

TRILOBITE TESTING L.L.C.

OPERATOR : Hutchinson Oil

DATE 5-19-99

WELL NAME: Copeland 1-11

KB 0.00 ft TICKET NO: 11322 DST #1
GR 1903.00 ft FORMATION: Herrington/Krider
TD 1869.00 ft TEST TYPE: CONV

LOCATION : 11-24s-13w Stafford co KS

INTERVAL : 1834.00 To 1869.00 ft

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084	24174			PF Fr. 0610 to 0640 hr
SI 45 Range (Psi)	4300.0	4300.0	3925.0	0.0	0.0	IS Fr. 0640 to 0725 hr
SF 30 Clock (hrs)	12	12	12			SF Fr. 0725 to 0755 hr
FS 45 Depth (ft)	1865.0	1865.0	1839.0	0.0	0.0	FS Fr. 0755 to 0840 hr

	Field	1	2	3	4	
A. Init Hydro	851.0	878.0	0.0	0.0	0.0	T STARTED 0520 hr
B. First Flow	22.0	29.0	0.0	0.0	0.0	T ON BOTM 0605 hr
Bl. Final Flow	33.0	43.0	0.0	0.0	0.0	T OPEN 0610 hr
C. In Shut-in	471.0	460.0	0.0	0.0	0.0	T PULLED 0840 hr
D. Init Flow	44.0	60.0	0.0	0.0	0.0	T OUT 0935 hr
E. Final Flow	55.0	66.0	0.0	0.0	0.0	
F. Fl Shut-in	417.0	413.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	840.0	855.0	0.0	0.0	0.0	Tool Wt. 1900.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 68000.00 lbs
						Initial Str Wt 54000.00 lbs
						Unseated Str Wt 55000.00 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 435.00 ft
						D.P. Length 1395.00 ft

RECOVERY

Tot Fluid 75.00 ft of 75.00 ft in DC and 0.00 ft in DP
485.00 ft of Gas in pipe
15.00 ft of Gassy mud 5% gas 95% mud
60.00 ft of Muddy water 60% water 40% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

SALINITY 67000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

1/2" blow building to bottom of
bucket in 28 mins.

Final Flow:

1/2" blow building to 6"

SAMPLES:

SENT TO:

MUD DATA-----

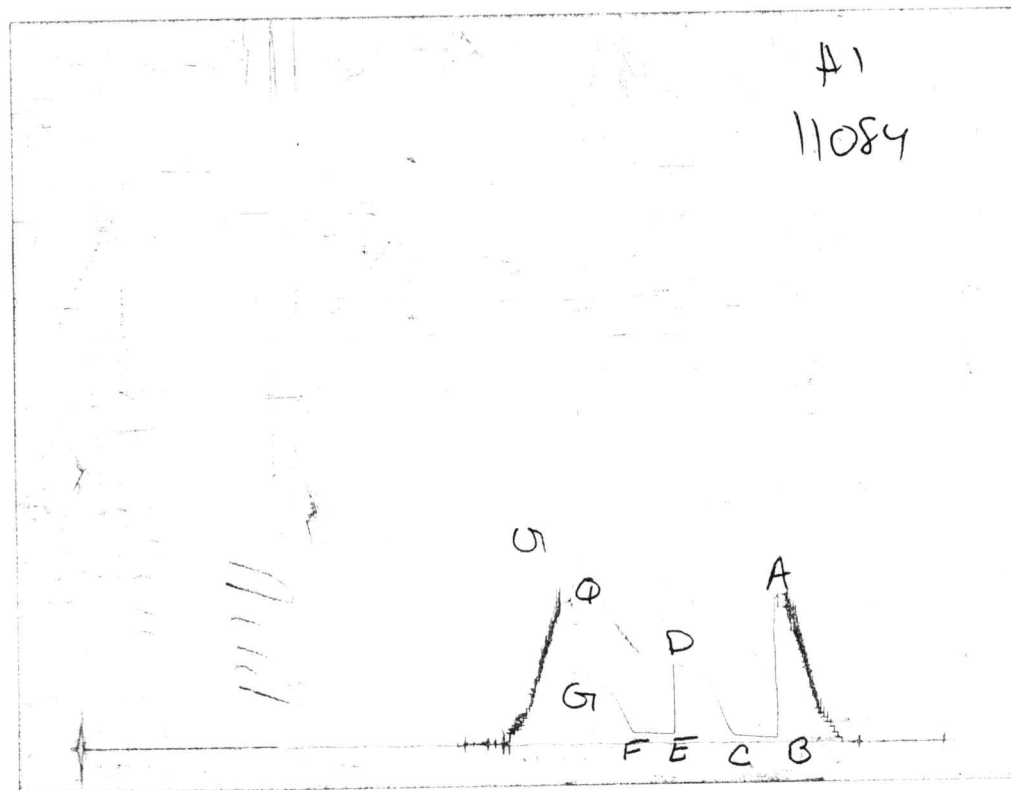
Mud Type	Chemical
Weight	9.40 lb/cf
Vis.	42.00 S/L
W.L.	0.00 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	83.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00

Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Jeff Burk
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Hutchinson Oil
WELL NAME: Copeland 1-11
LOCATION : 11-24s-13w Stafford co KS
INTERVAL : 3557.00 To 3610.00 ft

DATE 5-21-99
KB 1912.00 ft
GR 1903.00 ft
TD 3610.00 ft

TICKET NO: 11323
FORMATION: LKC B-C-D
TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084	24174			PF Fr. 2214 to 2244 hr
SI 45 Range(Psi)	4300.0	4300.0	3925.0	0.0	0.0	IS Fr. 2244 to 2329 hr
SF 60 Clock(hrs)	12	12	12			SF Fr. 2329 to 0029 hr
FS 90 Depth(ft)	3562.0	3562.0	3605.0	0.0	0.0	FS Fr. 0029 to 0159 hr

	Field	1	2	3	4	
A. Init Hydro	1810.0	1714.0	0.0	0.0	0.0	T STARTED 2046 hr
B. First Flow	66.0	83.0	0.0	0.0	0.0	T ON BOTM 2210 hr
B1. Final Flow	77.0	83.0	0.0	0.0	0.0	T OPEN 2214 hr
C. In Shut-in	1164.0	1169.0	0.0	0.0	0.0	T PULLED 0159 hr
D. Init Flow	99.0	108.0	0.0	0.0	0.0	T OUT 0342 hr
E. Final Flow	110.0	126.0	0.0	0.0	0.0	
F. Fl Shut-in	1196.0	1200.0	0.0	0.0	0.0	
G. Final Hydro	1778.0	1771.0	0.0	0.0	0.0	
Inside/Outside	O	O	I			

RECOVERY

Tot Fluid 115.00 ft of 115.00 ft in DC and 0.00 ft in DP
185.00 ft of Gas in pipe
115.00 ft of Gassy oil specked mud 3% gas 3% oil 94% 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

TOOL DATA-----

Tool Wt.	2400.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	74000.00 lbs
Initial Str Wt	70000.00 lbs
Unseated Str Wt	70000.00 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	435.00 ft
D.P. Length	3131.00 ft

BLOW DESCRIPTION

Initial Flow:
Weak 1/2" blow building to 6"
Final Flow:
Surface blow building to 3"

MUD DATA-----

Mud Type	Chemical
Weight	8.80 lb/cf
Vis.	46.00 S/L
W.L.	11.20 in3
F.C.	0.00 in
Mud Drop	

