WELL NAME: CASEY #5
COMPANY: **MAXWELL OPERATING CO.**
LOCATION: Sec. 4 Twp. 16S Rge. 12W
Barton County KS
DATE: 03/13/97

TRILOBITE TESTING L.L.C.

OPERATOR : Maxwell Operating CO DATE 3/9/97
WELL NAME: Casey #5 KB 0.00 ft TICKET NO: 9790 DST #1
LOCATION : 4-16S-12W Barton KS GR 1881.00 ft FORMATION: Topeka
INTERVAL : 2897.00 To 2935.00 ft TD 2935.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10332	10332	24174		
SI 45	Range(Psi)	4025.0	4025.0	3050.0	0.0	0.0
SF 30	Clock(hrs)	12 hr	12 hr	12 hr		
FS 45	Depth(ft)	2930.0	2930.0	2901.0	0.0	0.0

TIME DATA----------
PF Fr. 0643 to 0713 hr
IS Fr. 0713 to 0758 hr
SF Fr. 0758 to 0828 hr
FS Fr. 0828 to 0913 hr

	Field	1	2	3	4
A. Init Hydro	1508.0	1494.0	0.0	0.0	0.0
B. First Flow	51.0	38.0	0.0	0.0	0.0
B1. Final Flow	51.0	38.0	0.0	0.0	0.0
C. In Shut-in	394.0	388.0	0.0	0.0	0.0
D. Init Flow	61.0	57.0	0.0	0.0	0.0
E. Final Flow	61.0	57.0	0.0	0.0	0.0
F. Fl Shut-in	374.0	375.0	0.0	0.0	0.0
G. Final Hydro	1448.0	1472.0	0.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0540 hr
T ON BOTM 0635 hr
T OPEN 0643 hr
T PULLED 0913 hr
T OUT 1000 hr

RECOVERY
Tot Fluid 45.00 ft of 0.00 ft in DC and 0.00 ft in DP
0.00 ft of
45.00 ft of Slight Oil Water Cut Mud
0.00 ft of 10%oil 30%water 60%mud
0.00 ft of
320.00 ft of Gas In Pipe
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.	1900.00 lbs
Wt Set On Packer	25000.00 lbs
Wt Pulled Loose	32000.00 lbs
Initial Str Wt	28000.00 lbs
Unseated Str Wt	29000.00 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	2941.00 ft

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

Mud Type	Chemical
Weight	8.90 lb/c
Vis.	43.00 S/L
W.L.	12.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	97.00 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.	Ron Nelson
Contr.	Discovery Drlg
Rig #	1
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
1.5" blow building to bottom of bucket in 6 min.

Initial Shut In:
No Blow

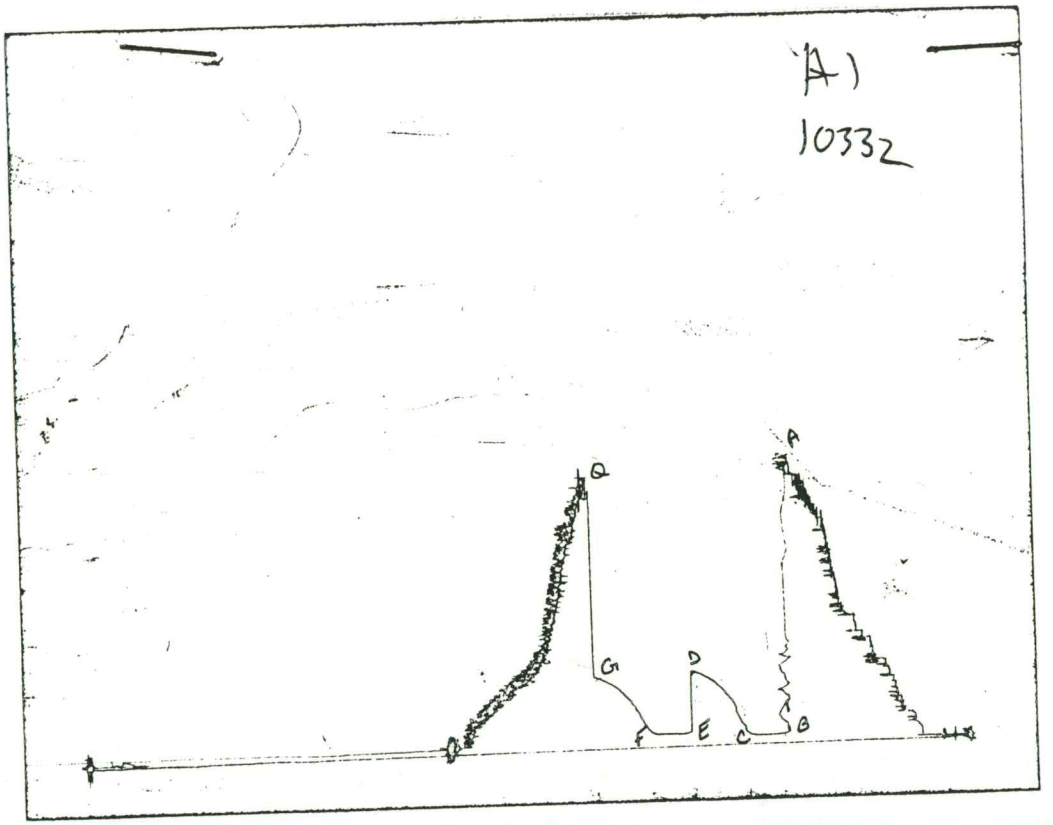
Final Flow:
1.2" blow building to bottom of bucket in 20 min.

Final Shut In:
No Blow

SAMPLES:
SENT TO:

Test Successful: Y

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

Test Ticket

№ 9790

Well Name & No. Casey #5 Test No. 1 Date 3-9-97

Company Maxwell Operating Co Zone Tested Topeka

Address Box 1213 Hays Ks 67601 Elevation ____ KB 1851 GL

Co. Rep / Geo. Ron Nelson Cont. Discovery #1 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 4 Twp. 16S Rge. 12W Co. Barton State Ks

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

Interval Tested 2897-2935 Initial Str Wt./Lbs. 28,000 Unseated Str Wt./Lbs. 29,000

Anchor Length 38 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 32,000

Top Packer Depth 2892 Tool Weight 1900

Bottom Packer Depth 2897 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 2935 Wt. Pipe Run ____ Drill Collar Run ____

Mud Wt. 8.9 LCM ____ Vis. 43 WL 17.0 Drill Pipe Size 4½ XH Ft. Run 2941

Blow Description 1½ blow building to bottom of bucket in 6 minutes ISI - no blow

FF- 1½" blow building to bottom of bucket in 20 minutes

FSI - no blow

Recovery — Total Feet 45 GIP 320 Ft. in DC ____ Ft. in DP ____

Rec. 45	Feet Of 5% O & W CM	%gas 10	%oil 30	%water 60	%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 97 °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides ____ ppm System

(A) Initial Hydrostatic Mud	1508 PSI	Recorder No.	24174	T-Started	0540
(B) First Initial Flow Pressure	51 PSI	(depth)	2901	T-Open	0643
(C) First Final Flow Pressure	51 PSI	Recorder No.	10332	T-Pulled	0913
(D) Initial Shut-in Pressure	394 PSI	(depth)	2930	T-Out	1000
(E) Second Initial Flow Pressure	61 PSI	Recorder No.	____		
(F) Second Final Flow Pressure	61 PSI	(depth)	____		
(G) Final Shut-in Pressure	374 PSI	Initial Opening	30	Test	600
(H) Final Hydrostatic Mud	1448 PSI	Initial Shut-in	45	Jars	____
		Final Flow	30	Safety Joint	____
		Final Shut-in	45	Straddle	____
				Circ. Sub	____
		46.5 std cnd		Sampler	____
				Extra Packer	____
				Elect. Rec.	____
				Other	____
				TOTAL PRICE $	600

TRILOBIITE 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 Brent Kinsler

Our Representative Paul Simpson

TRILOBITE TESTING L.L.C.

'ERATOR : Maxwell Operating Co DATE 3/9/97
:LL NAME: Casey #5 KB 1889.00 ft TICKET NO: 9791 DST #2
)CATION : 4-16S-12W Barton KS GR 1881.00 ft FORMATION: Lansing KS "C-D"
/TERVAL : 3070.00 To 3115.00 ft TD 3115.00 ft TEST TYPE: CONV

:CORDER DATA

lins		Field	1	2	3	4
' 30	Rec.	10332	10332	24174		
: 45	Range(Psi)	4025.0	4025.0	3050.0	0.0	0.0
' 30	Clock(hrs)	12 hr	12 hr	12 hr		
; 45	Depth(ft)	3110.0	3110.0	3076.0	0.0	0.0

TIME DATA----------
PF Fr. 2325 to 2355 hr
IS Fr. 2355 to 0040 hr
SF Fr. 0040 to 0110 hr
FS Fr. 0110 to 0155 hr

	Field	1	2	3	4
Init Hydro	1549.0	1537.0	0.0	0.0	0.0
First Flow	61.0	63.0	0.0	0.0	0.0
.. Final Flow	41.0	52.0	0.0	0.0	0.0
In Shut-in	750.0	763.0	0.0	0.0	0.0
Init Flow	51.0	48.0	0.0	0.0	0.0
Final Flow	41.0	43.0	0.0	0.0	0.0
Fl Shut-in	740.0	738.0	0.0	0.0	0.0
Final Hydro	1508.0	1504.0	0.0	0.0	0.0
ıside/Outside	O	O	I		

T STARTED 2235 hr
T ON BOTM 2320 hr
T OPEN 2325 hr
T PULLED 0155 hr
T OUT 0255 hr

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

Tool Wt.	2200.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	31000.00 lbs
Initial Str Wt	29000.00 lbs
Unseated Str Wt	29000.00 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	3071.00 ft

:ECOVERY
)t Fluid 75.00 ft of 0.00 ft in DC and 0.00 ft in DP
5.00 ft of Mud
.00 ft of
).00 ft of Slight Oil Cut Mud
.00 ft of 10%gas 10%oil 80%mud
.00 ft of
.00 ft of
.00 ft of
.00 ft of
ALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	50.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	100.00 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.	Ron Nelson
Contr.	Discovery Drlg
Rig #	1
Unit #	
Pump T.	

