

WELL NAME: Zimmer #1
COMPANY: Shelby Resources, L.L.C.
LOCATION: 31-15-17
Ellis co KS
DATE: 4/20/00

TRILOBITE TESTING L.L.C.

OPERATOR : Shelby Resources, LLC DATE 4-18-00
 WELL NAME: Zimmer #1 KB 1908.00 ft TICKET NO: 12037 DST #1
 LOCATION : 31-15-17 Ellis co KS GR 1900.00 ft FORMATION: I-J LKC
 INTERVAL : 3305.00 To 3362.00 ft TD 3362.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13254	13254	3024			PF Fr. 1407 to 1437 hr
SI 60	Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0	IS Fr. 1437 to 1537 hr
SF 30	Clock(hrs)	12	12	elect			SF Fr. 1537 to 1607 hr
FS 60	Depth(ft)	3345.0	3345.0	3313.0	0.0	0.0	FS Fr. 1607 to 1707 hr

	Field	1	2	3	4	
A. Init Hydro	1612.0	1612.0	1647.0	0.0	0.0	T STARTED 1209 hr
B. First Flow	154.0	155.0	130.0	0.0	0.0	T ON BOTM 1405 hr
B1. Final Flow	260.0	252.0	271.0	0.0	0.0	T OPEN 1407 hr
C. In Shut-in	1121.0	1129.0	1146.0	0.0	0.0	T PULLED 1707 hr
D. Init Flow	367.0	238.0	308.0	0.0	0.0	T OUT 2024 hr
E. Final Flow	450.0	450.0	467.0	0.0	0.0	
F. Fl Shut-in	1121.0	1122.0	1133.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1565.0	1609.0	1618.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 43000.00 lbs
						Unseated Str Wt 50000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3291.00 ft

RECOVERY

Tot Fluid 1330.00 ft of 0.00 ft in DC and 1330.00 ft in DP
 1330.00 ft of Clean Gassy Oil
 0.00 ft of 40% gas 60% oil
 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 34.00

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	44.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	109.00 F
Hole Condition	Good
% Porosity	20.00
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.	Ron Nelson
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

BLOW DESCRIPTION

Initial Flow:
 Strong- bottom of bucket
 Gas to surface in 16 mintues. Too
 Small to measure.
 Initial Shut-In:
 Bled off blow- blow came back.
 Final Flow:
 Strong bottom of bucket in 2 minutes.
 Final Shut-In:
 Bled off blow- blow came back.

SAMPLES:
 SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Zimmer #1

LOCATION : 31-15-17 Ellis co KS

TICKET No. 12037 D.S.T. No. 1 DATE 4-18-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 26

TOTAL TOOL 46

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 77

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands54 Single Total 3291

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3368

TOTAL DEPTH 3362

TOTAL DRILL PIPE ABOVE K.B. 6

REMARKS:

Porosity 20%

Ft Pay 6'

P.O. SUB	3273
C.O. SUB	3285
S.I. TOOL	3291
HMV	3296
JARS n/a	
SAFETY JOINT n/a	
PACKER	3300
PACKER	3305
DEPTH 3305	
1'	3306
ANCHOR 5' Perfs	3311
1' co sub	3312
Alpine @ 3313	
1 jt dp 31'	3343
1' co sub	3344
AK-1 @ 3345	
5' Perfs	3349
5' Perfs	3354
5' Perfs	3359
BULLNOSE 3'	3362
T.D.	3362

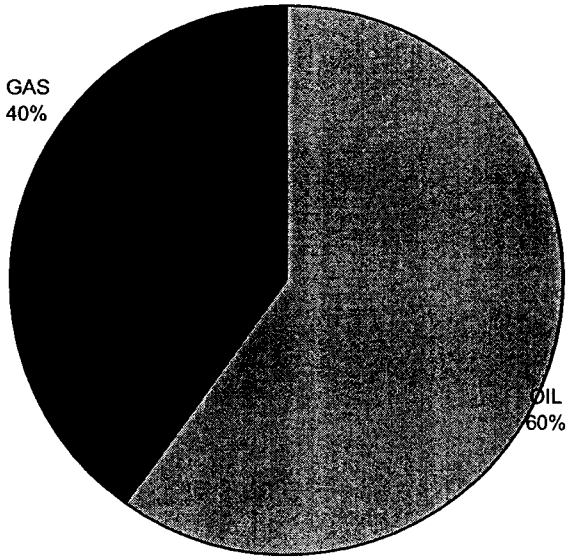
CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 12037

