15-175-21503

Computer Inventoried

ORIGINAL

Well Name:	**WENDY MARIE #1-30**				
Company :	**AMOCO PRODUCTION COMPANY**				
Location - Sec:	**30**	**Twp:**	**31S**	**Rge:**	**32W**
County:	**SEWARD**	**State:**	**KS**		
Date:	**11/7/95**				

CONFIDENTIAL

RELEASED

APR 6 1998

FROM CONFIDENTIAL

KCC

FEB 13

CONFIDENTIAL

30-31-32 w

RECEIVED
KANSAS CORPORATION COMMISSION

FEB 15 1996

CONSERVATION DIVISION
WICHITA, KS

TRILOBITE TESTING L.L.C.

OPERATOR : Amoco Prod. Company DATE 11-5-95
WELL NAME: Wendy Marie #1-30 KB 2875.00 ft TICKET NO: 8256 DST #1
LOCATION : 30-31S-32W, Seward Cty KS GR 0.00 ft FORMATION: Marmaton
INTERVAL : 4885.00 To 4970.00 ft TD 5016.00 ft TEST TYPE: CONV. STRADDLE

RECORDER DATA

Mins		Field	1	2	3	4
PF 10	Rec.	2386	2836	2341	1055	
SI 30	Range(Psi)	3500.0	3500.0	4995.0	4050.0	0.0
SF 120	Clock(hrs)	AK-1	AK-1	Alpin	AK-1	
FS 120	Depth(ft)	4964.0	4964.0	4944.0	5013.0	0.0

TIME DATA----------
PF Fr. 1032 to 1042 hr
IS Fr. 1042 to 1142 hr
SF Fr. 1142 to 1342 hr
FS Fr. 1342 to 1442 hr

	Field	1	2	3	4
A. Init Hydro	2667.0	2668.0	2556.0	0.0	0.0
B. First Flow	119.0	137.0	85.0	0.0	0.0
B1. Final Flow	119.0	137.0	121.0	0.0	0.0
C. In Shut-in	333.0	339.0	373.0	0.0	0.0
D. Init Flow	205.0	211.0	168.0	0.0	0.0
E. Final Flow	256.0	278.0	295.0	0.0	0.0
F. Fl Shut-in	342.0	360.0	383.0	0.0	0.0
G. Final Hydro	2351.0	2367.0	2342.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0800 hr
T ON BOTM 1030 hr
T OPEN 1032 hr
T PULLED 1442 hr
T OUT 1800 hr

RECOVERY
Tot Fluid 240.00 ft of 240.00 ft in DC and 0.00 ft in DP
240.00 ft of Drilling mud

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

Tool Wt.	18000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	115000.00 lbs
Initial Str Wt	80000.00 lbs
Unseated Str Wt	95000.00 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	630.00 ft
D.P. Length	4345.00 ft

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

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

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	51.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop Y	5.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	119.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	4
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Mike Colantonio
Co. Rep.	Austin Garner
Contr.	Cheyene Drlg.
Rig #	4
Unit #	
Pump T.	

BLOW DESCRIPTION

Initial Blow -
Weak blow, built to 4.5" blow

Initial Shutin -
Bled off 2", no blow

Final Blow -
Built to 2.5"

Final Shutin -
Bled off 2", no blow back

RELEASED
APR 6 1998
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SAMPLES:
SENT TO:

Test Successful: Y

TEST HISTORY

8256 DST#1 Wendy Marie#1-30 Amoco Prod. Comp.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2558.10
B:	0.00	85.68
C:	10.00	121.35
D:	50.00	373.89
E:	0.00	168.94
F:	114.00	295.92
G:	64.00	383.29
Q:	0.00	2342.25

