

ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

Operator: License # 5135  
Name: John O. Farmer, Inc.  
Address P.O. Box 352  
City/State/Zip Russell, KS 67665

Purchaser: \_\_\_\_\_

Operator Contact Person: Marge Schulte  
Phone ( 913 ) 483-3144

Contractor: Name: Abercrombie RTD, Inc.  
License: 30684  
Wellsite Geologist: Martin K. Dubois

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc.)  
If Workover/Re-Entry: old well info. as follows:

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBDT  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_  
4-5-96 4-13-96  
Spud Date Date Reached TD Completion Date

API NO. 15- 109-20,620-00-00  
County Logan  
- SW - SW - SE Sec. 6 Twp. 13S Rge. 33 X E

330 Feet from SYN (circle one) Line of Section  
2310 Feet from EYW (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, SE NW or SW (circle one)

Lease Name Ruby Dirks Well # 5  
Field Name Logansport NW  
Producing Formation \_\_\_\_\_

Elevation: Ground 2997' KB 3002'  
Total Depth 4595' PBDT \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 206 Feet

Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan O & A 6-14-96  
(Data must be collected from the Reserve Pit)

Chloride content 28,000 ppm Fluid volume 1,800 bbls  
Dewatering method used evaporation

Location of fluid disposal if hauled offsite \_\_\_\_\_  
(not hauled) \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_

\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

RECEIVED  
KANSAS CORP COM  
APR 9 10 32 AM '96  
49-960

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature John O. Farmer III  
John O. Farmer III  
Title President Date 4-26-96  
Subscribed and sworn to before me this 26th day of April,  
19 96.

Notary Public Margaret A. Schulte  
Margaret A. Schulte

Date Commission Expires \_\_\_\_\_

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)



JANUARY

SIDE TWO

Operator Name John O. Farmer, Inc. Lease Name Ruby Dirks Well # 5

Sec. 6 Twp. 13S Rge. 33  East  West County Logan

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)  Yes  No  
Samples Sent to Geological Survey  Yes  No  
Cores Taken  Yes  No  
Electric Log Run (Submit Copy.)  Yes  No  
List All E.Logs Run: Dual Induction & Compensated Neutron/Density

Log Formation (Top), Depth and Datums Table with columns: Name, Top, Datum. Rows include Base/Anhydrite, Wabaunsee, Heebner, Lansing, Stark, Base/K.C., Cherokee, Johnson Zone, Basal Penn Sand, Mississippi, L.T.D.

CASING RECORD Table with columns: Purpose of String, Size Hole Drilled, Size Casing Set (In O.D.), Weight Lbs./Ft., Setting Depth, Type of Cement, # Sacks Used, Type and Percent Additives. Includes surface data for 12-1/4" hole and 8-5/8" casing.

ADDITIONAL CEMENTING/SQUEEZE RECORD Table with columns: Purpose (Perforate, Protect Casing, Plug Back TD, Plug Off Zone), Depth (Top, Bottom), Type of Cement, #Sacks Used, Type and Percent Additives.

PERFORATION RECORD - Bridge Plugs Set/Type and Acid, Fracture, Shot, Cement Squeeze Record. Includes columns for Shots Per Foot, Specify Footage of Each Interval Perforated, Amount and Kind of Material Used, Depth.

TUBING RECORD Table with columns: Size, Set At, Packer At, Liner Run (Yes/No).

Date of First, Resumed Production, SWD or Inj. and Producing Method (Flowing, Pumping, Gas Lift, Other (Explain)).

Estimated Production Per 24 Hours Table with columns: Oil Bbls., Gas Mcf, Water Bbls., Gas-Oil Ratio, Gravity.

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.) METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled.  Other (Specify) Production Interval

ORIGINAL

WELL NAME: Ruby Dirks #5  
OPERATOR: John O Farmer Inc  
LOCATION: Sec 6 Rge 13S Twp 33W  
Logan County Kansas  
DATE: 04/13/96

15-109-20620.0000

TRILOBITE TESTING L.L.C.

