

15-195-22201

TRILOBITE TESTING L.L.C.

35-11s-2lw

OPERATOR : Denis F. Roberts

DATE 5-28-00

WELL NAME: Bodine #1

KB 2301.00 ft

TICKET NO: 13178 DST #1

LOCATION : 35-11-21 Trego co KS

GR 2293.00 ft

FORMATION: C-D-E-F LKC

INTERVAL : 3614.00 To 3687.00 ft

TD 3687.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13254	13254	3024			PF Fr. 0415 to 0445 hr
SI 45 Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0	IS Fr. 0445 to 0530 hr
SF 45 Clock(hrs)	12	12	elect			SF Fr. 0530 to 0615 hr
FS 60 Depth(ft)	3684.0	3684.0	3621.0	0.0	0.0	FS Fr. 0615 to 0715 hr

	Field	1	2	3	4	
A. Init Hydro	1799.0	1793.0	1774.0	0.0	0.0	T STARTED 0231 hr
B. First Flow	82.0	80.0	17.0	0.0	0.0	T ON BOTM 0413 hr
B1. Final Flow	82.0	71.0	42.0	0.0	0.0	T OPEN 0415 hr
C. In Shut-in	580.0	575.0	561.0	0.0	0.0	T PULLED 0715 hr
D. Init Flow	94.0	104.0	43.0	0.0	0.0	T OUT 0835 hr
E. Final Flow	94.0	90.0	59.0	0.0	0.0	
F. Fl Shut-in	533.0	5372.0	523.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1764.0	1709.0	1740.0	0.0	0.0	Tool Wt. 800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 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 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 3570.00 ft

RECOVERY

Tot Fluid 90.00 ft of 30.00 ft in DC and 60.00 ft in DP
 90.00 ft of Drilling mud with show of free oil on top.
 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 3" fair blow.

Final Flow:

Weak-building to 1/4".

SAMPLES:

SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.40 lb/cf
 Vis. 45.00 S/L
 W.L. 8.80 in3
 F.C. 0.00 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 113.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Dan Bangle
 Co. Rep. Randy Kilian
 Contr. Discovery
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Bodine #1

LOCATION : 35-11-21 Trego co KS

TICKET No. 13178 D.S.T. No. 1 DATE 5-28-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 11

TOTAL TOOL 31

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY 93

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

D.P. ABOVE TOOLS.Stands58 Single 1 Total 3570

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3693

TOTAL DEPTH 3687

TOTAL DRILL PIPE ABOVE K.B. 6

REMARKS:

P.O. SUB 3474
C.O. SUB 3594

S.I. TOOL 3600

HMV 3605

JARS n/a

SAFETY JOINT n/a

PACKER 3609

PACKER 3614

DEPTH 3614

1' 3615

ANCHOR 5' Perfs 3620

1' co sub 3621

Alpine @ 3621

1 std dp 62' 3683

1' co sub 3684

AK-1 @ 3684

BULLNOSE 3' 3687

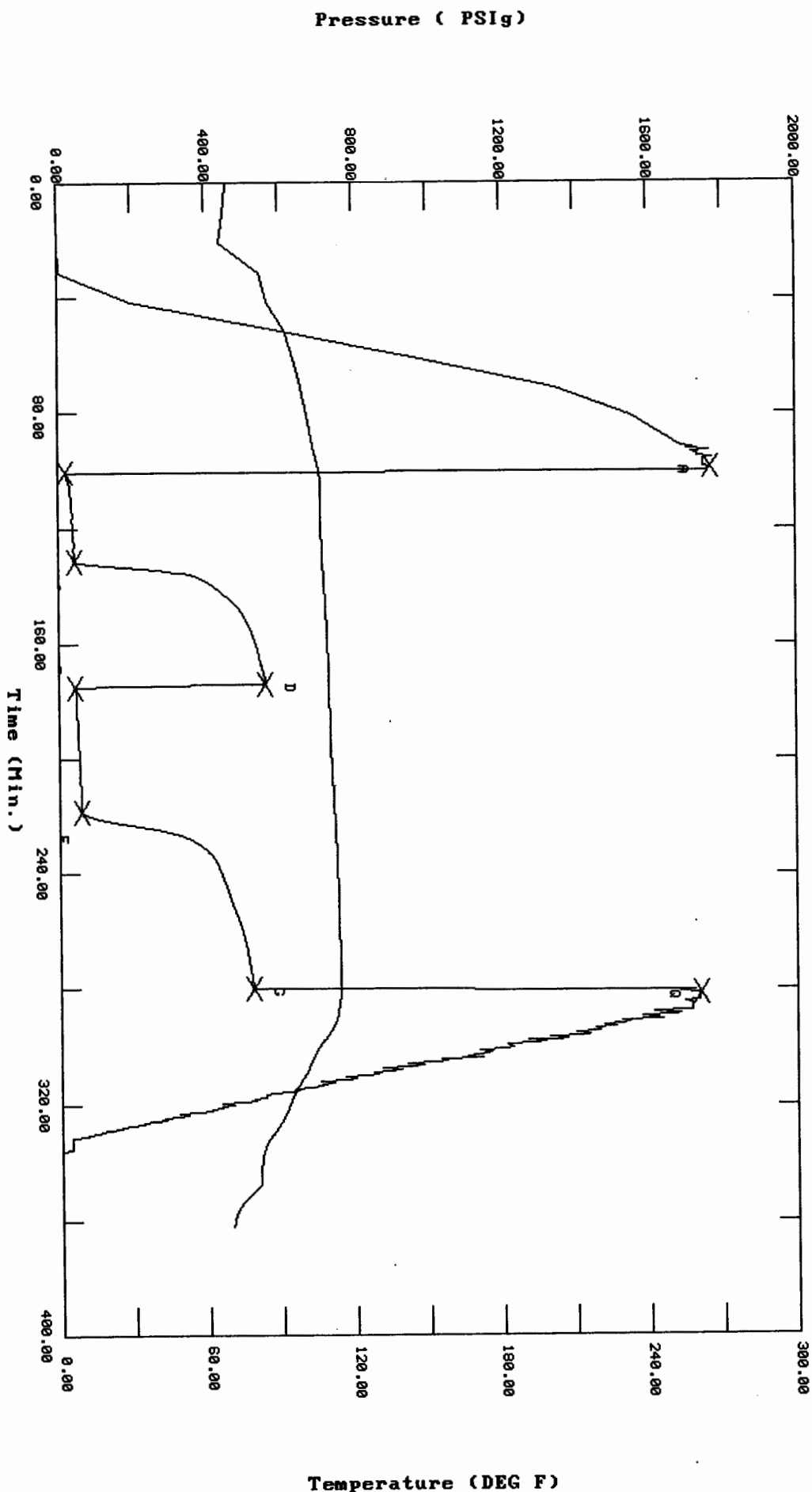
T.D. 3687

Tk# 13178 DST# 1 Bodine #1 Denis F. Roberts

TEST HISTORY

Flag Points
t(Min.) P(PSig)