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD		
		%	FEET	%	FEET	%	FEET	%	FEET	
DRILL	1	1330	40	532	60	798	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
DRILL	1	0	0	0	0	0	0	0	0	0
COLLARS	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
TOTAL		1330	0	532	0	798	0	0	0	0

BBL OIL= 11.34756 * HRS OPEN 1 = BBL/DAY 272.34144
 BBL WATER= 0 * = 0
 BBL MUD= 0
 BBL GAS = 7.56504



TEST HISTORY

Tk# 12037 DST# 1 Zimmer #1 Shelby Resources, LLC

Flag Points
t(Min.) P(PSIg)

A:	0.00	1647.28
B:	0.00	129.80
C:	28.50	271.01
D:	59.50	1145.70
E:	0.00	300.34
F:	28.00	467.32
G:	62.50	1133.45
Q:	0.00	1618.02

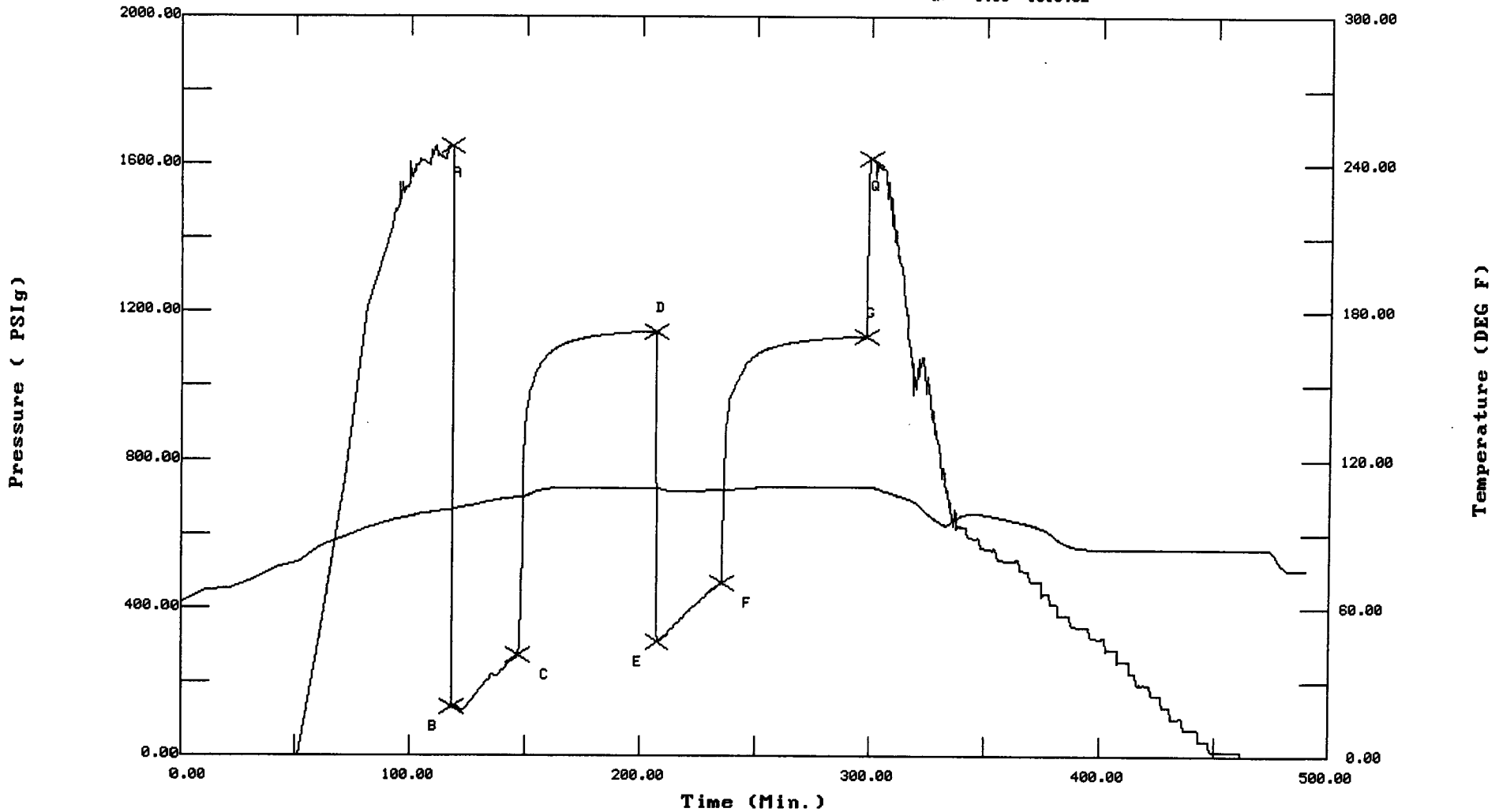
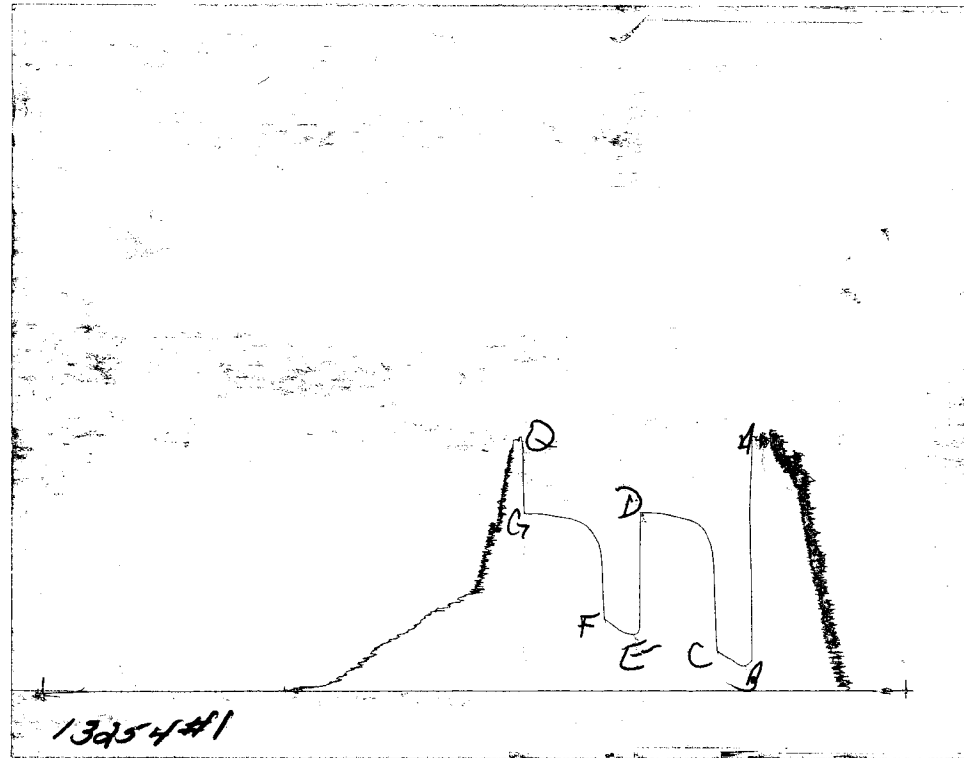


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 12037

Test Ticket

Well Name & No. Zimmer #1 Test No. 1 Date 4-18-00
 Company Shelby Resources, LLC Zone Tested LKC I-T
 Address 5823 Saddle Creek Trail, Parker, Co 80134 Elevation 1908 KB 1900 GL
 Co. Rep / Geo. Ron Nelson Cont. Discovery #2 Est. Ft. of Pay Por. %
 Location: Sec. 31 Twp. 15 Rge. 17 Co. Ellis State Ks
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) Y

