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ORIGINAL

CONFIDENTIAL

15-081-21201

KCC

RECEIVED
STATE CORPORATION COMMISSION
JUL 29 1998
CONSERVATION DIVISION

JUL 27 1998
CONFIDENTIAL

WELL NAME: Anton #1-1218
COMPANY: Harris Oil & Gas
LOCATION: ~~18-33S-30W~~ 18-33S-30W
Haskell County, Kansas
DATE: 5/28/98

RELEASED
SEP 28 1999
FROM CONFIDENTIAL

ORIGINAL

TRILOBITE TESTING L.L.C.

OPERATOR : Harris Oil & Gas DATE 5-19-98
WELL NAME: Anton #1-1218 KB 2968.00 ft TICKET NO: 9823 DST #1
LOCATION : 18-33s-30w Haskell KS GR 2954.00 ft FORMATION: Lansing B
INTERVAL : 4185.00 To 4208.00 ft TD 4208.00 ft TEST TYPE: CONENTIONAL

RECORDER DATA

Mins			Field	1	2	3	4
PF	30	Rec.	13252	13252	3026		
SI	60	Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0
SF	60	Clock(hrs)	12hr	12hr	elect		
FS	120	Depth(ft)	4208.0	4208.0	4188.0	0.0	0.0

TIME DATA----------
PF Fr. 0713 to 0743 hr
IS Fr. 0743 to 0843 hr
SF Fr. 0843 to 0943 hr
FS Fr. 0943 to 1143 hr

	Field	1	2	3	4
A. Init Hydro	1956.0	1979.0	1972.0	0.0	0.0
B. First Flow	57.0	80.0	50.0	0.0	0.0
B1. Final Flow	160.0	186.0	204.0	0.0	0.0
C. In Shut-in	836.0	853.0	859.0	0.0	0.0
D. Init Flow	253.0	264.0	211.0	0.0	0.0
E. Final Flow	322.0	345.0	334.0	0.0	0.0
F. Fl Shut-in	813.0	828.0	819.0	0.0	0.0
G. Final Hydro	1910.0	1903.0	1952.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0500 hr
T ON BOTM 0712 hr
T OPEN 0713 hr
T PULLED 1143 hr
T OUT 1430 hr

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

Tool Wt.	1800.00 lbs
Wt Set On Packer	26000.00 lbs
Wt Pulled Loose	130000.00 lbs
Initial Str Wt	88000.00 lbs
Unseated Str Wt	90000.00 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	559.00 ft
D.P. Length	3609.00 ft

RECOVERY
Tot Fluid 640.00 ft of 560.00 ft in DC and 80.00 ft in DP
140.00 ft of Slight oil cut muddy water
0.00 ft of 3% oil 55% water 42% mud
120.00 ft of Slightly oil cut water 2% oil 98% water
190.00 ft of Muddy water 90% water 10% mud
190.00 ft of Water
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 60000.00 P.P.M. A.P.I. Gravity 0.00

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

Mud Type	chemical
Weight	9.10 lb/cf
Vis.	33.00 S/L
W.L.	15.00 in3
F.C.	0.00 in
Mud Drop Y	20.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	1200.00 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	Scott Bugbee
Co. Rep.	Larry
Contr.	Allen
Rig #	5
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
Weak blow built to bottom of bucket in 23 mins.
Initial Shut-in:
Bled off 2" no blow back
Final Flow:
Weak blow bottom of bucket in 38 mins
Final Shut-in:
Bled off 2" no blow back

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONENTIONAL

WELL NAME: Anton #1-1218

LOCATION : 18-33s-30w Haskell KS

TICKET No. 9823 D.S.T. No. 1 DATE 5-19-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 23

TOTAL TOOL 53

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands9 Single Total 559

D.P. ABOVE TOOLS.Stands58 Single Total 3609

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4221

TOTAL DEPTH 4208

TOTAL DRILL PIPE ABOVE K.B. 13

REMARKS:

