WELL NAME:	Martin #2
COMPANY:	AGV Corporation
LOCATION:	22-32s-10w
	Barber co Kansas
DATE:	7/21/00

TRILOBITE TESTING L.L.C.

OPERATOR : AGV Corp. DATE 07-17-000
WELL NAME: Martin #2 KB 1456.00 ft TICKET NO: 12873 DST #1
LOCATION : 22-32s-10w Barber co KS GR 1448.00 ft FORMATION: Mississippi
INTERVAL : 4365.00 To 4396.00 ft TD 4396.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10248	10248	2342		
SI 60	Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	12 hr	12 hr	batt.		
FS 90	Depth(ft)	4393.0	4393.0	4370.0	0.0	0.0

TIME DATA----------
PF Fr. 0210 to 0240 hr
IS Fr. 0240 to 0340 hr
SF Fr. 0340 to 0440 hr
FS Fr. 0440 to 0610 hr

	Field	1	2	3	4
A. Init Hydro	2162.0	2119.0	2198.0	0.0	0.0
B. First Flow	16.0	30.0	30.0	0.0	0.0
B1. Final Flow	16.0	22.0	30.0	0.0	0.0
C. In Shut-in	848.0	786.0	860.0	0.0	0.0
D. Init Flow	21.0	34.0	28.0	0.0	0.0
E. Final Flow	30.0	46.0	60.0	0.0	0.0
F. Fl Shut-in	848.0	783.0	860.0	0.0	0.0
G. Final Hydro	2129.0	1957.0	2144.0	0.0	0.0
Inside/Outside	O	O	I	T	

T STARTED 2323 hr
T ON BOTM 0202 hr
T OPEN 0210 hr
T PULLED 0612 hr
T OUT 0855 hr

RECOVERY
Tot Fluid 55.00 ft of 0.00 ft in DC and 55.00 ft in DP
0.00 ft of Gas in all fluid free pipe.
55.00 ft of Drilling mud
0.00 ft of 100% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of Rw n.c. ohms @ degrees F.
0.00 ft of EST.FT. of PAY----------12
SALINITY 7000.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	63000.00 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	0.00 ft
D.P. Length	4356.00 ft

BLOW DESCRIPTION
Initial Flow:
Strong blow. Bottom of bucket in 30 seconds. Gas to surface in 22 minutes (see gas volume report)
Initial Shut-In:
No blow
Final Flow:
Strong blow. (see gas volume report)

Final Shut-In:
No blow.

SAMPLES: Gas sample
SENT TO:Caraway/Liberal

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

Mud Type	Chemical
Weight	91.00 lb/c
Vis.	50.00 S/L
W.L.	10.20 in3
F.C.	0.20 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	117.00 F
Hole Condition	Good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out	N
Tool Chased	N
Tester	Gary Pevoteaux
Co. Rep.	Tim Pierce
Contr.	Duke Drlg.
Rig #	2
Unit #	
Pump T.	LCM 3 #/bl

Test Successful: Y

GAS RECOVERY

COMPANY: AGV Corp. DATE: 07-17-000
WELL NAME: Martin #2 KB Elev: 1456.00 ft TICKET #12873 DST #1
WELL LOCATION: 22-32s-10w Barber co KS GR Elev: 1448.00 ft FORMATION: Mississippi
INTERVAL Fr.: 4365.00 To 4396.00 T.D.: 4396.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adjusting Choke

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
30	0.25	2	0	24400.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.25	9	0	34700.0
20	0.25	13	0	40500.0
30	0.25	17	0	46400.0
40	0.25	20	0	51000.0
50	0.25	23	0	55200.0
60	0.25	24	0	56700.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Martin #2

LOCATION : 22-32s-10w Barber co KS

TICKET No. 12873 D.S.T. No. 1 DATE 07-17-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 31