Interval Tested 3305 - 3362 Initial Str Wt./Lbs. 43,000 Unseated Str Wt./Lbs. 59,000
 Anchor Length 57 Wt. Set Lbs. 29,000 Wt. Pulled Loose/Lbs. 69,000
 Top Packer Depth 3300 Tool Weight 1800
 Bottom Packer Depth 3305 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3362 Wt. Pipe Run Drill Collar Run
 Mud Wt. 9.1 LCM 1# Vis. 44 WL 8.4 Drill Pipe Size 4.5xH Ft. Run 3291
 Blow Description I.F. Strong - B.O.B. in 1.2 min. GTS in 16 min TSTM
I.S.I. Bled off blow - blow come back
E.F. Strong - B.O.B. in 2 min.
F.S.I. - Bled off blow - blow come back

Recovery — Total Feet 1330 GIP GTS Ft. in DC Ft. in DP 1330
 Rec. 1330 Feet Of clean Gsy Oil %gas 40 %oil 60 %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 109 °F Gravity °API D@ °F Corrected Gravity 34 °API
 RW @ °F Chlorides ppm Recovery Chlorides 5400 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1612</u>	<u>1647</u>		<u>3024</u>	<u>11:50</u>
(B) First Initial Flow Pressure	<u>154</u>	<u>130</u>		(depth) <u>3313</u>	T-Started <u>12:09</u>
(C) First Final Flow Pressure	<u>260</u>	<u>271</u>		Recorder No. <u>13254</u>	T-Open <u>14:07</u>
(D) Initial Shut-In Pressure	<u>1121</u>	<u>1146</u>		(depth) <u>3345</u>	T-Pulled <u>17:07</u>
(E) Second Initial Flow Pressure	<u>367</u>	<u>308</u>		Recorder No. <u> </u>	T-Out <u>20:24</u>
(F) Second Final Flow Pressure	<u>450</u>	<u>467</u>		(depth) <u> </u>	T-Off Location <u>20:45</u>
(G) Final Shut-in Pressure	<u>1121</u>	<u>1133</u>		Initial Opening <u>30</u>	Test <u>600</u>
(Q) Final Hydrostatic Mud	<u>1565</u>	<u>1618</u>		Initial Shut-in <u>60</u>	Jars <u> </u>
				Final Flow <u>30</u>	Safety Joint <u> </u>
				Final Shut-in <u>60</u>	Straddle <u> </u>
					Circ. Sub <u> </u>
					Sampler <u> </u>
					Extra Packer <u> </u>
					Elec. Rec. <u>X</u> <u>150</u>
					Mileage <u> </u>
					Other <u>ext</u> <u>1 hr 30</u>
					TOTAL PRICE \$ <u>780</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 _____
 Our Representative Ron Bangs

8:15

TRILOBITE TESTING L.L.C.

OPERATOR : Shelby Resources LLC DATE 4-19-00
 WELL NAME: Zimmer #1 KB 1908.00 ft TICKET NO: 12038 DST #2
 LOCATION : 31-15-17 Ellis co KS GR 1900.00 ft FORMATION: Penn Sd
 INTERVAL : 3472.00 To 3486.00 ft TD 3486.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13254	13254	3024			PF Fr. 1607 to 1637 hr
SI 45 Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0	IS Fr. 1637 to 1722 hr
SF 30 Clock(hrs)	12	12	elect			SF Fr. 1722 to 1752 hr
FS 60 Depth(ft)	3483.0	3483.0	3474.0	0.0	0.0	FS Fr. 1752 to 1852 hr

	Field	1	2	3	4	
A. Init Hydro	1799.0	1796.0	1763.0	0.0	0.0	T STARTED 1432 hr
B. First Flow	331.0	428.0	312.0	0.0	0.0	T ON BOTM 1605 hr
B1. Final Flow	827.0	834.0	843.0	0.0	0.0	T OPEN 1607 hr
C. In Shut-in	1191.0	1179.0	1169.0	0.0	0.0	T PULLED 1852 hr
D. Init Flow	969.0	959.0	923.0	0.0	0.0	T OUT 2200 hr
E. Final Flow	1144.0	1139.0	1155.0	0.0	0.0	
F. Fl Shut-in	1191.0	1183.0	1175.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1717.0	1733.0	1735.0	0.0	0.0	Tool Wt. 1100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 62000.00 lbs
						Initial Str Wt 44000.00 lbs
						Unseated Str Wt 60000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3480.00 ft