Sampler Data

4000 ml. total fluid

400ml oil

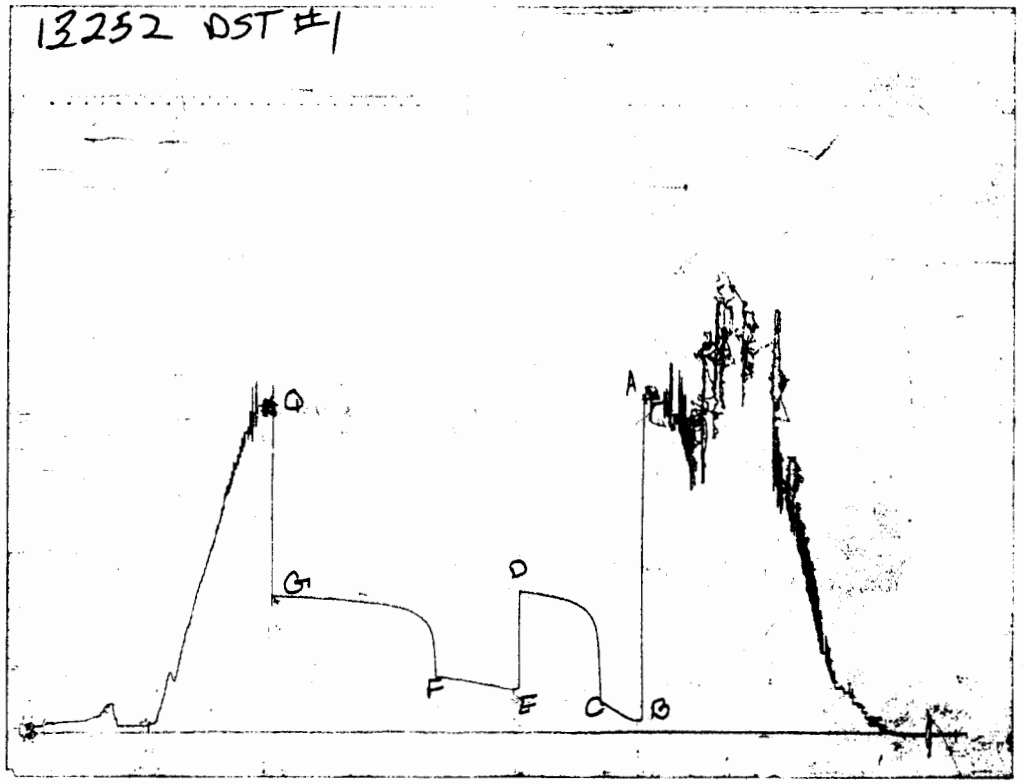
120ml mud

3480ml water

400 PSI.

P.O. SUB top of tool	4155
C.O. SUB 1'	4156
S.I. TOOL 5'	4161
3' sampler	4164
HMV 5'	4169
JARS 5'	4174
SAFETY JOINT 2'	4176
PACKER 5'	4181
PACKER 5'	4185
DEPTH 4185	
STUBB 1'	4185
ANCHOR 2' perf	4188
Alpine Rec.	4188
5' PU sub	4193
T.C.	
DEPTH	
10' perf	4203
AK1 Rec.	4208
BULLNOSE	
T.D. 5'	4208

CHART PAGE



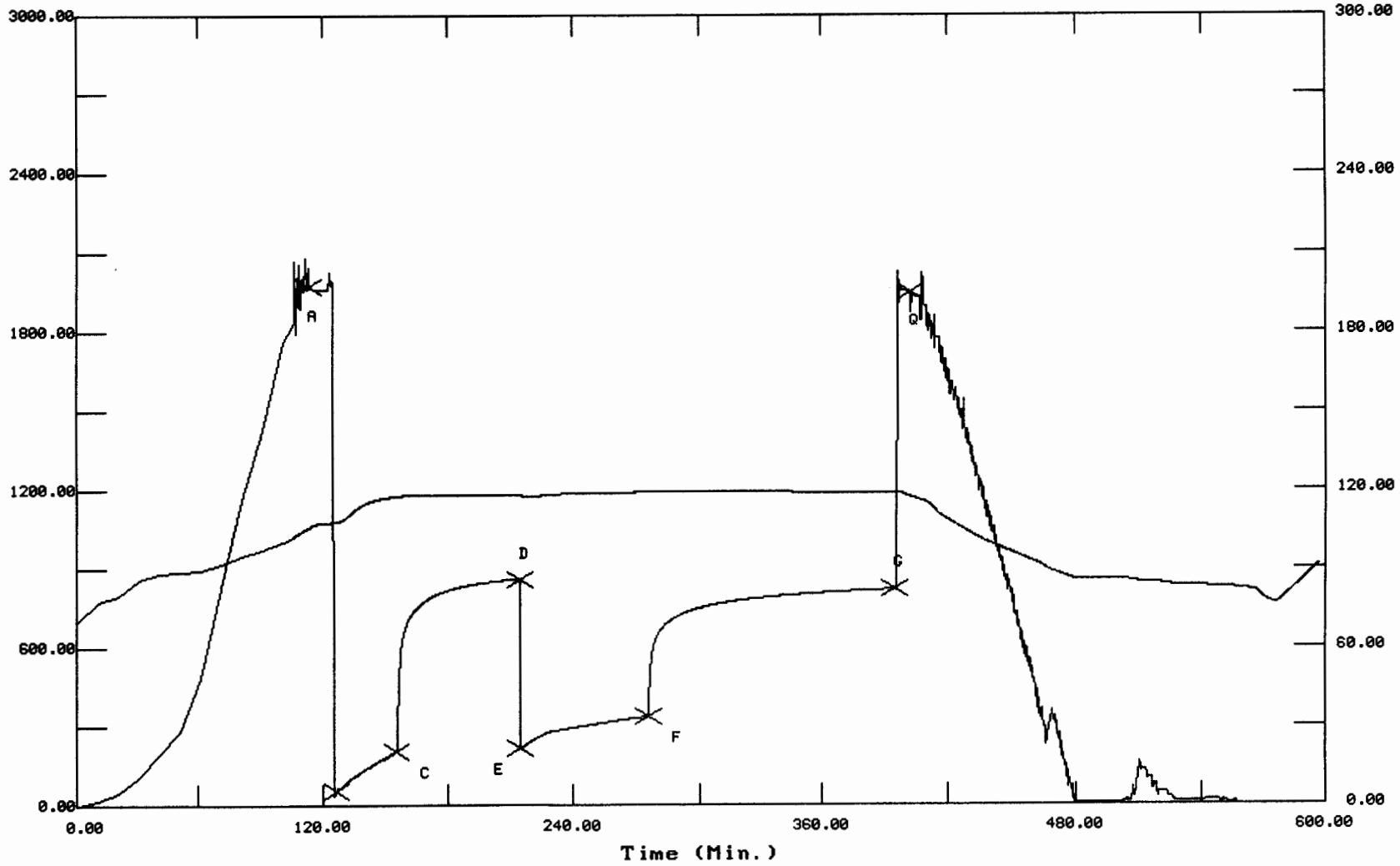
This is a photocopy of the actual AK-1 recorder chart

TEST HISTORY

9823 DST#1 Anton 1-1218 Harris Gas & Oil Co.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1972.95
B:	0.00	50.47
C:	29.00	204.18
D:	59.75	859.53
E:	0.00	211.89
F:	60.50	334.36
G:	119.25	819.40
Q:	0.00	1952.00



TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4823 Date 5-19-98

Company Name Harris Gas & Oil

Lease Anton 1-1218 Test No. #1

County Haskell Sec. 18 Twp. 33S Rng. 30W

SAMPLER RECOVERY

Gas _____ ML

Oil 400 ML

Mud 120 ML

Water 3480 ML

Other _____ ML

Pressure 400 PSI

Total 4000 ML

PIT MUD ANALYSIS

Chlorides 2200 ppm.

