WELL NAME:	MLP Schnellbacher #2-4
COMPANY:	Chesapeake Energy
LOCATION:	4-30S-34W
	Haskell County, Kansas
DATE:	4/7/98

TRILOBITE TESTING L.L.C.

OPERATOR : Chesapeake Energy
WELL NAME: MLP Schnellbacher #2-4
LOCATION : 4-30S-34W Haskell Ks
INTERVAL : 4164.00 To 4192.00 ft

DATE 3-30-98
KB 2989.00 ft
GR 2970.00 ft
TD 4192.00 ft

TICKET NO: 10905 DST #1
FORMATION: Lansing B
TEST TYPE: CONVENTIONAL

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	10993	10993	3227		
SI	60	Range(Psi)	4250.0	4250.0	4995.0	0.0	0.0
SF	45	Clock(hrs)	12hr	12hr	elect		
FS	90	Depth(ft)	4188.0	4188.0	4173.0	0.0	0.0

TIME DATA----------
PF Fr. 1117 to 1147 hr
IS Fr. 1147 to 1247 hr
SF Fr. 1247 to 1332 hr
FS Fr. 1332 to 1502 hr

	Field	1	2	3	4
A. Init Hydro	0.0	0.0	1987.0	0.0	0.0
B. First Flow	0.0	0.0	38.0	0.0	0.0
B1. Final Flow	0.0	0.0	273.0	0.0	0.0
C. In Shut-in	0.0	0.0	1284.0	0.0	0.0
D. Init Flow	0.0	0.0	275.0	0.0	0.0
E. Final Flow	0.0	0.0	499.0	0.0	0.0
F. Fl Shut-in	0.0	0.0	1284.0	0.0	0.0
G. Final Hydro	0.0	0.0	1932.0	0.0	0.0
Inside/Outside		O	O	I	

T STARTED 0900 hr
T ON BOTM 1115 hr
T OPEN 1117 hr
T PULLED 1502 hr
T OUT 1730 hr

RECOVERY
Tot Fluid 1100.00 ft of 210.00 ft in DC and 890.00 ft in DP
100.00 ft of Watery Mud 40%Water 60%Mud
450.00 ft of Slighty muddy water 90%Water 10%Mud
550.00 ft of water
0.00 ft of
0.00 ft of
0.00 ft of RW .305 55 Deg.
0.00 ft of
0.00 ft of
SALINITY 30000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	1800.00 lbs
Wt Set On Packer	28000.00 lbs
Wt Pulled Loose	90000.00 lbs
Initial Str Wt	62000.00 lbs
Unseated Str Wt	70000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	210.00 ft
D.P. Length	3942.00 ft

BLOW DESCRIPTION
Initial Flow:
Stronb blow bottom of bucket in 10 mins.
Initial Shut-in:
Bled off 2", no blow back
Final Flow:
Opening strong blow bottom of bucket in 9 mins.
Final Shut-in:
Bled off 2", no blow back

MUD DATA----------

Mud Type	Chemical
Weight	8.90 lb/c
Vis.	40.00 S/L
W.L.	11.00 in3
F.C.	0.00 in
Mud Drop Y	20.0 ft
Amt. of fill	3.00 ft
Btm. H. Temp.	111.00 F
Hole Condition	good
% Porosity	26.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Mike & Scott
Co. Rep.	Doug Davis
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

ELL NAME: MLP Schnellbacher #2-4

OCATION : 4-30S-34W Haskell Ks

ICKET No. 10905 D.S.T. No. 1 DATE 3-30-98

OTAL TOOL TO BOTTOM OF TOP PACKERS 27

NTERVAL TOOL .....

OTTOM PACKERS AND ANCHOR 28

OTAL TOOL 55

RILL COLLAR ANCHOR IN INTERVAL .....

.C. ANCHOR STND.Stands Single Total

.P. ANCHOR STND.Stands Single Total

OTAL ASSEMBLY .....

.C. ABOVE TOOLS.Stands3 Single 1 Total 210

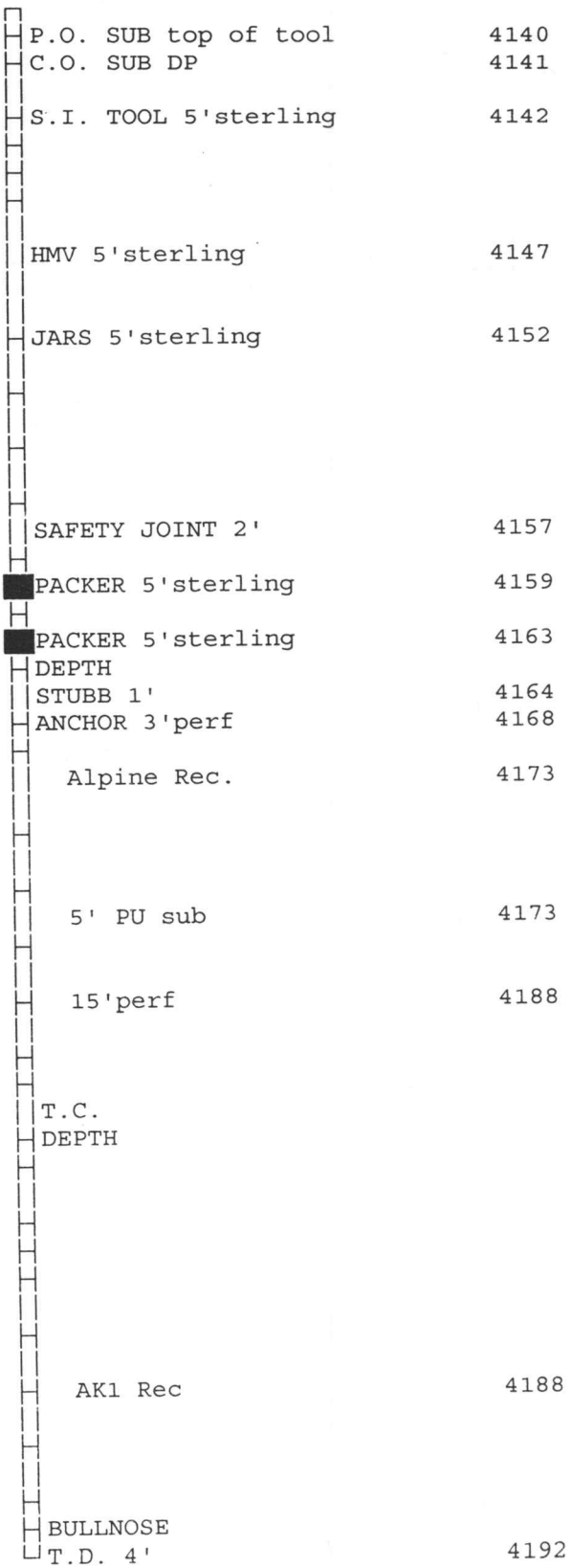
.P. ABOVE TOOLS.Stands65 Single 1 Total 3942

OTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4207

OTAL DEPTH 4192

OTAL DRILL PIPE ABOVE K.B. 15

EMARKS:



TEST HISTORY

10905 DST #1 MLP Schnellbacher #2-4 Chesapeake Energy

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1987.27
B:	0.00	38.44
C:	29.75	273.58
D:	59.75	1284.71
E:	0.00	275.32
F:	45.25	499.56
G:	89.75	1284.93
Q:	0.00	1932.39

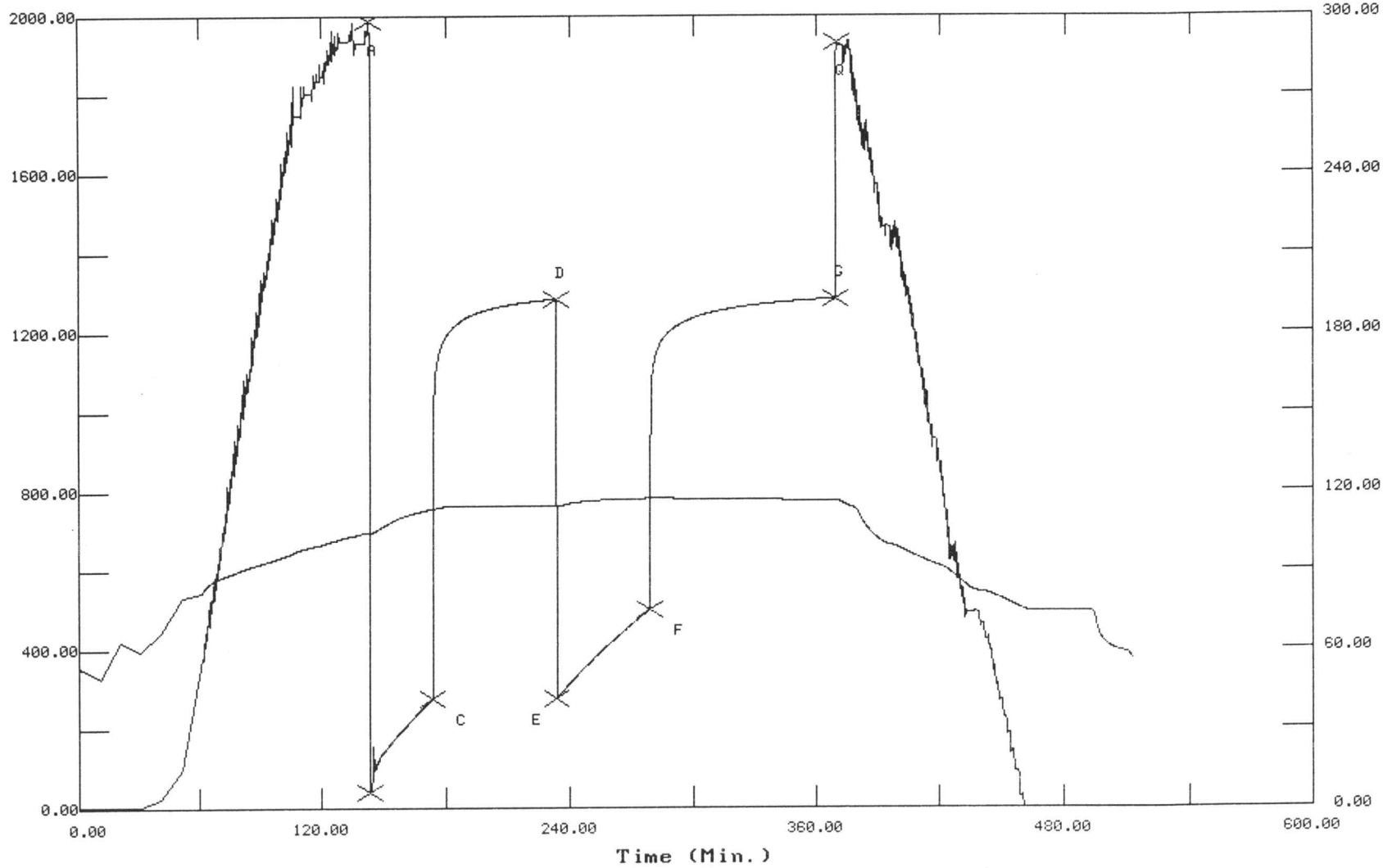
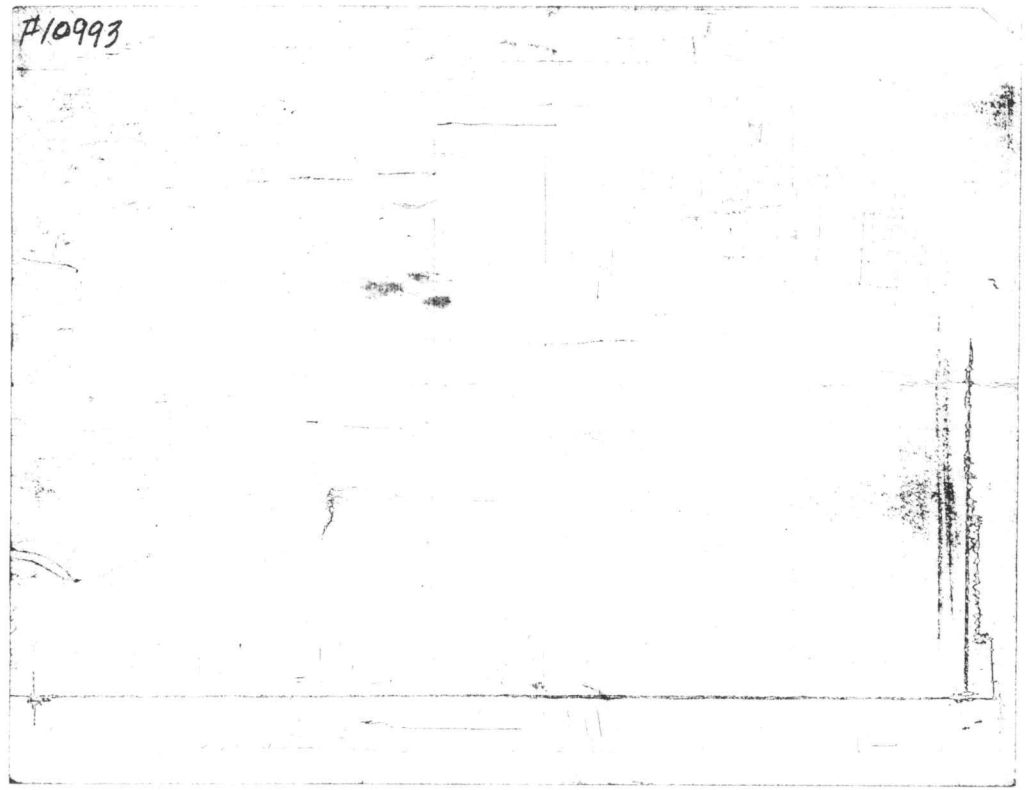