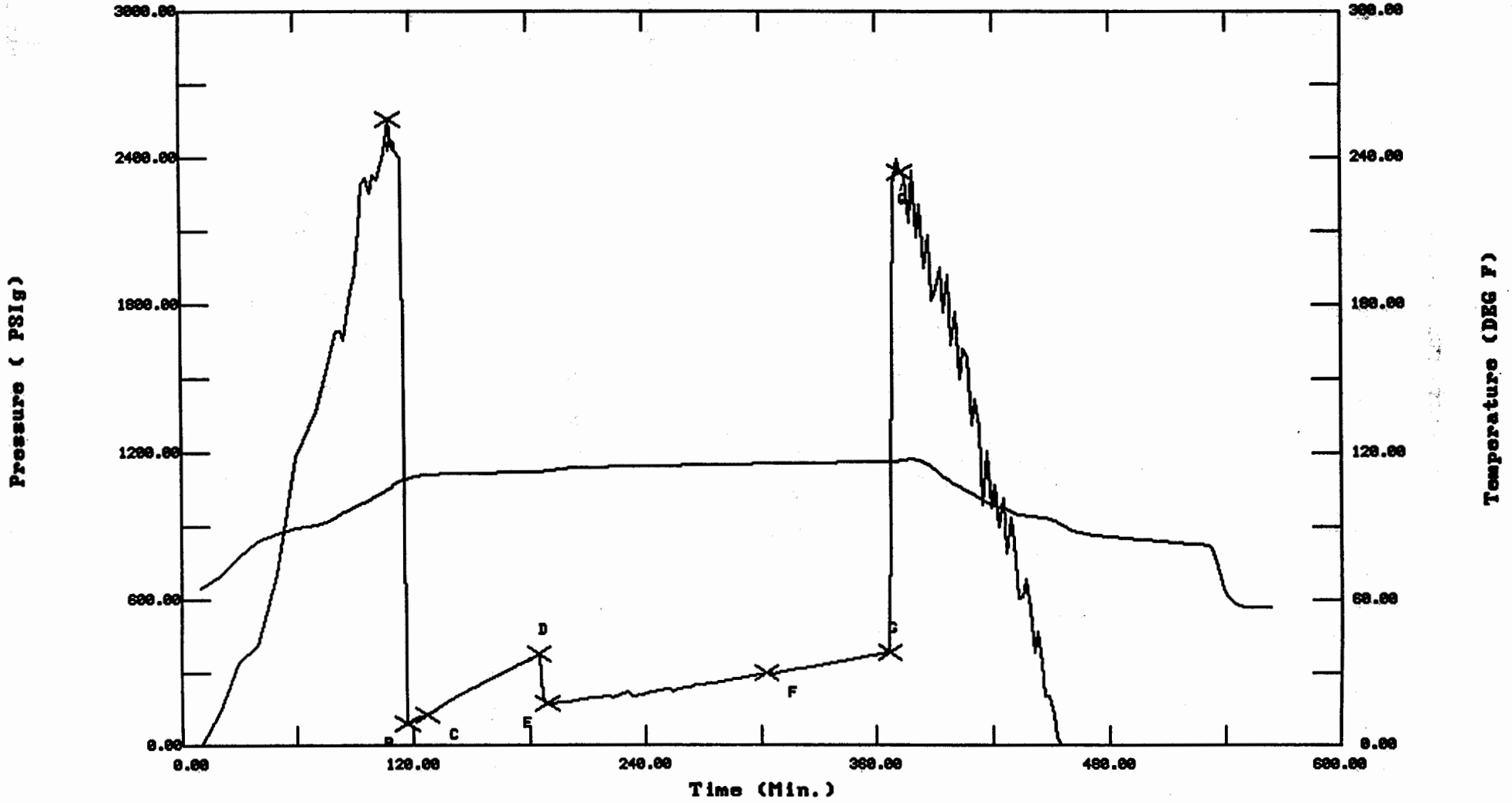
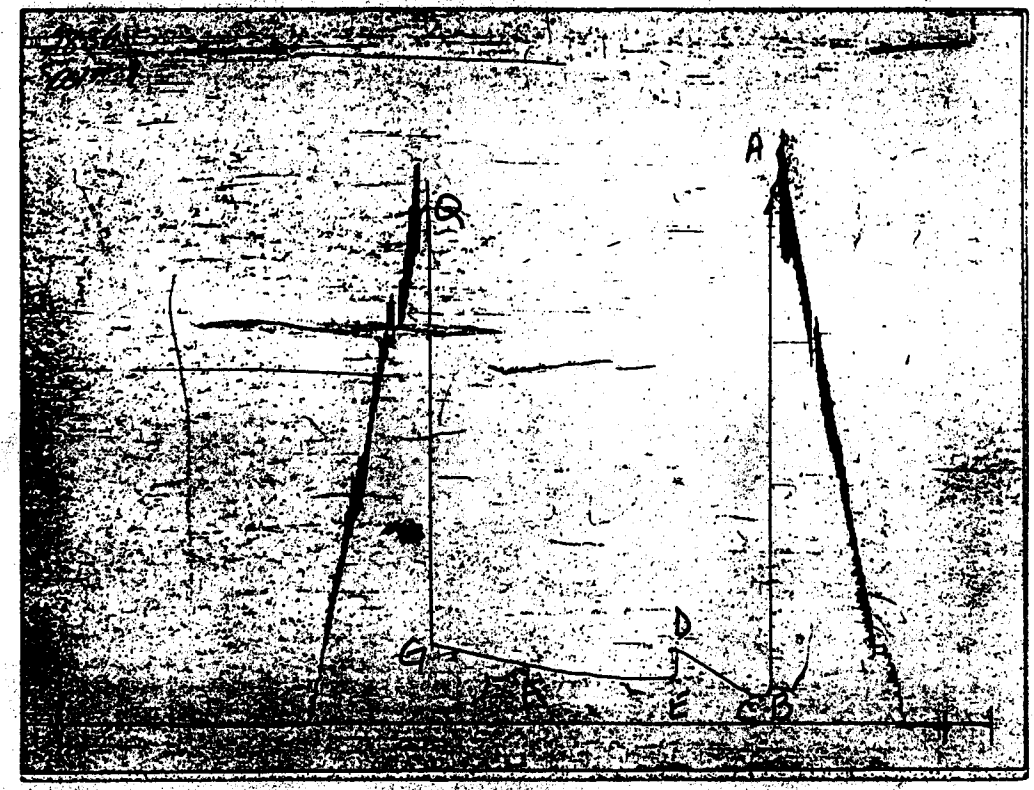
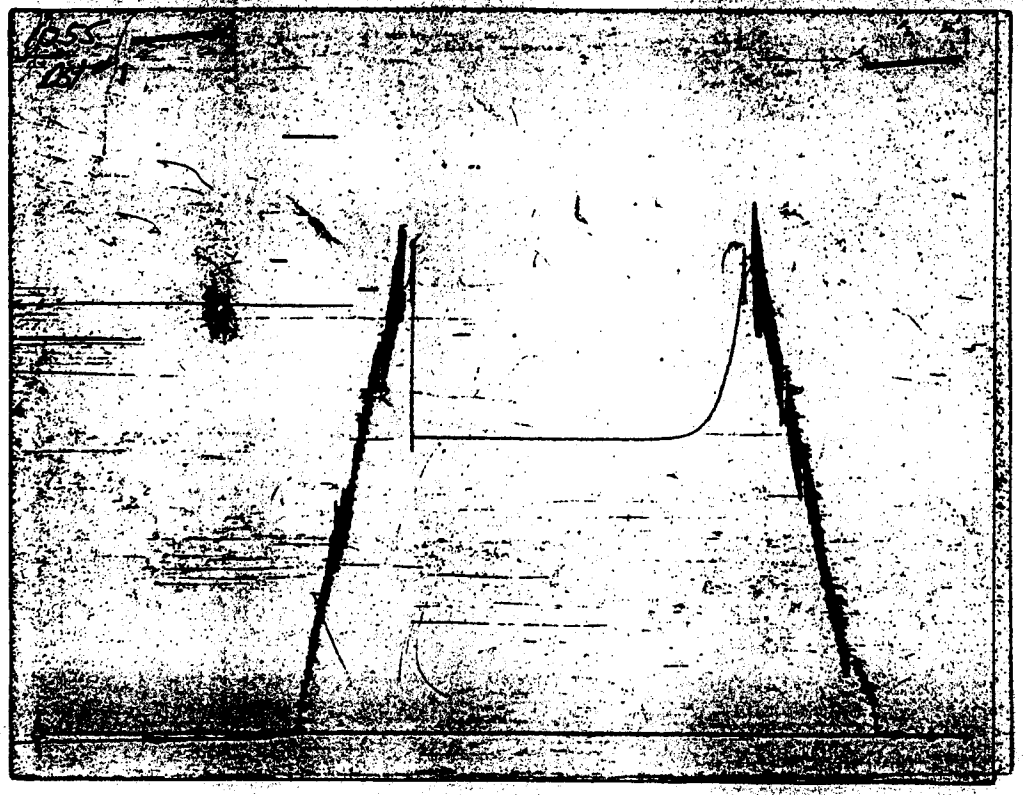


CHART PAGE



This is an actual photograph of recorder chart

CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8256 DST#1 Wendy Marie#1-30 Amoco Prod. Comp.

DATE: 11/05/95 TIME: 08:35:05

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	109.00	2556.1	0.0	105.80		
****** Start Flow 1	0.00	85.7	0.0	109.22		
	2.00	96.3	10.7	109.76		
	4.00	104.2	18.5	110.12		
	6.00	109.9	24.3	110.30		
	8.00	115.6	30.0	110.66		
****** End Flow 1	10.00	121.4	35.7	110.84		
****** Start Shutin 1	0.00	121.4	0.0	110.84	0.0000	0.015
	2.00	133.4	12.0	111.02	6.0000	0.018
	4.00	144.6	23.2	111.20	3.5000	0.021
	6.00	154.9	33.6	111.20	2.6667	0.024
	8.00	165.2	43.9	111.38	2.2500	0.027
	10.00	174.9	53.5	111.38	2.0000	0.031
	12.00	184.4	63.0	111.38	1.8333	0.034
	14.00	193.8	72.4	111.56	1.7143	0.038
	16.00	202.5	81.2	111.56	1.6250	0.041
	18.00	211.6	90.2	111.56	1.5556	0.045
	20.00	220.4	99.0	111.56	1.5000	0.049
	22.00	229.1	107.8	111.56	1.4545	0.052
	24.00	237.3	116.0	111.56	1.4167	0.056
	26.00	245.9	124.5	111.56	1.3846	0.060
	28.00	254.3	132.9	111.74	1.3571	0.065
	30.00	262.6	141.3	111.74	1.3333	0.069
	32.00	270.6	149.2	111.74	1.3125	0.073
	34.00	278.6	157.3	111.74	1.2941	0.078
	36.00	286.7	165.3	111.74	1.2778	0.082
	38.00	294.8	173.5	111.92	1.2632	0.087
	40.00	302.9	181.5	111.92	1.2500	0.092
	42.00	310.9	189.5	111.92	1.2381	0.097
	44.00	318.7	197.4	111.92	1.2273	0.102
	46.00	326.6	205.2	111.92	1.2174	0.107
	48.00	334.4	213.0	111.92	1.2083	0.112
	50.00	342.3	221.0	112.10	1.2000	0.117
	52.00	350.1	228.8	112.10	1.1923	0.123
	54.00	358.1	236.8	112.10	1.1852	0.128
	56.00	366.0	244.6	112.10	1.1786	0.134
****** End Shut-in 1	58.00	373.9	252.5	112.28	1.1724	0.140
****** Start Flow 2	0.00	168.9	0.0	112.46		
	2.00	176.5	7.6	112.82		
	4.00	172.6	3.7	113.00		
	6.00	176.3	7.4	113.36		
	8.00	178.8	9.9	113.36		
	10.00	179.3	10.3	113.54		
	12.00	180.4	11.4	113.72		
	14.00	183.5	14.5	113.72		
	16.00	183.1	14.2	113.72		
	18.00	187.7	18.7	113.90		
	20.00	189.2	20.3	113.90		
	22.00	194.2	25.3	114.08		
	24.00	193.2	24.3	114.08		
	26.00	196.9	27.9	114.08		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8256 DST#1 Wendy Marie#1-30 Amoco Prod. Comp.

