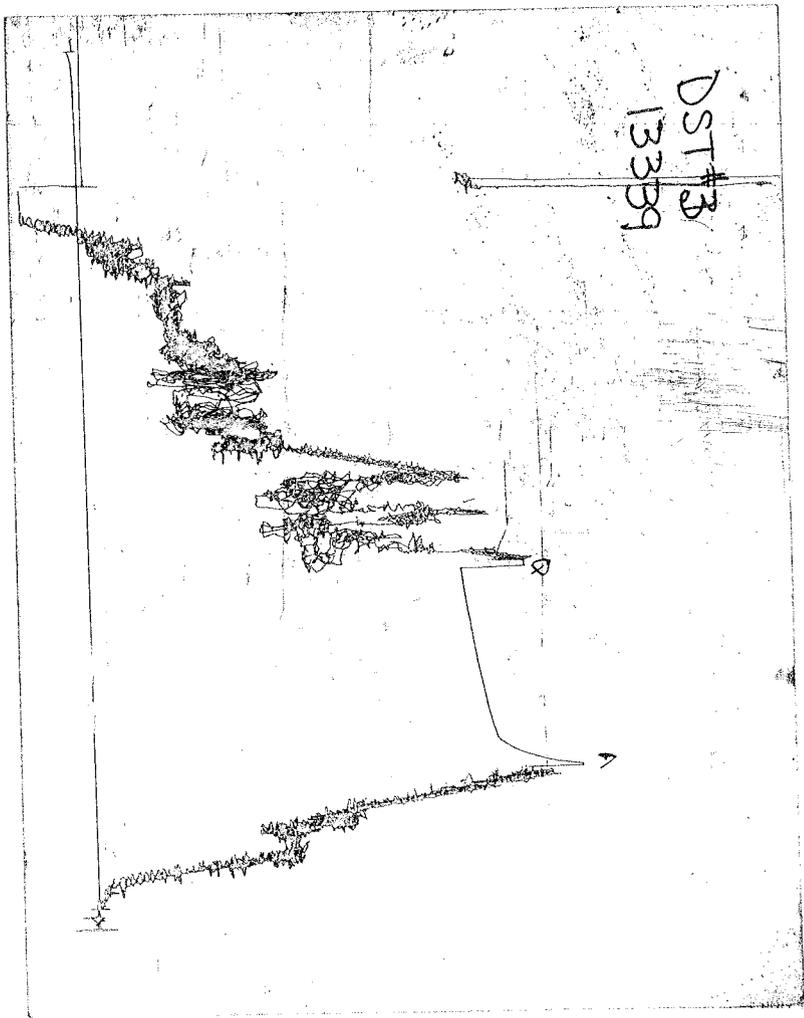


Pressure ( PSIG)

Time (Min.)

Temperature (46)

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 11118

Well Name & No. <u>Riney Heirs #1</u>	Test No. <u>3</u>	Date <u>7-23-98</u>
Company <u>Wabash Energy Corporation</u>	Zone Tested <u>Upper Cherokee 'A'</u>	
Address <u>P.O. Box 595 Lawrenceville IL 62439</u>	Elevation <u>2978</u> KB <u>2964</u> GL	
Co. Rep / Geo. <u>Larry Whitmer</u>	Cont. <u>Discovery #2</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>13</u>	Twp. <u>18<sup>S</sup></u>	Rge. <u>32<sup>W</sup></u> Co. <u>Scott</u> State <u>KS.</u>
No. of Copies _____	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) _____

Interval Tested <u>4466 - 4482</u>	Initial Str Wt./Lbs. <u>50,000</u>	Unseated Str Wt./Lbs. <u>50,000</u>
Anchor Length <u>16'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>65,000</u>
Top Packer Depth <u>4461 - 4466</u>	Tool Weight <u>2,200</u>	
Bottom Packer Depth <u>4482</u>	Hole Size — 7 7/8" _____	Rubber Size — 6 3/4" _____
Total Depth <u>(RTD) 4666</u>	Wt. Pipe Run _____	Drill Collar Run <u>H-90 30'</u>
Mud Wt. <u>9.4</u> LCM _____ Vis. <u>46</u> WL <u>9.6</u>	Drill Pipe Size <u>4 1/2" XH</u>	Ft. Run <u>4444'</u>
Blow Description <u>IF: Weak surface blow died in 15 mins.</u>		

FF: No return blow.