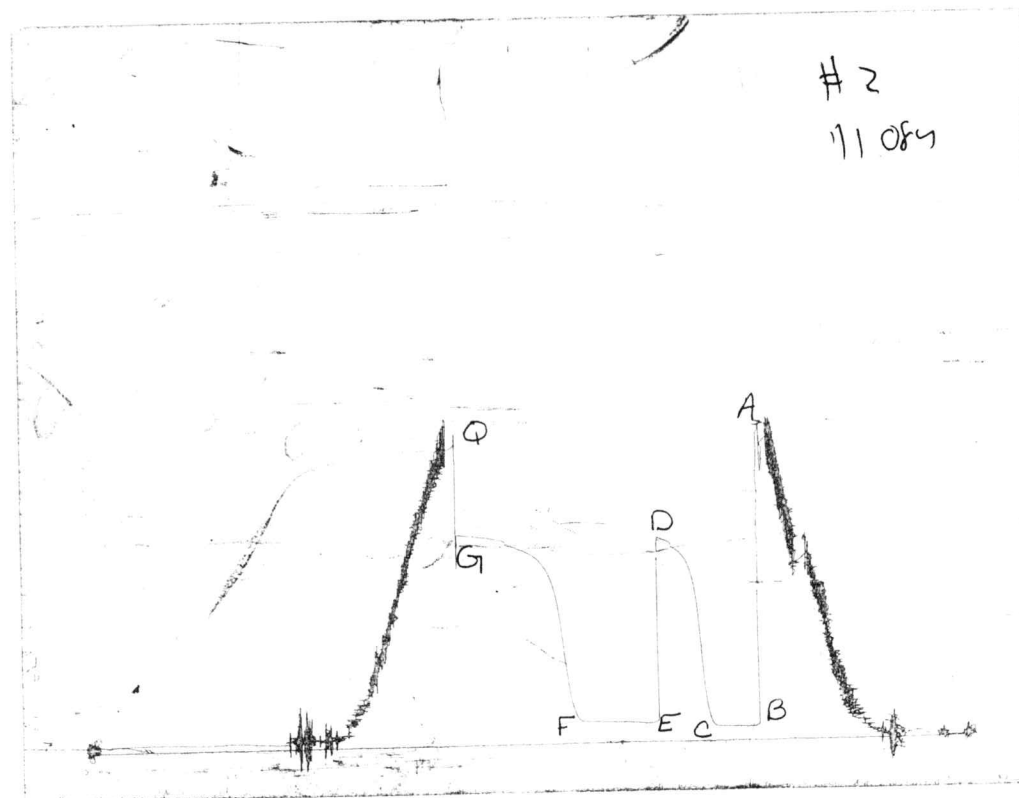
Amt. of fill	0.00 ft
Btm. H. Temp.	109.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Jeff Burke
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Hutchinson Oil

DATE 5-22-99

WELL NAME: Copeland 1-11

KB 1912.00 ft

TICKET NO: 11324

DST #3

LOCATION : 11-24s-13w Stafford co KS

GR 1903.00 ft

FORMATION: LKC L

INTERVAL : 3764.00 To 3786.00 ft

TD 3786.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084	13308			PF Fr. 1551 to 1621 hr
SI 45 Range(Psi)	4300.0	4300.0	4700.0	0.0	0.0	IS Fr. 1621 to 1706 hr
SF 60 Clock(hrs)	12	12	12			SF Fr. 1706 to 1806 hr
FS 60 Depth(ft)	3781.0	3781.0	3768.0	0.0	0.0	FS Fr. 1806 to 1906 hr

	Field	1	2	3	4	
A. Init Hydro	1896.0	1873.0	0.0	0.0	0.0	T STARTED 1440 hr
B. First Flow	33.0	39.0	0.0	0.0	0.0	T ON BOTM 1545 hr
B1. Final Flow	110.0	108.0	0.0	0.0	0.0	T OPEN 1551 hr
C. In Shut-in	883.0	885.0	0.0	0.0	0.0	T PULLED 1906 hr
D. Init Flow	143.0	157.0	0.0	0.0	0.0	T OUT 2245 hr
E. Final Flow	230.0	241.0	0.0	0.0	0.0	
F. Fl Shut-in	851.0	866.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1875.0	1864.0	0.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 72000.00 lbs
						Unseated Str Wt 72000.00 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 435.00 ft
						D.P. Length 3319.00 ft

RECOVERY

Tot Fluid 440.00 ft of 435.00 ft in DC and 5.00 ft in DP
 5.00 ft of Slight oil cut mud 2% oil 98% mud
 435.00 ft of Gassy water 90% water 10% 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 55000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

1/2" blow building to 9"

Initial Shut-in:

No blow

Final Flow:

Surface blow building to 7"

Final Shut-in:

No blow

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/cf
Vis.	47.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	116.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	