:LOW DESCRIPTION
ıitial Flow:
Strong blow, bototm of bucket in 30sec
gas to surface in 5 min. (SEE REPORT)

ıitial Shut In:
No blow

ınal Flow:
Gauging gas - SEE REPORT

ınal Shut In:
No blow

AMPLES:
ENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Casey #5

LOCATION : 4-16S-12W Barton KS

TICKET No. 9791 D.S.T. No. 2 DATE 03/09/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 13

TOTAL TOOL 33

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 32

TOTAL ASSEMBLY 65

D.C. ABOVE TOOLS.Stands Single Total

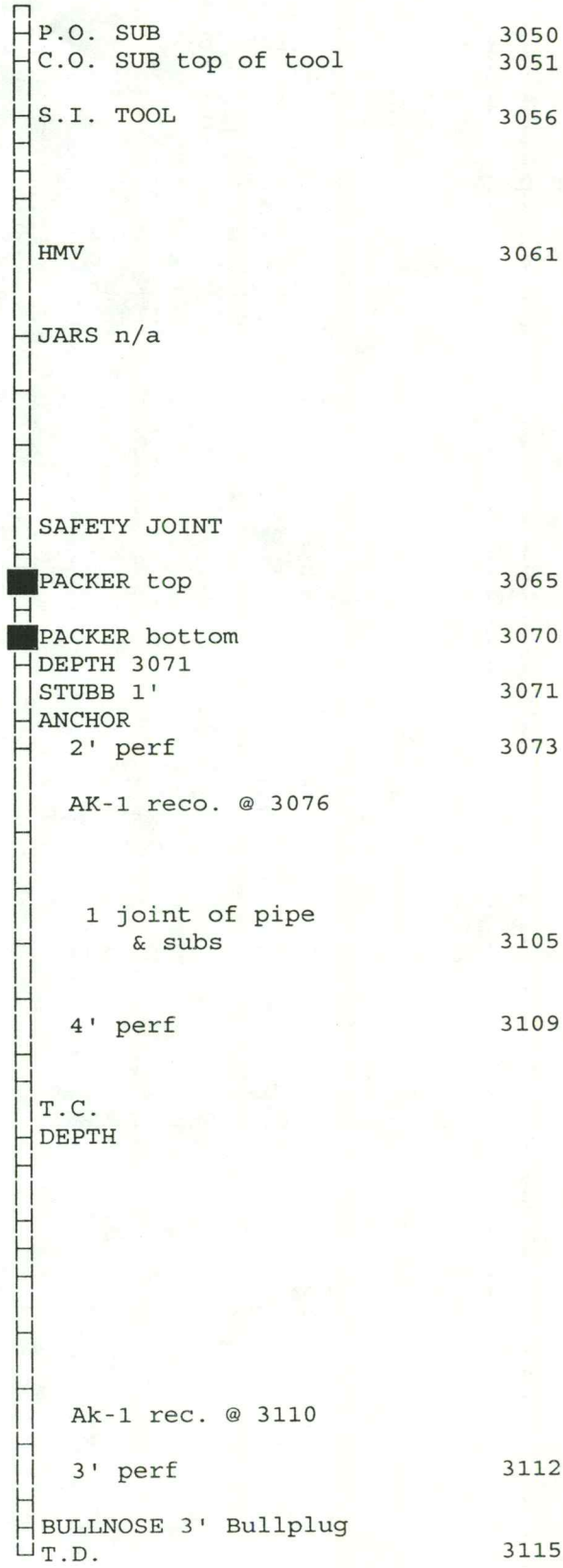
D.P. ABOVE TOOLS.Stands49 Single Total 3071

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3136

TOTAL DEPTH 3115

TOTAL DRILL PIPE ABOVE K.B. 21

REMARKS:



GAS RECOVERY

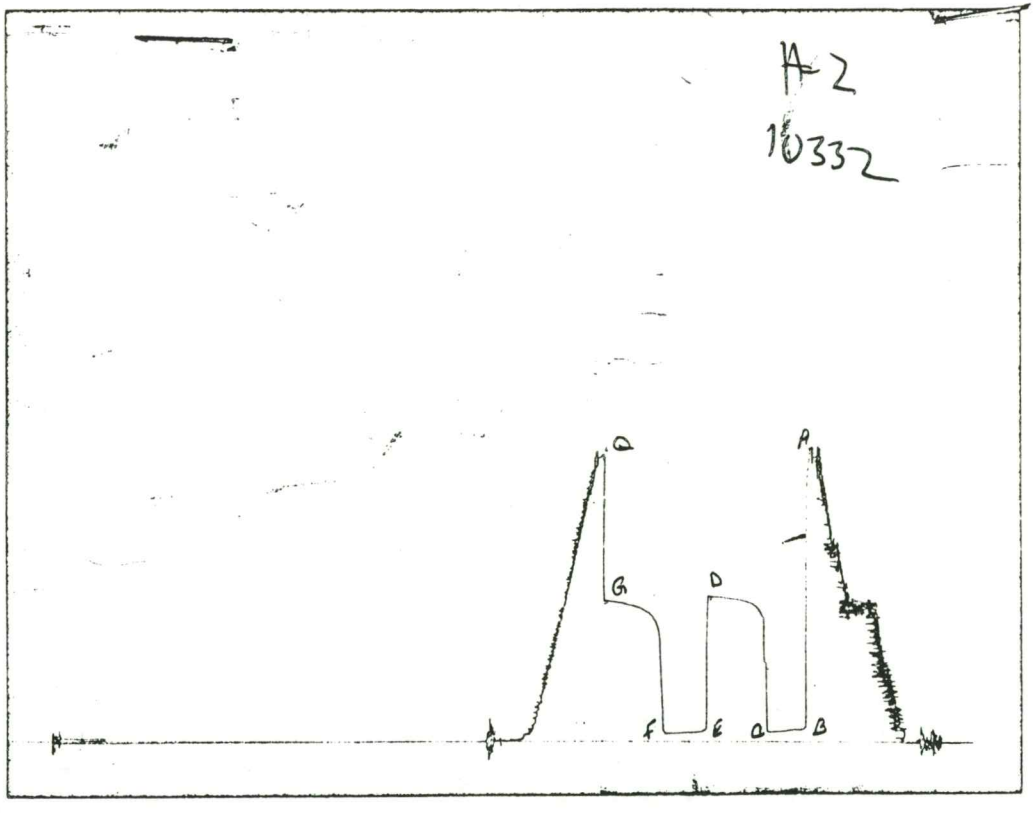
COMPANY: Maxwell Operating Co DATE: 3/9/97
WELL NAME: Casey #5 KB Elev: 1889.00 ft TICKET #9791 DST #2
WELL LOCATION: 4-16S-12W Barton KS GR Elev: 1881.00 ft FORMATION: Lansing KS "C-D"
INTERVAL Fr.: 3070.00 To 3115.00 T.D.: 3115.00 ft TEST TYPE: CONV

GAS RECOVERY MEASURED WITH Merla

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	0	0	0.0
10	0.75	0	80	127000.0
15	0.75	0	46	96300.0
20	0.75	0	34	82800.0
25	0.75	0	32	80300.0
30	0.75	0	30	77800.0

CHART PAGE



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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 9791

Well Name & No. Casey #5 Test No. 2 Date 3-9-97

Company Maxwell Operating Co Zone Tested LKC C-D

Address _____ Elevation 1889 KB 1881 GL

Co. Rep / Geo. Ron Nelson Cont. Discovery #1 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 4 Twp. 16s Rge. 12w Co. Barton State Ks

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

Interval Tested 3070-3115 Initial Str Wt./Lbs. 29,000 Unseated Str Wt./Lbs 29,000

Anchor Length 45 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 31,000

Top Packer Depth 3065 Tool Weight 2280

Bottom Packer Depth 3070 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 3115 Wt. Pipe Run ____ Drill Collar Run ____

Mud Wt. 9.1 LCM ____ Vis. 50 WL 8.8 Drill Pipe Size 4½XH Ft. Run 3071

Blow Description Strong blow - bottom of bucket in 30 seconds gas to surface in 5 minutes - see report ISI - no blow FF - gauging gas - see report FSI - no blow

Recovery — Total Feet >5 GIP ____ Ft. in DC ____ Ft. in DP ____

Rec. 15	Feet Of Mud	%gas	%oil	%water	%mud
Rec. 60	Feet Of SOCM	10 %gas	10 %oil	%water 80	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud

BHT 100 °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides ____ ppm System

(A) Initial Hydrostatic Mud	1549	PSI	Recorder No.	24174	T-Started	2235
(B) First Initial Flow Pressure	61	PSI	(depth)	3076	T-Open	2325
(C) First Final Flow Pressure	41	PSI	Recorder No.	10332	T-Pulled	0155
(D) Initial Shut-in Pressure	750	PSI	(depth)	3110	T-Out	0255
(E) Second Initial Flow Pressure	51	PSI	Recorder No.			
(F) Second Final Flow Pressure	41	PSI	(depth)			
(G) Final Shut-in Pressure	740	PSI	Initial Opening	30	Test	600
(H) Final Hydrostatic Mud	1508	PSI	Initial Shut-in	45	Jars	
			Final Flow	30	Safety Joint	
			Final Shut-in	45	Straddle	
			49,5 stands		Circ. Sub	
					Sampler	
					Extra Packer	
					Elect. Rec.	
					Other	
					TOTAL PRICE $	600

TRILOBIITE 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 Ron Nelson

Our Representative Paul Simpson

TRILOBITE TESTING

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

GAS VOLUME REPORT

Maxwell Operating — OPERATOR

Cassey #5 — WELL NAME AND NO.

2 — DST NO.

Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
		3/4		1	80	3/4	127
0	80		127	5	40	3/4	89.8
5	46		96.3	10	28	3/4	75.1
0	34	3/4	82.8	15	20	"	63.5
5	32	"	80.3	20	18	"	60.2
0	30	"	77.8	25	14	"	53.3
				30	10	"	44.8

Remarks: GTS 5 min DF - will burn

CR

TRILOBITE TESTING L.L.C.