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Chesapeake Energy — DATE 3-31-98
WELL NAME: MLP Schnellbacher #2-4 — KB 2989.00 ft — TICKET NO: 10906 DST #2
LOCATION : 4-30S-34W Haskell Ks — GR 2970.00 ft — FORMATION: Kansas City "A"
INTERVAL : 4554.00 To 4610.00 ft — TD 4610.00 ft — TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10993	10993	3227		
SI 60	Range(Psi)	4250.0	4250.0	4995.0	0.0	0.0
SF 45	Clock(hrs)	12hr.	12HR.	Elet.		
FS 90	Depth(ft)	4606.0	4606.0	4556.0	0.0	0.0

TIME DATA----------
PF Fr. 1604 to 1634 hr
IS Fr. 1634 to 1734 hr
SF Fr. 1734 to 1819 hr
FS Fr. 1819 to 1949 hr

	Field	1	2	3	4
A. Init Hydro	2207.0	2176.0	2207.0	0.0	0.0
B. First Flow	108.0	96.0	31.0	0.0	0.0
B1. Final Flow	119.0	113.0	86.0	0.0	0.0
C. In Shut-in	1242.0	1231.0	1237.0	0.0	0.0
D. Init Flow	163.0	153.0	95.0	0.0	0.0
E. Final Flow	173.0	162.0	131.0	0.0	0.0
F. Fl Shut-in	1242.0	1241.0	1238.0	0.0	0.0
G. Final Hydro	2111.0	2111.0	2152.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1430 hr
T ON BOTM 1602 hr
T OPEN 1604 hr
T PULLED 1949 hr
T OUT 2200 hr

TOOL DATA----------

Tool Wt.	1800.00 lbs
Wt Set On Packer	25000.00 lbs
Wt Pulled Loose	95000.00 lbs
Initial Str Wt	70000.00 lbs
Unseated Str Wt	72000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	210.00 ft
D.P. Length	4355.00 ft

RECOVERY
Tot Fluid 240.00 ft of 210.00 ft in DC and 40.00 ft in DP
60.00 ft of Gas in pipe
60.00 ft of Slight oil and gas cut mud
0.00 ft of 5% Gas 5% Oil 90% Mud
60.00 ft of Slight oil gas and water mud mud
0.00 ft of 12% gas 3% oil 15% water 70% mud
120.00 ft of Muddy water 85% water 15% mud
0.00 ft of .255Res 62 Deg.
0.00 ft of
SALINITY 32000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA----------

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	47.00 S/L
W.L.	9.20 in3
F.C.	0.00 in
Mud Drop Y	50.0 ft
Amt. of fill	2.00 ft
Btm. H. Temp.	116.00 F
Hole Condition	Good
% Porosity	25.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Mike Colantonio
Co. Rep.	Doug Davis
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
Opening slow building blow built to 5"
Initial Shut-in:
Bled off 2" no blow back
Final Flow:
Opening weak blow built to 2.5"
Final Shut-in:
No blow back

SAMPLES: NO.
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: MLP Schnellbacher #2-4

LOCATION : 4-30S-34W Haskell Ks

TICKET No. 10906 D.S.T. No. 2 DATE 3-31-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 26