A: 0.00 1773.84
B: 0.00 17.31
C: 30.50 42.10
D: 43.50 560.93
E: 0.00 43.36
F: 43.00 59.38
G: 61.50 523.32
H: 0.00 1739.77



1345471

A

B

A

B

A

B

A

B

13854A1

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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13178

Test Ticket

Well Name & No. <u>Bodine #1</u>	Test No. <u>1</u>	Date <u>5-28-00</u>
Company <u>Denis F. Roberts</u>	Zone Tested <u>C-F LKC</u>	
Address <u>3904 Fairway Dr. Hays, Ks 67601</u>	Elevation <u>2301</u>	KB <u>1293</u> GL
Co. Rep / Geo. <u>Randy Kilian</u>	Cont. <u>Discovery #1</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>35</u> Twp. <u>11</u> Rge. <u>21</u>	Co. <u>Trego</u>	State <u>Ks</u>
No. of Copies <u>3</u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>3614 - 3687</u>	Initial Str Wt/Lbs. <u>50,000</u>	Unseated Str Wt/Lbs. <u>50,000</u>
Anchor Length <u>73</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>69,000</u>
Top Packer Depth <u>3609</u>	Tool Weight <u>800</u>	
Bottom Packer Depth <u>3614</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>3687</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>30</u>
Mud Wt. <u>9.4</u> LCM <u> </u> Vis. <u>45</u> WL <u>8.8</u>	Drill Pipe Size <u>4.5 XH</u>	Ft. Run <u>3570</u>
Blow Description <u>I.F. weak-building to 3" fair blow</u>		

F.F. weak-building to 1/4"

Recovery — Total Feet <u>90</u>	GIP <u> </u>	Ft. in DC <u>30</u>	Ft. in DP <u>60</u>
Rec. <u>90</u>	Feet Of <u>D.M w/show free</u>	%gas <u> </u>	%oil <u> </u> %water <u> </u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u>oil on 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 <u>113</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 <u> </u>	Chlorides <u>8,000</u> ppm System <u> </u>

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1799</u>	<u>1774</u>		<u>3024</u>	<u>01:30</u>
(B) First Initial Flow Pressure	<u>82</u>	<u>17</u>	PSI (depth)	<u>3621</u>	T-Started <u>02:31</u>
(C) First Final Flow Pressure	<u>82</u>	<u>42</u>	PSI Recorder No.	<u>13254</u>	T-Open <u>04:15</u>
(D) Initial Shut-In Pressure	<u>580</u>	<u>561</u>	PSI (depth)	<u>3684</u>	T-Pulled <u>07:15</u>
(E) Second Initial Flow Pressure	<u>94</u>	<u>43</u>	PSI Recorder No.		T-Out <u>08:35</u>
(F) Second Final Flow Pressure	<u>94</u>	<u>59</u>	PSI (depth)		T-Off Location <u>08:55</u>
(G) Final Shut-in Pressure	<u>533</u>	<u>523</u>	PSI Initial Opening	<u>30</u>	Test <u>600</u>
(Q) Final Hydrostatic Mud	<u>1764</u>	<u>1740</u>	PSI Initial Shut-in	<u>45</u>	Jars <u> </u>
			Final Flow	<u>45</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> </u>
					TOTAL PRICE \$ <u>750</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 [Signature]

Our Representative Don Bangli

TRILOBITE TESTING L.L.C.

OPERATOR : Denis F. Roberts

DATE 5-29-00

WELL NAME: Bodine #1

KB 2301.00 ft

TICKET NO: 13179

DST #2

LOCATION : 35-11-21 Trego co KS

GR 2293.00 ft

FORMATION: Topeka

INTERVAL : 3452.00 To 3545.00 ft

TD 4004.00 ft

TEST TYPE: CONV STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 0 Rec.	13254	13254	13248	13248	3024	PF Fr. to hr
SI 0 Range(Psi)	4550.0	4550.0	0.0	0.0	3464.0	IS Fr. to hr
SF 0 Clock(hrs)	12	12	12	12	elect	SF Fr. to hr
FS 0 Depth(ft)	3528.0	3528.0	4001.0	4001.0	3464.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1764.0	0.0	0.0	0.0	1715.0	T STARTED 1730 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM 1858 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 1900 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 1915 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 2100 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
G. Final Hydro	1705.0	0.0	0.0	0.0	1702.0	

	Field	1	2	3	4	TOOL DATA-----
Inside/Outside	0	0	0	0	I	Tool Wt. 2800.00 lbs

RECOVERY

Tot Fluid 90.00 ft of 30.00 ft in DC and 60.00 ft in DP

90.00 ft of Drilling 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

0.00 ft of

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

BLOW DESCRIPTION

Set packers-Packer failure

Reset packers-Packer failure

MUD DATA-----	Chemical
Mud Type	
Weight	9.50 lb/cf
Vis.	51.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop Y	0.0 ft

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	3
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Dan Bangle
Co. Rep.	Randy Kilian
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: N

*** TOOL DIAGRAM *** CONV STRADDLE

WELL NAME: Bodine #1

LOCATION : 35-11-21 Trego co KS

TICKET No. 13179 D.S.T. No. 2 DATE 5-29-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 30

TOTAL TOOL 50

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 8 Single Total 498

TOTAL ASSEMBLY 548

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

D.P. ABOVE TOOLS.Stands57 Single 1 Total 3440

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4018

TOTAL DEPTH 4004

TOTAL DRILL PIPE ABOVE K.B. 14

REMARKS:

Set Packers-Packer failure

Reset packers-Packer failure

P.O. SUB	3312
C.O. SUB	3432
S.I. TOOL	3438
HMV	3443
JARS n/a	
SAFETY JOINT n/a	
PACKER	3447
PACKER	3452
DEPTH 3452	
1'	3453
ANCHOR 5' Perfs	3458
5' Perfs	3463
1' co sub	3464
Alpine @ 3464	
1 std dp 63'	3527
AK-1 @ 3528	
1' co sub	3528
5' Perfs	3533
5' Perfs	3538
2' Perfs	3540
1' blank off	3541
4'	3545
3545	
PACKER	3545
2' Stubb	3547
5' Perfs	3552
5' Perfs	3557
5' Perfs	3562
1' co sub	3563
7 stds dp	3998
1' co sub	3999
2' Perfs	4001
AK-1 @ 4001	
BULLNOSE 3'	4004
T.D.	4004