DATE: 11/05/95 TIME: 08:35:05

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	28.00	198.4	29.5	114.08		
	30.00	203.6	34.7	114.08		
	32.00	200.2	31.2	114.08		
	34.00	197.9	29.0	114.26		
	36.00	199.8	30.9	114.44		
	38.00	209.5	40.5	114.44		
	40.00	215.2	46.2	114.62		
	42.00	218.6	49.7	114.62		
	44.00	201.8	32.8	114.80		
	46.00	203.2	34.2	114.80		
	48.00	205.4	36.4	114.80		
	50.00	208.7	39.8	114.80		
	52.00	213.3	44.3	114.80		
	54.00	217.2	48.3	114.80		
	56.00	220.8	51.9	114.80		
	58.00	223.4	54.5	114.80		
	60.00	226.1	57.2	114.80		
	62.00	230.8	61.9	114.80		
	64.00	234.6	65.6	114.80		
	66.00	218.0	49.0	114.80		
	68.00	231.2	62.3	114.80		
	70.00	234.4	65.5	114.80		
	72.00	237.5	68.6	114.98		
	74.00	240.8	71.8	114.98		
	76.00	244.1	75.2	114.98		
	78.00	247.2	78.3	114.98		
	80.00	249.8	80.9	114.98		
	82.00	250.9	81.9	115.16		
	84.00	254.1	85.2	115.16		
	86.00	257.2	88.3	115.16		
	88.00	257.6	88.7	115.16		
	90.00	260.9	92.0	115.16		
	92.00	263.6	94.7	115.16		
	94.00	266.7	97.8	115.34		
	96.00	269.6	100.6	115.34		
	98.00	272.4	103.5	115.34		
	100.00	275.6	106.7	115.34		
	102.00	278.3	109.4	115.34		
	104.00	281.2	112.3	115.34		
	106.00	284.1	115.1	115.34		
	108.00	286.9	118.0	115.52		
	110.00	289.9	120.9	115.52		
	112.00	293.0	124.0	115.52		
****** End Flow 2	114.00	295.9	127.0	115.52		
****** Start Shutin 2	0.00	295.9	0.0	115.52	0.0000	0.088
	2.00	298.5	2.6	115.52	63.0000	0.089
	4.00	294.6	-1.3	115.52	32.0000	0.087
	6.00	298.8	2.9	115.52	21.6667	0.089
	8.00	301.7	5.8	115.52	16.5000	0.091
	10.00	304.7	8.8	115.70	13.4000	0.093
	12.00	307.7	11.7	115.70	11.3333	0.095

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8256 DST#1 Wendy Marie#1-30 Amoco Prod. Comp.

DATE: 11/05/95 TIME: 08:35:05

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	14.00	310.4	14.4	115.70	9.8571	0.096
	16.00	313.1	17.2	115.70	8.7500	0.098
	18.00	316.0	20.1	115.70	7.8889	0.10
	20.00	318.9	23.0	115.70	7.2000	0.102
	22.00	321.9	26.0	115.88	6.6364	0.104
	24.00	324.7	28.8	115.88	6.1667	0.105
	26.00	327.6	31.7	115.88	5.7692	0.107
	28.00	330.6	34.7	115.88	5.4286	0.109
	30.00	333.6	37.7	115.88	5.1333	0.111
	32.00	336.4	40.5	115.88	4.8750	0.113
	34.00	339.3	43.4	115.88	4.6471	0.115
	36.00	342.2	46.3	115.88	4.4444	0.117
	38.00	345.2	49.3	116.06	4.2632	0.119
	40.00	348.0	52.1	116.06	4.1000	0.121
	42.00	351.0	55.1	116.06	3.9524	0.123
	44.00	354.0	58.1	116.06	3.8182	0.125
	46.00	356.9	61.0	116.06	3.6957	0.127
	48.00	359.9	64.0	116.06	3.5833	0.130
	50.00	362.8	66.9	116.06	3.4800	0.132
	52.00	365.7	69.8	116.06	3.3846	0.134
	54.00	368.7	72.8	116.24	3.2963	0.136
	56.00	371.6	75.7	116.24	3.2143	0.138
	58.00	374.6	78.6	116.24	3.1379	0.140
	60.00	377.5	81.6	116.24	3.0667	0.143
	62.00	380.4	84.4	116.24	3.0000	0.145
****** End Shut-in 2	64.00	383.3	87.4	116.24	2.9375	0.147
****** Final Hydro.	373.00	2342.2	0.0	116.96		

*** TOOL DIAGRAM *** CONV. STRADDLE

LL NAME: Wendy Marie #1-30

CATION : 30-31S-32W, Seward Cty KS

CKET No. 8256 D.S.T. No. 1 DATE 11-5-95

TAL TOOL TO BOTTOM OF TOP PACKERS 31

TERVAL TOOL .....

TTOM PACKERS AND ANCHOR 37

TAL TOOL 68

ILL COLLAR ANCHOR IN INTERVAL .....

C. ANCHOR STND.Stands Single Total

P. ANCHOR STND.Stands 1 Single Total 61

TAL ASSEMBLY 129

C. ABOVE TOOLS.Stands10 Single Total 630

P. ABOVE TOOLS.Stands79 Single Total 4282

TAL DRILL COLLARS DRILL PIPE & TOOLS .. 5041

TAL DEPTH 5016

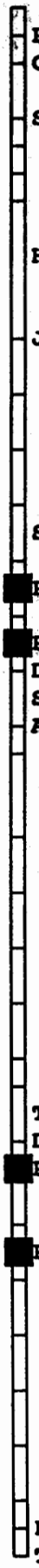
TAL DRILL PIPE ABOVE K.B. 25

MARKS:

FLUID SAMPLER DATA

MPLER RECOVERY -
ud 4000 ml, Pressure 300 PSI, Total 4000 ml

T MUD ANALYSIS -
lorides 1900 ppm, Viscosity 51, Mud Wt 9.1
iltrate 8.8



P.O. SUB	
C.O. SUB Double pin 1'	4846
S.I. TOOL 5 ft	4851
3 ft Sampler	4854
HMV Hyd. 5 ft.	4959
JARS 7 ft	4866
SAFETY JOINT 2 ft	4868
PACKER 5 ft	4872
PACKER 5 ft	4877
DEPTH 4877	
STUBB 1'	4878
ANCHOR	
61' Drill pipe	4939
Alpine recorder	4944
6' pick up sub	4945
5 ft perf	4950
5 ft perf	4955
5 ft perf	4960
AK-1 recorder	4964
5 ft perf	4965
T.C. 1 ft Blank off sub	4966
DEPTH 4966	
PACKER 5 ft Straddle pack	4970
PACKER 5 ft Straddle pack	4975
5 ft perf	4980
31' Drill pipe	5011
1 ft hang sub	5012
1 ft perf	5013
AK-1 recorder	5013
BULLNOSE 3 ft Bullplug	
T.D.	5016

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 8256

Well Name & No. Wendy Marie #1-30 Test No. 1 Date 11-5-95

Company Anadarko Prod. Company Zone Tested Marmaton

Address P.O Box 800 Room 924 Denver Colo. 80201 Elevation 2875 (KB)

Co. Rep./Geo. Austin Gaines Cont. Cheyenne Drlg Rig #4 Est. Ft. of Pay 10?