TOTAL TOOL 56

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 30

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands3 Single 1 Total 210

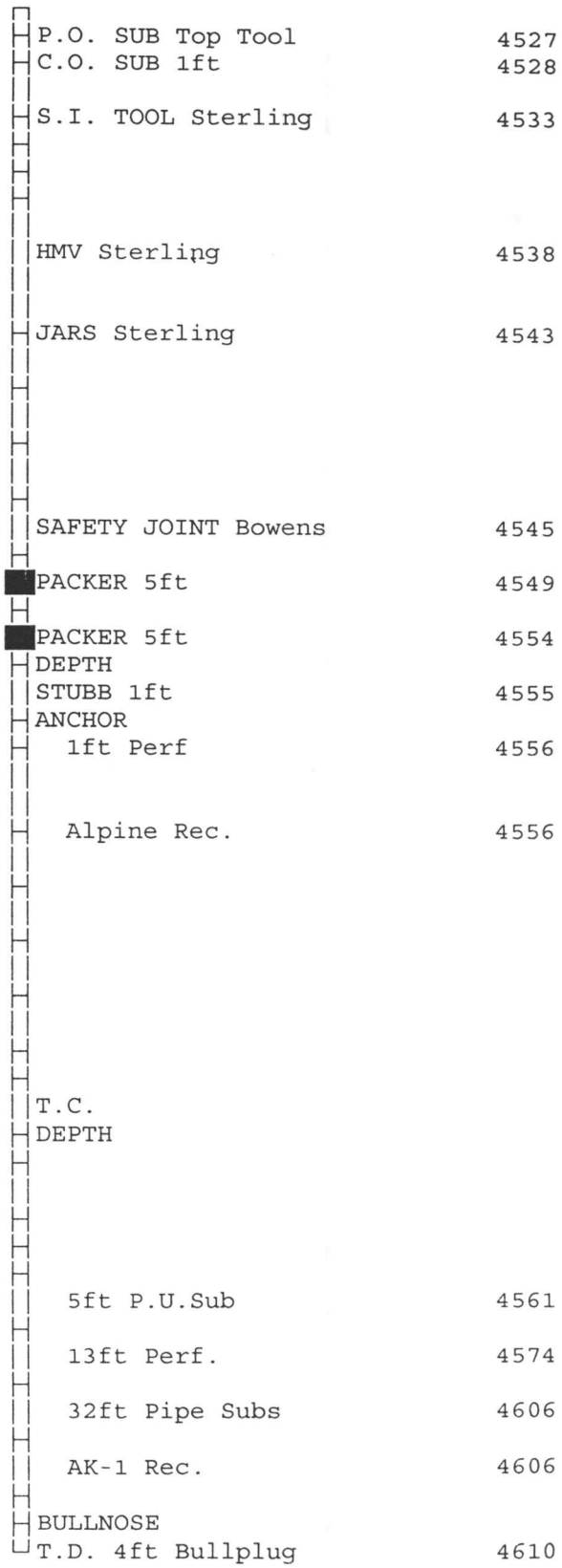
D.P. ABOVE TOOLS.Stands67 Single Total 4325

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4621

TOTAL DEPTH 4610

TOTAL DRILL PIPE ABOVE K.B. 11

REMARKS:



TEST HISTORY

10906 DST#2 MLP Schnellbacher #2-4 Chesapeake Energy.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2207.93
B:	0.00	31.01
C:	30.50	86.60
D:	60.00	1237.97
E:	0.00	95.81
F:	46.00	131.80
G:	87.25	1238.35
Q:	0.00	2152.83