RECOVERY

Tot Fluid 2542.00 ft of	0.00 ft in DC and 2542.00 ft in DP	Unseated Str Wt 60000.00 lbs
1000.00 ft of Muddy water		Bot Choke 0.75 in
0.00 ft of 80% water 20% mud		Hole Size 7.88 in
1542.00 ft of Slightly muddy water		D Col. ID 0.00 in
0.00 ft of 95% water 5% mud		D. Pipe ID 3.80 in
0.00 ft of		D.C. Length 0.00 ft
0.00 ft of		D.P. Length 3480.00 ft
0.00 ft of		
0.00 ft of		
SALINITY 34000.00 P.P.M.	A.P.I. Gravity 0.00	

BLOW DESCRIPTION

Initial Flow:
 Strong-bottom of bucket in 45 seconds
 Initial Shut-In:
 Bled off blow-blow came back.
 Final Flow:
 Strong-bottom of bucket in 35 seconds
 Final Shut-In:
 Bled off blow-no blow back.

SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	47.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	110.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out Y	
Tool Chased N	
Tester	Dan Bangle
Co. Rep.	Ron Nelson
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

Test Successful: Y

TEST HISTORY

Tk# 12038 DST#2 Zimmer #1 Shelby Resources LLC

Flag Points
t(Min.) P(PSig)

A:	0.00	1762.54
B:	0.00	311.99
C:	28.50	843.19
D:	45.50	1168.79
E:	0.00	923.00
F:	33.00	1155.30
G:	57.00	1174.72
Q:	0.00	1735.88