TEST HISTORY
Tk# 13179 DST# 2 Bodine #1 Denis F. Roberts

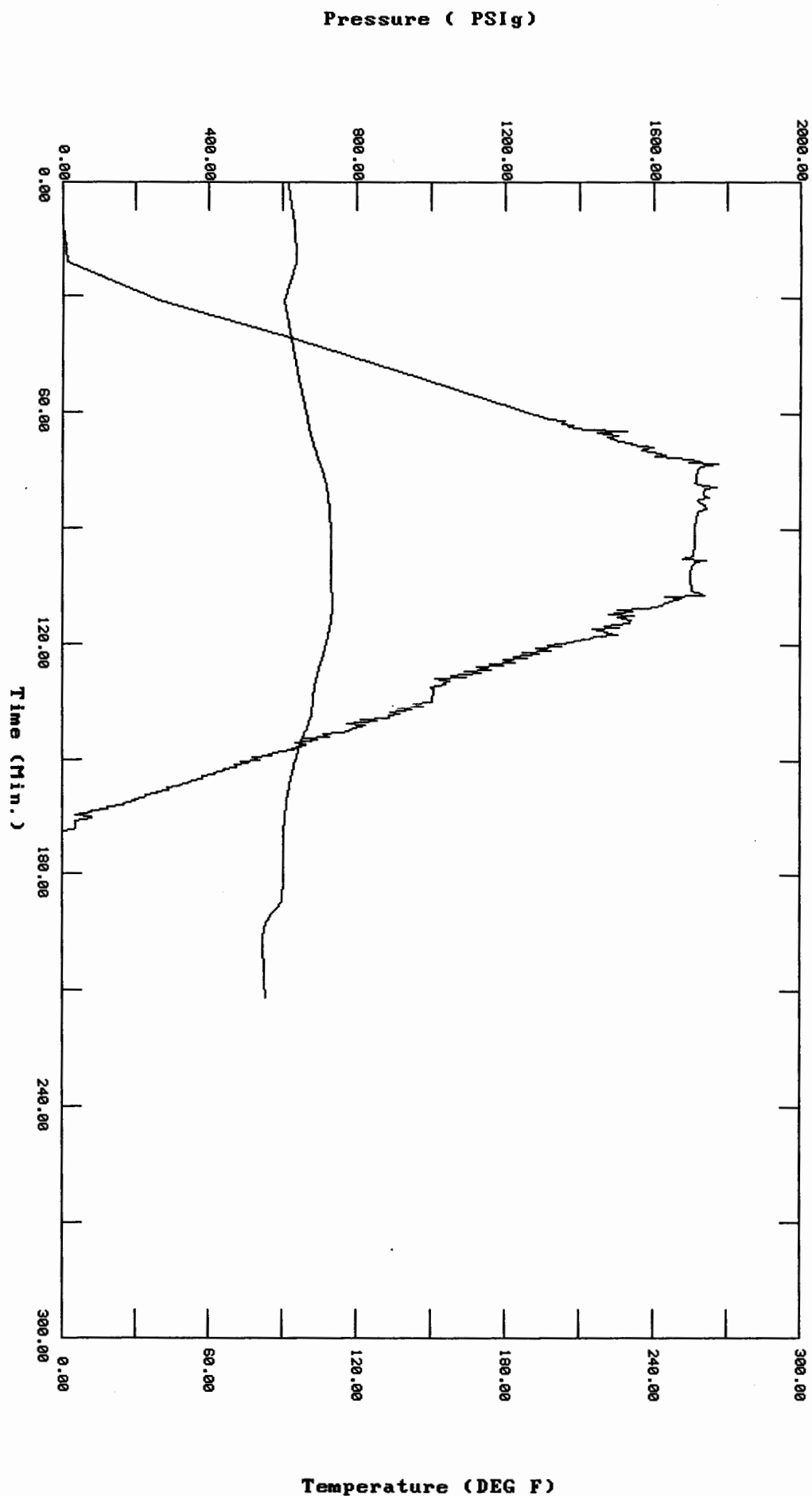
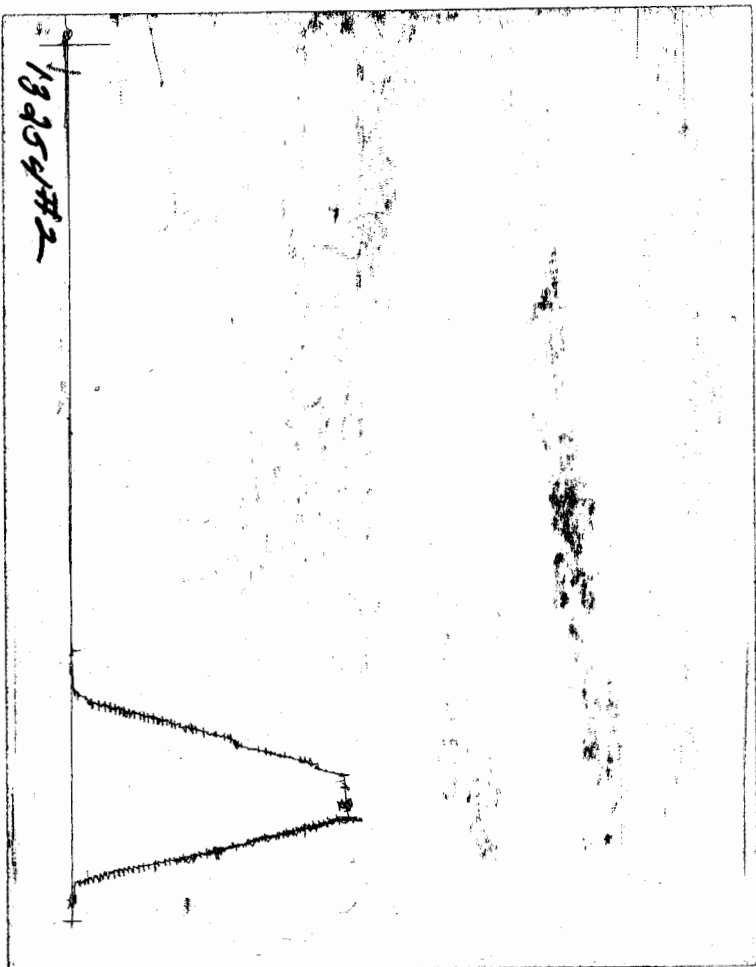
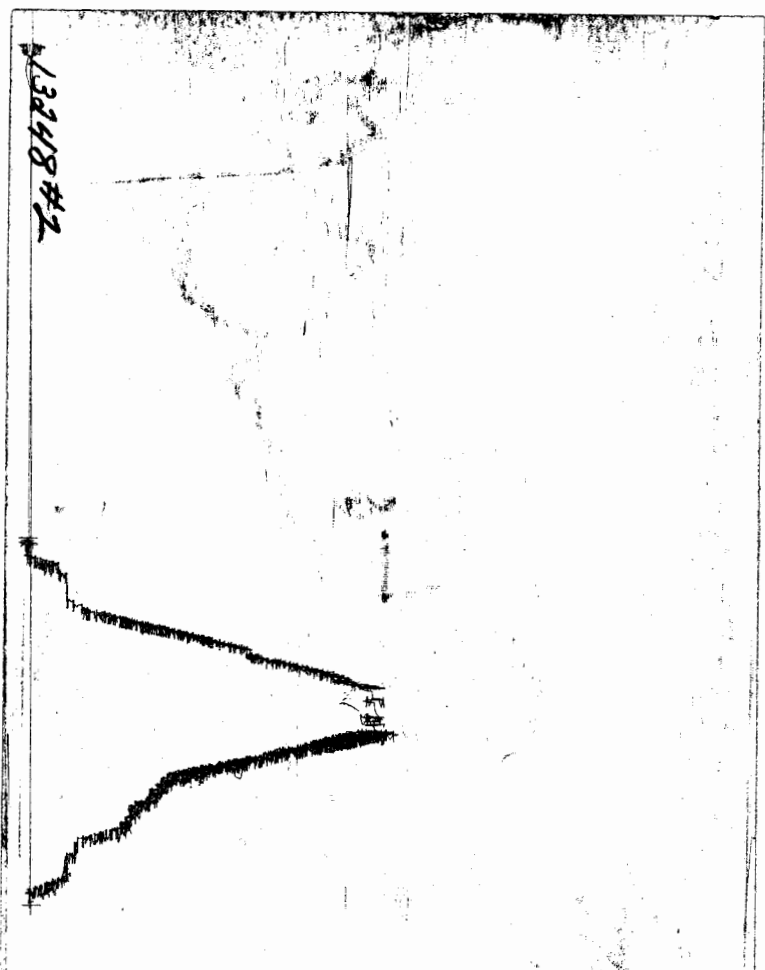