Recovery — Total Feet <u>40'</u>	GIP <u>—</u>	Ft. in DC <u>30'</u>	Ft. in DP <u>10'</u>
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. <u>1'</u> Feet Of <u>Free Oil</u>	%gas _____	%oil _____	%water _____ %mud _____
Rec. <u>39'</u> Feet Of <u>VHDCM</u>	%gas <u>10</u>	%oil <u>—</u>	%water <u>90</u> %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____

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

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud <u>2553</u>   <u>2228</u> PSI	Recorder No. <u>3024</u>	T-Started <u>1530</u>
(B) First Initial Flow Pressure _____   <u>15</u> PSI	(depth) <u>4469</u>	T-Open <u>1642</u>
(C) First Final Flow Pressure _____   <u>26</u> PSI	Recorder No. <u>13339</u>	T-Pulled <u>1912</u>
(D) Initial Shut-in Pressure _____   <u>99.3</u> PSI	(depth) <u>4661</u>	T-Out <u>2045</u>
(E) Second Initial Flow Pressure _____   <u>28</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure _____   <u>33</u> PSI	(depth) _____	
(G) Final Shut-in Pressure _____   <u>779</u> PSI	Initial Opening <u>30</u>	Test <u>700</u>
(H) Final Hydrostatic Mud <u>2273</u>   <u>2201</u> PSI	Initial Shut-in <u>45</u>	Jars _____

Straddle  
AK-1 Mech Alp. Elec.

Final Flow <u>30</u>	Safety Joint _____
Final Shut-in <u>45</u>	Straddle <u>X 250</u>
on loc. <u>1230</u>	Circ. Sub <u>X N/C</u>
off loc. <u>—</u>	Sampler _____
	Extra Packer <u>X 150</u>
	Elect. Rec. <u>X 150</u>
	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 \_\_\_\_\_

*[Signature]*

TRILOBITE TESTING L.L.C.

OPERATOR : Wabash Energy Corp.

DATE 7-23-98

WELL NAME: Riney Heirs #1

KB 2972.00 ft

TICKET NO: 11119 DST #4

LOCATION : 13-18S-32W Scott co. KS

GR 2964.00 ft

FORMATION: Lans/KC "I"

INTERVAL : 4164.00 To 4179.00 ft

TD 4666.00 ft

TEST TYPE: CONV STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.		3024		13339		PF Fr. 2227 to 2257 hr
SI 60 Range(Psi )	0.0	4995.0	0.0	4025.0	0.0	IS Fr. 2257 to 2357 hr
SF 60 Clock(hrs)		ALP		12 HR		SF Fr. 2357 to 0057 hr
FS 90 Depth(ft )	0.0	4166.0	0.0	4661.0	0.0	FS Fr. 0057 to 0227 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	2086.0	0.0	2183.0	0.0	T STARTED 2105 hr
B. First Flow	0.0	16.0	0.0	0.0	0.0	T ON BOTM 2225 hr
B1. Final Flow	0.0	45.0	0.0	0.0	0.0	T OPEN 2227 hr
C. In Shut-in	0.0	1014.0	0.0	0.0	0.0	T PULLED 0227 hr
D. Init Flow	0.0	46.0	0.0	0.0	0.0	T OUT 0430 hr
E. Final Flow	0.0	88.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	1004.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	2067.0	0.0	2033.0	0.0	Tool Wt. 2500.00 lbs
Inside/Outside		I		S		Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 54000.00 lbs
						Bot Choke 0.75 in
						Hole Size 8.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 4136.00 ft

RECOVERY

Tot Fluid 150.00 ft of 30.00 ft in DC and 120.00 ft in DP  
 150.00 ft of Sulfer Water  
 0.00 ft of  
 0.00 ft of RW .20 @ 65 deg =  
 SALINITY 40000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Weak surface blow built to 4"  
 Initial Shut-in:  
 No blow  
 Final Flow:  
 Surface return in 20 mins built to 4"  
 Final Shut-in:  
 No blow

SAMPLES:  
 SENT TO:

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.40 lb/cf  
 Vis. 46.00 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 3  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out N  
 Tool Chased N  
 Tester Rod Steinbrink  
 Co. Rep. Larry Whitmer  
 Contr. Discovery  
 Rig # 2  
 Unit #  
 Pump T.