Resistivity 2.2 ohms @ 85° F

Viscosity 33

Mud Weight 9.1

Filtrate 15

Other _____

SAMPLER ANALYSIS

Resistivity .109 ohms @ 85 F

Chlorides 60,000 ppm.

Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 9823

Well Name & No. Anton 1-1218 Test No. #1 Date 5-19-98

Company Harris Gas + Oil Co. Zone Tested Lansing B

Address 1125 17th St. Suite 2290 Denver Co. 80202 Elevation 2968 KB GL

Co. Rep / Geo. Gary Wilkens Cont. Allen Rig #5 Est. Ft. of Pay 6 Por. 20%

Location: Sec. 18 Twp. 33S Rge. 30W Co. Haskell State Ks.

No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4185-4208 Initial Str Wt./Lbs. 88,000 Unseated Str Wt./Lbs. 90,000

Anchor Length 23' Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 130,100

Top Packer Depth 4180 Tool Weight 1800

Bottom Packer Depth 4185 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Total Depth 4208 Wt. Pipe Run Drill Collar Run 559 (9 stds)

Mud Wt. 9.1 LCM 2 Vis. 33 WL 15 Drill Pipe Size Ft. Run 3609 (58 stds)

Blow Description Weak blow built to B.O.B. in 23 min.
I.S.I. Bled off 2" no blow back
2nd open Weak blow B.O.B. in 38 min.
F.S.I. Bled off 2" no blow back

Recovery — Total Feet 640 GIP 120 Ft. in DC 560 Ft. in DP 80

Rec. 140	Feet Of	Sly O. cut muddy Water	%gas	3	%oil	55	%water 42	%mud
Rec. 120	Feet Of	Sly O. cut Water	%gas	2	%oil	98	%water	%mud
Rec. 190	Feet Of	muddy water	%gas		%oil	90	%water 10	%mud
Rec. 190	Feet Of	Water	%gas		%oil	100	%water	%mud
Rec.	Feet Of		%gas		%oil		%water	%mud

BHT 120 °F Gravity °API D@ °F Corrected Gravity °API

RW .109 @ 95 °F Chlorides 60,000 ppm Recovery Chlorides 2200 ppm System

(A) Initial Hydrostatic Mud	1956	1972	PSI	Recorder No. 3026	T-Started	5:00 A.M.
(B) First Initial Flow Pressure	57	50	PSI	(depth) 4188	T-Open	7:13 A.M.
(C) First Final Flow Pressure	160	204	PSI	Recorder No. 13252	T-Pulled	11:43 A.M.
(D) Initial Shut-in Pressure	836	859	PSI	(depth) 4208	T-Out	2:30 P.M.
(E) Second Initial Flow Pressure	253	211	PSI	Recorder No.		
(F) Second Final Flow Pressure	322	334	PSI	(depth)		
(G) Final Shut-in Pressure	813	819	PSI	Initial Opening 30	Test	✓ 700.00
(H) Final Hydrostatic Mud	1910	1952	PSI	Initial Shut-in 60	Jars	✓ 200.00
	AK1	Alpine		Final Flow 60	Safety Joint	✓ 50.00
				Final Shut-in 120	Straddle	
					Circ. Sub	✓ N/C
					Sampler	✓ 200.00
					Extra Packer	
					Elect. Rec.	✓ 150.00
					Other	

Approved By Harry G. Benedict

TRILOBITE TESTING L.L.C.

OPERATOR : Harris Oil & Gas DATE 5-22-98
WELL NAME: Anton #1-1218 KB 2968.00 ft TICKET NO: 9824 DST #2
LOCATION : 18-33s-30w Haskell KS GR 2956.00 ft FORMATION: Morrow
INTERVAL : 5290.00 To 5325.00 ft TD 5325.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13252	13252	3026		
SI 60	Range(Psi)	4550.0	4550.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	12hr	12hr	elect		
FS 120	Depth(ft)	5325.0	5325.0	5292.0	0.0	0.0

	Field	1	2	3	4
A. Init Hydro	2504.0	2504.0	2508.0	0.0	0.0
B. First Flow	0.0	0.0	24.0	0.0	0.0
B1. Final Flow	0.0	0.0	28.0	0.0	0.0
C. In Shut-in	0.0	0.0	86.0	0.0	0.0
D. Init Flow	0.0	0.0	23.0	0.0	0.0
E. Final Flow	0.0	0.0	29.0	0.0	0.0
F. Fl Shut-in	0.0	0.0	65.0	0.0	0.0
G. Final Hydro	2493.0	2493.0	2493.0	0.0	0.0
Inside/Outside	O	O	I		

TIME DATA----------
PF Fr. 2043 to 2113 hr
IS Fr. 2113 to 2213 hr
SF Fr. 2213 to 2228 hr
FS Fr. 2228 to 2313 hr

T STARTED 1800 hr
T ON BOTM 2041 hr
T OPEN 2043 hr
T PULLED 2313 hr
T OUT 0200 hr

RECOVERY
Tot Fluid 3.00 ft of 3.00 ft in DC and 0.00 ft in DP
3.00 ft of oil speced 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

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

Tool Wt.	1800.00 lbs
Wt Set On Packer	24000.00 lbs
Wt Pulled Loose	110000.00 lbs
Initial Str Wt	98000.00 lbs
Unseated Str Wt	98000.00 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	559.00 ft
D.P. Length	4726.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak surface blow 1.5"

Initial Shut-in:
no blow back

Final Flow:
Weak surface blow 1.5"

Final Shut-in:
no blow back

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

Mud Type	chemical
Weight	9.10 lb/cf
Vis.	43.00 S/L
W.L.	9.00 in3
F.C.	0.00 in
Mud Drop Y	20.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	125.00 F
Hole Condition	good
% Porosity	4.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Scott Bugbee
Co. Rep.	Harold Frauli
Contr.	Allen
Rig #	5
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Anton #1-1218