15-109-20620-0000

OPERATOR : John O. Farmer Inc  
 WELL NAME: Ruby Dirks #5  
 LOCATION : 6-13S-33W, Logan Cty KS  
 INTERVAL : 3807.00 To 3825.00 ft

DATE 04/09/96  
 KB 3010.00 ft TICKET NO: 8441 DST #1  
 GR 3005.00 ft FORMATION: Oread  
 TD 3825.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	11086	11086	10332			PF Fr. 0455 to 0540 hr
SI 45	Range(Psi )	4350.0	4350.0	4025.0	0.0	0.0	IS Fr. 0540 to 0625 hr
SF 45	Clock(hrs)	AK-1	AK-1	AK-1			SF Fr. 0625 to 0710 hr
FS 45	Depth(ft )	3808.0	3808.0	3822.0	0.0	0.0	FS Fr. 0710 to 0755 hr

	Field	1	2	3	4	
A. Init Hydro	1815.0	1804.0	0.0	0.0	0.0	T STARTED 0300 hr
B. First Flow	87.0	66.0	0.0	0.0	0.0	T ON BOTM 0453 hr
B1. Final Flow	87.0	66.0	0.0	0.0	0.0	T OPEN 0455 hr
C. In Shut-in	1216.0	1122.0	0.0	0.0	0.0	T PULLED 0800 hr
D. Init Flow	87.0	87.0	0.0	0.0	0.0	T OUT 0930 hr
E. Final Flow	87.0	87.0	0.0	0.0	0.0	
F. Fl Shut-in	1085.0	1074.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1706.0	1715.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 22000.00 lbs

RECOVERY

Tot Fluid 100.00 ft of 0.00 ft in DC and 100.00 ft in DP  
 10.00 ft of Muddy oil - 66% oil, 34% mud  
 30.00 ft of Oil cut mud - 10% oil, 90% mud  
 30.00 ft of Oily water cut mud -  
 10% oil, 24% water, 66% mud  
 30.00 ft of Oily water cut mud -  
 10% oil, 14% water, 76% mud

Wt Pulled Loose 68000.00 lbs  
 Initial Str Wt 42000.00 lbs  
 Unseated Str Wt 42000.00 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 3806.00 ft

RW .493 @ 79.3 F

SALINITY 14000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -  
 Weak blow, built slowly to 3" in bucket

Initial Shutin -  
 Bled off, no blow back

Final Flow -  
 No blow, flushed tool, blew 12 min later, weak surface blow

Final Shutin -  
 Bled off, no blow back

SAMPLES:  
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.80 lb/c
Vis.	48.00 S/L
W.L.	12.80 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	117.00 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	Mike McVey
Co. Rep.	Marty DuBois
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

CALCULATED RECOVERY ANALYSIS - DRILL PIPE  
 DST # 1 TICKE 8441

SAMPL #	TOTAL FEET	GAS		OIL			WATE		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET	
1	10		0	66	6.6		0	34	3.4	
2	30		0	10	3		0	90	27	
3	30		0	10	3	24	7.2	66	19.8	
4	30		0	10	3	14	4.2	76	22.8	
5			0		0		0		0	
6			0		0		0		0	
TOTAL	100	0	0	15.6	15.6	11.4	11.4	73	73	