TOTAL TOOL 51

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 51

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands70 Single 1 Total 4356

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4407

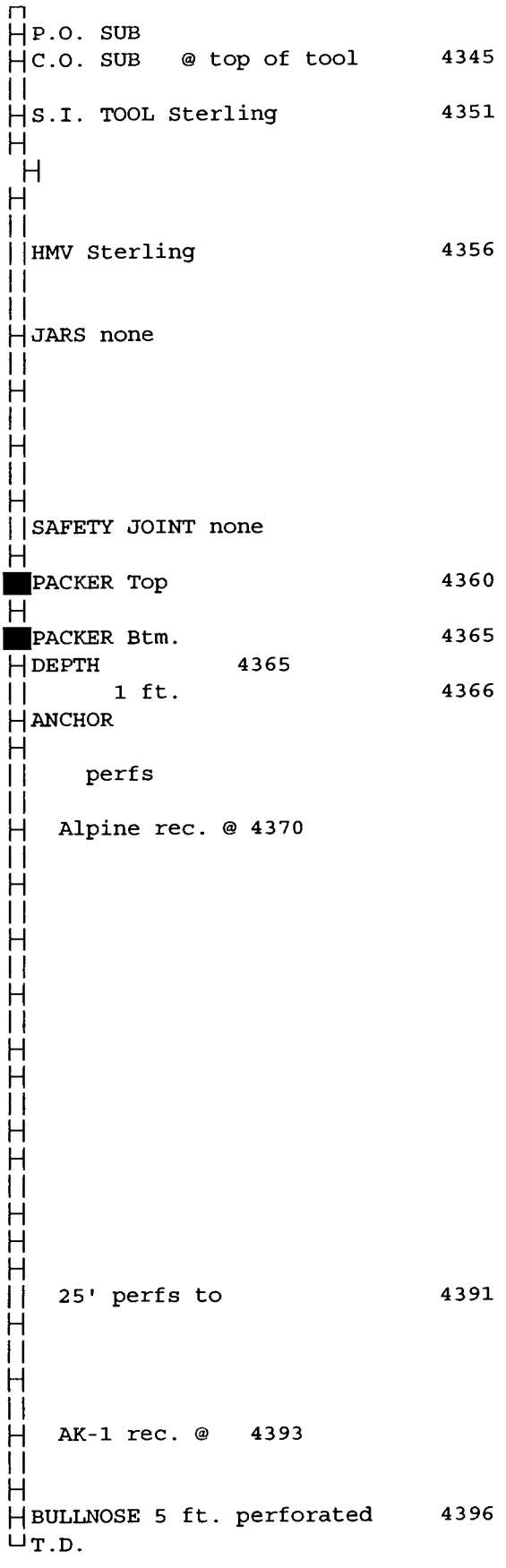
TOTAL DEPTH 4396

TOTAL DRILL PIPE ABOVE K.B. 11

REMARKS:
Comments:

FLUID SAMPLER DATA (not run)

GAS---------- cubic ft
OIL---------- ML.
MUD---------- ML.
WATER---------- ML.
OTHER----------
PRESSURE---------- PSI
Rw ---------- ohms @ deg. F.
CHLORIDES---------- ppm.
GRAVITY---------- deg.API



TEST HISTORY

12873 DST#1 MARTIN #2 AGV CORPORATION

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2197.89
B:	0.00	30.29
C:	29.50	29.79
D:	59.50	859.72
E:	0.00	28.19
F:	60.00	59.83
G:	89.50	859.83
Q:	0.00	2143.51