LOCATION : 18-33s-30w Haskell KS

TICKET No. 9824 D.S.T. No. 2 DATE 5-22-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 35

TOTAL TOOL 65

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands9 Single Total 559

D.P. ABOVE TOOLS.Stands76 Single Total 4726

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5350

TOTAL DEPTH 5325

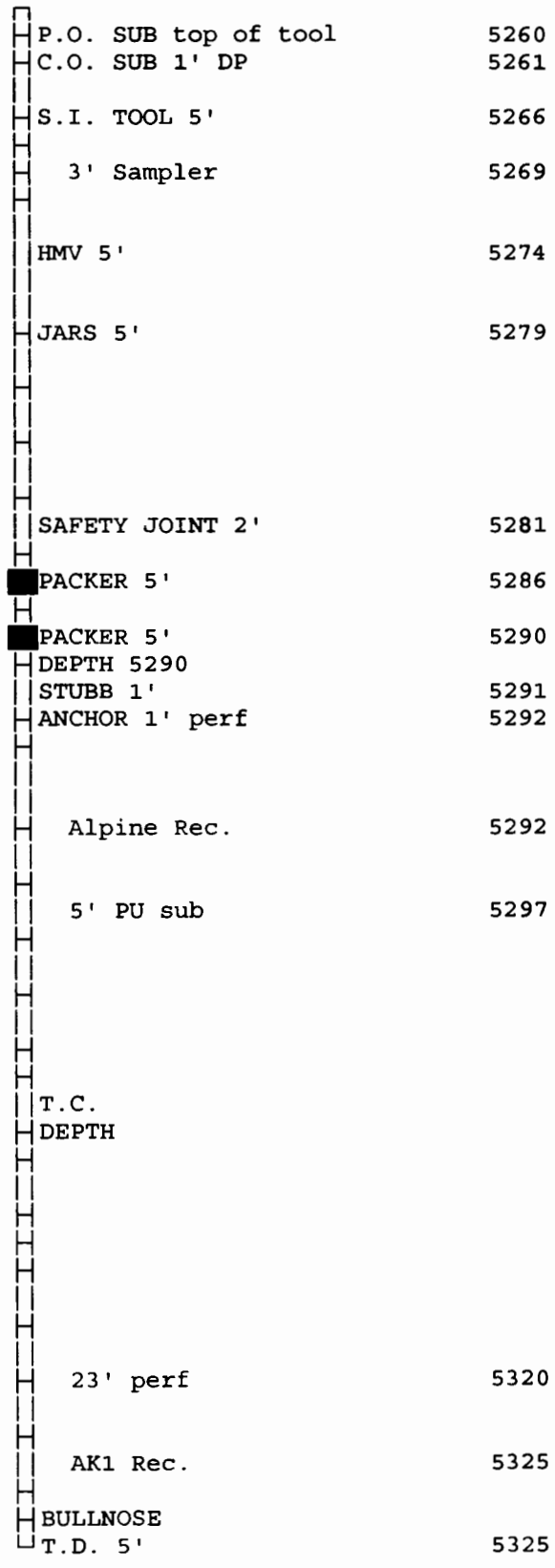
TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

Sampler Data

4000 ml total volume

4000 ml mud



TEST HISTORY

9824 DST#2 Anton #1-1218 Harris Gas & Oil

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2508.96
B:	0.00	24.50
C:	30.25	28.76
D:	58.50	86.14
E:	0.00	23.52
F:	14.50	29.86
G:	44.00	65.95
Q:	0.00	2493.44