CHART PAGE



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

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

Nº 13179

Test Ticket

Well Name & No.	<u>Bodine #1</u>	Test No.	<u>2</u>	Date	<u>5-29-00</u>
Company	<u>Denis Roberts</u>	Zone Tested	<u>Topeka</u>		
Address		Elevation	<u>2301</u>	KB	<u>2293</u> GL
Co. Rep / Geo.	<u>Randy Kilian</u>	Cont.	<u>Discovery #1</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>35</u>	Twp.	<u>11</u>	Rge.	<u>21</u> Co. <u>Trego</u> State <u>Ks</u>
No. of Copies	<u>3</u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>3452 - 3545</u>	Initial Str Wt./Lbs.	<u>57,000</u>	Unseated Str Wt./Lbs.	<u>57,000</u>
Anchor Length	<u>9.3</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>60,000</u>
Top Packer Depth	<u>3452</u>	Tool Weight	<u>2800</u>		
Bottom Packer Depth	<u>3545</u>	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	<u>4004</u>	Wt. Pipe Run		Drill Collar Run	<u>30</u>
Mud Wt. <u>9.5</u> LCM <u> </u> Vis. <u>51</u> WL <u>8</u>		Drill Pipe Size	<u>4.5 XH</u>	Ft. Run	<u>3440</u>
Blow Description	<u>Set packers - Packer Failure</u> <u>Reset packers - Packer failure</u>				

Recovery — Total Feet	<u>90</u>	GIP		Ft. in DC	<u>30</u>	Ft. in DP	<u>60</u>
Rec.	<u>90</u>	Feet Of	<u>D.M.</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>110</u>	°F Gravity		°API D@		°F Corrected Gravity	
RW		@		ppm Recovery		Chlorides	<u>3800</u> ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1764</u>	<u>1715</u>	PSI	Recorder No.	<u>3024</u> T-On Location <u>15:30</u>
(B) First Initial Flow Pressure			PSI	(depth)	<u>3464</u> T-Started <u>17:30</u>
(C) First Final Flow Pressure			PSI	Recorder No.	<u>13254</u> T-Open <u>19:00</u>
(D) Initial Shut-In Pressure			PSI	(depth)	<u>3528</u> T-Pulled <u>19:15</u>
(E) Second Initial Flow Pressure			PSI	Recorder No.	<u>13248</u> T-Out <u>21:00</u>
(F) Second Final Flow Pressure			PSI	(depth)	<u>4001</u> T-Off Location <u> </u>
(G) Final Shut-in Pressure			PSI	Initial Opening	Test <u>500</u>
(Q) Final Hydrostatic Mud	<u>1705</u>	<u>1702</u>	PSI	Initial Shut-in	Jars <u> </u>

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Approved By

Our Representative Dan Bangle

Final Flow		Safety Joint	
Final Shut-in		Straddle	<u>X</u> <u>250</u>
		Circ. Sub	
		Sampler	
		Extra Packer	<u>X</u> <u>150</u>
		Elec. Rec.	<u>X</u> <u>150</u>
		Mileage	
		Other	<u>Misrun</u>
		TOTAL PRICE \$	<u>1050</u>

TRILOBITE TESTING L.L.C.