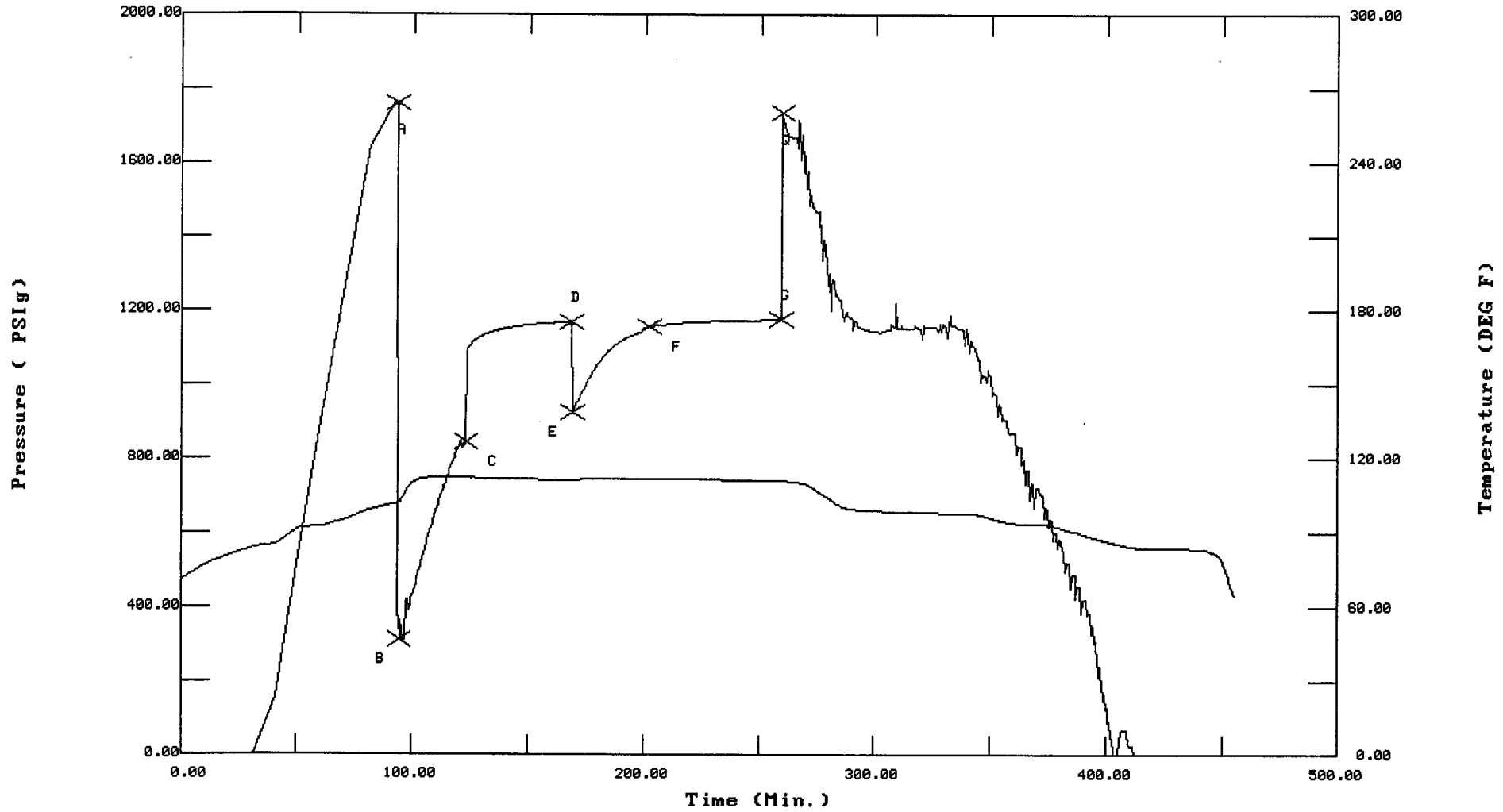
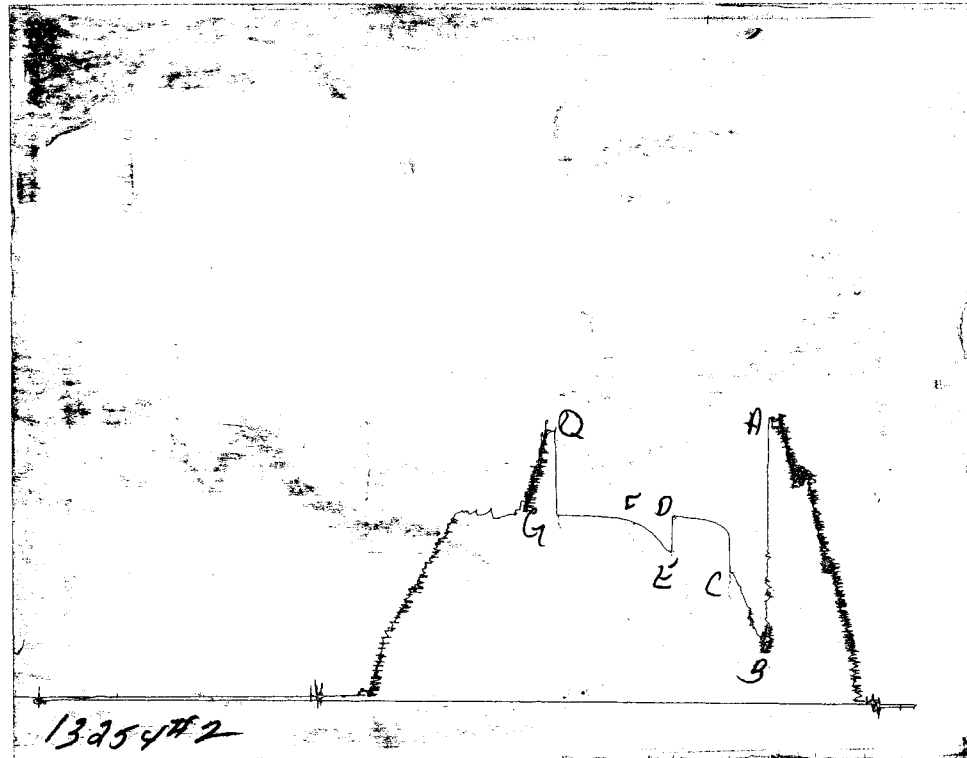