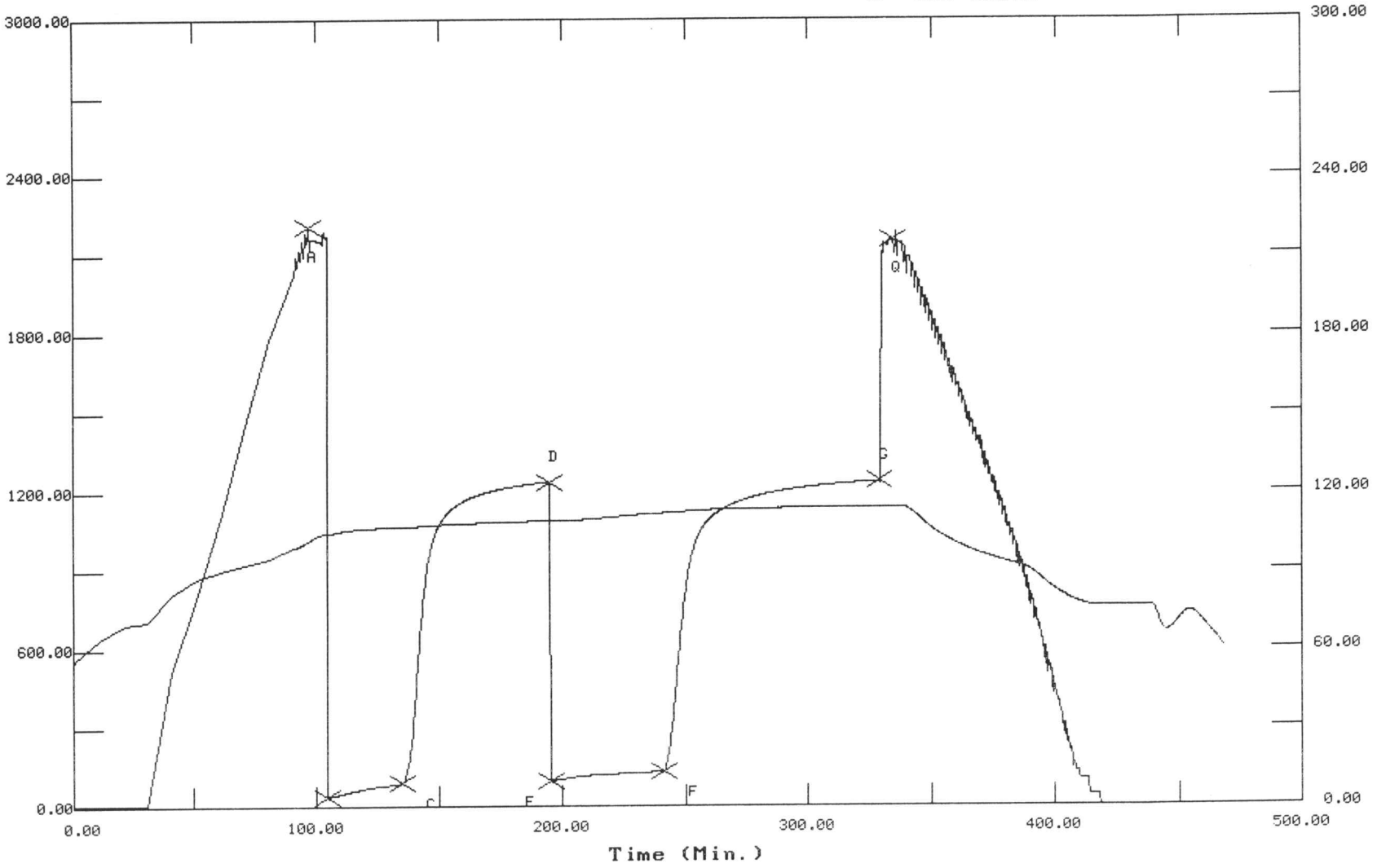
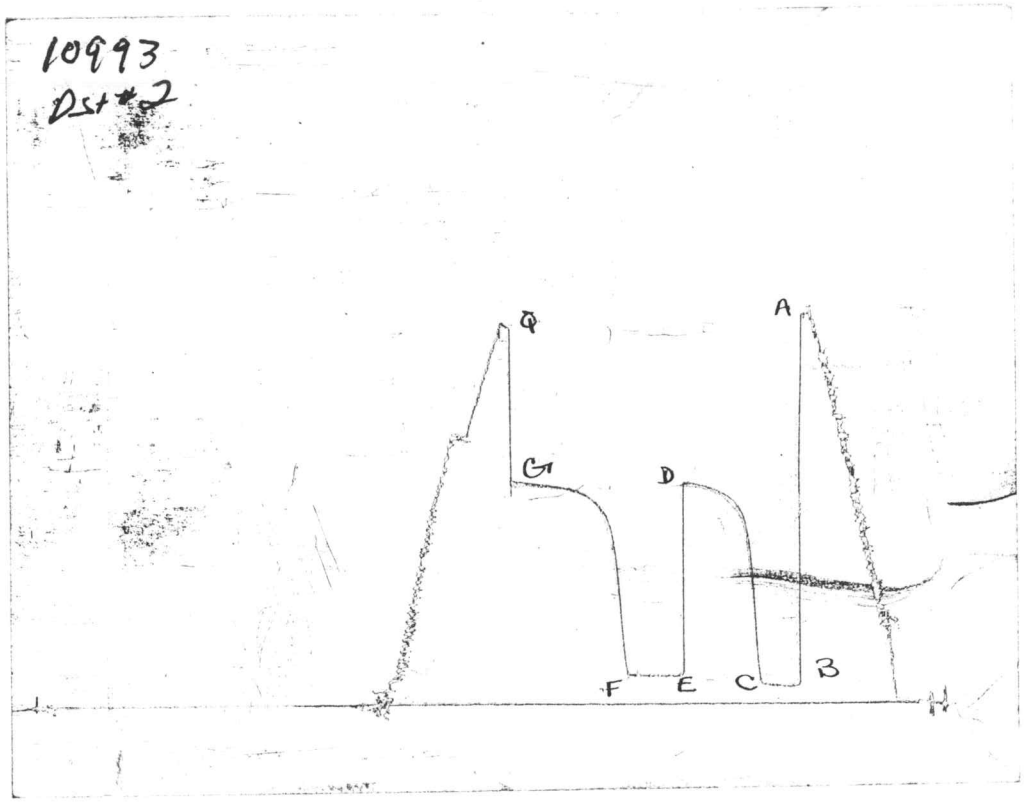


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Chesapeke
WELL NAME: MLP Schnellbacher #2-4
LOCATION : 4-30S-34W Haskell KS
INTERVAL : 52070.00 To 5289.00 ft

DATE 4-2-98
KB 2989.00 ft
GR 2970.00 ft
TD 5289.00 ft

TICKET NO: 10907 DST #3
FORMATION: morrow
TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10993	10993	3227		
SI 60	Range(Psi)	4250.0	4250.0	4995.0	0.0	0.0
SF 45	Clock(hrs)	12hr	12hr	elect		
FS 90	Depth(ft)	5285.0	5285.0	5209.0	0.0	0.0

TIME DATA----------
PF Fr. 1157 to 1227 hr
IS Fr. 1227 to 0127 hr
SF Fr. 0127 to 0212 hr
FS Fr. 0212 to 0342 hr

	Field	1	2	3	4
A. Init Hydro	2591.0	2593.0	25445.0	0.0	0.0
B. First Flow	97.0	95.0	24.0	0.0	0.0
B1. Final Flow	108.0	95.0	27.0	0.0	0.0
C. In Shut-in	130.0	133.0	102.0	0.0	0.0
D. Init Flow	97.0	93.0	27.0	0.0	0.0
E. Final Flow	97.0	102.0	37.0	0.0	0.0
F. Fl Shut-in	120.0	126.0	79.0	0.0	0.0
G. Final Hydro	2538.0	2559.0	2515.0	0.0	0.0
Inside/Outside		O	O	I	

T STARTED 0945 hr
T ON BOTM 1155 hr
T OPEN 1157 hr
T PULLED 0342 hr
T OUT 0615 hr

TOOL DATA----------

Tool Wt.	1800.00 lbs
Wt Set On Packer	24000.00 lbs
Wt Pulled Loose	85000.00 lbs
Initial Str Wt	74000.00 lbs
Unseated Str Wt	74000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.38 in
D.C. Length	252.00 ft
D.P. Length	4928.00 ft

RECOVERY
Tot Fluid 1.00 ft of 1.00 ft in DC and 0.00 ft in DP
1.00 ft of Mud 100%
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:
Very weak blow built to 1/2"
Initial Shut-in:
No blow back
Final Flow:
Very weak blow built to 3/4"
Final Shut-in:
No blow back

MUD DATA----------

Mud Type	chemical
Weight	9.20 lb/c
Vis.	49.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop Y	40.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	122.00 F
Hole Condition	good
% Porosity	25.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Mike & Scott
Co. Rep.	Doug Davis
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: MLP Schnellbacher #2-4