OPERATOR : Denis F. Roberts

DATE 5-29-00

WELL NAME: Bodine #1

KB 2301.00 ft

TICKET NO: 13180

DST #3

LOCATION : 35-11-21 Trego co KS

GR 2293.00 ft

FORMATION: Topeka

INTERVAL : 3456.00 To 3545.00 ft

TD 4004.00 ft

TEST TYPE: CONV STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 0 Rec.	13254	13254	13248	13248	3024	PF Fr. to hr
SI 0 Range(Psi)	4550.0	4550.0	4250.0	4250.0	4995.0	IS Fr. to hr
SF 0 Clock(hrs)	12	12	12	12	elect	SF Fr. to hr
FS 0 Depth(ft)	3532.0	3532.0	4001.0	4001.0	3468.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1764.0	0.0	0.0	0.0	1735.0	T STARTED 2120 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM 2318 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 2320 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 2340 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 0045 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1705.0	0.0	0.0	0.0	1706.0	Tool Wt. 2800.00 lbs
Inside/Outside	0	0	0	0	I	Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 57000.00 lbs
						Unseated Str Wt 57000.00 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 30.00 ft
						D.P. Length 3444.00 ft

RECOVERY

Tot Fluid 180.00 ft of 30.00 ft in DC and 150.00 ft in DP
 180.00 ft of Drilling 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

Set Packers- Packer failure
 Reset packers- Packer Failure

MUD DATA-----

Mud Type	Chemical
Weight	9.50 lb/cf
Vis.	51.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop Y	0.0 ft

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	3
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Dan Bangle
Co. Rep.	Randy Kilian
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: N

*** TOOL DIAGRAM *** CONV STRADDLE

WELL NAME: Bodine #1

LOCATION : 35-11-21 Trego co KS

TICKET No. 13180 D.S.T. No. 3 DATE 5-29-00

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 8 Single Total 498

TOTAL ASSEMBLY 544

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

D.P. ABOVE TOOLS.Stands58 Single Total 3444

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4014

TOTAL DEPTH 4004

TOTAL DRILL PIPE ABOVE K.B. 10

REMARKS:

Set Packers-Packer failure

Reset packers-Packer failure

P.O. SUB	3316
C.O. SUB	3436
S.I. TOOL	3442
HMV	3447
JARS n/a	
SAFETY JOINT n/a	
PACKER	3451
PACKER	3456
DEPTH 3456	
1'	3457
ANCHOR 5' Perfs	3462
5' Perfs	3467
1' co sub	3468
Alpine @ 3468	
1 std dp 63'	3531
1' co sub	3532
1' Perfs	3533
5' Perfs	3538
2' Perfs	3540
AK-1 @ 3532	
1' blank off	3541
4'	3545
3545	
PACKER	3545
2' stubb	3547
5' Perfs	3552
5' Perfs	3557
5' Perfs.	3562
1' co sub	3563
7 stds dp	3998
1' co sub	3999
2' Perfs	4001
AK-1 @ 4001	
BULLNOSE 3'	4004
T.D.	4004

TEST HISTORY

Tk# 13180 DST#3 Bodine #1 Denis F. Roberts

Flag Points
 t(Min.) P(PSig)
 R1 0.00 1734.76
 Q1 0.00 1706.48

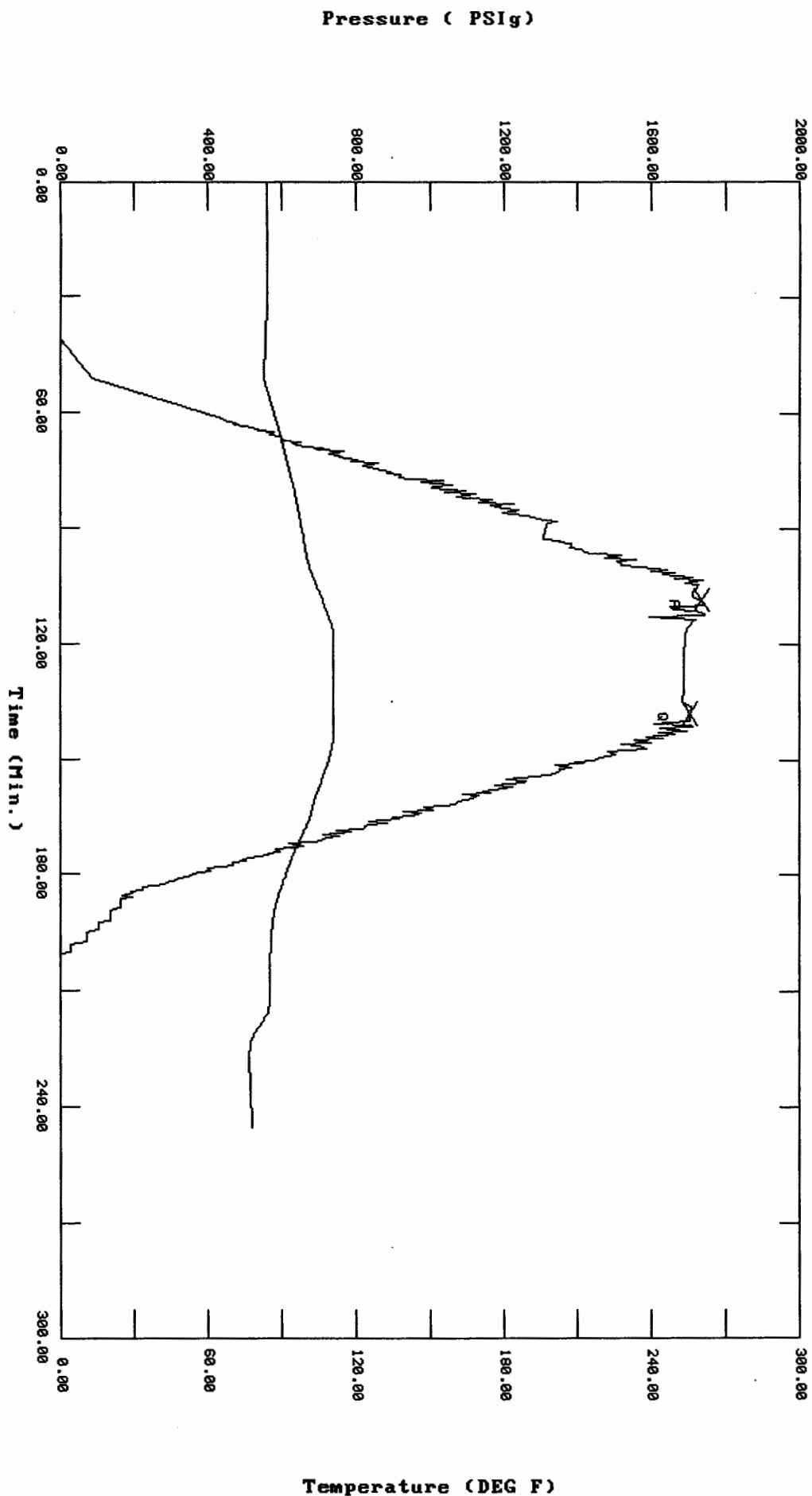
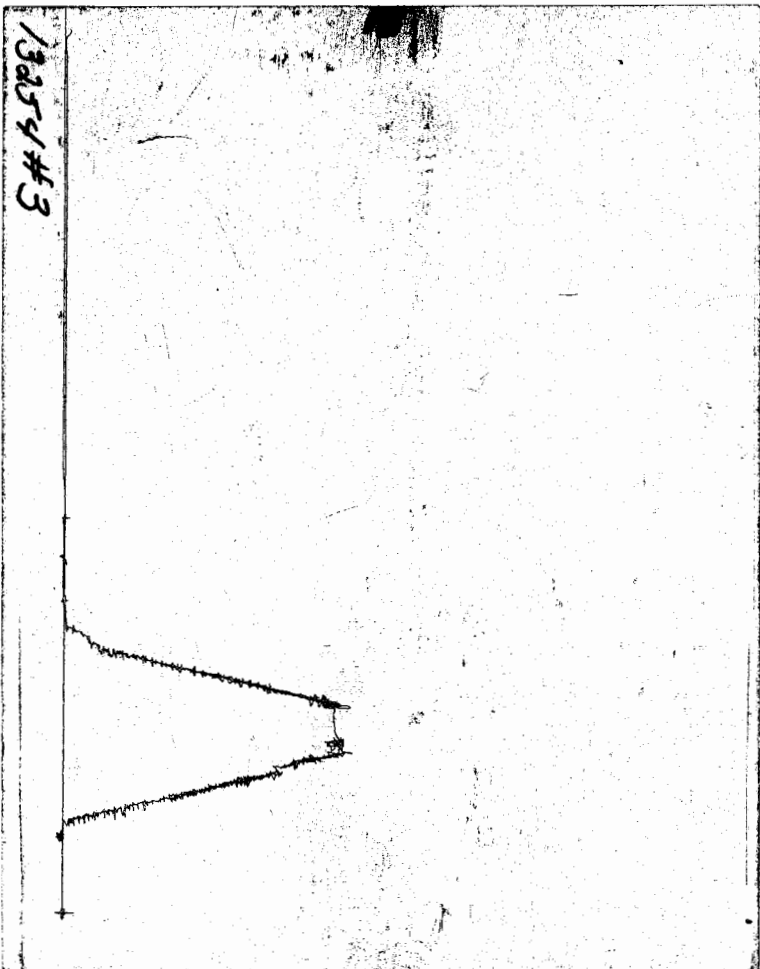