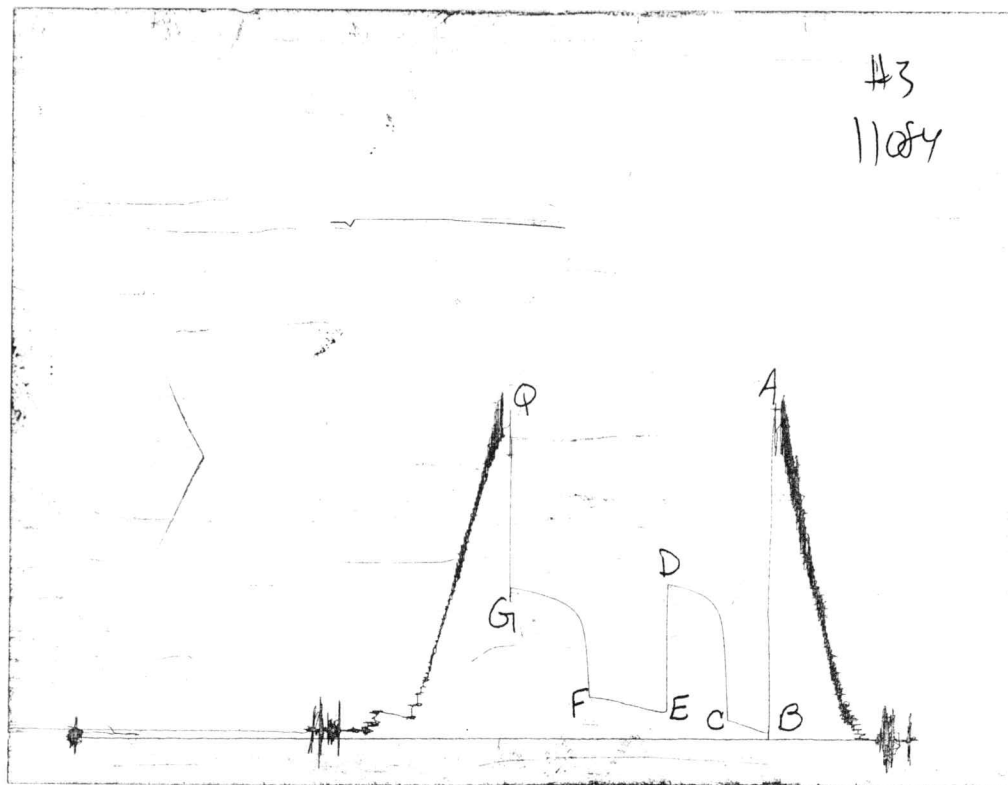
SAMPLES:

SENT TO:

Tester	Paul Simpson
Co. Rep.	Jeff Burke
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Hutchinson Oil

DATE 5-23-99

WELL NAME: Copeland 1-11

KB 1912.00 ft

TICKET NO: 11325

DST #4

LOCATION : 11-24s-13w Stafford co KS

GR 1903.00 ft

FORMATION: Viola

INTERVAL : 3857.00 To 3930.00 ft

TD 3930.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084	13308			PF Fr. 1259 to 1329 hr
SI 45 Range(Psi)	4300.0	4300.0	4700.0	0.0	0.0	IS Fr. 1329 to 1414 hr
SF 30 Clock(hrs)	12	12	12			SF Fr. 1414 to 1444 hr
FS 45 Depth(ft)	3925.0	3925.0	3800.0	0.0	0.0	FS Fr. 1444 to 1529 hr

	Field	1	2	3	4	
A. Init Hydro	2090.0	2090.0	0.0	0.0	0.0	T STARTED 1142 hr
B. First Flow	208.0	241.0	0.0	0.0	0.0	T ON BOTM 1255 hr
B1. Final Flow	208.0	241.0	0.0	0.0	0.0	T OPEN 1259 hr
C. In Shut-in	515.0	530.0	0.0	0.0	0.0	T PULLED 1529 hr
D. Init Flow	274.0	296.0	0.0	0.0	0.0	T OUT 1649 hr
E. Final Flow	274.0	296.0	0.0	0.0	0.0	
F. Fl Shut-in	329.0	340.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2015.0	2005.0	0.0	0.0	0.0	Tool Wt. 3100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 74000.00 lbs
						Initial Str Wt 74000.00 lbs
						Unseated Str Wt 74000.00 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 435.00 ft
						D.P. Length 3412.00 ft

RECOVERY

Tot Fluid 3.00 ft of 3.00 ft in DC and 0.00 ft in DP

3.00 ft of Heavy 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:

1/4" blow died in 38 mins.