Location: Sec. 30 Twp. 31 Rge. 32 Co. Seward State KS.

No. of Copies 5 Distribution Sheet ___ Yes X No Turnkey ___ Yes X No ___ Evaluation

Interval Tested 4885 - 4970 Drill Pipe Size 4½ F-Hole

Anchor Length 85' Top Choke — 1" — Bottom Choke — ¾" —

Top Packer Depth 4880 Hole Size — 7⅞" — Rubber Size — 6¾" —

Bottom Packer Depth 4885 Wt. Pipe I.D. — 2.7 Ft. Run —

Total Depth 5016 Drill Collar — 2.25 Ft. Run 630

Mud Wt. 9.1 lb/gal. Viscosity 51 Filtrate 8.8

Tool Open @ 10:32 AM Initial Blow Weak blow built to 4½ in.
I.S.I. Bled OFF 2 in. No blow back

Final Blow Weak blow built to 2½ in.
F.S.I Bled OFF 2 in. NO blow back

Recovery — Total Feet 240 Feet of Gas in Pipe ___ Flush Tool? NO

Rec. 240	Feet Of Drlg 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 119 °F Gravity ___ °API @ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides AK1 ___ ppm Recovery Chlorides 1,900 ppm System

	Alpine	AK1			
(A) Initial Hydrostatic Mud	2556	2667	PSI	AK1 Recorder No. Alpine	Range 4,995
(B) First Initial Flow Pressure	85	119	PSI	@ (depth) 4944	w/Clock No. Electronic
(C) First Final Flow Pressure	121	119	PSI	AK1 Recorder No. 2836	Range 3,500
(D) Initial Shut-In Pressure	373	333	PSI	@ (depth) 4964	w/Clock No. 23935
(E) Second Initial Flow Pressure	168	205	PSI	AK1 Recorder No. 1055	Range 4,050
(F) Second Final Flow Pressure	295	256	PSI	@ (depth) 5013	w/Clock No. 30418
(G) Final Shut-In Pressure	383	342	PSI	Initial Opening 10 min.	Test ✓
(H) Final Hydrostatic Mud	2342	2351	PSI	Initial Shut-In 60 min.	Jars ✓
				Final Flow 120 min.	Safety Joint ✓
				Final Shut-In 60 min.	Straddle ✓
					Circ. Sub ✓ N/C
					Sampler ✓
					Extra Packer 2 Extra ✓
					Other Electronic Rec ✓
					TOTAL PRICE $ ___

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 Austin Gaines

Our Representative Mike Colantonio

Printcraft Printers - Hays, KS

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 8256 Date 11-5-95

Company Name Amoco Production Company

Lease Wendy Marie #1-30 Test No. 1

County Seward Sec. 30 Twp. 31 Rng. 32

SAMPLER RECOVERY

Gas _____ ML

Oil _____ ML

Mud 4,000 ML

Water _____ ML

Other _____ ML

Pressure 300 PSI

Total 4000 ML

PIT MUD ANALYSIS

Chlorides 1900 ppm.

Resistivity _____ ohms @ _____ F

Viscosity 51

Mud Weight 9.1

Filtrate 8.8

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.

OPERATOR : Amoco Prod. Company — DATE 11-7-95
WELL NAME: Wendy Marie #1-30 — KB 2875.00 ft — TICKET NO: 8257 — DST #2
LOCATION : 30-31S-32W, Seward Cty KS — GR 0.00 ft — FORMATION: Morrow
INTERVAL : 5470.00 To 5542.00 ft — TD 5542.00 ft — TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 10	Rec.	2836	2836	2341		
SI 60	Range(Psi)	3500.0	3500.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	AK-1	AK-1	Alpin		
FS 120	Depth(ft)	5539.0	5539.0	5474.0	0.0	0.0

TIME DATA----------
PF Fr. 1202 to 1212 hr
IS Fr. 1212 to 1312 hr
SF Fr. 1312 to 1412 hr
FS Fr. 1412 to 1612 hr

	Field	1	2	3	4
A. Init Hydro	2850.0	2858.0	2874.0	0.0	0.0
B. First Flow	1057.0	1061.0	1092.0	0.0	0.0
B1. Final Flow	1117.0	1122.0	1156.0	0.0	0.0
C. In Shut-in	1613.0	1638.0	1686.0	0.0	0.0
D. Init Flow	1117.0	1126.0	1114.0	0.0	0.0
E. Final Flow	1221.0	1247.0	1267.0	0.0	0.0
F. Fl Shut-in	1613.0	1638.0	1683.0	0.0	0.0
G. Final Hydro	2576.0	2575.0	2653.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0920 hr
T ON BOTM 1200 hr
T OPEN 1202 hr
T PULLED 1612 hr
T OUT 1925 hr

RECOVERY
Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP
5.00 ft of Condensate Gas - 100% gas

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

Tool Wt.	18000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	105000.00 lbs
Initial Str Wt	82000.00 lbs
Unseated Str Wt	62000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.88 in
D.C. Length	601.00 ft
D.P. Length	4871.00 ft

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

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

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	63.00 S/L
W.L.	6.00 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	123.00 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	Mike Colantonio
Co. Rep.	Sam Carmack
Contr.	Cheyenne Drlg.
Rig #	4
Unit #	
Pump T.	

BLOW DESCRIPTION

Initial Blow -
Strong blow, bottom of bucket as soon as open tool; Gas to surface in 2 min, MCF @ 6737, gas will burn

Final Blow -
Very strong blow, bottom of bucket as soon as open tool; MCF @ 2923385

SAMPLES: Yes
SENT TO:Caraway, Liberal KS

Test Successful: Y

GAS RECOVERY

COMPANY: Amoco Prod. Company DATE: 11-7-95
WELL NAME: Wendy Marie #1-30 KB Elev: 2875.00 ft TICKET #8257 DST #2
WELL LOCATION: 30-31-32 GR Elev: 0.00 ft FORMATION: Morrow
INTERVAL Fr.: 5470.00 To 5542.00 T.D.: 5542.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
2	1.50	42	0	3274.0
5	1.50	70	0	4946.0
10	1.50	100	0	6737.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	2.00	70	0	14870.0
10	2.00	100	0	20125830.0
15	2.00	125	0	23629690.0
20	2.00	140	0	27133650.0
25	2.00	140	0	27133650.0
30	2.00	150	0	29233850.0
35	2.00	150	0	29233850.0
40	2.00	150	0	29233850.0
45	2.00	150	0	29233850.0
50	2.00	150	0	29233850.0
55	2.00	150	0	29233850.0
60	2.00	150	0	29233850.0

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, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number:	950620	Analyzed:	11/08/95
Sample From:	Wendy Marie 1-30 DST 2	Pressure:	
Producer:	Amoco Production Co.	Temperature:	
Date:		Location:	30-31-32
Time:		County:	Seward
Sampler:		State:	Kansas
Source:		Formation:	Morrow

		Mole %	GPM
Helium	He:	0.176	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	6.531	0.000
Carbon Dioxide	CO2:	0.487	0.000
Methane	C1:	81.975	0.000
Ethane	C2:	5.569	1.489
Propane	C3:	3.035	0.836
Iso Butane	iC4:	0.428	0.140
Normal Butane	nC4:	0.881	0.278
Iso Pentane	iC5:	0.224	0.082
Normal Pentane	nC5:	0.247	0.089
Hexanes Plus	C6+:	0.447	0.195
	TOTAL:	100.000	3.110
	Z Fact:	0.9974	
	SP.GR.:	0.6831	
	BTU (SAT):	1073.6 @ 14.73 psia	
	BTU (DRY):	1092.6 @ 14.73 psia	
	OCTANE RATING:	116.9	