LOCATION : 4-30S-34W Haskell KS

TICKET No. 10907 D.S.T. No. 3 DATE 4-2-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 20

TOTAL TOOL 47

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 109

D.C. ABOVE TOOLS.Stands3 Single 1 Total 210

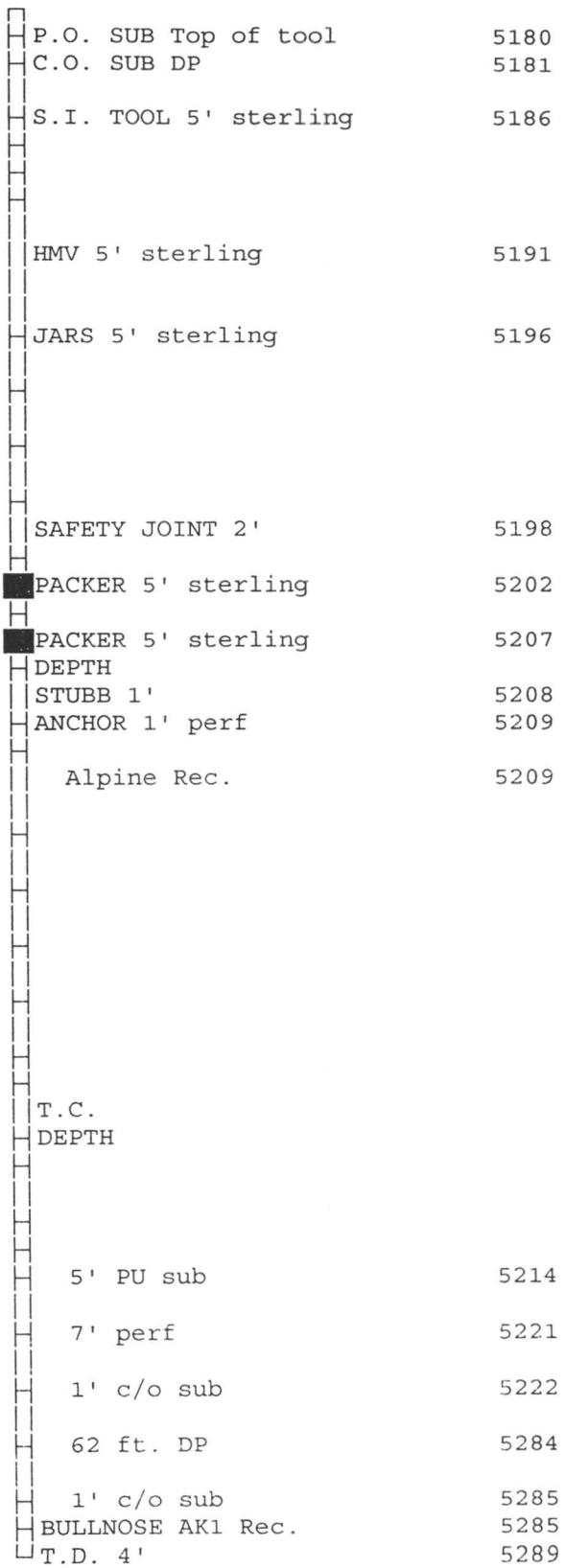
D.P. ABOVE TOOLS.Stands80 Single Total 4980

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5299

TOTAL DEPTH 5289

TOTAL DRILL PIPE ABOVE K.B. 10

REMARKS:



TEST HISTORY

10907 DST#3 MLP Schnellbacher #2-4 Chesapeake Energy

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2544.67
B:	0.00	24.94
C:	29.75	27.70
D:	59.50	102.08
E:	0.00	27.30
F:	42.50	37.43
G:	92.50	79.35
Q:	0.00	2515.49