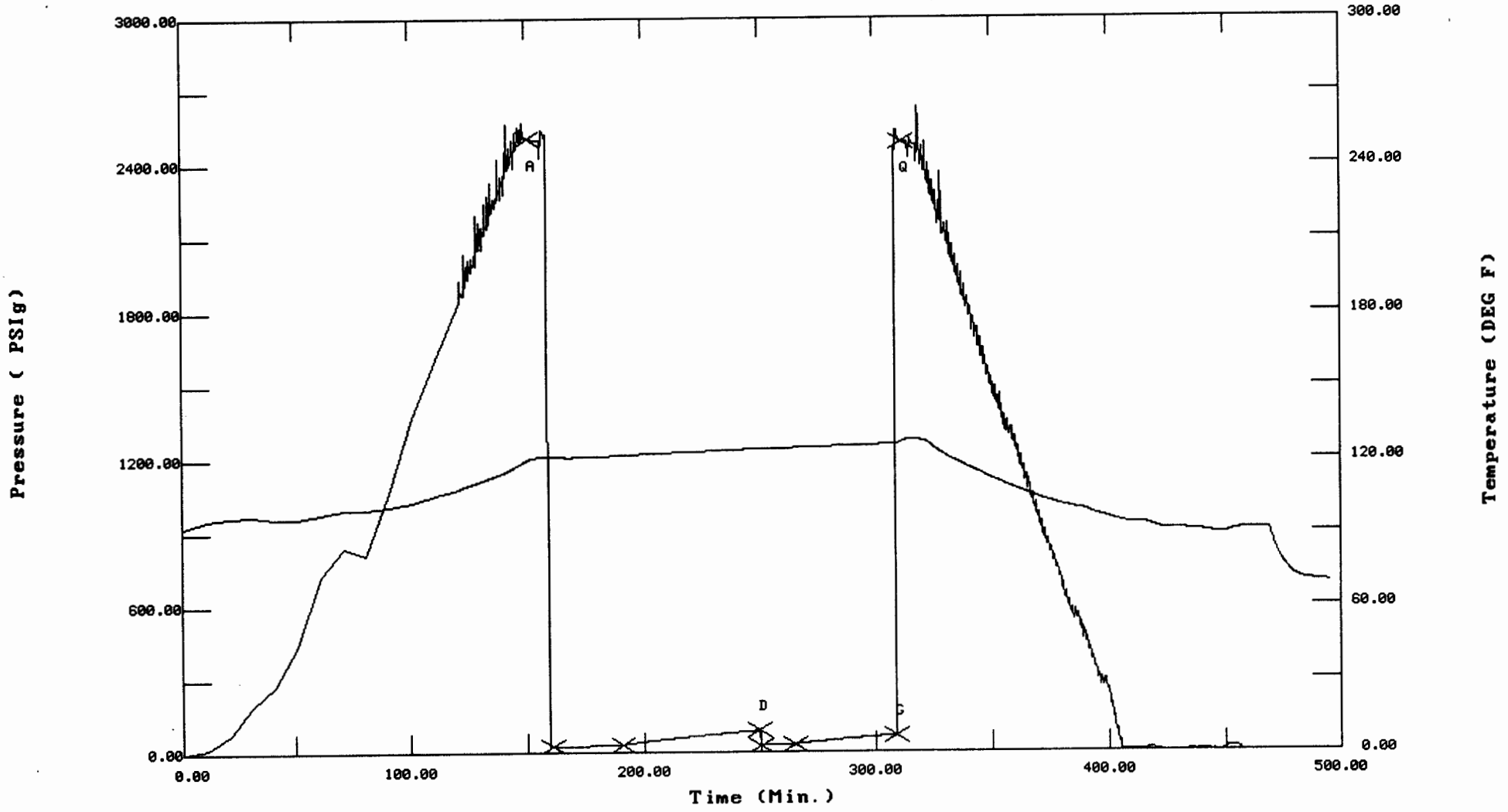
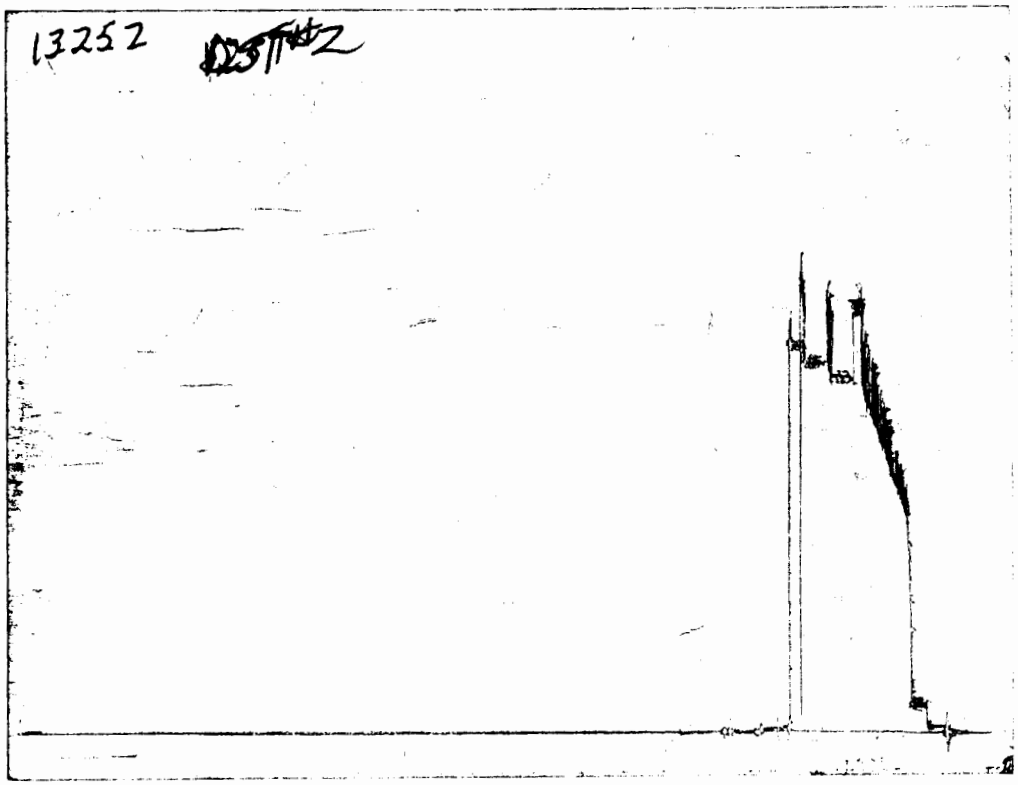


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9824 Date 5-22-98

Company Name Harris Gas + O.I

Lease Anton 1-1218 Test No. #2

County Haskell Sec. 18 Twp. 33s Rng. 30w

SAMPLER RECOVERY

Gas _____ ML

Oil _____ ML

Mud 4,000 ML

Water _____ ML

Other _____ ML

Pressure 250 PSI

Total 4000 ML

PIT MUD ANALYSIS

Chlorides 1800 ppm.

Resistivity 1.5 ohms @ 65 F

Viscosity 43

Mud Weight 9.1

Filtrate 9.0

Other _____

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 9824

Well Name & No. Anton 1-1218 Test No. #2 Date 5-22-98

Company Harris Gas + Oil Zone Tested

Address Denver Colo. Elevation 2968 KB 2956 GL

Co. Rep / Geo. Gary Wilkins Cont. Allen Rig #5 Est. Ft. of Pay 2 Por. 4 %

Location: Sec. 18 Twp. 33s Rge. 30w Co. Haskell State Ks.