OPERATOR : Maxwell Operating Co DATE 3/10/97
WELL NAME: Casey #5 KB 1889.00 ft TICKET NO: 9792 DST #3
LOCATION : 4-16S-12W Barton KS GR 1881.00 ft FORMATION: Lansing KS "E-F"
INTERVAL : 3112.00 To 3162.00 ft TD 61620.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10332	10332	24174		
SI 45	Range(Psi)	4025.0	4025.0	3050.0	0.0	0.0
SF 30	Clock(hrs)	12 hr	12 hr	12 hr		
FS 45	Depth(ft)	3157.0	3157.0	3115.0	0.0	0.0

TIME DATA----------
PF Fr. 1124 to 1154 hr
IS Fr. 1154 to 1239 hr
SF Fr. 1239 to 1309 hr
FS Fr. 1309 to 1354 hr

	Field	1	2	3	4
A. Init Hydro	1569.0	1569.0	0.0	0.0	0.0
B. First Flow	91.0	96.0	0.0	0.0	0.0
B1. Final Flow	182.0	182.0	0.0	0.0	0.0
C. In Shut-in	526.0	525.0	0.0	0.0	0.0
D. Init Flow	233.0	227.0	0.0	0.0	0.0
E. Final Flow	183.0	281.0	0.0	0.0	0.0
F. Fl Shut-in	516.0	514.0	0.0	0.0	0.0
G. Final Hydro	1559.0	1548.0	0.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1043 hr
T ON BOTM 1120 hr
T OPEN 1124 hr
T PULLED 1354 hr
T OUT 1530 hr

RECOVERY
Tot Fluid 710.00 ft of 0.00 ft in DC and 710.00 ft in DP
50.00 ft of Gassy Mud 5%gas 95%mud
0.00 ft of
300.00 ft of Gassy Mud & Water Cut Oil
0.00 ft of 10% gas 40% oil 20% water 5% mud
330.00 ft of Gassy water & mud cut oil
0.00 ft of 40% gas 30% oil 25% water 5% mud
30.00 ft of salt water
0.00 ft of Rw .15 @ 75
SALINITY 47000.00 P.P.M. A.P.I. Gravity 35.00

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

Tool Wt.	2300.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	0.00 lbs
Initial Str Wt	30000.00 lbs
Unseated Str Wt	0.00 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	3101.00 ft

BLOW DESCRIPTION
Initial Flow:
Strong blow, bottom of bucket in 30sec
gas to surface in 15min (SEE REPORT)

Initial Shut In:
1.5" blow building to bottom of
bucket in 15 minutes

Final Flow:
Gauging gas - See Report

Final Shut In:
Blow built to 11"

SAMPLES:
SENT TO:

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

Mud Type	Chemical
Weight	9.40 lb/c
Vis.	50.00 S/L
W.L.	8.80 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.	Ron Nelson
Contr.	Discovery Drlg
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Casey #5

LOCATION : 4-16S-12W Barton KS

TICKET No. 9792 D.S.T. No. 3 DATE 3/10/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 20

TOTAL TOOL 40

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 70

D.C. ABOVE TOOLS.Stands Single Total

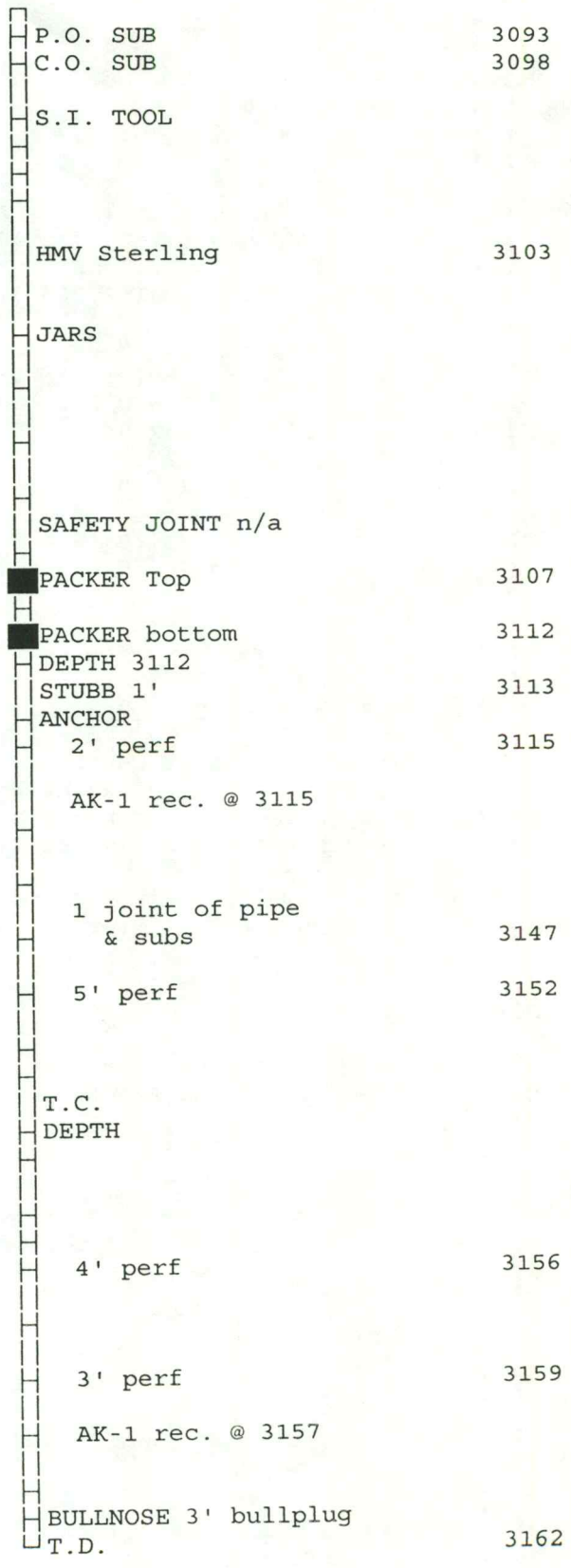
D.P. ABOVE TOOLS.Stands50 Single Total 3101

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3171

TOTAL DEPTH 3162

TOTAL DRILL PIPE ABOVE K.B. 9

REMARKS:



GAS RECOVERY

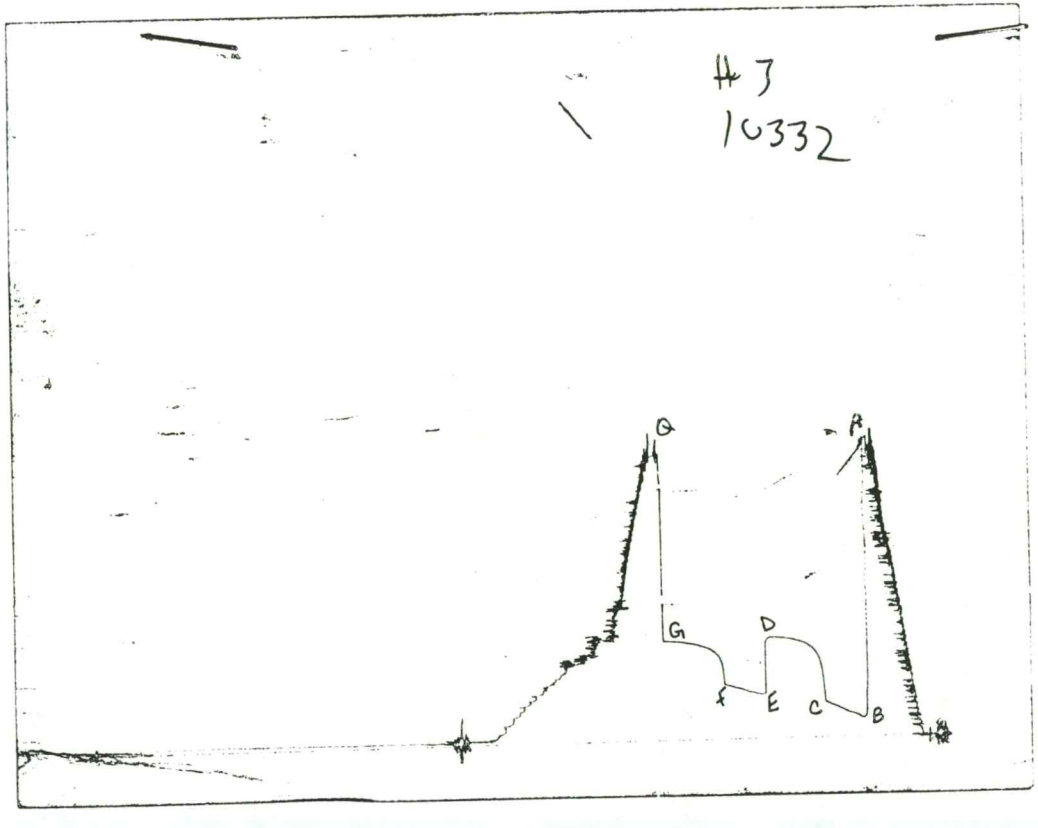
COMPANY: Maxwell Operating Co DATE: 3/10/97
WELL NAME: Casey #5 KB Elev: 1889.00 ft TICKET #9792 DST #3
WELL LOCATION: 4-16S-12W Barton KS GR Elev: 1881.00 ft FORMATION: Lansing KS "E-F"
INTERVAL Fr.: 3112.00 To 3162.00 T.D.: 61620.00 ft TEST TYPE: CONV

GAS RECOVERY MEASURED WITH Merla Gauge

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
15	0.25	0	18	7120.0
20	0.25	0	24	8220.0
25	0.25	0	22	7880.0
30	0.25	0	22	7880.0

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

Test Ticket

№ 9792

Well Name & No. Casey A-5 Test No. 3 Date 3-10-97

Company Maxwell Operating Company Zone Tested L/KC E-F

Address _____ Elevation 1889 KB 1881 GL

Co. Rep / Geo. Roy Nelson Cont. Discovery #1 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 4 Twp. 16S Rge. 12W Co. Barton State Ks

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

Interval Tested 3112-3162 Initial Str Wt./Lbs. 30,000 Unseated Str Wt./Lbs. _____

Anchor Length 50 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. _____

Top Packer Depth 3107 Tool Weight 2300

Bottom Packer Depth 3112 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____

Total Depth 3162 Wt. Pipe Run _____ Drill Collar Run _____

Mud Wt. 9.4 LCM _____ Vis. 50 WL 8.8 Drill Pipe Size 4½ XH Ft. Run 3101

Blow Description strong - blow bottom of bucket in 30 seconds Gas to surface in 15 minutes - see report ISI - 1½" blow building to EF- gauging gas - see report FSI - blow built to 11"

Recovery — Total Feet 710 GIP _____ Ft. in DC _____ Ft. in DP 710

Rec. 50	Feet Of	gassy mud	5 %gas	%oil	%water	95 %mud
Rec. 300	Feet Of	gassy MCW	10 %gas	40 %oil	20 %water	30 %mud
Rec. 330	Feet Of	gassy WCM	40 %gas	30 %oil	25 %water	5 %mud
Rec. 30	Feet Of	salt water	%gas	%oil	%water	%mud
Rec. _____	Feet Of	_____	%gas	%oil	%water	%mud

BHT 109 °F Gravity 36 °API D@ 70 °F Corrected Gravity 35 °API

RW .15 @ 75 °F Chlorides 47,000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud	1569 PSI	Recorder No.	24174	T-Started	1043
(B) First Initial Flow Pressure	91 PSI	(depth)	3115	T-Open	1124
(C) First Final Flow Pressure	182 PSI	Recorder No.	10332	T-Pulled	1354
(D) Initial Shut-in Pressure	526 PSI	(depth)	3157	T-Out	1530
(E) Second Initial Flow Pressure	233 PSI	Recorder No.	_____		
(F) Second Final Flow Pressure	283 PSI	(depth)	_____		
(G) Final Shut-in Pressure	516 PSI	Initial Opening	30	Test	600
(H) Final Hydrostatic Mud	1559 PSI	Initial Shut-in	45	Jars	_____
		Final Flow	30	Safety Joint	_____
		Final Shut-in	45	Straddle	_____
		50 stands		Circ. Sub	_____
		_____		Sampler	_____
				Extra Packer	_____
				Elect. Rec.	_____
				Other	_____
				TOTAL PRICE $	600

TRILOBIITE 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 Paul Simpson

TRILOBITE TESTING

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

GAS VOLUME REPORT

Maxwell Operating — OPERATOR

Casey #5 — WELL NAME AND NO.