HRS O BBL/DAY

BBL OIL= 0.2218 \* 1.5 3.55  
 BBL WATER= 0.1621 \* 2.59  
 BBL MUD= 1.0381  
 BBL GAS 0

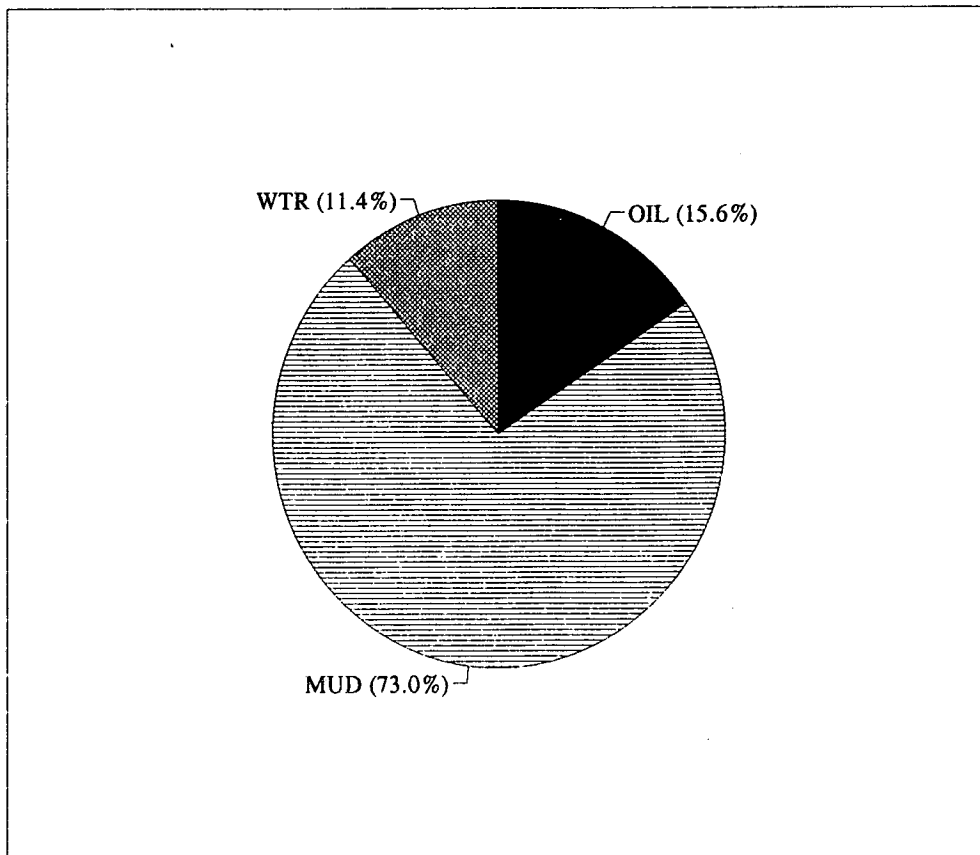
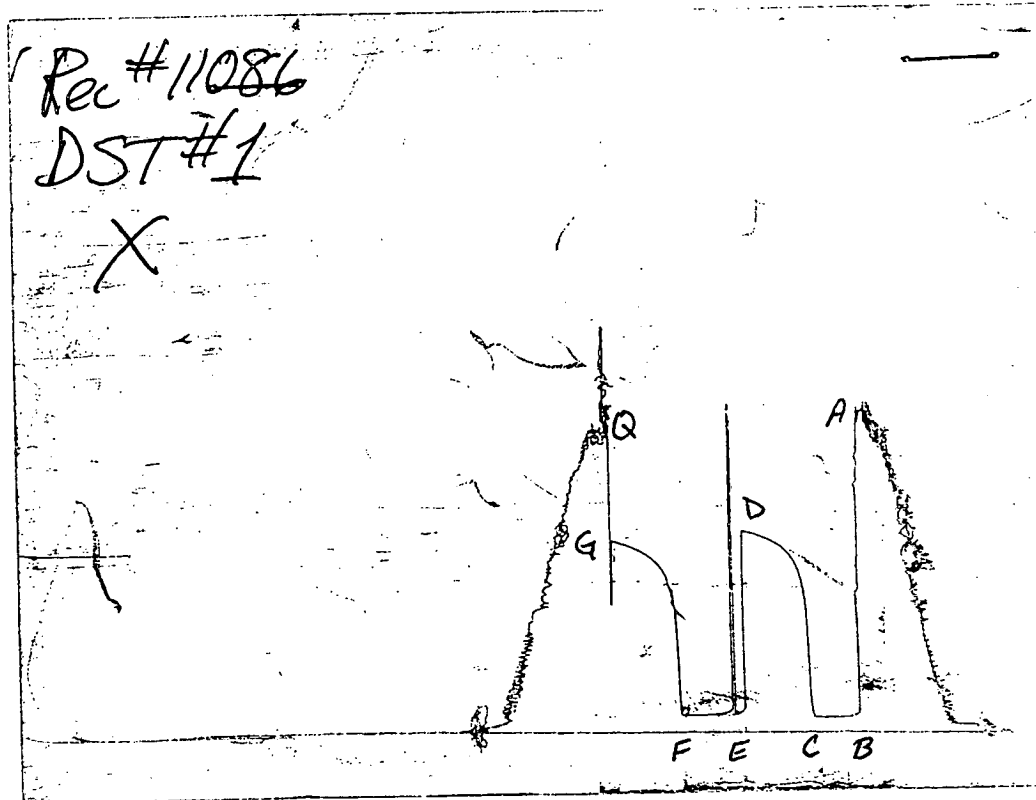