COMMENTS: 0.000

Caraway Analytical, 08-Nov-95

TEST HISTORY

8257 DST#2 Wendy Marie#1-30 Amoco Prod. Comp.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2873.68
B:	0.00	1092.14
C:	0.00	1156.19
D:	60.00	1685.68
E:	0.00	1114.47
F:	58.00	1287.85
G:	124.00	1683.16
Q:	0.00	2852.53

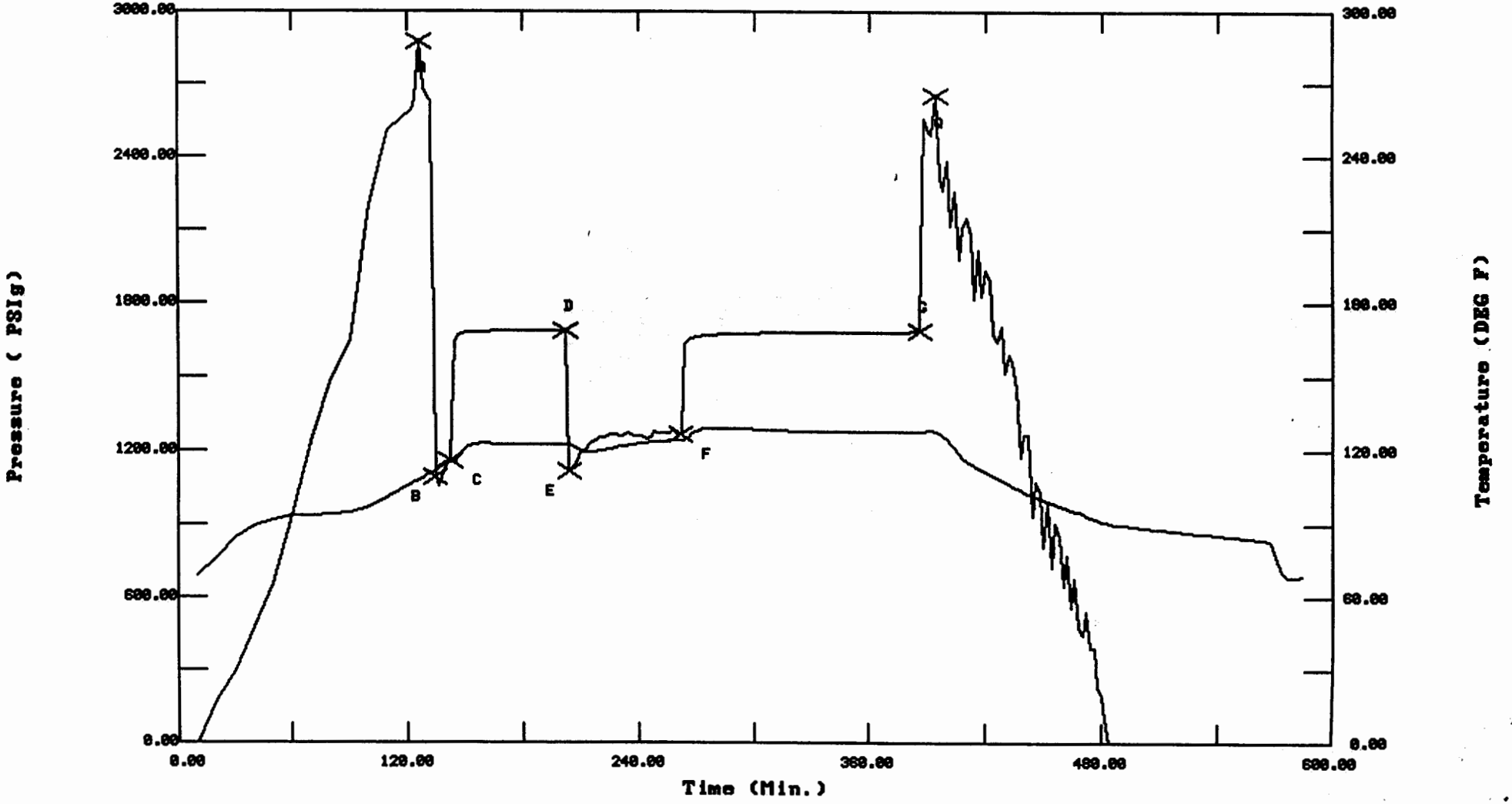
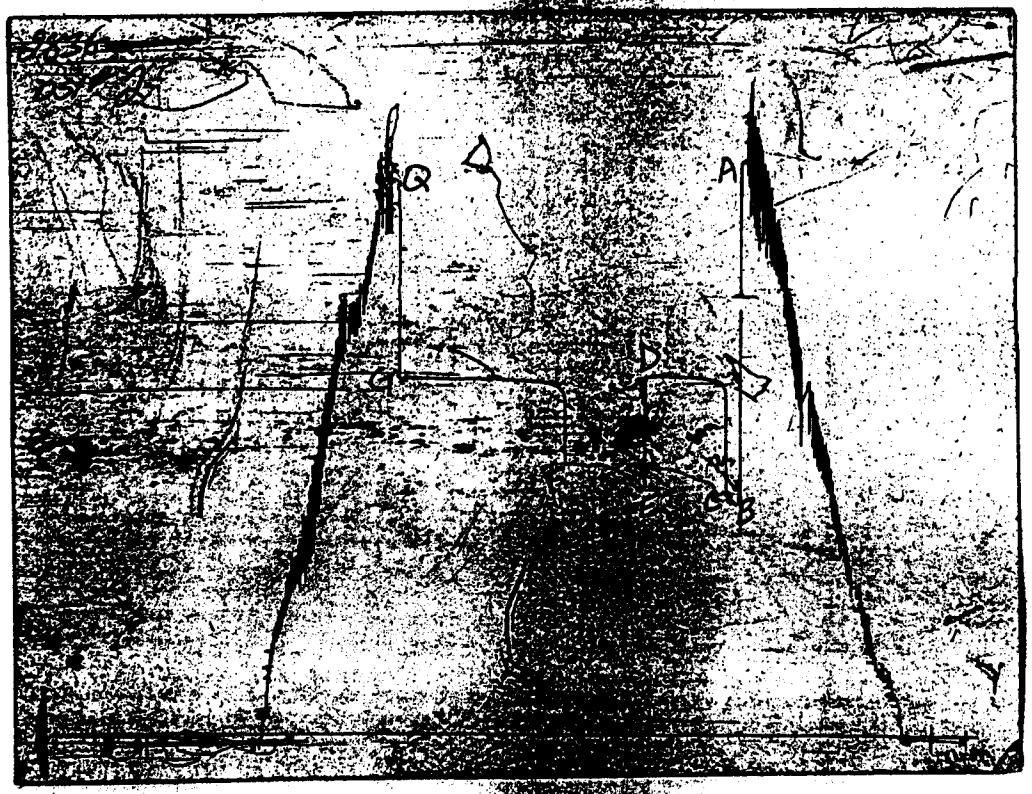


CHART PAGE



This is an actual photograph of recorder chart

ORIGINAL

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: 8257 DST#2 Wendy Marie#1-30 Amoco Prod. Comp.