3 — DST NO.

Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
5	18	1/4	7.12	10	12	1/4	5.86
10	24	"	8.22	20	04	1/4	3.37
15	22	"	7.88	30	—	—	TSTM
30	22		7.88				

Remarks: GTS 15 minutes into IF

ICR

TRILOBITE TESTING L.L.C.

OPERATOR : Maxwell Operating
WELL NAME: Casey #5
LOCATION : 04-16s-12w Barton KS
INTERVAL : 3302.00 To 3325.00 ft

DATE 03-11-97
KB 1889.00 ft
GR 1881.00 ft
TD 3325.00 ft
TICKET NO: 9793 DST #4
FORMATION: Gorham Sand
TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10332	10332	2357		
SI 45	Range(Psi)	4050.0	4050.0	4995.0	0.0	0.0
SF 30	Clock(hrs)	12	12	Elec		
FS 45	Depth(ft)	3320.0	3320.0	3305.0	0.0	0.0

TIME DATA----------
PF Fr. 0905 to 0935 hr
IS Fr. 0935 to 1020 hr
SF Fr. 1020 to 1050 hr
FS Fr. 1050 to 1135 hr

	Field	1	2	3	4
A. Init Hydro	1722.0	1719.0	1679.0	0.0	0.0
B. First Flow	71.0	55.0	36.0	0.0	0.0
B1. Final Flow	142.0	138.0	58.0	0.0	0.0
C. In Shut-in	1065.0	1046.0	1066.0	0.0	0.0
D. Init Flow	172.0	181.0	158.0	0.0	0.0
E. Final Flow	263.0	272.0	272.0	0.0	0.0
F. Fl Shut-in	1044.0	1023.0	1025.0	0.0	0.0
G. Final Hydro	1661.0	1646.0	1648.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0820 hr
T ON BOTM 0902 hr
T OPEN 0905 hr
T PULLED 1135 hr
T OUT 1310 hr

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

Tool Wt.	2000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	32000.00 lbs
Initial Str Wt	32000.00 lbs
Unseated Str Wt	32000.00 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	3286.00 ft

RECOVERY
Tot Fluid 600.00 ft of 0.00 ft in DC and 600.00 ft in DP
180.00 ft of Water & Mud Cut Oil
0.00 ft of 60% oil 30% water 10% mud
120.00 ft of Gassy Water & Mud Cut Oil
0.00 ft of 20% gas 50% oil 25% water 5%
60.00 ft of Slight Oil Cut Water
0.00 ft of 10% oil 90% water
240.00 ft of Salt Water
0.00 ft of Rw .3 @ 70
SALINITY 23000.00 P.P.M. A.P.I. Gravity 0.00

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

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	55.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	117.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Paul Simpson
Co. Rep.	Ron Nelson
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
1" blow building to bottom of bucket in 6 minutes

Initial Shut In:
Weak surface blow

Final Flow:
3/4" blow building to bottom of bucket in 10 minutes

Final Shut In:
Weak surface blow building to 1/8"

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Casey #5

LOCATION : 04-16s-12w Barton KS

TICKET No. 9793 D.S.T. No. 4 DATE 03-11-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 23

TOTAL TOOL 43

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 43

D.C. ABOVE TOOLS.Stands Single Total

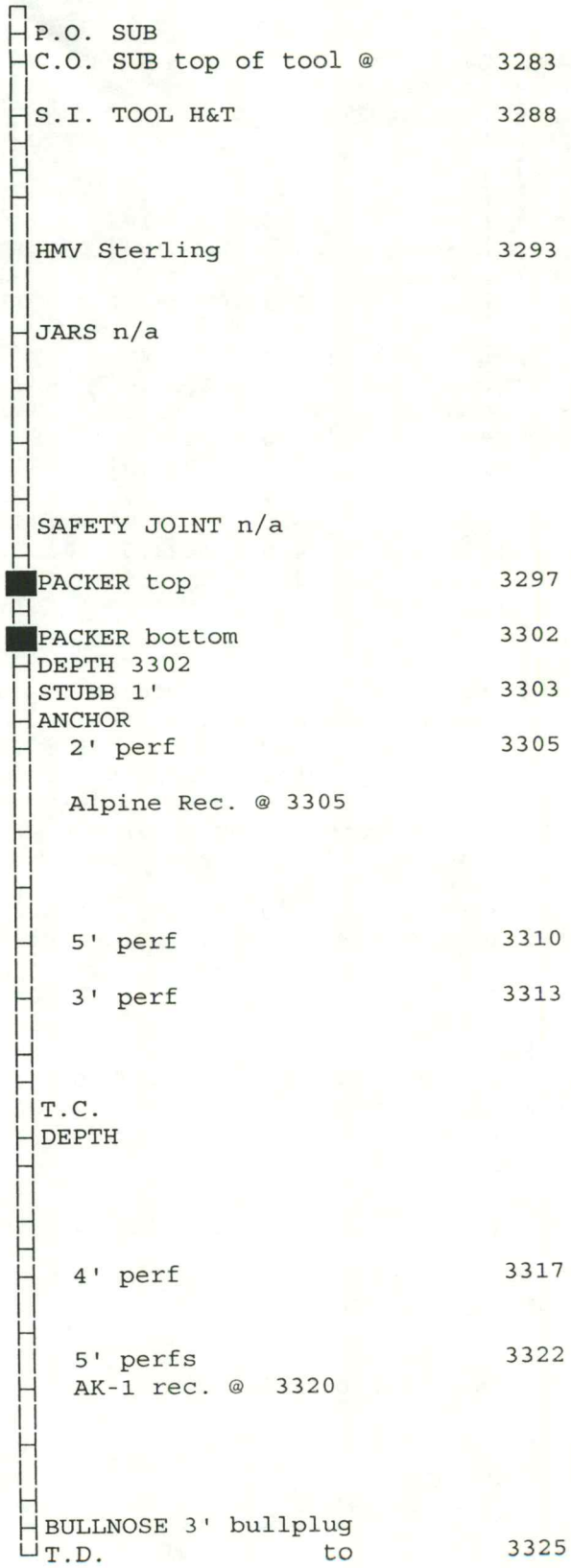
D.P. ABOVE TOOLS.Stands53 Single Total 3286

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3329

TOTAL DEPTH 3325

TOTAL DRILL PIPE ABOVE K.B. 4

REMARKS:



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9793 Maxwell Operating Casey #5 DST #4

DATE: 03/11/97 TIME: 07:57:01

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	66.50	1679.2	0.0	95.49		
****** Start Flow 1	0.00	36.5	0.0	95.61		
	0.25	97.3	60.8	95.71		
	0.50	57.2	20.7	95.83		
	0.75	40.8	4.3	95.94		
	1.00	38.8	2.3	96.06		
	1.25	52.5	16.0	96.19		
	1.50	137.0	100.5	96.32		
	1.75	43.8	7.3	96.47		
	2.00	42.9	6.4	96.62		
	2.25	43.9	7.4	96.78		
	2.50	45.1	8.6	96.93		
	2.75	46.4	9.9	97.09		
	3.00	47.5	11.0	97.23		
	3.25	49.8	13.3	97.38		
	3.50	152.3	115.8	97.53		
	3.75	57.6	21.1	97.68		
	4.00	54.5	18.0	97.84		
	4.25	56.4	19.9	98.00		
	4.50	57.1	20.6	98.16		
	4.75	58.0	21.5	98.34		
	5.00	58.8	22.3	98.53		
	5.25	59.8	23.3	98.73		
	5.50	60.7	24.2	98.95		
	5.75	61.1	24.6	99.17		
	6.00	61.7	25.2	99.42		
	6.25	62.6	26.1	99.68		
	6.50	63.6	27.1	99.95		
	6.75	64.5	28.0	100.22		
	7.00	65.7	29.2	100.49		
	7.25	67.0	30.5	100.77		
	7.50	68.0	31.5	101.05		
	7.75	68.9	32.4	101.33		
	8.00	69.8	33.3	101.62		
	8.25	70.7	34.2	101.91		
	8.50	71.7	35.2	102.20		
	8.75	72.4	35.9	102.49		
	9.00	73.6	37.1	102.77		
	9.25	74.7	38.2	103.06		
	9.50	75.5	39.0	103.35		
	9.75	76.8	40.3	103.64		
	10.00	77.9	41.4	103.93		
	10.25	79.1	42.6	104.22		
	10.50	80.2	43.7	104.52		
	10.75	81.2	44.7	104.81		
	11.00	82.2	45.7	105.10		
	11.25	83.7	47.2	105.38		
	11.50	84.7	48.2	105.68		
	11.75	85.4	48.9	105.96		
	12.00	86.5	50.0	106.25		
	12.25	87.6	51.1	106.54		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9793 Maxwell Operating Casey #5 DST #4