Test Successful: Y

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

WELL NAME: Riney Heirs #1

LOCATION : 13-18S-32W Scott co. KS

TICKET No. 11119 D.S.T. No. 4 DATE 7-23-98

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

INTERVAL TOOL ..... 15

BOTTOM PACKERS AND ANCHOR ..... 27

TOTAL TOOL ..... 62

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 7 Single 1 Total 460

TOTAL ASSEMBLY ..... 522

D.C. ABOVE TOOLS.Stands Single 1 Total 30

D.P. ABOVE TOOLS.Stands 67 Single Total 4136

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4688

TOTAL DEPTH ..... 4666

TOTAL DRILL PIPE ABOVE K.B. .... 22

REMARKS:

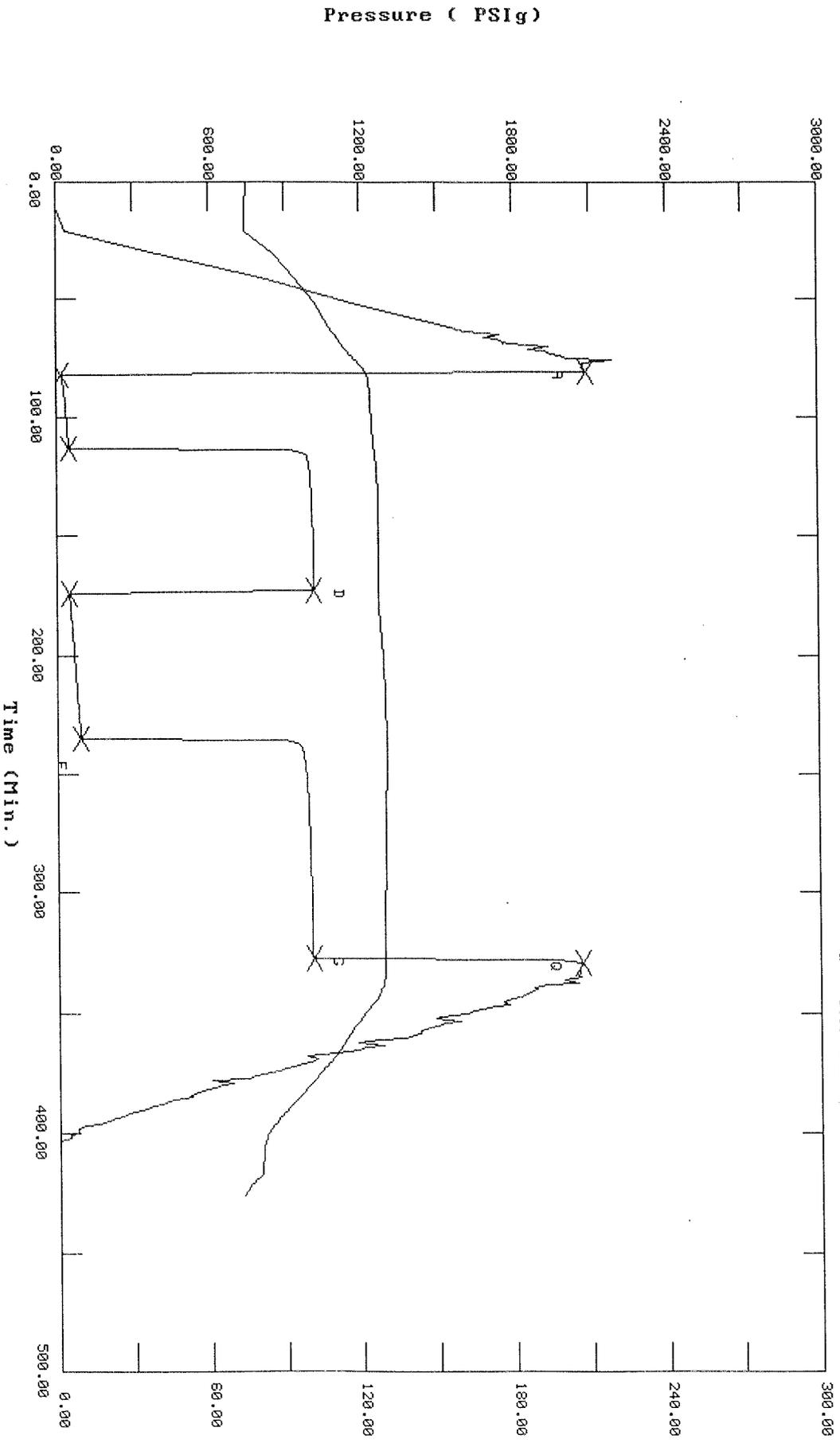
P.O. SUB 1' Above 120'	4033
C.O. SUB 1'	4153
S.I. TOOL 5'	4149
HMV 5'	4154
JARS n/a	
SAFETY JOINT n/a	
PACKER 4'	4159
PACKER 5'	4164
DEPTH STUBB 1'	4165
ANCHOR	
ALP Rec. @	4166
9' Perf.	4174
1' Blank Off Sub	4175
T.C. DEPTH	
PACKER 4'	4179
1' Stubb	4180
19' Perf.	4199
1' c/o sub	4200
460' DP	4660
1' c/o sub	4661
AK-1 Rec. @	4661
BULLNOSE 5'	
T.D.	4666