ATE: 11/07/95 TIME: 09:48:29

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
**** Initial Hydro.	126.00	2873.7	0.0	108.14		
**** Start Flow 1	0.00	1092.1	0.0	111.74		
	2.00	1053.5	-38.7	113.18		
	4.00	1106.7	14.5	114.44		
	6.00	1139.6	47.4	114.98		
**** End Flow 1	8.00	1156.2	64.0	115.16		
**** Start Shutin 1	0.00	1156.2	0.0	115.16	0.0000	1.337
	2.00	1642.2	486.0	115.34	5.0000	2.697
	4.00	1669.0	512.8	116.96	3.0000	2.785
	6.00	1674.7	518.5	119.48	2.3333	2.805
	8.00	1677.3	521.1	121.10	2.0000	2.813
	10.00	1679.1	522.9	121.82	1.8000	2.819
	12.00	1680.1	523.9	122.36	1.6667	2.823
	14.00	1681.0	524.8	122.54	1.5714	2.826
	16.00	1681.5	525.3	122.72	1.5000	2.827
	18.00	1682.1	525.9	122.72	1.4444	2.829
	20.00	1682.5	526.3	122.72	1.4000	2.831
	22.00	1682.9	526.7	122.54	1.3636	2.832
	24.00	1683.2	527.0	122.54	1.3333	2.833
	26.00	1683.4	527.2	122.54	1.3077	2.834
	28.00	1683.8	527.6	122.54	1.2857	2.835
	30.00	1683.8	527.7	122.54	1.2667	2.835
	32.00	1684.1	527.9	122.54	1.2500	2.836
	34.00	1684.2	528.0	122.36	1.2353	2.836
	36.00	1684.4	528.2	122.36	1.2222	2.837
	38.00	1684.5	528.3	122.36	1.2105	2.838
	40.00	1684.8	528.6	122.36	1.2000	2.838
	42.00	1684.8	528.6	122.36	1.1905	2.838
	44.00	1684.9	528.7	122.36	1.1818	2.839
	46.00	1685.1	528.9	122.36	1.1739	2.840
	48.00	1685.2	529.0	122.36	1.1667	2.840
	50.00	1685.3	529.1	122.54	1.1600	2.840
	52.00	1685.3	529.2	122.54	1.1538	2.840
	54.00	1685.5	529.3	122.54	1.1481	2.841
	56.00	1685.6	529.4	122.54	1.1429	2.841
	58.00	1685.6	529.4	122.54	1.1379	2.841
**** End Shut-in 1	60.00	1685.6	529.4	122.54	1.1333	2.841
**** Start Flow 2	0.00	1114.5	0.0	122.54		
	2.00	1135.0	20.6	121.46		
	4.00	1159.9	45.4	120.56		
	6.00	1196.0	81.6	119.84		
	8.00	1197.7	83.3	119.48		
	10.00	1222.7	108.2	119.30		
	12.00	1233.1	118.6	119.30		
	14.00	1239.9	125.5	119.30		
	16.00	1252.8	138.3	119.66		
	18.00	1254.0	139.5	120.02		
	20.00	1261.3	146.9	120.38		
	22.00	1264.4	150.0	120.74		
	24.00	1263.8	149.3	121.10		
	26.00	1256.6	142.1	121.46		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8257 DST#2 Wendy Marie#1-30 Amoco Prod. Comp.

DATE: 11/07/95 TIME: 09:48:29

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	28.00	1258.9	144.4	121.64		
	30.00	1268.5	154.0	122.00		
	32.00	1262.5	148.0	122.18		
	34.00	1257.9	143.4	122.54		
	36.00	1261.5	147.0	122.72		
	38.00	1256.7	142.3	122.90		
	40.00	1247.6	133.1	123.08		
	42.00	1255.0	140.5	123.26		
	44.00	1275.2	160.7	123.26		
	46.00	1273.8	159.3	123.44		
	48.00	1270.1	155.6	123.62		
	50.00	1268.7	154.3	123.80		
	52.00	1268.5	154.0	123.98		
	54.00	1282.1	167.6	123.98		
	56.00	1266.1	151.7	123.98		
****** End Flow 2	58.00	1267.0	152.6	124.16		
****** Start Shutin 2	0.00	1267.0	0.0	124.16	0.0000	1.605
	2.00	1631.3	364.2	124.34	34.0000	2.661
	4.00	1650.8	383.7	125.60	17.5000	2.725
	6.00	1657.5	390.4	127.04	12.0000	2.747
	8.00	1661.5	394.5	127.94	9.2500	2.761
	10.00	1664.3	397.2	128.30	7.6000	2.770
	12.00	1666.1	399.1	128.84	6.5000	2.776
	14.00	1667.9	400.8	129.02	5.7143	2.782
	16.00	1669.2	402.2	129.02	5.1250	2.786
	18.00	1670.5	403.4	129.02	4.6667	2.791
	20.00	1671.3	404.3	129.02	4.3000	2.793
	22.00	1672.1	405.0	129.02	4.0000	2.796
	24.00	1672.8	405.8	129.02	3.7500	2.798
	26.00	1673.5	406.5	129.02	3.5385	2.801
	28.00	1674.1	407.0	128.84	3.3571	2.803
	30.00	1674.7	407.6	128.84	3.2000	2.805
	32.00	1675.1	408.1	128.84	3.0625	2.806
	34.00	1675.5	408.5	128.66	2.9412	2.807
	36.00	1676.0	409.0	128.66	2.8333	2.809
	38.00	1676.4	409.3	128.48	2.7368	2.810
	40.00	1676.7	409.7	128.48	2.6500	2.811
	42.00	1677.0	410.0	128.30	2.5714	2.812
	44.00	1677.3	410.2	128.30	2.5000	2.813
	46.00	1677.6	410.6	128.30	2.4348	2.814
	48.00	1678.0	410.9	128.12	2.3750	2.816
	50.00	1678.2	411.2	128.12	2.3200	2.816
	52.00	1678.4	411.3	128.12	2.2692	2.817
	54.00	1678.6	411.6	128.12	2.2222	2.818
	56.00	1678.8	411.7	127.94	2.1786	2.818
	58.00	1679.1	412.1	127.94	2.1379	2.819
	60.00	1679.3	412.3	127.94	2.1000	2.820
	62.00	1679.4	412.3	127.94	2.0645	2.820
	64.00	1679.6	412.5	127.94	2.0312	2.821
	66.00	1679.7	412.7	127.94	2.0000	2.821
	68.00	1679.9	412.8	127.94	1.9706	2.822

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8257 DST#2 Wendy Marie#1-30 Amoco Prod. Comp.