No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 5290-5325 Initial Str Wt./Lbs. 98,000 Unseated Str Wt./Lbs. 98,000

Anchor Length 35' Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 110,000

Top Packer Depth 5285 Tool Weight 1800

Bottom Packer Depth 5290 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Total Depth 5325 Wt. Pipe Run Drill Collar Run 559' 9 stds

Mud Wt. 9.1 LCM 3 Vis. 43 WL 9.0 Drill Pipe Size 4½ XH Ft. Run 4796' 76 stds

Blow Description Weak surface blow 1/2"

I.S.I. No blow back

2nd Open weak surface blow ½"

F.S.I. No blow back

Recovery — Total Feet 3' GIP Ft. in DC 3' Ft. in DP

Rec. 3 Feet Of oil spaced mud %gas %oil %water 100 %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 125 °F Gravity °API D@ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 1800 ppm System

(A) Initial Hydrostatic Mud	2508	PSI	Recorder No. 3026	T-Started	6:00 P.M.
(B) First Initial Flow Pressure	24	PSI	(depth) 5292	T-Open	8:43 P.M.
(C) First Final Flow Pressure	28	PSI	Recorder No. 13252	T-Pulled	11:13 P.M.
(D) Initial Shut-in Pressure	86	PSI	(depth) 5325	T-Out	2:00 A.M.
(E) Second Initial Flow Pressure	23	PSI	Recorder No.		
(F) Second Final Flow Pressure	29	PSI	(depth)		
(G) Final Shut-in Pressure	65	PSI	Initial Opening 30	Test ✓	
(H) Final Hydrostatic Mud	2493	PSI	Initial Shut-in 60	Jars ✓	
AKI	Alpine		Final Flow 15	Safety Joint ✓	
			Final Shut-in 45	Straddle	
				Circ. Sub ✓	
				Sampler ✓	
				Extra Packer	
				Elect. Rec. ✓	
				Other	

Approved By N Franklin

TRILOBITE TESTING L.L.C.

OPERATOR : Harris Oil & Gas Co. DATE 5-23-98
WELL NAME: Anton #1-1218 KB 2968.00 ft TICKET NO: 10224 DST #3
LOCATION : 18-30S-33W Haskell KS GR 2957.00 ft FORMATION: St. Louis
INTERVAL : 5445.00 To 5477.00 ft TD 5477.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 10	Rec.	13630	13630	Alpine		
SI 30	Range(Psi)	4625.0	4625.0	5000.0	0.0	0.0
SF 60	Clock(hrs)	12 HR	12 HR	24 HR		
FS 120	Depth(ft)	5474.0	5474.0	5447.0	0.0	0.0

TIME DATA----------
PF Fr. 2200 to 2210 hr
IS Fr. 2210 to 2240 hr
SF Fr. 2240 to 2340 hr
FS Fr. 2340 to 0140 hr

	Field	1	2	3	4
A. Init Hydro	2642.0	2650.0	2587.0	0.0	0.0
B. First Flow	171.0	209.0	72.0	0.0	0.0
B1. Final Flow	183.0	194.0	114.0	0.0	0.0
C. In Shut-in	1511.0	1516.0	1468.0	0.0	0.0
D. Init Flow	219.0	236.0	135.0	0.0	0.0
E. Final Flow	262.0	287.0	230.0	0.0	0.0
F. Fl Shut-in	1497.0	1502.0	1473.0	0.0	0.0
G. Final Hydro	2577.0	2581.0	2573.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1945 hr
T ON BOTM 2157 hr
T OPEN 2200 hr
T PULLED 0140 hr
T OUT 0630 hr

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

Tool Wt.	1800.00 lbs
Wt Set On Packer	22000.00 lbs
Wt Pulled Loose	12000.00 lbs
Initial Str Wt	100000.00 lbs
Unseated Str Wt	103000.00 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	560.00 ft
D.P. Length	4883.00 ft

RECOVERY
Tot Fluid 580.00 ft of 560.00 ft in DC and 20.00 ft in DP
4863.00 ft of Gas in pipe
205.00 ft of Gassy Mud cut Oil 23%gas 40%oil 37%mud
250.00 ft of Mud and water cut gassy oil
0.00 ft of 28% gas 24% oil 28% water 20% mud
125.00 ft of Slight oil and gas cut muddy water
0.00 ft of 4% gas 5% oil 76% water 15% mud
0.00 ft of
0.00 ft of
SALINITY 46000.00 P.P.M. A.P.I. Gravity 38.00

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

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	42.00 S/L
W.L.	9.20 in3
F.C.	0.00 in
Mud Drop Y	30.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	138.00 F
Hole Condition	Good
% Porosity	12.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Lanny Saloga
Co. Rep.	Gary Wilkins
Contr.	Allen
Rig #	5
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
Strong- bottom of bucket in 40 sec.
Cracked 2" valve

Initial Shut-in:
2" blow back

Final Flow:
Strong - bottom of bucket in 3 min
cracked 2" valve

Final Shut-in:
10" blow back - decreased
Gas to surface in 40 minutes
SAMPLES: None
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Anton #1-1218

LOCATION : 18-30S-33W Haskell KS

TICKET No. 10224 D.S.T. No. 3 DATE 5-23-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 32

TOTAL TOOL 62

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands 9 Single Total 560

D.P. ABOVE TOOLS.Stands 78 Single 1 Total 4883

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5505

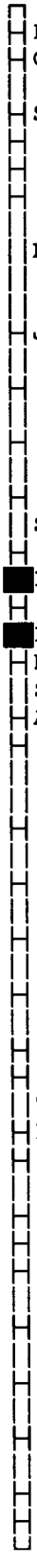
TOTAL DEPTH 5477

TOTAL DRILL PIPE ABOVE K.B. 28

REMARKS:

FLUID SAMPLER DATA

Total Vol. 5000 ML.
Total Vol. Rec. 4500 ML.
Oil 2400 ML.
Mud 0 ML.
Wtr. 2100 ML.
Gas 11.6 CF.
Psi. 790
Bht. 138 F.
Pit RW. 2.3 Ohms at 60 F. 3,000 PPM.
Rec RW. 0.21 Ohms at 54 F. 46,000 PPM.
Gravity 38 at 60 F.