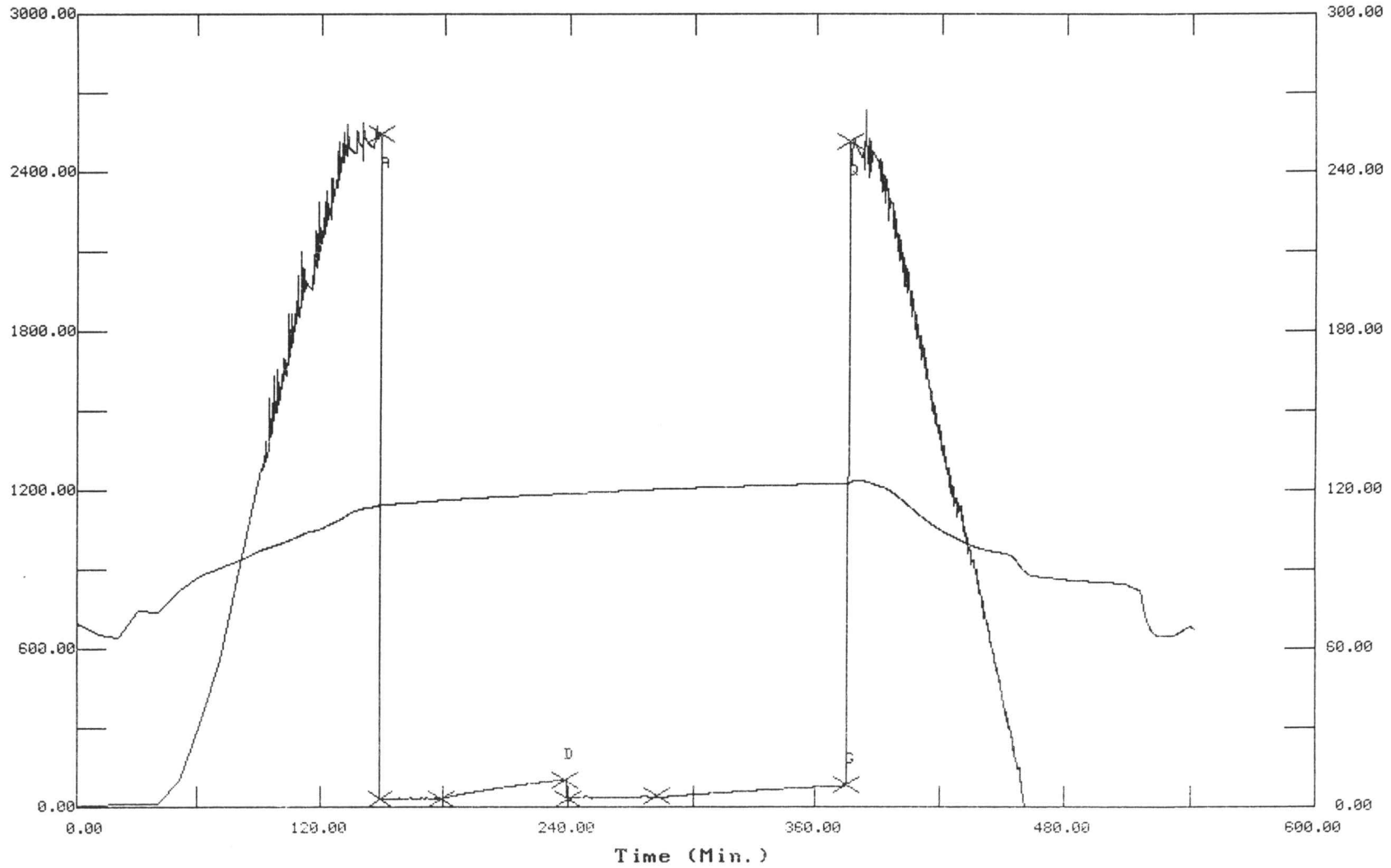
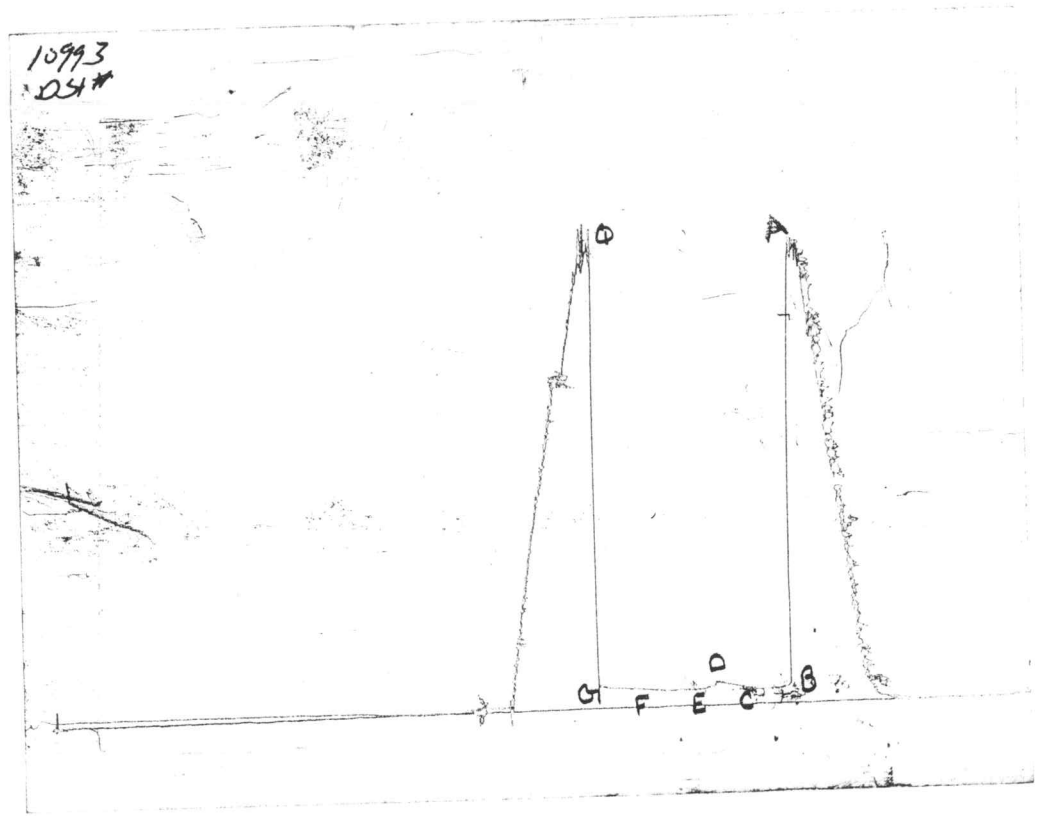


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Chesapeake Energy DATE 4-3-98
WELL NAME: MLP Schnellbacher #2-4 KB 2989.00 ft TICKET NO: 10908 DST #4
LOCATION : 4-30s-34w Haskell Ks GR 2970.00 ft FORMATION: Morrow LS
INTERVAL : 5202.00 To 5348.00 ft TD 5348.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10993	10993	3227		
SI 60	Range(Psi)	4250.0	4250.0	4995.0	0.0	0.0
SF 45	Clock(hrs)	18hr	18hr	elect		
FS 90	Depth(ft)	5348.0	5348.0	5204.0	0.0	0.0

TIME DATA----------
PF Fr. 1810 to 1840 hr
IS Fr. 1840 to 1940 hr
SF Fr. 1940 to 2025 hr
FS Fr. 2025 to 2155 hr

	Field	1	2	3	4
A. Init Hydro	2654.0	2648.0	2480.0	0.0	0.0
B. First Flow	974.0	975.0	846.0	0.0	0.0
B1. Final Flow	995.0	1012.0	933.0	0.0	0.0
C. In Shut-in	1478.0	1485.0	1461.0	0.0	0.0
D. Init Flow	898.0	907.0	799.0	0.0	0.0
E. Final Flow	931.0	928.0	851.0	0.0	0.0
F. Fl Shut-in	1467.0	1467.0	1447.0	0.0	0.0
G. Final Hydro	2591.0	2586.0	2410.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0430 hr
T ON BOTM 1628 hr
T OPEN 1630 hr
T PULLED 2155 hr
T OUT 0000 hr