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13180

Test Ticket

Well Name & No.	<u>Bodipe #1</u>	Test No.	<u>3</u>	Date	<u>5-29-00</u>
Company	<u>Denis Roberts</u>	Zone Tested	<u>Topeka</u>		
Address		Elevation	<u>2301</u>	KB	<u>2293</u> GL
Co. Rep / Geo.	<u>Randy Kilian</u>	Cont.	<u>Discovery #1</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>35</u>	Twp.	<u>11</u>	Rge.	<u>21</u> Co. <u>Trego</u> State <u>Ks</u>
No. of Copies	<u>3</u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>3456 - 3545</u>	Initial Str Wt./Lbs.	<u>57000</u>	Unseated Str Wt./Lbs.	<u>57000</u>
Anchor Length	<u>89</u>	Wt. Set Lbs.	<u>39000</u>	Wt. Pulled Loose/Lbs.	<u>60000</u>
Top Packer Depth	<u>3456</u>	Tool Weight	<u>2800</u>		
Bottom Packer Depth	<u>3545</u>	Hole Size — 7 7/8"	<u> </u>	Rubber Size — 6 3/4"	<u> </u>
Total Depth	<u>4004</u>	Wt. Pipe Run	<u> </u>	Drill Collar Run	<u>30</u>
Mud Wt.	<u>9.5</u> LCM	Vis.	<u>51</u> WL <u>8</u>	Drill Pipe Size	<u>4.5 XH</u> Ft. Run <u>3444</u>
Blow Description	<u>Set Packers - Packer failure</u>				
	<u>Reset packers - Packer failure</u>				

Recovery — Total Feet	<u>180</u>	GIP	<u> </u>	Ft. in DC	<u>30</u>	Ft. in DP	<u>150</u>
Rec.	<u>180</u>	Feet Of	<u>D.M.</u>	%gas	%oil	%water	%mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
BHT	<u>110</u>	°F Gravity	<u> </u>	°API D@	<u> </u>	°F Corrected Gravity	<u> </u> °API
RW	<u> </u> @ <u> </u>	°F Chlorides	<u> </u>	ppm Recovery	<u> </u>	Chlorides	<u>3800</u> ppm System

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1764</u>	<u>1735</u>	PSI Recorder No.	<u>3024</u>
(B) First Initial Flow Pressure			PSI (depth)	<u>3468</u>
(C) First Final Flow Pressure			PSI Recorder No.	<u>13254</u>
(D) Initial Shut-In Pressure			PSI (depth)	<u>3532</u>
(E) Second Initial Flow Pressure			PSI Recorder No.	<u>13248</u>
(F) Second Final Flow Pressure			PSI (depth)	<u>4001</u>
(G) Final Shut-in Pressure			PSI Initial Opening	<u> </u>
(Q) Final Hydrostatic Mud	<u>1705</u>	<u>1706</u>	PSI Initial Shut-in	<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

Our Representative Dan Banke

T-On Location	<u> </u>
T-Started	<u>21:00</u>
T-Open	<u>23:20</u>
T-Pulled	<u>23:40</u>
T-Out	<u>00:45</u>
T-Off Location	<u> </u>
Test	<u>500</u>
Jars	<u> </u>
Safety Joint	<u> </u>
Straddle	<u>X 250</u>
Circ. Sub	<u> </u>
Sampler	<u> </u>
Extra Packer	<u>X shale 150</u>
Elec. Rec.	<u>X 150</u>
Mileage	<u> </u>
Other	<u> </u>
TOTAL PRICE \$	<u>1050</u>

TRILOBITE TESTING L.L.C.