CHART PAGE



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

15109.20620.0000

15109.20620.0000

TRILOBITE TESTING L.L.C.

OPERATOR : John O Farmer Inc DATE 04/09/96
WELL NAME: Ruby Dirks #5 KB 3010.00 ft TICKET NO: 8442 DST #2
LOCATION : 6-13S-33W, Logan Cty KS GR 3005.00 ft FORMATION: Toronto
INTERVAL : 3863.00 To 3891.00 ft TD 3891.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Table with columns: Mins, Field, 1, 2, 3, 4, TIME DATA. Rows include PF 30 Rec., SI 30 Range(Psi), SF 30 Clock(hrs), FS 30 Depth(ft).

Table with columns: A-G, Field, 1, 2, 3, 4, TOOL DATA. Rows include A. Init Hydro, B. First Flow, B1. Final Flow, C. In Shut-in, D. Init Flow, E. Final Flow, F. Fl Shut-in, G. Final Hydro, Inside/Outside.

RECOVERY

Tot Fluid 2155.00 ft of 0.00 ft in DC and 2155.00 ft in DF
1.00 ft of Free oil - 100% oil
64.00 ft of Oil cut muddy water - 8% oil, 56% water, 36% mud
120.00 ft of Oil cut muddy water - 2% oil, 64% water, 34% mud
1970.00 ft of Oil cut muddy water - 2% oil, 72% water, 26% mud

RW .402 @ 56.7 F

SALINITY 19000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow - Bottom of bucket in 1.5 min, very strong throughout
Initial Shutin - Bled off, no blow back
Final Flow - Bottom of bucket in 2 min, very strong blow
Final Shutin - Bled off, no blow back
\*Dropped bar on circ. sub
SAMPLES:
SENT TO:

MUD DATA

Mud Type Chemical
Weight 8.80 lb/c
Vis. 48.00 S/L
W.L. 8.40 in3
F.C. 0.00 in
Mud Drop
Amt. of fill 0.00 ft
Btm. H. Temp. 116.00 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 Mike McVey
Co. Rep. Marty Dubois
Contr. Abercrombie
Rig # 8
Unit #
Pump T.