DATE: 03/11/97 TIME: 07:57:01

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
12.50	89.0	52.5	106.83		
12.75	90.0	53.5	107.11		
13.00	91.1	54.6	107.39		
13.25	92.1	55.6	107.67		
13.50	93.1	56.6	107.96		
13.75	94.2	57.7	108.23		
14.00	95.2	58.7	108.50		
14.25	96.2	59.7	108.76		
14.50	97.1	60.6	109.02		
14.75	98.2	61.7	109.27		
15.00	99.2	62.7	109.52		
15.25	100.5	64.0	109.75		
15.50	101.6	65.1	109.99		
15.75	102.5	66.0	110.22		
16.00	103.6	67.1	110.45		
16.25	104.5	68.0	110.66		
16.50	105.6	69.1	110.87		
16.75	106.5	70.0	111.08		
17.00	107.4	70.9	111.28		
17.25	108.4	71.9	111.47		
17.50	109.4	72.9	111.67		
17.75	110.4	73.9	111.87		
18.00	111.4	74.9	112.05		
18.25	112.7	76.2	112.23		
18.50	113.8	77.3	112.41		
18.75	114.6	78.1	112.59		
19.00	115.6	79.1	112.77		
19.25	116.5	80.0	112.94		
19.50	112.5	76.0	113.11		
19.75	113.3	76.8	113.27		
20.00	113.5	77.0	113.42		
20.25	114.5	78.0	113.58		
20.50	115.6	79.1	113.73		
20.75	116.7	80.2	113.88		
21.00	118.2	81.7	114.02		
21.25	119.3	82.8	114.17		
21.50	120.4	83.9	114.31		
21.75	121.4	84.9	114.45		
22.00	122.4	85.9	114.57		
22.25	123.2	86.7	114.70		
22.50	123.7	87.2	114.82		
22.75	124.0	87.5	114.94		
23.00	124.6	88.1	115.06		
23.25	125.9	89.4	115.17		
23.50	126.8	90.3	115.28		
23.75	128.1	91.6	115.39		
24.00	129.2	92.7	115.49		
24.25	130.5	94.0	115.59		
24.50	131.7	95.2	115.69		
24.75	132.8	96.3	115.78		
25.00	133.9	97.4	115.87		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9793 Maxwell Operating Casey #5 DST #4

DATE: 03/11/97 TIME: 07:57:01

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.25	134.9	98.4	115.96		
	25.50	136.3	99.8	116.05		
	25.75	137.3	100.8	116.13		
	26.00	138.3	101.8	116.21		
	26.25	139.1	102.6	116.29		
	26.50	140.3	103.8	116.37		
	26.75	141.2	104.7	116.44		
	27.00	142.3	105.8	116.52		
	27.25	143.3	106.8	116.58		
	27.50	144.3	107.8	116.65		
	27.75	145.3	108.8	116.71		
	28.00	146.1	109.6	116.78		
	28.25	147.1	110.6	116.84		
	28.50	148.1	111.6	116.91		
	28.75	149.3	112.8	116.97		
	29.00	150.2	113.7	117.03		
	29.25	151.1	114.6	117.08		
	29.50	152.2	115.7	117.13		
	29.75	153.2	116.7	117.19		
	30.00	153.9	117.4	117.24		
	30.25	154.8	118.3	117.28		
	30.50	155.6	119.1	117.33		
	30.75	156.7	120.2	117.38		
****** End Flow 1	31.00	157.7	121.2	117.42		
****** Start Shutin 1	0.00	157.7	0.0	117.42	0.0000	0.025
	0.25	333.9	176.2	117.46	125.0000	0.111
	0.50	905.1	747.4	117.51	63.0000	0.819
	0.75	975.1	817.4	117.55	42.3333	0.951
	1.00	995.1	837.4	117.58	32.0000	0.990
	1.25	1004.1	846.4	117.62	25.8000	1.008
	1.50	1010.1	852.5	117.64	21.6667	1.020
	1.75	1014.8	857.2	117.64	18.7143	1.030
	2.00	1018.4	860.7	117.64	16.5000	1.037
	2.25	1021.4	863.7	117.63	14.7778	1.043
	2.50	1024.0	866.3	117.61	13.4000	1.049
	2.75	1026.3	868.6	117.60	12.2727	1.053
	3.00	1028.2	870.5	117.58	11.3333	1.057
	3.25	1029.9	872.2	117.54	10.5385	1.061
	3.50	1031.5	873.8	117.53	9.8571	1.064
	3.75	1032.7	875.0	117.52	9.2667	1.067
	4.00	1034.2	876.5	117.51	8.7500	1.069
	4.25	1035.2	877.5	117.49	8.2941	1.072
	4.50	1036.4	878.7	117.48	7.8889	1.074
	4.75	1037.4	879.7	117.46	7.5263	1.076
	5.00	1038.3	880.7	117.45	7.2000	1.078
	5.25	1039.2	881.5	117.44	6.9048	1.080
	5.50	1040.1	882.4	117.43	6.6364	1.082
	5.75	1040.9	883.2	117.42	6.3913	1.083
	6.00	1041.5	883.8	117.41	6.1667	1.085
	6.25	1042.2	884.5	117.41	5.9600	1.086
	6.50	1043.0	885.3	117.40	5.7692	1.088

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9793 Maxwell Operating Casey #5 DST #4

DATE: 03/11/97 TIME: 07:57:01

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
6.75	1043.6	885.9	117.39	5.5926	1.089
7.00	1044.1	886.4	117.39	5.4286	1.090
7.25	1044.7	887.0	117.38	5.2759	1.091
7.50	1045.3	887.6	117.38	5.1333	1.093
7.75	1045.7	888.0	117.38	5.0000	1.094
8.00	1046.2	888.5	117.36	4.8750	1.095
8.25	1046.8	889.1	117.36	4.7576	1.096
8.50	1047.3	889.6	117.36	4.6471	1.097
8.75	1047.7	890.1	117.36	4.5429	1.098
9.00	1048.2	890.5	117.35	4.4444	1.099
9.25	1048.6	890.9	117.34	4.3514	1.100
9.50	1049.0	891.3	117.33	4.2632	1.100
9.75	1049.3	891.6	117.32	4.1795	1.101
10.00	1049.8	892.1	117.32	4.1000	1.102
10.25	1050.1	892.4	117.31	4.0244	1.103
10.50	1050.4	892.7	117.30	3.9524	1.103
10.75	1050.8	893.1	117.28	3.8837	1.104
11.00	1051.1	893.4	117.27	3.8182	1.105
11.25	1051.4	893.7	117.26	3.7556	1.105
11.50	1051.7	894.0	117.25	3.6957	1.106
11.75	1052.0	894.3	117.23	3.6383	1.107
12.00	1052.4	894.8	117.21	3.5833	1.108
12.25	1052.7	895.0	117.20	3.5306	1.108
12.50	1052.9	895.3	117.16	3.4800	1.109
12.75	1053.2	895.5	117.15	3.4314	1.109
13.00	1053.4	895.7	117.13	3.3846	1.110
13.25	1053.8	896.1	117.12	3.3396	1.110
13.50	1053.9	896.2	117.09	3.2963	1.111
13.75	1054.2	896.5	117.07	3.2545	1.111
14.00	1054.5	896.8	117.04	3.2143	1.112
14.25	1054.7	897.0	117.02	3.1754	1.112
14.50	1054.9	897.2	117.00	3.1379	1.113
14.75	1055.0	897.4	116.97	3.1017	1.113
15.00	1055.2	897.5	116.95	3.0667	1.113
15.25	1055.5	897.8	116.92	3.0328	1.114
15.50	1055.6	897.9	116.89	3.0000	1.114
15.75	1055.7	898.0	116.88	2.9683	1.115
16.00	1056.1	898.4	116.86	2.9375	1.115
16.25	1056.2	898.5	116.85	2.9077	1.116
16.50	1056.4	898.7	116.81	2.8788	1.116
16.75	1056.6	898.9	116.80	2.8507	1.116
17.00	1056.7	899.0	116.78	2.8235	1.117
17.25	1056.9	899.2	116.76	2.7971	1.117
17.50	1057.0	899.3	116.74	2.7714	1.117
17.75	1057.1	899.5	116.73	2.7465	1.118
18.00	1057.3	899.6	116.71	2.7222	1.118
18.25	1057.6	899.9	116.70	2.6986	1.118
18.50	1057.7	900.0	116.68	2.6757	1.119
18.75	1057.9	900.2	116.67	2.6533	1.119
19.00	1058.1	900.4	116.65	2.6316	1.120
19.25	1058.2	900.5	116.64	2.6104	1.120

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9793 Maxwell Operating Casey #5 DST #4

DATE: 03/11/97 TIME: 07:57:01

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
19.50	1058.4	900.7	116.63	2.5897	1.120
19.75	1058.4	900.7	116.61	2.5696	1.120
20.00	1058.6	900.9	116.59	2.5500	1.121
20.25	1058.7	901.0	116.58	2.5309	1.121
20.50	1058.9	901.2	116.56	2.5122	1.121
20.75	1059.0	901.3	116.55	2.4940	1.121
21.00	1059.2	901.5	116.52	2.4762	1.122
21.25	1059.2	901.6	116.52	2.4588	1.122
21.50	1059.5	901.8	116.48	2.4419	1.123
21.75	1059.6	901.9	116.46	2.4253	1.123
22.00	1059.7	902.1	116.44	2.4091	1.123
22.25	1059.8	902.1	116.42	2.3933	1.123
22.50	1059.9	902.2	116.40	2.3778	1.123
22.75	1060.1	902.4	116.37	2.3626	1.124
23.00	1060.2	902.5	116.35	2.3478	1.124
23.25	1060.3	902.6	116.33	2.3333	1.124
23.50	1060.4	902.7	116.30	2.3191	1.124
23.75	1060.5	902.8	116.27	2.3053	1.125
24.00	1060.5	902.8	116.25	2.2917	1.125
24.25	1060.7	903.0	116.22	2.2784	1.125
24.50	1060.8	903.1	116.19	2.2653	1.125
24.75	1060.8	903.1	116.17	2.2525	1.125
25.00	1060.9	903.2	116.14	2.2400	1.126
25.25	1060.9	903.2	116.12	2.2277	1.126
25.50	1061.1	903.4	116.10	2.2157	1.126
25.75	1061.3	903.6	116.07	2.2039	1.126
26.00	1061.3	903.7	116.05	2.1923	1.126
26.25	1061.4	903.7	116.02	2.1810	1.127
26.50	1061.5	903.8	116.00	2.1698	1.127
26.75	1061.6	903.9	115.98	2.1589	1.127
27.00	1061.7	904.0	115.96	2.1481	1.127
27.25	1061.8	904.1	115.94	2.1376	1.127
27.50	1061.9	904.2	115.92	2.1273	1.128
27.75	1061.9	904.2	115.89	2.1171	1.128
28.00	1062.0	904.3	115.87	2.1071	1.128
28.25	1062.1	904.4	115.85	2.0973	1.128
28.50	1062.3	904.6	115.83	2.0877	1.128
28.75	1062.3	904.7	115.80	2.0783	1.129
29.00	1062.4	904.7	115.78	2.0690	1.129
29.25	1062.5	904.8	115.76	2.0598	1.129
29.50	1062.6	904.9	115.74	2.0508	1.129
29.75	1062.7	905.0	115.72	2.0420	1.129
30.00	1062.7	905.0	115.70	2.0333	1.129
30.25	1062.8	905.1	115.70	2.0248	1.129
30.50	1062.9	905.2	115.68	2.0164	1.130
30.75	1062.9	905.2	115.66	2.0081	1.130
31.00	1063.0	905.3	115.63	2.0000	1.130
31.25	1063.0	905.3	115.62	1.9920	1.130
31.50	1063.1	905.4	115.60	1.9841	1.130
31.75	1063.2	905.5	115.59	1.9764	1.130
32.00	1063.2	905.5	115.58	1.9688	1.130