Final Flow:

No blow

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	5.20 S/L
W.L.	12.00 in3
F.C.	0.00 in
Mud Drop	

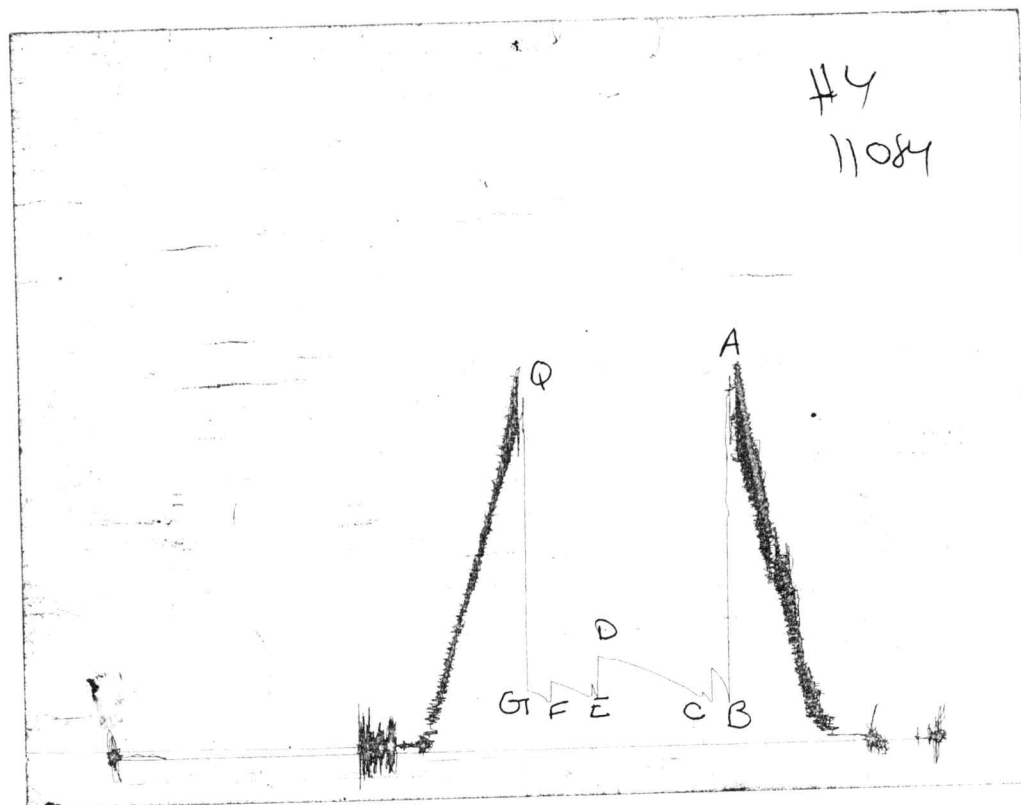
Amt. of fill	0.00 ft
Btm. H. Temp.	115.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Jeff Burke
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Hutchinson Oil

DATE 5-24-99

WELL NAME: Copeland 1-11

KB 1912.00 ft TICKET NO: 11876 DST #5

LOCATION : 11-24s-13w Stafford co KS

GR 1903.00 ft FORMATION: Arbuckle

INTERVAL : 3990.00 To 4061.00 ft

TD 4061.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084	13308			PF Fr. 0540 to 0610 hr
SI 45 Range (Psi)	4300.0	4300.0	4700.0	0.0	0.0	IS Fr. 0610 to 0655 hr
SF 30 Clock (hrs)	12	12	12			SF Fr. 0655 to 0725 hr
FS 45 Depth (ft)	4056.0	4056.0	3996.0	0.0	0.0	FS Fr. 0725 to 0810 hr