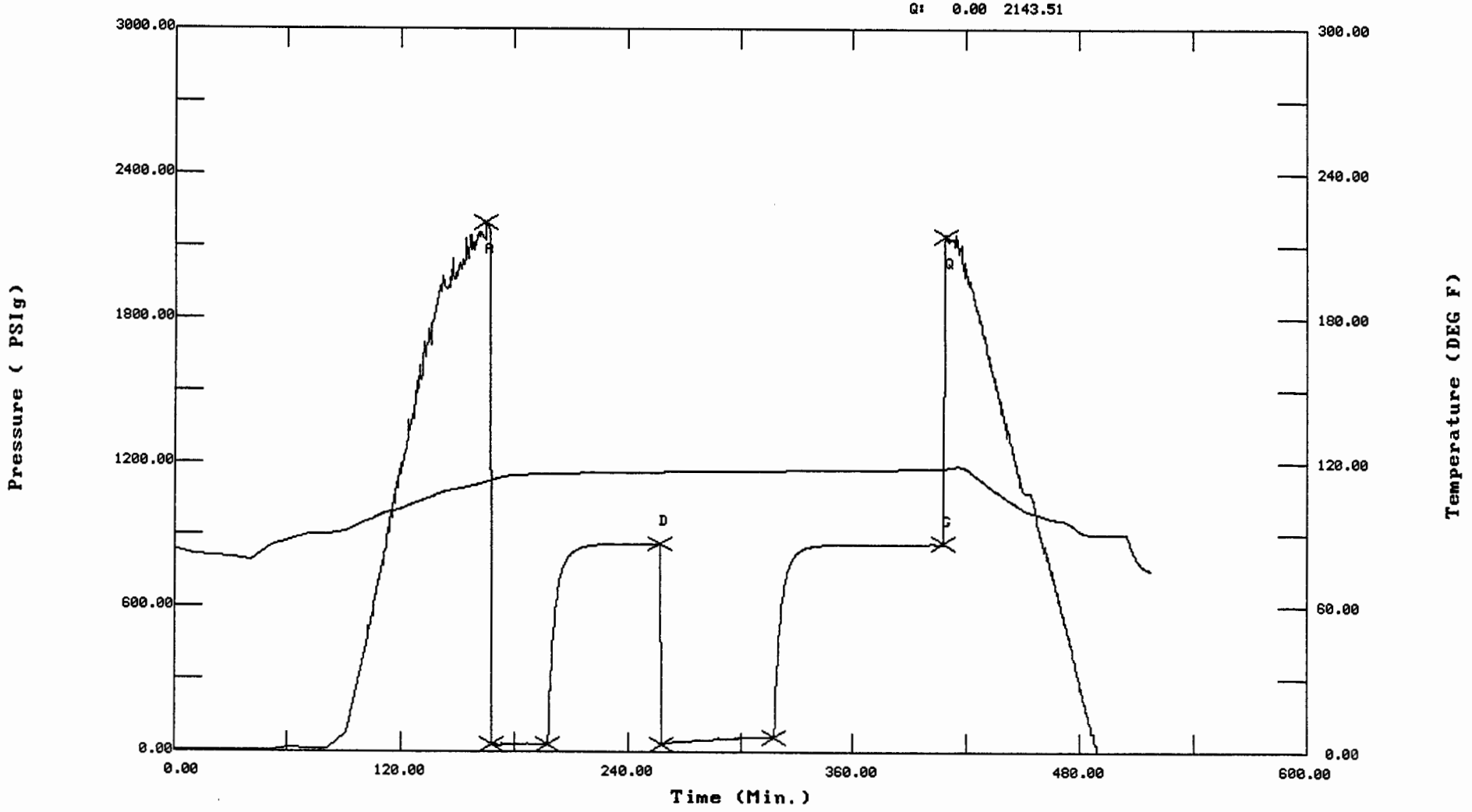
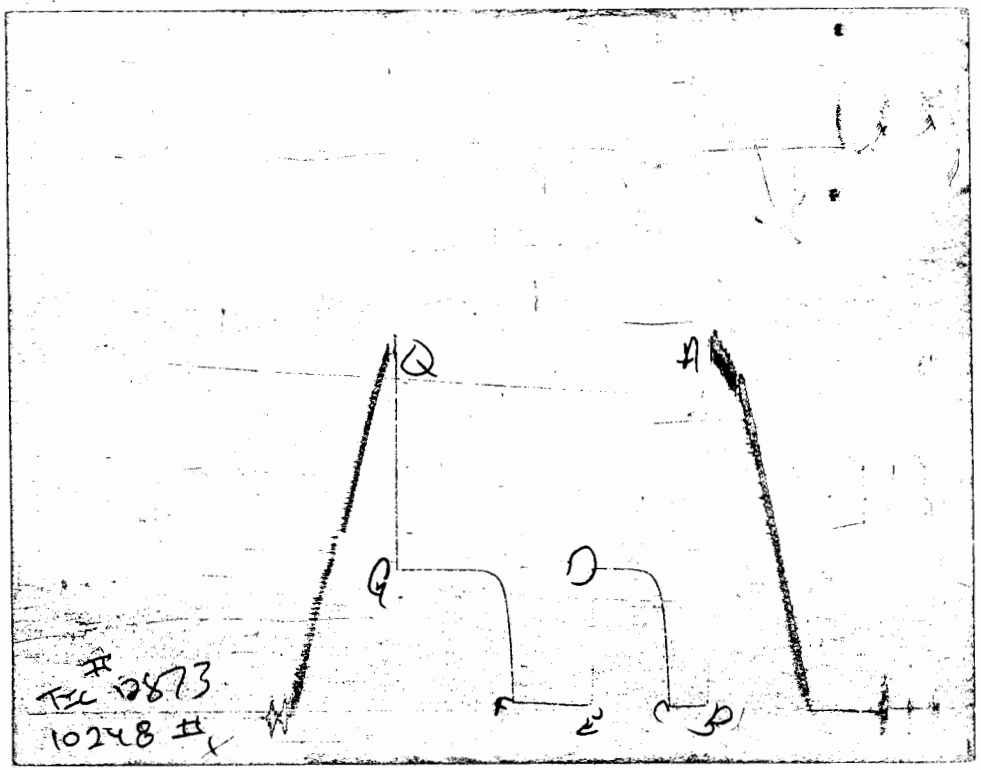


CHART PAGE



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

TRILOBITE TESTING L.L.C.
P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

ACV Corp. (OPERATOR) | Martin #2 (WELL NAME AND NO.) | 1 (DST NO.)