DATE: 11/07/95 TIME: 09:48:29

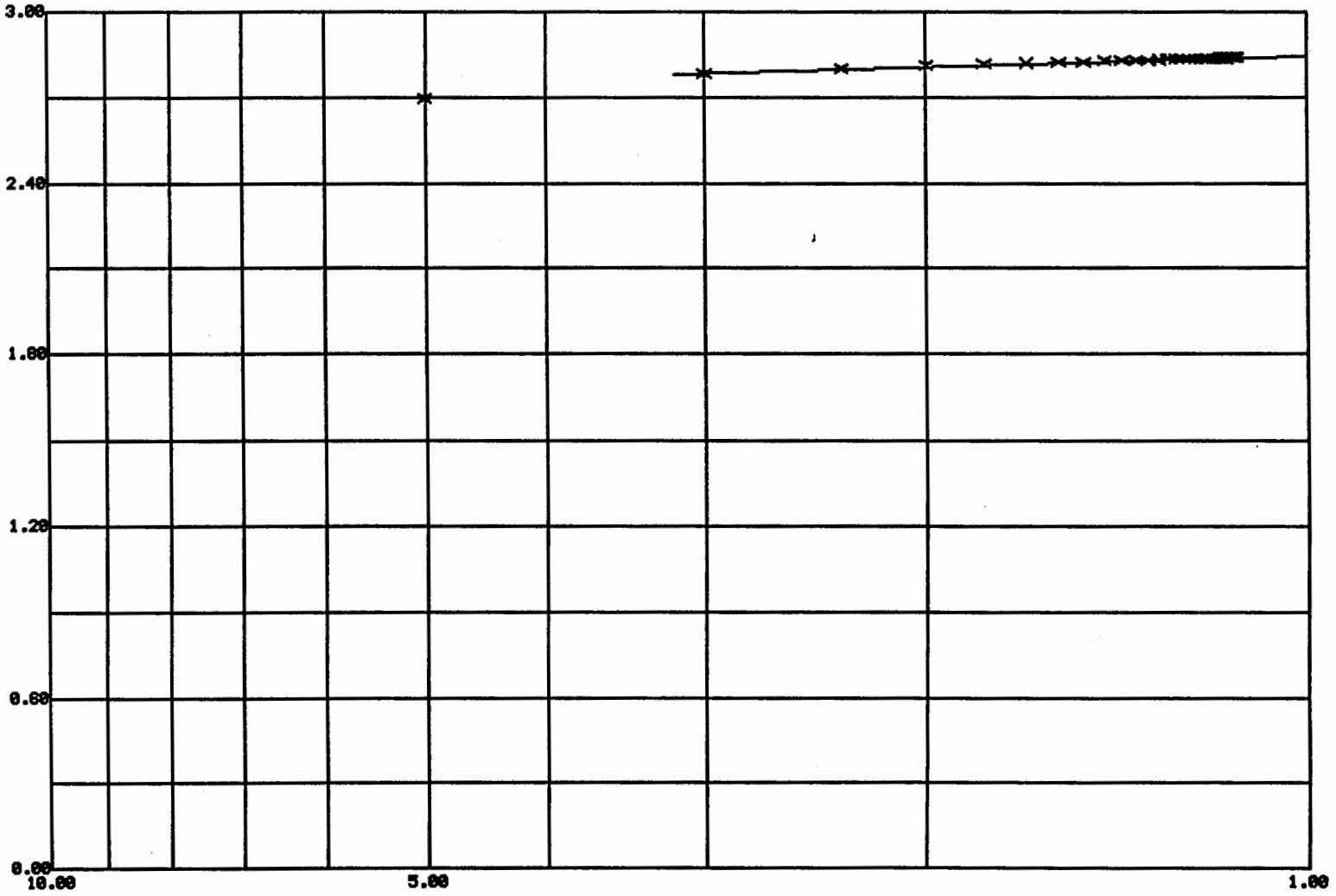
	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	70.00	1680.1	413.1	127.94	1.9429	2.823
	72.00	1680.3	413.3	127.76	1.9167	2.823
	74.00	1680.4	413.3	127.76	1.8919	2.824
	76.00	1680.7	413.7	127.76	1.8684	2.825
	78.00	1680.6	413.6	127.76	1.8462	2.825
	80.00	1680.9	413.8	127.76	1.8250	2.825
	82.00	1681.1	414.0	127.76	1.8049	2.826
	84.00	1681.1	414.1	127.76	1.7857	2.826
	86.00	1681.2	414.2	127.76	1.7674	2.827
	88.00	1681.3	414.3	127.76	1.7500	2.827
	90.00	1681.6	414.5	127.76	1.7333	2.828
	92.00	1681.6	414.5	127.76	1.7174	2.828
	94.00	1681.8	414.8	127.76	1.7021	2.829
	96.00	1681.9	414.9	127.76	1.6875	2.829
	98.00	1682.0	414.9	127.76	1.6735	2.829
	100.00	1682.1	415.0	127.76	1.6600	2.829
	102.00	1682.2	415.2	127.76	1.6471	2.830
	104.00	1682.3	415.3	127.76	1.6346	2.830
	106.00	1682.4	415.4	127.76	1.6226	2.831
	108.00	1682.4	415.4	127.76	1.6111	2.831
	110.00	1682.5	415.5	127.76	1.6000	2.831
	112.00	1682.6	415.5	127.76	1.5893	2.831
	114.00	1682.7	415.6	127.76	1.5789	2.831
	116.00	1682.7	415.7	127.76	1.5690	2.832
	118.00	1682.8	415.8	127.76	1.5593	2.832
	120.00	1683.0	415.9	127.76	1.5500	2.832
	122.00	1683.1	416.0	127.76	1.5410	2.833
***** End Shut-in 2	124.00	1683.2	416.1	127.76	1.5323	2.833
***** Final Hydro.	394.00	2652.5	0.0	127.94		

P^2 Horner Plot: shut-in #1

8257 DST#2 Wendy Marie#1-30 Amoco Prod. Comp.

Slope: 0.1328 PSIg^2/10^6/cycle

Ext. Pressure: 1687.7919 PSIg

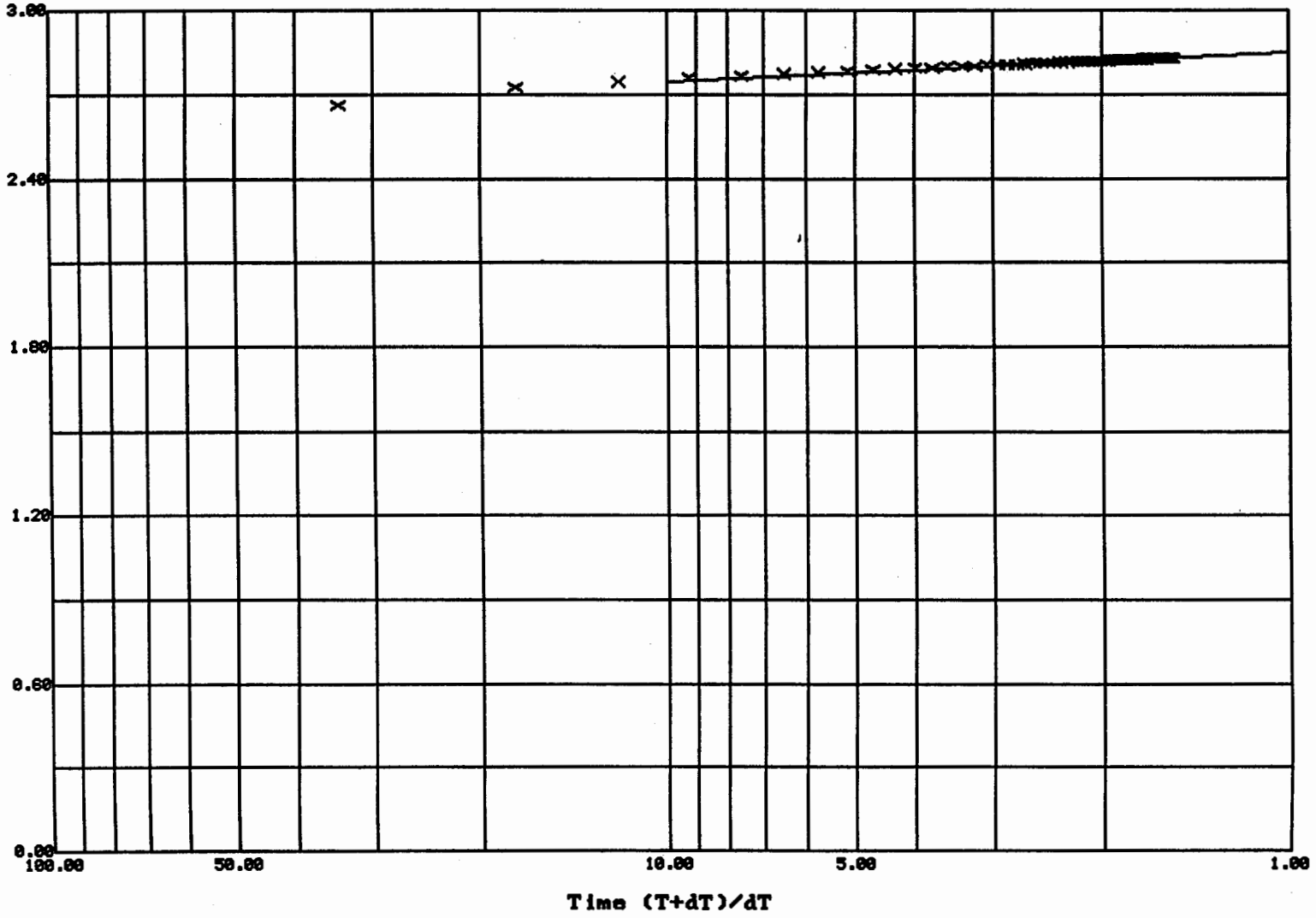


P^2 Horner Plot: shut-in #2

8257 DST#2 Wendy Marie#1-30 Amoco Prod. Comp.

Slope: 0.1023 PSIg^2/10^6/cycle

Ext. Pressure: 1688.7347 PSIg



*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Wendy Marie #1-30

LOCATION : 30-31S-32W, Seward Cty KS

TICKET No. 8257 D.S.T. No. 2 DATE 11-7-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 32