	Field	1	2	3	4	
A. Init Hydro	2123.0	2114.0	0.0	0.0	0.0	T STARTED 0425 hr
B. First Flow	77.0	98.0	0.0	0.0	0.0	T ON BOTM 0535 hr
B1. Final Flow	153.0	165.0	0.0	0.0	0.0	T OPEN 0540 hr
C. In Shut-in	1401.0	1412.0	0.0	0.0	0.0	T PULLED 0755 hr
D. Init Flow	153.0	144.0	0.0	0.0	0.0	T OUT 0945 hr
E. Final Flow	153.0	144.0	0.0	0.0	0.0	
F. Fl Shut-in	1390.0	1398.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2015.0	2010.0	0.0	0.0	0.0	Tool Wt. 2400.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 82000.00 lbs
						Initial Str Wt 74000.00 lbs
						Unseated Str Wt 74000.00 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 435.00 ft
						D.P. Length 3507.00 ft

RECOVERY

Tot Fluid 120.00 ft of 120.00 ft in DC and 0.00 ft in DP
 120.00 ft of Slightly water heavy 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:

Surface blow building to 2"

Final Flow:

1/2" blow building to 2 1/2"

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	60.00 S/L
W.L.	12.00 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	116.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	

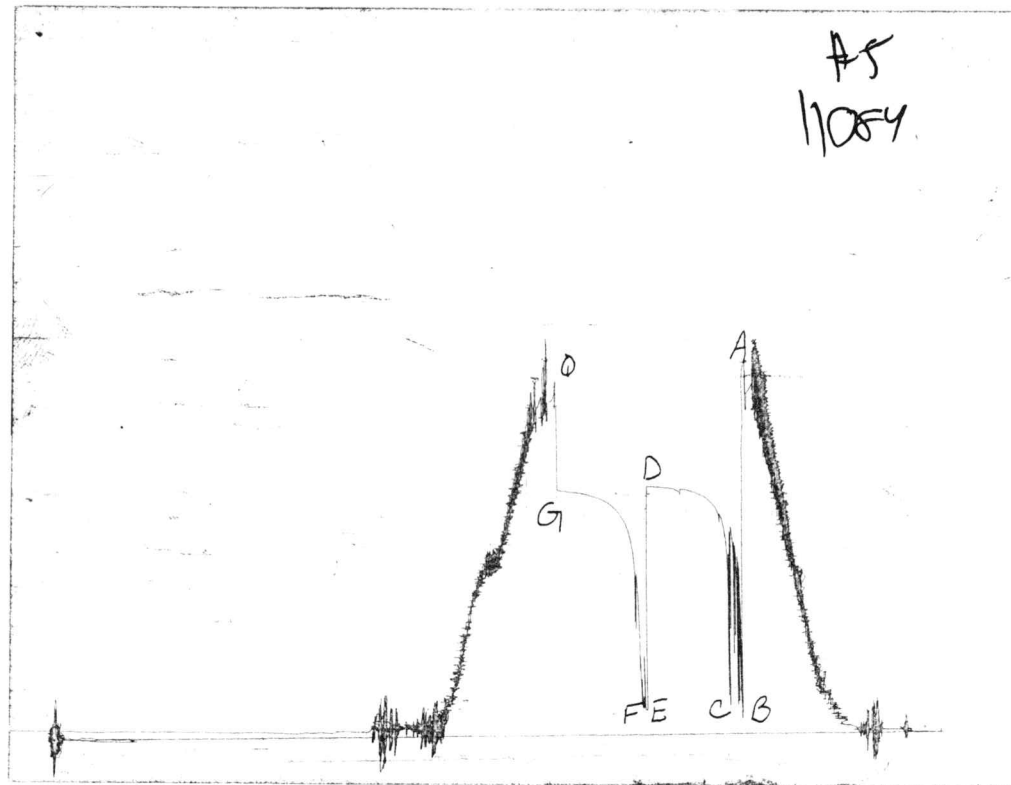
SAMPLES:

SENT TO:

Tester	Paul Simpson
Co. Rep.	Jeff Burke
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



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