OPERATOR : Denis F. Roberts

DATE 5-30-00

WELL NAME: Bodine #1

KB 2301.00 ft

TICKET NO: 13181

DST #4

LOCATION : 35-11-21 Trego co KS

GR 2293.00 ft

FORMATION: Topeka

INTERVAL : 3509.00 To 3545.00 ft

TD 4004.00 ft

TEST TYPE: CONV STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13248	13248	3024			PF Fr. 0250 to 0320 hr
SI 45 Range(Psi)	4250.0	4250.0	4995.0	0.0	0.0	IS Fr. 0320 to 0405 hr
SF 45 Clock(hrs)	12	12	elect			SF Fr. 0405 to 0450 hr
FS 60 Depth(ft)	4001.0	4001.0	3520.0	0.0	0.0	FS Fr. 0450 to 0550 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	1793.0	0.0	0.0	T STARTED 0133 hr
B. First Flow	0.0	0.0	39.0	0.0	0.0	T ON BOTM 0248 hr
B1. Final Flow	0.0	0.0	72.0	0.0	0.0	T OPEN 0250 hr
C. In Shut-in	0.0	0.0	1150.0	0.0	0.0	T PULLED 0550 hr
D. Init Flow	0.0	0.0	76.0	0.0	0.0	T OUT 0730 hr
E. Final Flow	0.0	0.0	121.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1118.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	1722.0	0.0	0.0	Tool Wt. 2900.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 57000.00 lbs
						Unseated Str Wt 57000.00 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 30.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 240.00 ft of 30.00 ft in DC and 210.00 ft in DP
 240.00 ft of Muddy water
 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
 0.00 ft of

SALINITY 48000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Weak-building to 10" fair blow.

Final Flow:

Weak- building to 1".

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.50 lb/cf
Vis.	51.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	113.00 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	Dan Bangle
Co. Rep.	Randy
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV STRADDLE

WELL NAME: Bodine #1

LOCATION : 35-11-21 Trego co KS

TICKET No. 13181 D.S.T. No. 4 DATE 5-30-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 36

TOTAL TOOL 56

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 7 Single Total 435

TOTAL ASSEMBLY 491

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

D.P. ABOVE TOOLS.Stands 58 Single Total 3559

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4024

TOTAL DEPTH 4004

TOTAL DRILL PIPE ABOVE K.B. 20

REMARKS:

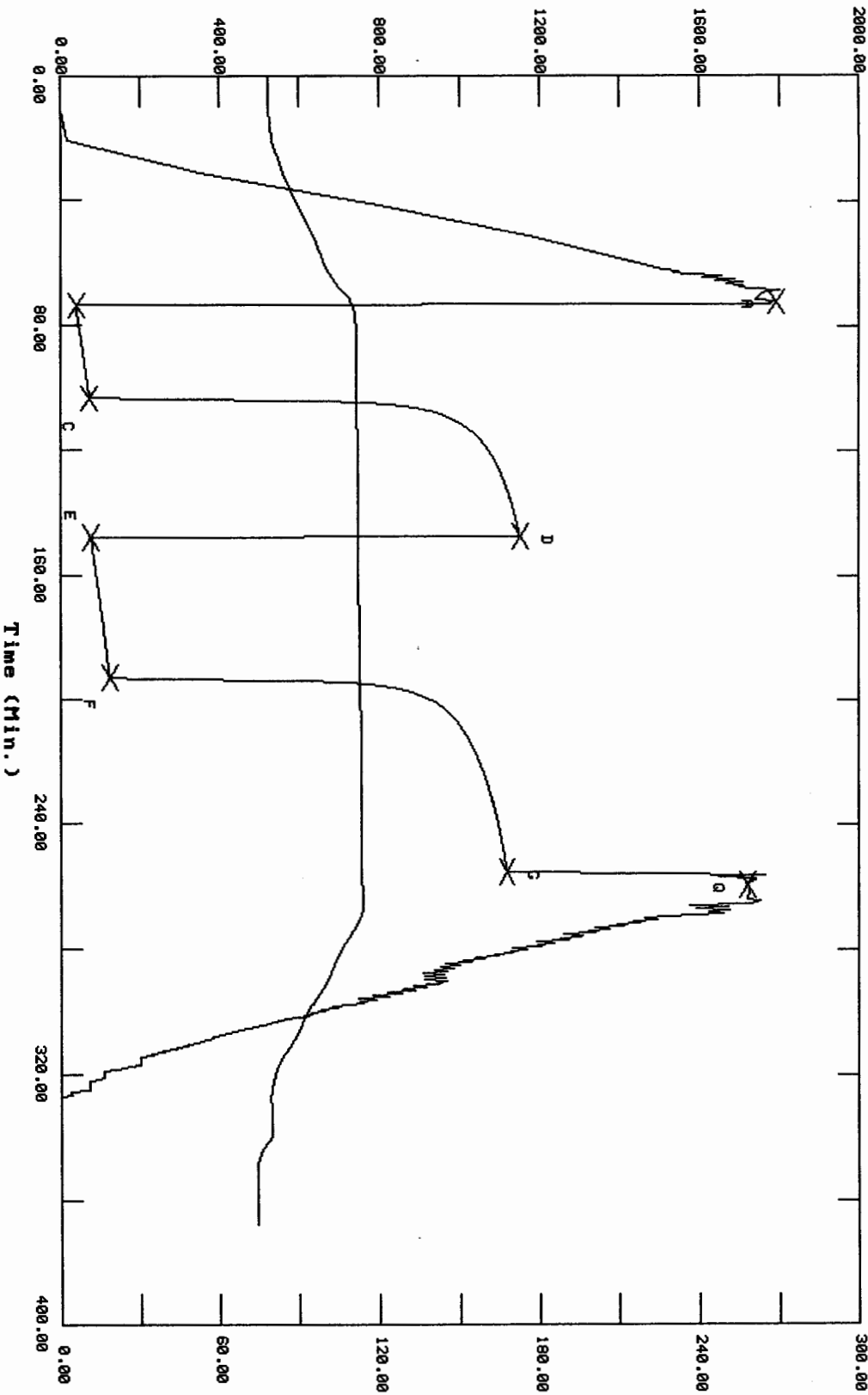
P.O. SUB	3369
C.O. SUB	3489
S.I. TOOL	3495
HMV	3500
JARS n/a	
SAFETY JOINT n/a	
PACKER	3504
PACKER	3509
DEPTH 3509	
1'	3510
ANCHOR 5' Perfs	3515
5' Perfs	3520
Alpine @ 3520	
5' Perfs	3525
5' Perfs	3530
5' Perfs	3535
5' Perfs	3540
1' blank off	3541
4'	3545
3545	
PACKER	3545
2' Perfs	3547
5' Perfs	3552
5' Perfs	3557
5' Perfs	3562
1' co sub	3563
7 stds dp	3998
2' Perfs	4001
AK-1 @ 4001	
BULLNOSE 3'	4004
T.D.	4004