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9793 Maxwell Operating Casey #5 DST #4

DATE: 03/11/97 TIME: 07:57:01

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	32.25	1063.3	905.7	115.56	1.9612	1.131
	32.50	1063.3	905.7	115.54	1.9538	1.131
	32.75	1063.3	905.7	115.53	1.9466	1.131
	33.00	1063.5	905.8	115.50	1.9394	1.131
	33.25	1063.6	905.9	115.50	1.9323	1.131
	33.50	1063.7	906.0	115.48	1.9254	1.131
	33.75	1063.8	906.1	115.47	1.9185	1.132
	34.00	1063.8	906.1	115.46	1.9118	1.132
	34.25	1063.9	906.2	115.44	1.9051	1.132
	34.50	1063.9	906.2	115.43	1.8986	1.132
	34.75	1063.9	906.2	115.41	1.8921	1.132
	35.00	1064.0	906.3	115.41	1.8857	1.132
	35.25	1064.2	906.5	115.39	1.8794	1.132
	35.50	1064.2	906.5	115.38	1.8732	1.132
	35.75	1064.3	906.6	115.37	1.8671	1.133
	36.00	1064.3	906.6	115.36	1.8611	1.133
	36.25	1064.4	906.7	115.35	1.8552	1.133
	36.50	1064.4	906.7	115.34	1.8493	1.133
	36.75	1064.4	906.7	115.33	1.8435	1.133
	37.00	1064.4	906.7	115.31	1.8378	1.133
	37.25	1064.5	906.8	115.31	1.8322	1.133
	37.50	1064.6	906.9	115.29	1.8267	1.133
	37.75	1064.7	907.0	115.28	1.8212	1.134
	38.00	1064.8	907.1	115.26	1.8158	1.134
	38.25	1064.9	907.2	115.26	1.8105	1.134
	38.50	1064.9	907.2	115.24	1.8052	1.134
	38.75	1064.9	907.3	115.24	1.8000	1.134
	39.00	1065.0	907.3	115.22	1.7949	1.134
	39.25	1065.1	907.4	115.21	1.7898	1.134
	39.50	1065.2	907.5	115.19	1.7848	1.135
	39.75	1065.2	907.5	115.18	1.7799	1.135
	40.00	1065.2	907.5	115.17	1.7750	1.135
	40.25	1065.3	907.6	115.16	1.7702	1.135
	40.50	1065.4	907.7	115.15	1.7654	1.135
	40.75	1065.4	907.7	115.13	1.7607	1.135
	41.00	1065.4	907.8	115.12	1.7561	1.135
	41.25	1065.5	907.8	115.11	1.7515	1.135
	41.50	1065.5	907.8	115.09	1.7470	1.135
	41.75	1065.6	907.9	115.08	1.7425	1.136
	42.00	1065.6	907.9	115.07	1.7381	1.136
	42.25	1065.7	908.0	115.05	1.7337	1.136
	42.50	1065.8	908.1	115.04	1.7294	1.136
	42.75	1065.9	908.2	115.03	1.7251	1.136
	43.00	1065.9	908.2	115.02	1.7209	1.136
	43.25	1065.9	908.3	115.01	1.7168	1.136
	43.50	1065.9	908.3	114.99	1.7126	1.136
	43.75	1065.9	908.3	114.98	1.7086	1.136
	44.00	1066.0	908.4	114.97	1.7045	1.136
	44.25	1066.1	908.4	114.96	1.7006	1.137
	44.50	1066.2	908.5	114.95	1.6966	1.137
****** End Shut-in 1	44.75	1066.2	908.5	114.93	1.6927	1.137

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9793 Maxwell Operating Casey #5 DST #4

DATE: 03/11/97 TIME: 07:57:01

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Start Flow 2	0.00	158.2	0.0	114.91		
	0.25	159.1	0.9	114.90		
	0.50	159.9	1.7	114.89		
	0.75	160.7	2.5	114.88		
	1.00	161.7	3.5	114.88		
	1.25	162.6	4.4	114.87		
	1.50	163.7	5.5	114.88		
	1.75	164.4	6.2	114.88		
	2.00	165.3	7.1	114.89		
	2.25	166.3	8.1	114.90		
	2.50	167.3	9.1	114.91		
	2.75	168.4	10.2	114.94		
	3.00	169.5	11.3	114.95		
	3.25	170.4	12.3	114.98		
	3.50	171.5	13.3	115.01		
	3.75	172.4	14.2	115.05		
	4.00	173.3	15.1	115.09		
	4.25	174.3	16.1	115.14		
	4.50	175.2	17.0	115.19		
	4.75	176.2	18.0	115.25		
	5.00	177.2	19.1	115.30		
	5.25	178.3	20.1	115.37		
	5.50	179.3	21.1	115.43		
	5.75	180.4	22.2	115.49		
	6.00	181.4	23.2	115.57		
	6.25	182.4	24.2	115.63		
	6.50	183.5	25.3	115.71		
	6.75	184.5	26.3	115.78		
	7.00	185.4	27.2	115.86		
	7.25	186.3	28.1	115.93		
	7.50	187.4	29.2	116.01		
	7.75	188.5	30.3	116.08		
	8.00	189.5	31.3	116.16		
	8.25	190.4	32.2	116.24		
	8.50	191.4	33.2	116.32		
	8.75	192.4	34.2	116.39		
	9.00	193.4	35.2	116.47		
	9.25	194.5	36.3	116.54		
	9.50	195.4	37.2	116.61		
	9.75	196.4	38.2	116.68		
	10.00	197.3	39.1	116.75		
	10.25	198.3	40.1	116.82		
	10.50	199.2	41.0	116.89		
	10.75	200.3	42.1	116.96		
	11.00	201.3	43.1	117.02		
	11.25	202.2	44.0	117.08		
	11.50	203.2	45.0	117.15		
	11.75	204.1	45.9	117.21		
	12.00	205.1	46.9	117.27		
	12.25	206.0	47.8	117.32		
	12.50	207.0	48.8	117.38		
	12.75	208.0	49.8	117.43		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9793 Maxwell Operating Casey #5 DST #4

DATE: 03/11/97 TIME: 07:57:01

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
13.00	208.9	50.7	117.49		
13.25	209.9	51.7	117.54		
13.50	210.9	52.7	117.59		
13.75	211.7	53.5	117.64		
14.00	212.7	54.5	117.68		
14.25	213.7	55.5	117.73		
14.50	214.7	56.5	117.77		
14.75	215.6	57.4	117.81		
15.00	216.5	58.3	117.85		
15.25	217.5	59.3	117.89		
15.50	218.4	60.2	117.93		
15.75	219.3	61.1	117.98		
16.00	220.2	62.0	118.01		
16.25	221.1	62.9	118.05		
16.50	221.9	63.7	118.08		
16.75	222.9	64.7	118.11		
17.00	223.8	65.6	118.16		
17.25	224.8	66.6	118.19		
17.50	225.8	67.6	118.22		
17.75	226.7	68.5	118.25		
18.00	227.6	69.4	118.28		
18.25	228.4	70.2	118.32		
18.50	229.4	71.2	118.34		
18.75	230.3	72.1	118.38		
19.00	231.1	72.9	118.39		
19.25	232.1	73.9	118.43		
19.50	233.1	74.9	118.45		
19.75	233.9	75.7	118.48		
20.00	234.7	76.5	118.50		
20.25	235.7	77.5	118.52		
20.50	236.6	78.4	118.55		
20.75	237.5	79.3	118.57		
21.00	238.5	80.3	118.60		
21.25	239.3	81.1	118.61		
21.50	240.2	82.0	118.64		
21.75	241.1	82.9	118.66		
22.00	242.0	83.8	118.68		
22.25	242.9	84.7	118.70		
22.50	243.9	85.7	118.72		
22.75	244.7	86.5	118.74		
23.00	245.6	87.5	118.75		
23.25	246.6	88.4	118.77		
23.50	247.4	89.2	118.79		
23.75	248.3	90.1	118.80		
24.00	249.2	91.0	118.82		
24.25	250.2	92.0	118.84		
24.50	251.0	92.8	118.85		
24.75	251.9	93.7	118.86		
25.00	252.8	94.6	118.89		
25.25	253.7	95.5	118.90		
25.50	254.5	96.3	118.91		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9793 Maxwell Operating Casey #5 DST #4

DATE: 03/11/97 TIME: 07:57:01

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.75	255.4	97.2	118.92		
	26.00	256.3	98.1	118.93		
	26.25	257.1	99.0	118.95		
	26.50	258.0	99.8	118.95		
	26.75	258.7	100.5	118.97		
	27.00	259.7	101.5	118.98		
	27.25	260.5	102.3	118.99		
	27.50	261.3	103.1	119.00		
	27.75	262.3	104.1	119.01		
	28.00	263.2	105.0	119.01		
	28.25	264.1	105.9	119.03		
	28.50	265.0	106.8	119.03		
	28.75	265.8	107.6	119.05		
	29.00	266.6	108.4	119.05		
	29.25	267.6	109.4	119.06		
	29.50	268.4	110.2	119.07		
	29.75	269.3	111.1	119.08		
	30.00	270.2	112.0	119.09		
	30.25	270.9	112.7	119.09		
	30.50	271.6	113.4	119.10		
****** End Flow 2	30.75	272.2	114.0	119.11		
****** Start Shutin 2	0.00	272.2	0.0	119.11	0.0000	0.074
	0.25	313.7	41.5	119.12	248.0000	0.098
	0.50	909.8	637.6	119.13	124.5000	0.828
	0.75	976.1	703.9	119.15	83.3333	0.953
	1.00	991.9	719.8	119.16	62.7500	0.984
	1.25	999.7	727.5	119.17	50.4000	0.999
	1.50	1004.9	732.8	119.18	42.1667	1.010
	1.75	1008.7	736.6	119.20	36.2857	1.018
	2.00	1011.8	739.7	119.21	31.8750	1.024
	2.25	1014.3	742.2	119.22	28.4444	1.029
	2.50	1016.5	744.4	119.24	25.7000	1.033
	2.75	1018.5	746.3	119.24	23.4545	1.037
	3.00	1020.1	747.9	119.25	21.5833	1.041
	3.25	1021.6	749.4	119.26	20.0000	1.044
	3.50	1022.9	750.7	119.27	18.6429	1.046
	3.75	1024.1	751.9	119.27	17.4667	1.049
	4.00	1025.3	753.1	119.28	16.4375	1.051
	4.25	1026.1	753.9	119.25	15.5294	1.053
	4.50	1027.1	754.9	119.28	14.7222	1.055
	4.75	1028.0	755.9	119.28	14.0000	1.057
	5.00	1028.9	756.7	119.28	13.3500	1.059
	5.25	1029.6	757.4	119.29	12.7619	1.060
	5.50	1030.2	758.0	119.29	12.2273	1.061
	5.75	1030.9	758.7	119.29	11.7391	1.063
	6.00	1031.6	759.5	119.28	11.2917	1.064
	6.25	1032.1	760.0	119.27	10.8800	1.065
	6.50	1032.7	760.6	119.28	10.5000	1.067
	6.75	1033.2	761.1	119.28	10.1481	1.068
	7.00	1033.7	761.6	119.27	9.8214	1.069
	7.25	1034.3	762.1	119.29	9.5172	1.070