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 12038

Test Ticket

Well Name & No. <u>Zimmer #1</u>	Test No. <u>2</u>	Date <u>4-19-00</u>
Company <u>Shelby Res. LLC</u>	Zone Tested <u>Penn Sd</u>	
Address _____	Elevation <u>1908</u> KB <u>1900</u> GL	
Co. Rep / Geo. <u>Ron Nelson</u>	Cont. <u>Discovery #2</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>31</u> Twp. <u>15</u> Rge. <u>17</u>	Co. <u>Ellis</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>3472-3486</u>	Initial Str Wt./Lbs. <u>44,000</u>	Unseated Str Wt./Lbs. <u>60,000</u>
Anchor Length <u>14'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>62,000</u>
Top Packer Depth <u>3467</u>	Tool Weight <u>1100</u>	
Bottom Packer Depth <u>3472</u>	Hole Size — 7 7/8" _____	Rubber Size — 6 3/4" _____
Total Depth <u>3486</u>	Wt. Pipe Run _____	Drill Collar Run _____
Mud Wt. <u>9</u> LCM <u>1#</u> Vis. <u>47</u> WL <u>8.4</u>	Drill Pipe Size <u>4.5x4</u>	Ft. Run <u>3480</u>
Blow Description <u>Hit bridge 2100' I.F. Strong - B.O.B. 45 sec.</u>		
<u>ISI - Bled off blow - blow came back</u>		
<u>FF - Strong - B.O.B. in 35 sec.</u>		
<u>ESI - Bled off blow - no blow back</u>		

Recovery — Total Feet <u>2542</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>2542</u>
Rec. <u>1000</u> Feet Of <u>mdy wtr.</u>	%gas _____	%oil _____	<u>80%</u> water <u>20%</u> mud
Rec. <u>1542</u> Feet Of <u>slty mdy wtr.</u>	%gas _____	%oil _____	<u>95%</u> water <u>5%</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>110</u> °F Gravity _____	°API D@ _____	°F Corrected Gravity _____	°API _____
RW <u>.22</u> @ <u>74.8</u> °F	Chlorides <u>34,000</u> ppm	Recovery Chlorides <u>7,000</u> ppm	System _____

(A) Initial Hydrostatic Mud	AK-1 <u>1799</u>	Alpine <u>1763</u>	PSI Recorder No. <u>3024</u>	T-On Location <u>14:00</u>
(B) First Initial Flow Pressure	<u>331</u>	<u>312</u>	PSI (depth) <u>3474</u>	T-Started <u>14:32</u>
(C) First Final Flow Pressure	<u>827</u>	<u>843</u>	PSI Recorder No. <u>13254</u>	T-Open <u>16:07</u>
(D) Initial Shut-In Pressure	<u>1191</u>	<u>1169</u>	PSI (depth) <u>3483</u>	T-Pulled <u>18:52</u>
(E) Second Initial Flow Pressure	<u>969</u>	<u>923</u>	PSI Recorder No. _____	T-Out <u>22:00</u>
(F) Second Final Flow Pressure	<u>1144</u>	<u>1155</u>	PSI (depth) _____	T-Off Location <u>29:30</u>
(G) Final Shut-in Pressure	<u>1191</u>	<u>1175</u>	PSI Initial Opening <u>30</u>	Test <u>7600</u>
(Q) Final Hydrostatic Mud	<u>1717</u>	<u>1735</u>	PSI Initial Shut-in <u>45</u>	Jars _____
			Final Flow <u>30</u>	Safety Joint _____
			Final Shut-in <u>60</u>	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 _____
 Our Representative Dan Rangle

Circ. Sub 35
 Sampler _____
 Extra Packer _____
 Elec. Rec. 150
 Mileage _____
 Other _____
 TOTAL PRICE \$ 985

Well Name Zimmer
DST Number 1
Recorder Number 13254

A: 1.370 1612
B: .131 155
C: .213 252
D: .957 1129
E: .201 238
F: .380 450
G: .951 1122
Q: 1.368 1609

Well Name Zimmer
DST Number 2
Recorder Number 13254

A: 1.528 1796
B: .362 428
C: .706 834
D: 1.000 1179
E: .812 959
F: .965 1139
G: 1.003 1183
Q: 1.474 1733