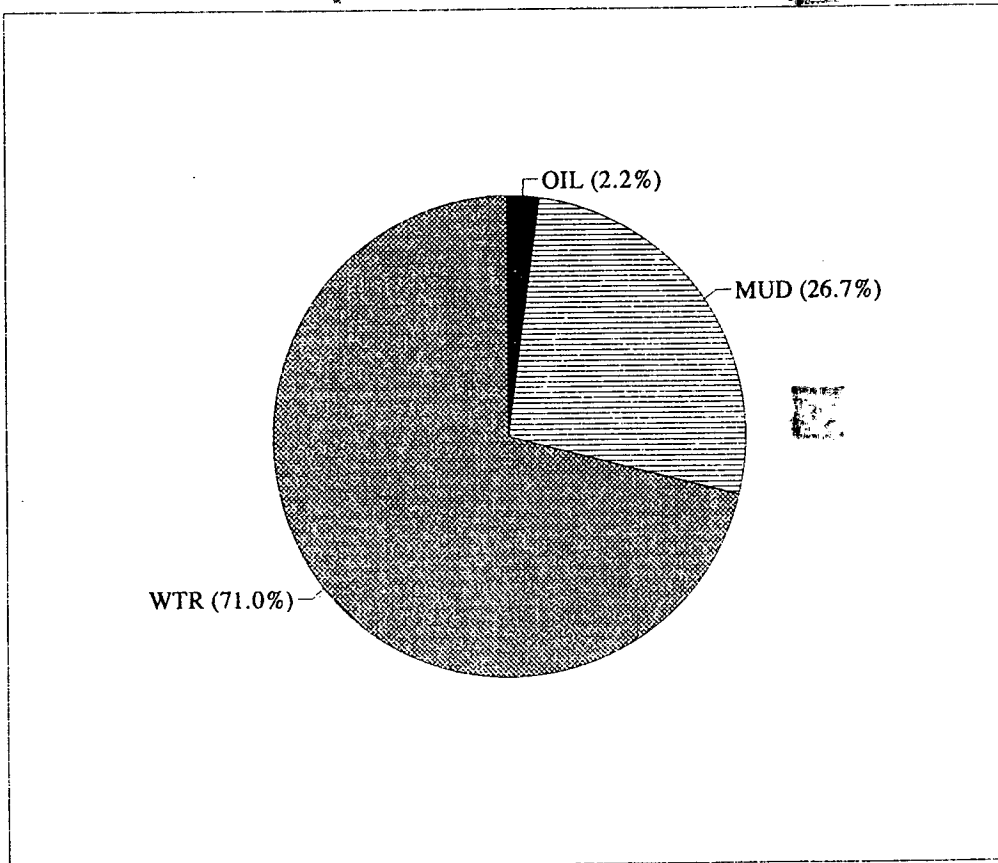
Test Successful: Y

CALCULATED RECOVERY ANALYSIS - DRILL PIPE  
 DST # 2 TICKE 8442

SAMPL #	TOTAL FEET	GAS		OIL			WATE		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET	
1	1		0	100	1		0		0	
2	64		0	8	5.12	56	35.84	36	23	
3	120		0	2	2.4	64	76.8	34	40.8	
4	1970		0	2	39.4	72	1418.4	26	512	
5			0		0		0		0	
6			0		0		0		0	
TOTAL	2155	0	0	2.2237	47.9	71.046	1531	26.73	576	

HRS O BBL/DAY

BBL OIL= 0.6814 \* 1 16.4  
 BBL WATER= 21.771 \* 523  
 BBL MUD= 8.1913  
 BBL GAS 0







15.109.20620.0000

TRILOBITE TESTING L.L.C.

OPERATOR : John O Farmer Inc  
WELL NAME: Ruby Dirks #5  
LOCATION : 6-13S-33W, Logan Cty KS  
INTERVAL : 3934.00 To 3955.00 ft

DATE 04/10/96  
KB 3010.00 ft TICKET NO: 8443 DST #3  
GR 3005.00 ft FORMATION: Lansing "B"  
TD 3955.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	11086	11086	10332			PF Fr. 0958 to 1043 hr
SI 45	Range(Psi )	4350.0	4350.0	4025.0	0.0	0.0	IS Fr. 1043 to 1128 hr
SF 45	Clock(hrs)	AK-1	AK-1	AK-1			SF Fr. 1128 to 1213 hr
FS 60	Depth(ft )	3935.0	3935.0	3952.0	0.0	0.0	FS Fr. 1213 to 1313 hr

	Field	1	2	3	4	
A. Init Hydro	1880.0	1885.0	0.0	0.0	0.0	T STARTED 0845 hr
B. First Flow	87.0	76.0	0.0	0.0	0.0	T ON BOTM 0956 hr
B1. Final Flow	196.0	203.0	0.0	0.0	0.0	T OPEN 0958 hr
C. In Shut-in	1172.0	1157.0	0.0	0.0	0.0	T PULLED 1313 hr
D. Init Flow	272.0	260.0	0.0	0.0	0.0	T OUT 1450 hr
E. Final Flow	360.0	352.0	0.0	0.0	0.0	
F. Fl Shut-in	1172.0	1157.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1847.0	1870.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 22000.00 lbs

RECOVERY

Tot Fluid 680.00 ft of 0.00 ft in DC and 680.00 ft in DP  
60.00 ft of Muddy water - 46% water, 34% mud  
180.00 ft of Muddy water - 70% water, 30% mud  
444.00 ft of Slightly mud cut water - 92% water, 8% mud