P.O. SUB Cir sub	5355
C.O. SUB Top of tool	5415
Double pin	5416
S.I. TOOL H&T	5421
Sampler	5424
HMV Sterling	5429
JARS Bowen	5434
SAFETY JOINT Bowen	5436
PACKER Sparton	5441
PACKER Sparton	5445
DEPTH	
STUBB Rec sub	5447
ANCHOR Alpine	5447
T.C.	
DEPTH	
Pu sub	5452
AK-1	5474
23 ft. perfs	5475
BULLNOSE 2 ft. perf	
T.D.	5477

TEST HISTORY

10224 D.S.T.#3 Anton #1-1218 Harris Oil & Gas Co.

Flag Points

	t(Min.)	P(PSI)
A:	0.00	2587.16
B:	0.00	72.18
C:	9.00	114.58
D:	30.00	1468.50
E:	0.00	135.00
F:	58.50	230.55
G:	122.00	1473.82
Q:	0.00	2573.30

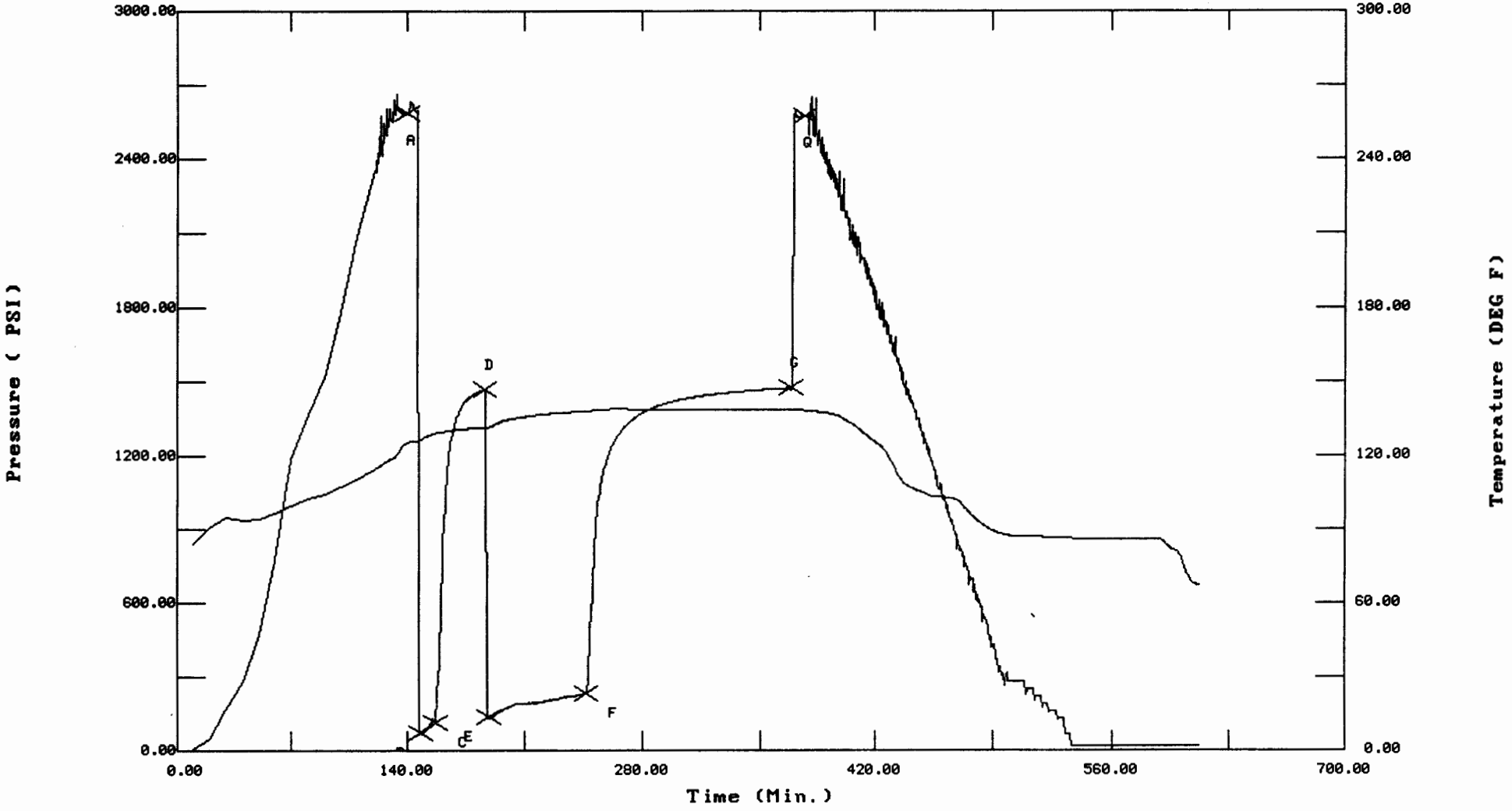
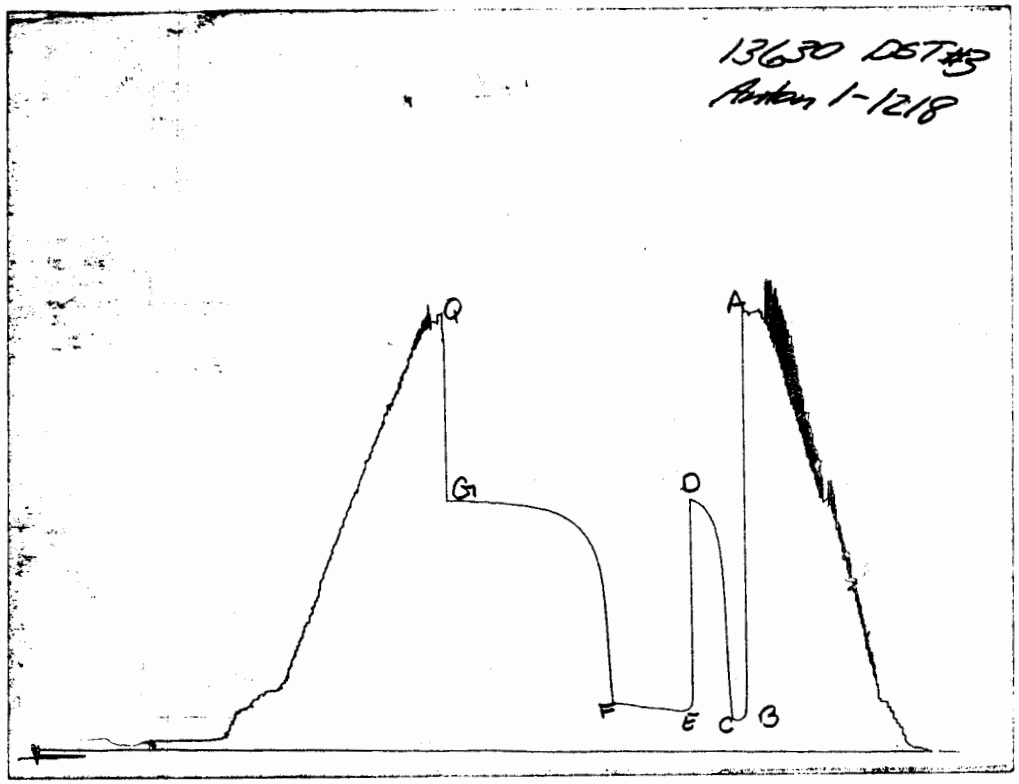