11119 DST #4 Riney Heirs #1 Wabash Energy Corp.

TEST HISTORY

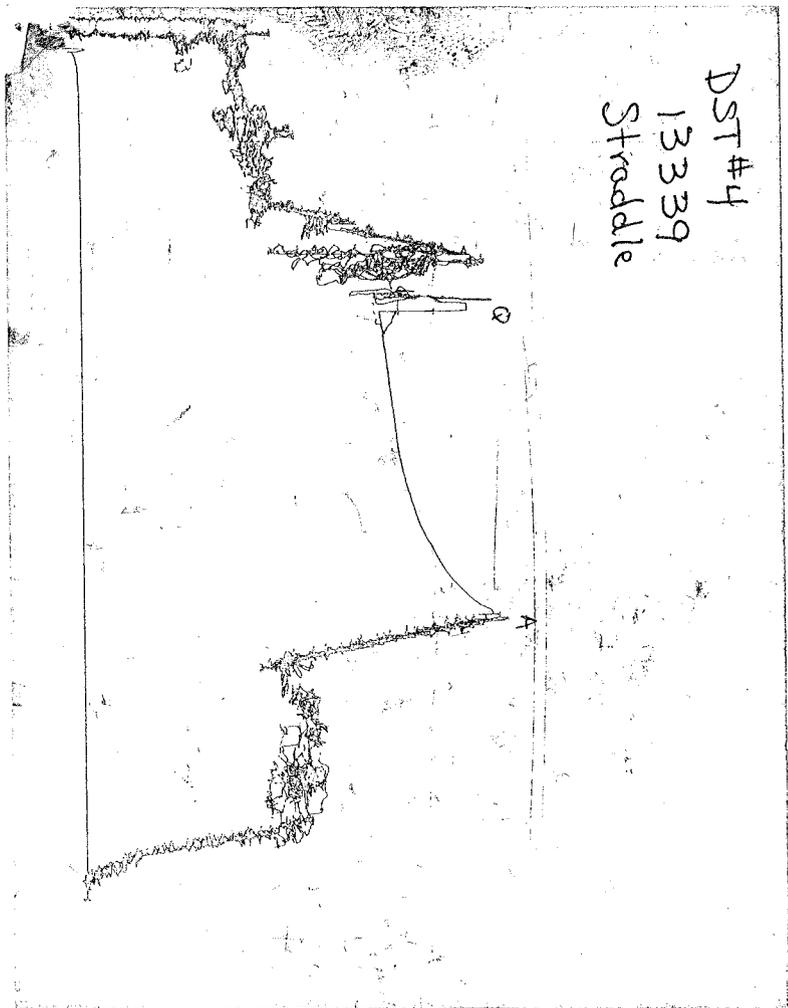
Flag Points  
 t(Min.) P(PSIG)