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9793 Maxwell Operating Casey #5 DST #4

DATE: 03/11/97 TIME: 07:57:01

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
7.50	1034.7	762.6	119.26	9.2333	1.071
7.75	1035.2	763.1	119.26	8.9677	1.072
8.00	1035.6	763.4	119.26	8.7188	1.072
8.25	1036.1	763.9	119.26	8.4848	1.073
8.50	1036.6	764.4	119.25	8.2647	1.075
8.75	1036.9	764.8	119.25	8.0571	1.075
9.00	1037.3	765.1	119.24	7.8611	1.076
9.25	1037.7	765.5	119.23	7.6757	1.077
9.50	1038.1	765.9	119.23	7.5000	1.078
9.75	1038.4	766.3	119.21	7.3333	1.078
10.00	1038.8	766.6	119.21	7.1750	1.079
10.25	1039.0	766.8	119.21	7.0244	1.080
10.50	1039.4	767.2	119.20	6.8810	1.080
10.75	1039.6	767.4	119.18	6.7442	1.081
11.00	1039.9	767.7	119.18	6.6136	1.081
11.25	1040.3	768.1	119.17	6.4889	1.082
11.50	1040.4	768.3	119.17	6.3696	1.083
11.75	1040.7	768.5	119.16	6.2553	1.083
12.00	1040.9	768.8	119.16	6.1458	1.084
12.25	1041.3	769.1	119.13	6.0408	1.084
12.50	1041.5	769.3	119.13	5.9400	1.085
12.75	1041.7	769.5	119.12	5.8431	1.085
13.00	1041.9	769.7	119.11	5.7500	1.085
13.25	1042.2	770.0	119.10	5.6604	1.086
13.50	1042.5	770.3	119.09	5.5741	1.087
13.75	1042.7	770.5	119.08	5.4909	1.087
14.00	1042.8	770.6	119.07	5.4107	1.087
14.25	1043.0	770.9	119.07	5.3333	1.088
14.50	1043.3	771.1	119.04	5.2586	1.088
14.75	1043.6	771.4	119.03	5.1864	1.089
15.00	1043.7	771.5	119.02	5.1167	1.089
15.25	1043.8	771.6	119.01	5.0492	1.090
15.50	1044.0	771.8	119.00	4.9839	1.090
15.75	1044.2	772.1	118.99	4.9206	1.090
16.00	1044.4	772.2	118.98	4.8594	1.091
16.25	1044.6	772.4	118.97	4.8000	1.091
16.50	1044.7	772.6	118.95	4.7424	1.091
16.75	1044.9	772.7	118.94	4.6866	1.092
17.00	1045.1	773.0	118.92	4.6324	1.092
17.25	1045.2	773.1	118.91	4.5797	1.093
17.50	1045.4	773.2	118.90	4.5286	1.093
17.75	1045.6	773.5	118.89	4.4789	1.093
18.00	1045.8	773.6	118.88	4.4306	1.094
18.25	1045.9	773.7	118.87	4.3836	1.094
18.50	1046.1	773.9	118.85	4.3378	1.094
18.75	1046.2	774.0	118.84	4.2933	1.094
19.00	1046.3	774.2	118.83	4.2500	1.095
19.25	1046.5	774.3	118.82	4.2078	1.095
19.50	1046.7	774.5	118.80	4.1667	1.095
19.75	1046.7	774.6	118.79	4.1266	1.096
20.00	1046.8	774.7	118.77	4.0875	1.096

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9793 Maxwell Operating Casey #5 DST #4

DATE: 03/11/97 TIME: 07:57:01

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
20.25	1046.9	774.7	118.77	4.0494	1.096
20.50	1047.2	775.0	118.75	4.0122	1.097
20.75	1047.2	775.1	118.74	3.9759	1.097
21.00	1047.5	775.3	118.73	3.9405	1.097
21.25	1047.6	775.4	118.72	3.9059	1.097
21.50	1047.6	775.4	118.70	3.8721	1.097
21.75	1047.7	775.6	118.69	3.8391	1.098
22.00	1047.9	775.7	118.67	3.8068	1.098
22.25	1048.0	775.8	118.66	3.7753	1.098
22.50	1048.2	776.0	118.65	3.7444	1.099
22.75	1048.2	776.1	118.64	3.7143	1.099
23.00	1048.2	776.1	118.62	3.6848	1.099
23.25	1048.3	776.2	118.61	3.6559	1.099
23.50	1048.5	776.3	118.59	3.6277	1.099
23.75	1048.8	776.7	118.58	3.6000	1.100
24.00	1048.8	776.7	118.56	3.5729	1.100
24.25	1048.9	776.7	118.55	3.5464	1.100
24.50	1049.0	776.8	118.54	3.5204	1.100
24.75	1049.2	777.0	118.53	3.4949	1.101
25.00	1049.3	777.1	118.51	3.4700	1.101
25.25	1049.3	777.2	118.50	3.4455	1.101
25.50	1049.5	777.3	118.49	3.4216	1.101
25.75	1049.6	777.4	118.47	3.3981	1.102
26.00	1049.6	777.4	118.45	3.3750	1.102
26.25	1049.8	777.6	118.43	3.3524	1.102
26.50	1049.8	777.7	118.42	3.3302	1.102
26.75	1049.9	777.8	118.41	3.3084	1.102
27.00	1050.0	777.8	118.39	3.2870	1.103
27.25	1050.1	777.9	118.38	3.2661	1.103
27.50	1050.1	777.9	118.38	3.2455	1.103
27.75	1050.3	778.1	118.36	3.2252	1.103
28.00	1050.3	778.2	118.35	3.2054	1.103
28.25	1050.5	778.3	118.35	3.1858	1.104
28.50	1050.7	778.5	118.32	3.1667	1.104
28.75	1050.8	778.6	118.31	3.1478	1.104
29.00	1050.8	778.7	118.30	3.1293	1.104
29.25	1050.8	778.7	118.28	3.1111	1.104
29.50	1050.8	778.6	118.27	3.0932	1.104
29.75	1051.0	778.9	118.26	3.0756	1.105
30.00	1051.1	778.9	118.25	3.0583	1.105
30.25	1051.2	779.0	118.24	3.0413	1.105
30.50	1051.2	779.0	118.22	3.0246	1.105
30.75	1051.3	779.1	118.21	3.0081	1.105
31.00	1051.4	779.3	118.19	2.9919	1.106
31.25	1051.4	779.3	118.18	2.9760	1.106
31.50	1051.5	779.3	118.17	2.9603	1.106
31.75	1051.7	779.5	118.16	2.9449	1.106
32.00	1051.7	779.5	118.14	2.9297	1.106
32.25	1051.8	779.6	118.13	2.9147	1.106
32.50	1051.9	779.7	118.11	2.9000	1.106
32.75	1051.9	779.7	118.11	2.8855	1.106

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9793 Maxwell Operating Casey #5 DST #4

DATE: 03/11/97 TIME: 07:57:01

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	33.00	1051.9	779.8	118.10	2.8712	1.107
	33.25	1052.0	779.9	118.08	2.8571	1.107
	33.50	1052.1	779.9	118.07	2.8433	1.107
	33.75	1052.2	780.0	118.06	2.8296	1.107
	34.00	1052.2	780.0	118.05	2.8162	1.107
	34.25	1052.4	780.2	118.04	2.8029	1.107
	34.50	1052.4	780.3	118.03	2.7899	1.108
	34.75	1052.4	780.3	118.02	2.7770	1.108
	35.00	1052.5	780.4	118.01	2.7643	1.108
	35.25	1052.6	780.4	117.99	2.7518	1.108
	35.50	1052.7	780.5	117.99	2.7394	1.108
	35.75	1052.7	780.5	117.97	2.7273	1.108
	36.00	1052.8	780.6	117.97	2.7153	1.108
	36.25	1052.9	780.7	117.95	2.7034	1.109
	36.50	1052.9	780.8	117.94	2.6918	1.109
	36.75	1053.0	780.9	117.93	2.6803	1.109
	37.00	1053.1	780.9	117.93	2.6689	1.109
	37.25	1053.1	780.9	117.91	2.6577	1.109
	37.50	1053.2	781.0	117.90	2.6467	1.109
	37.75	1053.2	781.0	117.90	2.6358	1.109
	38.00	1053.4	781.2	117.89	2.6250	1.110
	38.25	1053.4	781.2	117.87	2.6144	1.110
	38.50	1053.4	781.2	117.87	2.6039	1.110
	38.75	1053.4	781.3	117.85	2.5935	1.110
	39.00	1053.6	781.4	117.85	2.5833	1.110
	39.25	1053.6	781.4	117.83	2.5732	1.110
	39.50	1053.7	781.5	117.83	2.5633	1.110
	39.75	1053.7	781.5	117.80	2.5535	1.110
	40.00	1053.8	781.6	117.79	2.5438	1.110
	40.25	1053.9	781.7	117.79	2.5342	1.111
	40.50	1053.9	781.7	117.77	2.5247	1.111
	40.75	1054.0	781.8	117.76	2.5153	1.111
	41.00	1054.0	781.8	117.74	2.5061	1.111
	41.25	1054.0	781.8	117.73	2.4970	1.111
	41.50	1054.0	781.9	117.73	2.4880	1.111
	41.75	1054.2	782.0	117.72	2.4790	1.111
	42.00	1054.2	782.0	117.71	2.4702	1.111
	42.25	1054.3	782.1	117.70	2.4615	1.112
	42.50	1054.4	782.2	117.70	2.4529	1.112
	42.75	1054.4	782.2	117.68	2.4444	1.112
	43.00	1054.5	782.3	117.68	2.4360	1.112
	43.25	1054.5	782.3	117.67	2.4277	1.112
	43.50	1054.6	782.5	117.66	2.4195	1.112
	43.75	1054.6	782.5	117.65	2.4114	1.112
	44.00	1054.6	782.5	117.63	2.4034	1.112
	44.25	1054.7	782.5	117.63	2.3955	1.112
	44.50	1054.8	782.6	117.62	2.3876	1.113
****** End Shut-in 2	44.75	1024.5	752.3	117.61	2.3799	1.050
****** Final Hydro.	219.25	1648.1	0.0	117.53		