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 10224 Date 5-23-98

Company Name Harris O&G

Lease Anton #1-1218 Test No. 3

County Haskell Sec. 18 Twp. 30S Rng. 33W

Total Vol. = 5000 ML.

SAMPLER RECOVERY

Gas 11.6 CF ~~MF~~

Oil 2400 ML

Mud 0 ML

Water 2100 ML

Other — ML

Pressure 790 PSI

Total Vol. Rec. ML

PIT MUD ANALYSIS

Chlorides 3,000 ppm.

Resistivity 2.3 ohms @ 60 F

Viscosity 42

Mud Weight 9.0

Filtrate 9.2

Other 2# L.C.M.

SAMPLER ANALYSIS

Resistivity 0.21 ohms @ 54 F

Chlorides 46,000 ppm.

Gravity 38 corrected @ 60 F

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity 0.21 ohms @ 54 F

Chlorides 46,000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 10224

Well Name & No. Anton #1-1218 Test No. 3 Date 5-23-98

Company Harris Oil & Gas Co. Zone Tested St. Louis

Address Denver Colo. Elevation 2968 KB 2957 GL

Co. Rep / Geo. Gary Wilkins Cont. Allen Rig 5 Est. Ft. of Pay 7 Por. 12 %

Location: Sec. 18 Twp. 30S Rge. 33W Co. Haskell State Ks.

No. of Copies See List Distribution Sheet (Y, N) Y Turnkey (Y, N) N Evaluation (Y, N) _____

Interval Tested 5445-5477 Initial Str Wt./Lbs. 100,000 Unseated Str Wt./Lbs. 103,000

Anchor Length 32' Tool = 30' Wt. Set Lbs. 22,000 Wt. Pulled Loose/Lbs. 62,000

Top Packer Depth 5440 Tool Weight 4,800

Bottom Packer Depth 5445 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____

Total Depth 5477 Wt. Pipe Run — Drill Collar Run 560

Mud Wt. 9.0 LCM 2# Vis. 42 WL 9.2 Drill Pipe Size 4½ XH Ft. Run 4883 78 +/- 28' wp

Blow Description Strong, ORB in 40 sec. "Cracked 2" valve." I.F.P.
2" blow-back. I.S.I.P.
Strong, ORB in 3 min. "Cracked 2" valve." F.F.P.
10" blow-back. "Decreased" GTS 40 min into F.S.I.P.

Recovery — Total Feet 580 GIP 4863 Ft. in DC 560 Ft. in DP 20

Rec. 205	Feet Of	Gassy Mud cut Oil	23 %gas	40 %oil	%water	37 %mud
Rec. 250	Feet Of	Mdy Wcut Gassy Oil	28 %gas	24 %oil	28 %water	20 %mud
Rec. 125	Feet Of	Sli. O&Gcut Muddy Wtr.	4 %gas	5 %oil	76 %water	15 %mud
Rec.	Feet Of		%gas	%oil	%water	%mud
Rec.	Feet Of		%gas	%oil	%water	%mud

BHT 138 °F Gravity 38 °API D@ 60 °F Corrected Gravity 38 °API

RW 0.21 @ 54 °F Chlorides 46,000 ppm Recovery Chlorides 3,000 ppm System

(A) Initial Hydrostatic Mud	2642	2587 PSI	Recorder No.	3017 "19:35"	T-Started 7:45 P.M.
(B) First Initial Flow Pressure	171	72 PSI	(depth)	5447	T-Open 10:00 P.M.
(C) First Final Flow Pressure	183	114 PSI	Recorder No.	13630	T-Pulled 1:40 A.M.
(D) Initial Shut-in Pressure	1511	1468 PSI	(depth)	5474	T-Out 6:30 A.M.
(E) Second Initial Flow Pressure	219	135 PSI	Recorder No.	—	
(F) Second Final Flow Pressure	262	230 PSI	(depth)	—	
(G) Final Shut-in Pressure	1497	1473 PSI	Initial Opening	10	Test ✓
(H) Final Hydrostatic Mud	2577	2573 PSI	Initial Shut-in	30	Jars ✓
	AK-1	Alpine	Final Flow	60	Safety Joint ✓
			Final Shut-in	120	Straddle _____
					Circ. Sub ✓
					Sampler ✓
					Extra Packer _____
					Elect. Rec ✓
					Other _____

5238/1935.017

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Approved By _____