INITIAL OPEN				FINAL OPEN			
Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
22	~	3/8"	GTS	10	9 PSI	1/4"	34.7
30	2 PSI	1/4"	24.4	20	13 PSI	1/4"	40.5
				30	17 PSI	1/4"	46.4
				40	20 PSI	1/4"	51.
				50	22 PSI	1/4"	55.2
				60	24 PSI	1/4"	6.7

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 12873

Well Name & No. Martin #2 Test No. 1 Date 7-17-2000

Company AGV Corp. Zone Tested Miss.

Address 123 S. Main, Attica Ks. 67009 Elevation 1456 KB 1448 GL

Co. Rep / Geo. Tim Pierce Cont. Duke Drlg. #2 Est. Ft. of Pay 12 Por. ____ %

Location: Sec. 22 Twp. 32S Rge. 10W Co. Barber State Ks.

No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) ____ Evaluation (Y, N) ____

Interval Tested 4365 - 4396' Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 50,000

Anchor Length 31' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 63,000

Top Packer Depth 4360' Tool Weight 2100#

Bottom Packer Depth 4365' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Total Depth 4396' Wt. Pipe Run None Drill Collar Run None

Mud Wt. 9.1 LCM 3# Vis. 50 WL 10.2cc. Drill Pipe Size 4½" X.H. Ft. Run 4356'

Blow Description IF: Strong blow. B.O.B. in 30 secs. GTS in 22 mins. (see gas volume report) FSI: No blow. FF: Strong blow. (see gas volume report) FSI: No blow.

Recovery — Total Feet 55 GIP Yes Ft. in DC ~ Ft. in DP 55

Rec. 55	Feet Of Drlg. Mud.	%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 117 °F Gravity N/A °API D@ ~ °F Corrected Gravity N/A °API

RW N.C. @ ~ °F Chlorides 7,000 ppm Recovery Chlorides 7,000 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	2162	2198	PSI	Recorder No. (alp)	2342	T-On Location 2145
(B) First Initial Flow Pressure	16	30	PSI	(depth)	4370'	T-Started 2323
(C) First Final Flow Pressure	16	30	PSI	Recorder No.	10248	T-Open 0210
(D) Initial Shut-In Pressure	848	860	PSI	(depth)	4393'	T-Pulled 0612
(E) Second Initial Flow Pressure	21	28	PSI	Recorder No.	~	T-Out 0855
(F) Second Final Flow Pressure	30	60	PSI	(depth)	~	T-Off Location 0940
(G) Final Shut-in Pressure	848	860	PSI	Initial Opening	30	Test ✓ 700
(Q) Final Hydrostatic Mud	2129	2144	PSI	Initial Shut-in	40	Jars ____
				Final Flow	40	Safety Joint ____
				Final Shut-in	90	Straddle ____
						Circ. Sub ____
						Sampler ____
						Extra Packer ____
						Elec. Rec. ✓ 150
						Mileage ____
						Other ✓ 600
						TOTAL PRICE $ 750

10.0'

910

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 Tim Pierce

Our Representative Tony Pivoteau

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Sample From: Martin #2 DST 1
Producer: AGV Corp

Pressure:
Temperature:

Time:
Sampler:
Source:

County: Barber
State: Kansas
Formation: Miss

		Mole %	GPM
Helium	He:	0.057	0.000
Hydrogen	H2:	0.002	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	1.180	0.000
Carbon Dioxide	CO2:	0.042	0.000
Methane	C1:	88.526	0.000
Ethane	C2:	5.728	1.532
Propane	C3:	2.466	0.680
Iso Butane	iC4:	0.354	0.116
Normal Butane	nC4:	0.848	0.267
Iso Pentane	iC5:	0.195	0.071
Normal Pentane	nC5:	0.237	0.086
Hexanes Plus	C6+:	0.365	0.159
	TOTAL:	100.000	2.911

Z Fact: 0.9973
SP.GR.: 0.6481
BTU (SAT): 1118.5 @ 14.73 psia
BTU (DRY): 1138.3 @ 14.73 psia

OCTANE RATING: 124.9

COMMENTS: 0.000

Well Name Martin

DST Number 1

Recorder Number 10248

A:	1996	2019
B:	.029	30
C:	.022	22
D:	.767	786
E:	.033	34
F:	.045	46
G:	.761	783
Q:	1.935	1957