R:	0.00	2066.68
B:	0.00	16.29
C:	31.00	45.43
D:	60.00	1014.74
E:	0.00	46.59
F:	61.00	89.42
G:	92.00	1004.01
H:	0.00	2067.04



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 11119

Well Name & No. <u>Riney Heirs #1</u>	Test No. <u>4</u>	Date <u>7-23-98</u>
Company <u>Wabash Energy Corporation</u>	Zone Tested <u>Lans./KC. 'I'</u>	
Address <u>P.O. Box 595 Lawrenceville IL 62439</u>	Elevation <u>2972</u>	KB <u>2964</u> GL
Co. Rep / Geo. <u>Larry Whitmer</u>	Cont. <u>Discovery #2</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>13</u>	Twp. <u>18<sup>S</sup></u>	Rge. <u>32<sup>W</sup></u> Co. <u>Scott</u> State <u>KS.</u>
No. of Copies _____	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) _____

Interval Tested <u>4164 - 4179</u>	Initial Str Wt./Lbs. <u>50,000</u>	Unseated Str Wt./Lbs. <u>54,000</u>
Anchor Length <u>15'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>60,000</u>
Top Packer Depth <u>4159 - 415964</u>	Tool Weight <u>2,500</u>	
Bottom Packer Depth <u>4179</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>(RTD) 4666</u>	Wt. Pipe Run <u>-</u>	Drill Collar Run <u>H-90 30'</u>
Mud Wt. <u>9.4</u> LCM _____ Vis. <u>46</u> WL <u>9.6</u>	Drill Pipe Size <u>4 1/2" XH</u>	Ft. Run <u>4136'</u>
Blow Description <u>IF: Weak surface blow built to 4"</u>		

ISI: No blow.

FF: Surface return in 20 mins. built to 4"

FSI: No blow.

Recovery — Total Feet <u>150'</u>	GIP <u>-</u>	Ft. in DC <u>30'</u>	Ft. in DP <u>120'</u>
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%mud _____
Rec. <u>150'</u> Feet Of <u>Sulfur Wtr.</u>	%gas _____	%oil _____	%water _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%mud _____

BHT 130° °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW .20 @ 65° °F Chlorides 40,000 ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud <u>2183</u>   <u>2086</u> PSI	Recorder No. <u>3024</u>	T-Started <u>2105</u>
(B) First Initial Flow Pressure _____   <u>16</u> PSI	(depth) <u>4166</u>	T-Open <u>2227</u>
(C) First Final Flow Pressure _____   <u>45</u> PSI	Recorder No. <u>13339</u>	T-Pulled <u>0227</u>
(D) Initial Shut-in Pressure _____   <u>1014</u> PSI	(depth) <u>4661</u>	T-Out <u>0430</u>
(E) Second Initial Flow Pressure _____   <u>46</u> PSI	Recorder No. <u>-</u>	
(F) Second Final Flow Pressure _____   <u>88</u> PSI	(depth) <u>-</u>	
(G) Final Shut-in Pressure _____   <u>1004</u> PSI	Initial Opening <u>30</u>	Test <u>700</u>
(H) Final Hydrostatic Mud <u>2033</u>   <u>2067</u> PSI	Initial Shut-in <u>60</u>	Jars _____

AK-1 Mech Alp Elec.

Final Flow <u>60</u>	Safety Joint _____
Final Shut-in <u>90</u>	Straddle <u>X 250</u>
	Circ. Sub <u>X N/C</u>
<u>off loc. 0530</u>	Sampler _____
	Extra Packer <u>X 150</u>
	Elect. Rec. <u>X 150</u>
	Other _____

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Approved By [Signature]