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 43

TOTAL TOOL 75

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single 1 Total 29

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 104

D.C. ABOVE TOOLS.Stands9 Single 1 Total 601

D.P. ABOVE TOOLS.Stands78 Single 1 Total 4871

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5576

TOTAL DEPTH 5542

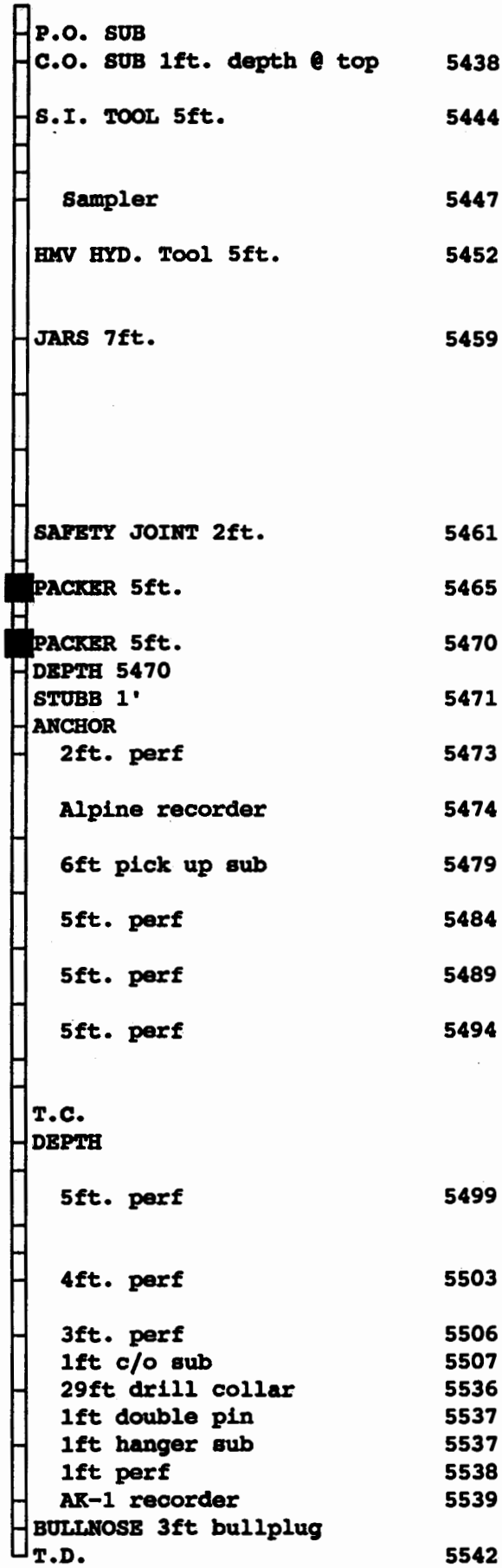
TOTAL DRILL PIPE ABOVE K.B. 34

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -
Gas 23.5 cu ft, Pressure 2000 PSI,
Total 4000 ml

PIT MUD ANALYSIS -
Chlorides 3100 ppm, Viscosity 63, Mud Wt 9,
Filtrate 6



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 8257

Well Name & No. Wendy Marie #1-30 Test No. 2 Date 11-7-95

Company Amoco Prod. Company Zone Tested Morrow

Address P.O. Box 800 Room 924 Denver Colo. 80201 Elevation 2875 (KB)

Co. Rep./Geo. Austin Gaines Cont. Cheyenne Rig # 4 Est. Ft. of Pay

Location: Sec. 30 Twp. 31 Rge. 32 Co. Seward State KS.

No. of Copies 5 Distribution Sheet ____ Yes X No Turnkey ____ Yes X No ____ Evaluation

Interval Tested 5470-5542 Drill Pipe Size 4½ F-Hole

Anchor Length 72' Top Choke — 1" — Bottom Choke — ¼" —

Top Packer Depth 5465 Hole Size — 7⅞" — Rubber Size — 6¾" —

Bottom Packer Depth 5470 Wt. Pipe I.D. — 2.7 Ft. Run —

Total Depth 5542 Drill Collar — 2.25 Ft. Run 601'

Mud Wt. 9.0 lb/gal. Viscosity 63 Filtrate 6.0

Tool Open @ 12:02 Initial Blow Strong blow B.O.B soon as open Tool. (MCF@ 6737)

C.I.S. in 2min.

Final Blow Very Strong blow B.O.B. Soon as open Tool (MCF@ 23385)

Recovery — Total Feet 5 Feet of Gas in Pipe ____ Flush Tool? No

Rec. 5 Feet Of Condensate 100 %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 123 °F Gravity ____ °API @ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides AK-1 ppm Recovery Chlorides 3,100 ppm System

(A) Initial Hydrostatic Mud	2873	2850 PSI	AK1 Recorder No. Electronic Alpha	Range	4995
(B) First Initial Flow Pressure	1092	1057 PSI	@ (depth) 5474	w/Clock No.	Elektronic
(C) First Final Flow Pressure	1156	1117 PSI	AK1 Recorder No. 2836	Range	3,500
(D) Initial Shut-In Pressure	1685	1613 PSI	@ (depth) 5539	w/Clock No.	23935
(E) Second Initial Flow Pressure	1114	1087 PSI	AK1 Recorder No. ____	Range	____
(F) Second Final Flow Pressure	1262	1221 PSI	@ (depth) ____	w/Clock No.	____
(G) Final Shut-In Pressure	1683	1613 PSI	Initial Opening 10 min	Test	✓
(H) Final Hydrostatic Mud	2652	2576 PSI	Initial Shut-In 60 min.	Jars	✓
			Final Flow 60 min.	Safety Joint	✓
			Final Shut-In 120 min	Straddle	____
				Circ. Sub	✓ N/C
				Sampler	✓
				Extra Packer	____
				Other	Elektronic Rec ✓
				TOTAL PRICE $	____

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 Austin Gaines

Our Representative Mike Calantone

Printcraft Printers - Hays, KS

TRILOBITE TESTING

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

GAS VOLUME REPORT

Amoco Production Company (OPERATOR) Wendy Marie # 1-30 (WELL NAME AND NO.) 2 (DST NO.)

1st Opening G.T.S. 2 min

Min.	Ins. of Water PSIG	Orifice Size	MCF/D
2	42	1¼	3274
5	70	1½	4946
10	100	1½	6737

2nd Opening

Min.	Ins. of Water PSIG	Orifice Size	MCF/D
5	70	2in	14870
10	100	2in	201583
15	125	2in	2362969
20	140	2in	2713365
25	140	2in	2713365
30	150	2in	2923385
35	150	2in	2923385
40	150	2in	2923385
45	150	2in	2923385
50	150	2in	2923385
55	150	2in	2923385
60	150	2in	2923385

Remarks:

Gas Will Burn.

101 NCR

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. DST #2 Date 11-7-95

Company Name Amoco Prod. Company

Lease Wendy Mair et 1-30 Test No. 2

County Seward Sec. 30 Twp. 31 Rng. 32

SAMPLER RECOVERY

Gas 23.5 Cubic Ft.

Oil ML

Mud ML

Water ML

Other ML

Pressure 2,000 PSI

Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 3100 ppm.

Resistivity ohms @ F

Viscosity 63

Mud Weight 9.0

Filtrate 6.0

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.