TEST HISTORY

9793 Maxwell Operating Casey #5 DST #4

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1679.22
B:	0.00	36.50
C:	31.00	157.69
D:	44.75	1066.21
E:	0.00	158.20
F:	30.75	272.17
G:	44.75	1024.50
Q:	0.00	1648.08

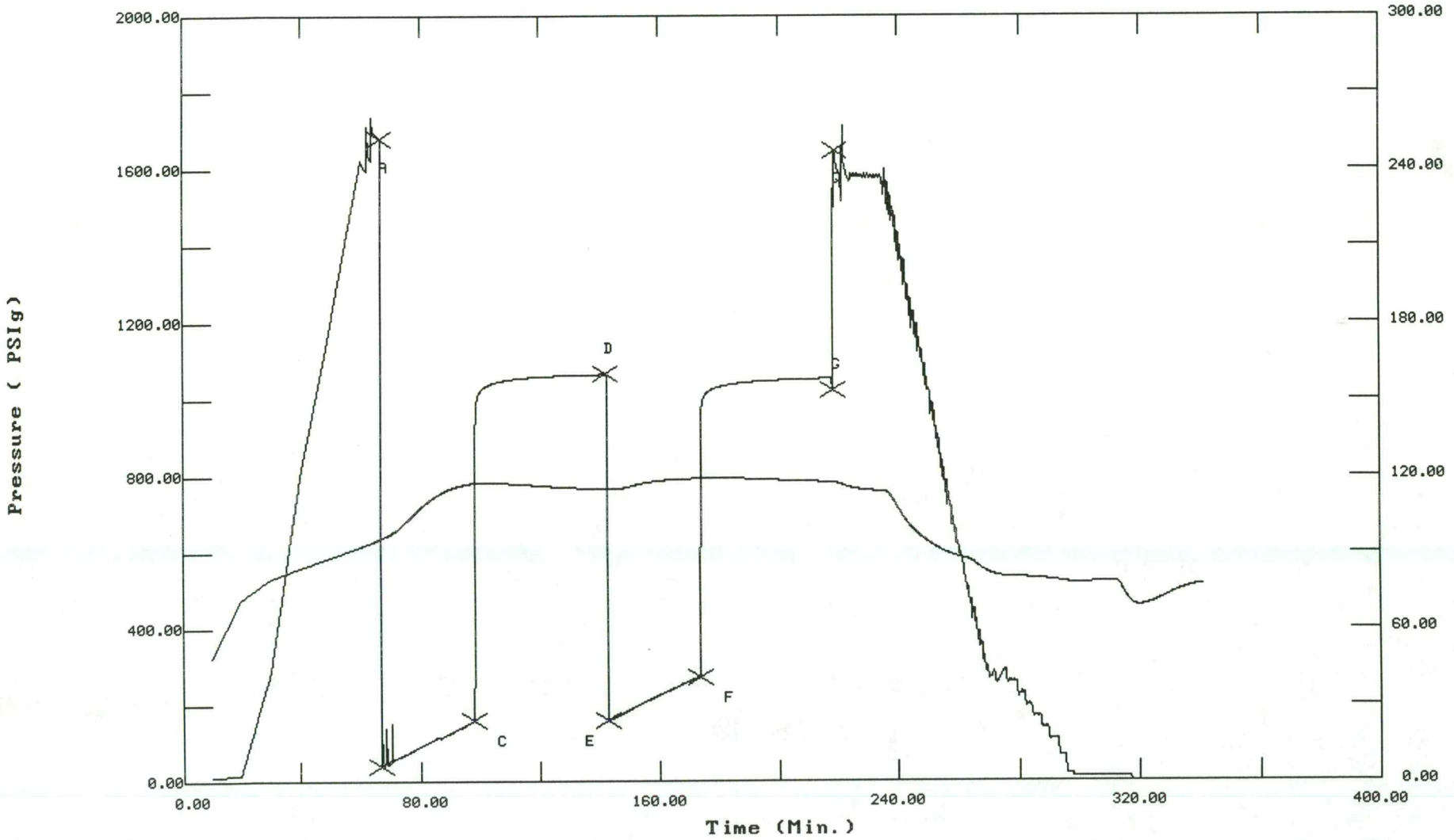
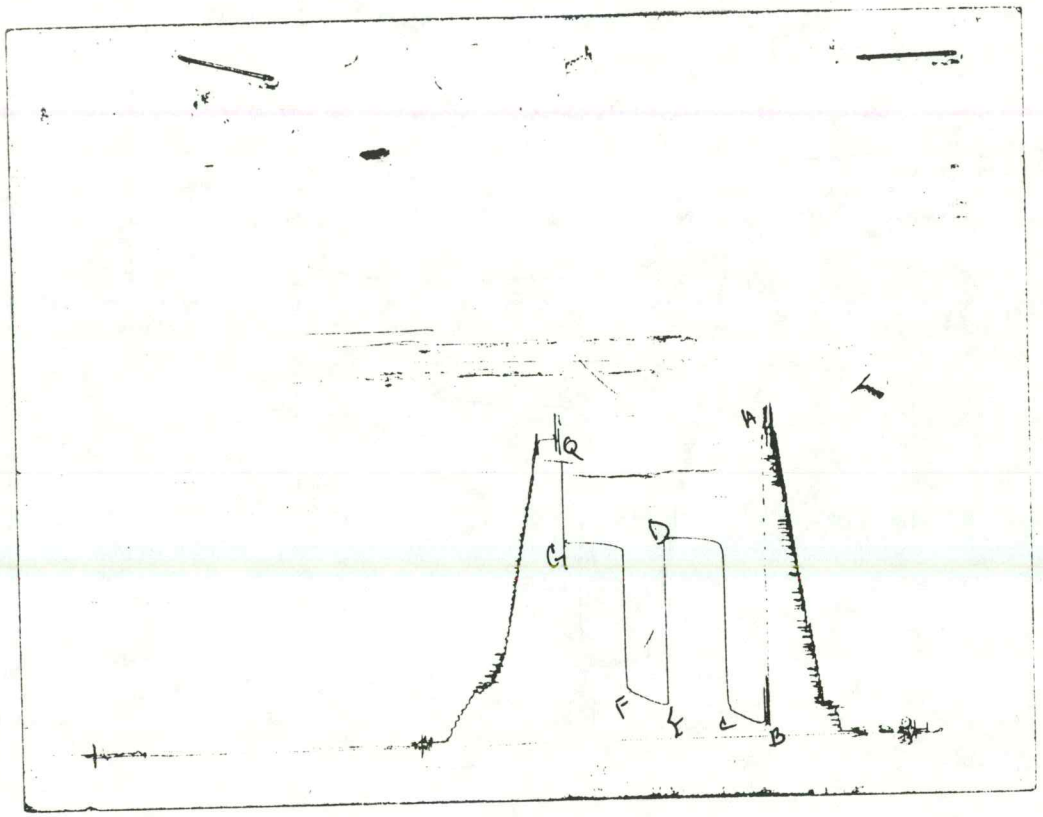


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 9793

Well Name & No. Casey #5 Test No. 4 Date 3-11-97

Company Maxwell Operating Company Zone Tested Gorham Sand

Address _____ Elevation 1889 KB 1881 GL

Co. Rep / Geo. Ron Nelson Cont. Discovery #1 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 4 Twp. 16s Rge. 12w Co. Barton State Ks

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

Interval Tested 3302 - 3325 Initial Str Wt./Lbs. 32,000 Unseated Str Wt./Lbs. ____

Anchor Length 23 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. ____

Top Packer Depth 3297 Tool Weight 2000

Bottom Packer Depth 3302 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 3325 Wt. Pipe Run ____ Drill Collar Run ____

Mud Wt. 9.3 LCM ____ Vis. 55 WL 8.8 Drill Pipe Size 4½ XH Ft. Run 3286

Blow Description IF - blow building to bottom of bucket in 6 minutes
ISI - surface blow
FF - ¾" blow building to bottom of bucket in 10 minutes
FSI - surface blow building to ⅛"

Recovery — Total Feet 600 GIP ____ Ft. in DC ____ Ft. in DP ____

Rec. 180	Feet Of W+MCO		%gas 60	%oil 30	%water 10	%mud
Rec. 120	Feet Of Cassy W+MCO	20	%gas 50	%oil 25	%water 5	%mud
Rec. 60	Feet Of SOCW		%gas 10	%oil 90	%water	%mud
Rec. 240	Feet Of saltwater		%gas trace	%oil 100	%water	%mud
Rec. ____	Feet Of ____		%gas	%oil	%water	%mud

BHT 117 °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides ____ ppm System

(A) Initial Hydrostatic Mud	1722	1679	PSI	Recorder No. 2357	T-Started	0820
(B) First Initial Flow Pressure	71	36	PSI	(depth) 3305	T-Open	0905
(C) First Final Flow Pressure	142	158	PSI	Recorder No. 10332	T-Pulled	1135
(D) Initial Shut-in Pressure	1065	1066	PSI	(depth) 3320	T-Out	1310
(E) Second Initial Flow Pressure	172	158	PSI	Recorder No. ____		
(F) Second Final Flow Pressure	263	272	PSI	(depth) ____		
(G) Final Shut-in Pressure	1044	1025	PSI	Initial Opening 30	Test	1600
(H) Final Hydrostatic Mud	1661	1648	PSI	Initial Shut-in 45	Jars	____
AK-1				Final Flow 30	Safety Joint	____
				Final Shut-in 45	Straddle	____
				53 stands	Circ. Sub	____
				____	Sampler	____
					Extra Packer	____
					Elect. Rec.	150
					Other	750

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Approved By Brian K Kelso