TK# 13181 DST# 4 Bodine #1 Denis F. Roberts

TEST HISTORY

Flag Points

t(Min.)	P(PSig)
A: 0.00	1792.92
B: 0.00	39.12
C: 30.00	71.60
D: 44.00	1150.11
E: 0.00	76.29
F: 45.00	121.29
G: 62.00	1117.90
H: 0.00	1722.17

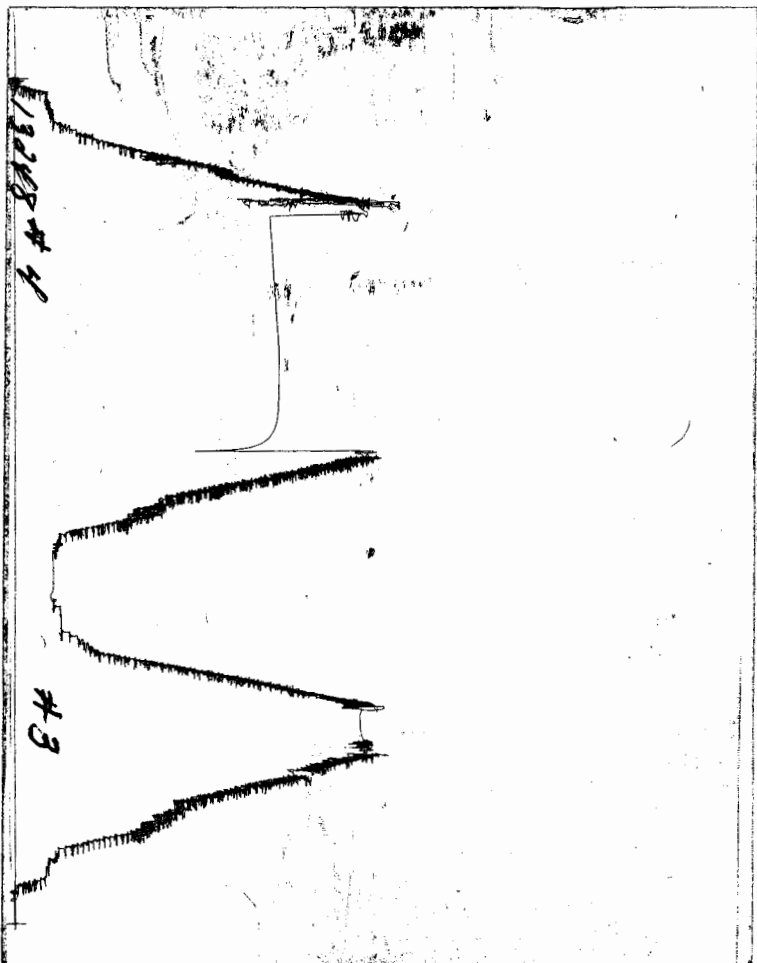


Pressure (PSig)

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

Nº 13181

Test Ticket

Well Name & No.	<u>Bodine #1</u>	Test No.	<u>4</u>	Date	<u>5-30-00</u>
Company	<u>Denis Roberts</u>	Zone Tested	<u>Topeka</u>		
Address		Elevation	<u>2301</u>	KB	<u>2299</u> GL
Co. Rep / Geo.	<u>Randy Kilian</u>	Cont.	<u>Discovery #1</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>35</u>	Twp.	<u>11</u>	Rge.	<u>21</u> Co. <u>Trego</u> State <u>Ks</u>
No. of Copies	<u>3</u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>3509 - 3545</u>	Initial Str Wt./Lbs.	<u>57000</u>	Unseated Str Wt./Lbs.	<u>57000</u>
Anchor Length	<u>36</u>	Wt. Set Lbs.	<u>70000</u>	Wt. Pulled Loose/Lbs.	<u>80000</u>
Top Packer Depth	<u>3509</u>	Tool Weight	<u>2900</u>		
Bottom Packer Depth	<u>3545</u>	Hole Size — 7 7/8"	<u> </u>	Rubber Size — 6 3/4"	<u> </u>
Total Depth	<u>4004</u>	Wt. Pipe Run	<u> </u>	Drill Collar Run	<u>30</u>
Mud Wt. <u>9.5</u> LCM <u> </u> Vis. <u>51</u> WL <u>8</u>		Drill Pipe Size	<u>4.5 X 4</u>	Ft. Run	<u> </u>
Blow Description	<u>I.F. Weak - building to 10" fair blow.</u>				

F.F. Weak - building to 1"

Recovery — Total Feet	<u>240</u>	GIP	<u> </u>	Ft. in DC	<u>30</u>	Ft. in DP	<u>210</u>
Rec. <u>240</u>	Feet Of	<u>Muddy WTA.</u>	%gas	%oil	%water	%mud	
Rec. <u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud	
Rec. <u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud	
Rec. <u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud	
Rec. <u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud	
BHT <u>113</u>	°F Gravity	<u> </u>	°API D@	<u> </u>	°F Corrected Gravity	<u> </u>	°API
RW <u>.14</u> @ <u>80</u>	°F Chlorides	<u>48000</u>	ppm Recovery	<u> </u>	Chlorides	<u>3800</u>	ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud	<u>1793</u>	PSI	Recorder No.	<u>3024</u>	T-On Location	<u> </u>	
(B) First Initial Flow Pressure	<u>39</u>	PSI	(depth)	<u>3520</u>	T-Started	<u>01:33</u>	
(C) First Final Flow Pressure	<u>72</u>	PSI	Recorder No.	<u>13254</u>	T-Open	<u>02:50</u>	
(D) Initial Shut-In Pressure	<u>1150</u>	PSI	(depth)	<u> </u>	T-Pulled	<u>05:50</u>	
(E) Second Initial Flow Pressure	<u>76</u>	PSI	Recorder No.	<u>13248</u>	T-Out	<u>07:30</u>	
(F) Second Final Flow Pressure	<u>121</u>	PSI	(depth)	<u>4001</u>	T-Off Location	<u> </u>	
(G) Final Shut-in Pressure	<u>1118</u>	PSI	Initial Opening	<u>30</u>	Test	<u>700</u>	
(Q) Final Hydrostatic Mud	<u>1722</u>	PSI	Initial Shut-in	<u>45</u>	Jars	<u> </u>	
			Final Flow	<u>45</u>	Safety Joint	<u> </u>	
			Final Shut-in	<u>60</u>	Straddle	<u>X</u> <u>250</u>	

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Approved By

Our Representative Dan Rangle

Extra Packer X Shale 150
Elec. Rec. X 150
Mileage
Other
TOTAL PRICE \$ 1250