RECOVERY
Tot Fluid 270.00 ft of 210.00 ft in DC and 60.00 ft in DP
270.00 ft of Mud 100%
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

TOOL DATA----------

Tool Wt.	1800.00 lbs
Wt Set On Packer	28000.00 lbs
Wt Pulled Loose	118000.00 lbs
Initial Str Wt	72000.00 lbs
Unseated Str Wt	78000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.38 in
D.C. Length	210.00 ft
D.P. Length	5105.00 ft

BLOW DESCRIPTION
Initial Flow:
Strong blow bottom of bucket in 30 secs. Gas to surface in 3 mins.
Initial Shut-in:
Bled off 2", no blow back
Final Flow:
Very strong blow bottom of bucket as soon as open tool
Final Shut-in:
Bled off 2", no blow back

MUD DATA----------

Mud Type	chemical
Weight	9.20 lb/c
Vis.	50.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop Y	50.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	126.00 F
Hole Condition	good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Mike & Scott
Co. Rep.	Doug Davis
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

SAMPLES: gas
SENT TO:Caraway Liberal

Test Successful: Y

GAS RECOVERY

COMPANY: Chesapeake Energy DATE: 4-3-98
WELL NAME: MLP Schnellbacher #2-4 KB Elev: 2989.00 ft TICKET #10908 DST #4
WELL LOCATION: 4-30s-34w Haskell Ks GR Elev: 2970.00 ft FORMATION: Morrow LS
INTERVAL Fr.: 5202.00 To 5348.00 T.D.: 5348.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Data

**** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
3	1.00	58	0	1553000.0
5	1.50	54	0	3991000.0
10	1.50	58	0	4230000.0
15	1.50	59	0	4289000.0
20	1.50	62	0	4468000.0
25	1.50	71	0	5006000.0
30	1.50	72	0	5065000.0

**** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.50	36	0	2916000.0
10	1.50	60	0	4349000.0
15	1.50	76	0	5304000.0
20	1.50	82	0	5662000.0
25	1.50	82	0	5662000.0
35	1.50	80	0	5543000.0
45	1.50	80	0	5543000.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: MLP Schnellbacher #2-4

LOCATION : 4-30s-34w Haskell Ks

TICKET No. 10908 D.S.T. No. 4 DATE 4-3-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 21

TOTAL TOOL 48

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 2 Single Total 125

TOTAL ASSEMBLY 173

D.C. ABOVE TOOLS.Stands3 Single 1 Total 210

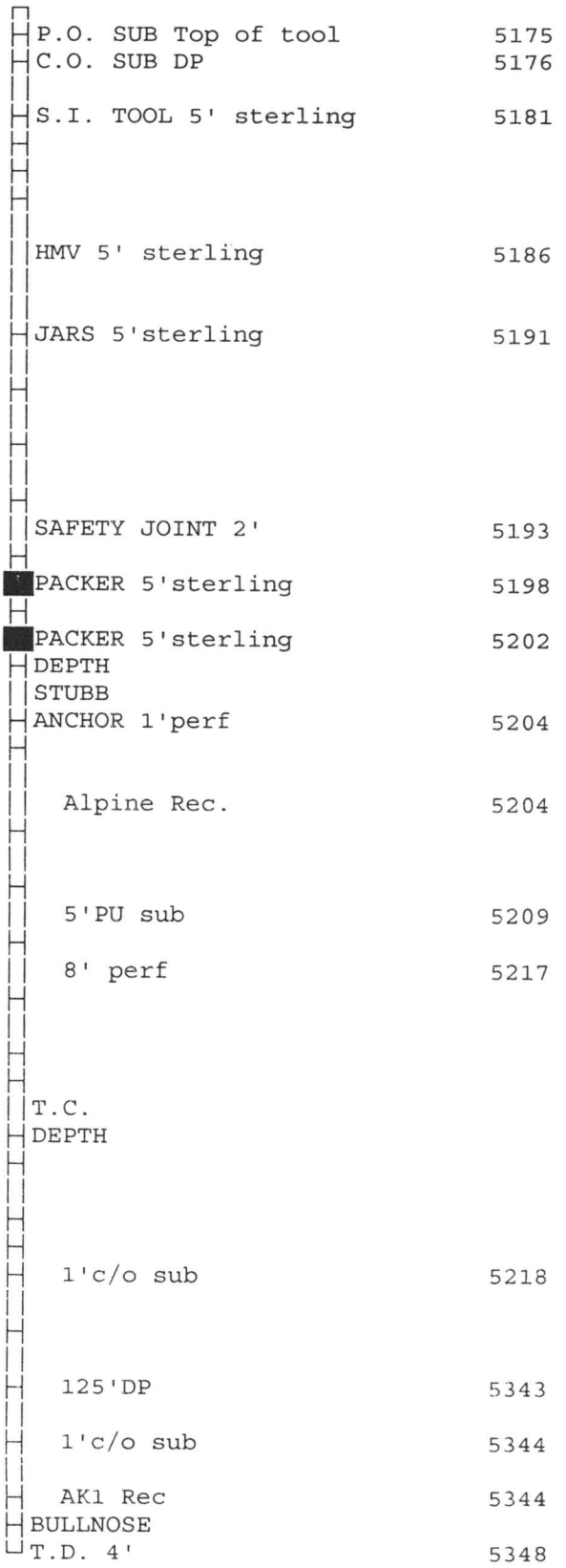
D.P. ABOVE TOOLS.Stands81 Single 1 Total 4980

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5363

TOTAL DEPTH 5348

TOTAL DRILL PIPE ABOVE K.B. 15

REMARKS:



TEST HISTORY

10908 DST#4 MLP Schnellbacher #2-4 Chesapeake Energy

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2480.06
B:	0.00	846.80
C:	24.75	933.27
D:	59.75	1461.09
E:	0.00	799.27
F:	41.25	851.74
G:	90.00	1447.19
Q:	0.00	2410.76