Unseated Str Wt 48000.00 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 3932.00 ft

RW .261 @ 91.5 F

SALINITY 24000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -  
Built to bottom of bucket in 20 min,  
fair to strong blow

Initial Shutin -  
Bled off, no blow back

Final Flow -  
Built to bottom of bucket in 26 min,  
fair to strong blow

Final Shutin -  
Bled off, no blow back

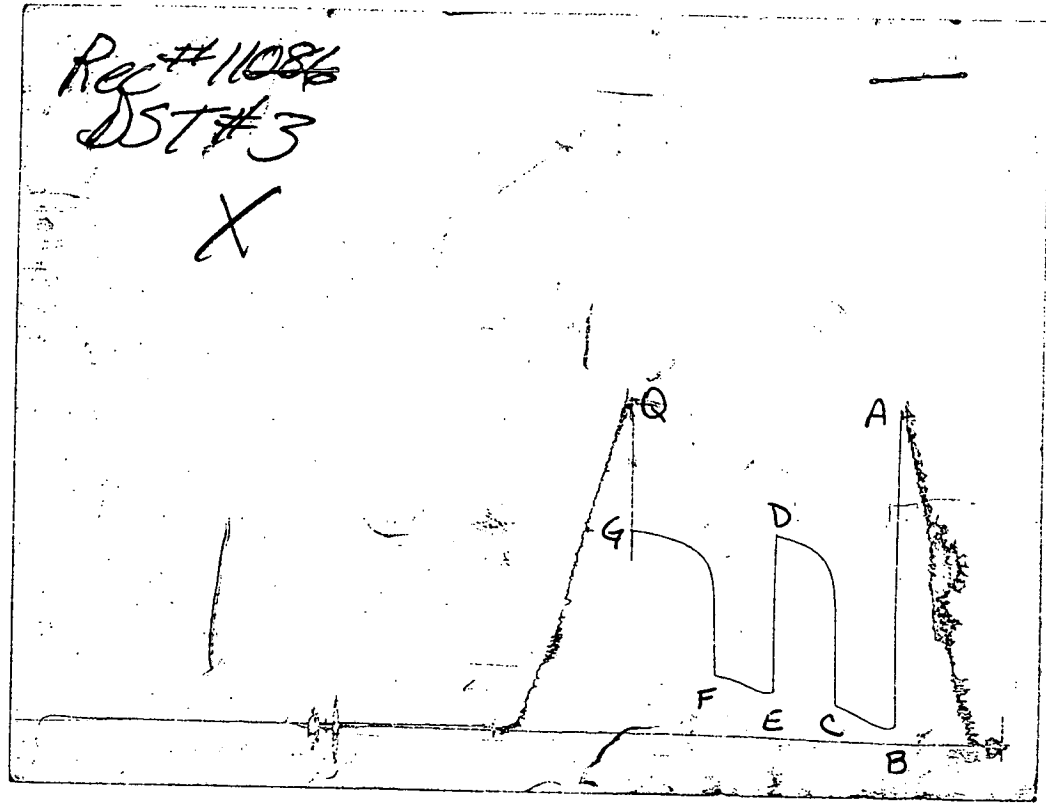
SAMPLES:  
SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/c
Vis.	48.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	116.00 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	Mike McVey
Co. Rep.	Marty Dubois
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



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

15-109-20620-0000

TRILOBITE TESTING L.L.C.

OPERATOR : John O Farmer Inc  
WELL NAME: Ruby Dirks #5  
LOCATION : 6-13S-33W, Logan Cty KS  
INTERVAL : 4101.00 To 4130.00 ft

DATE 04/11/96  
KB 3010.00 ft TICKET NO: 8444 DST #4  
GR 3005.00 ft FORMATION: Lansing, KC "I"  
TD 4130.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	11086	11086	10332			PF Fr. 0713 to 0758 hr
SI 45	Range(Psi )	4350.0	4350.0	4025.0	0.0	0.0	IS Fr. 0758 to 0843 hr
SF 30	Clock(hrs)	AK-1	AK-1	AK-1			SF Fr. 0843 to 0913 hr
FS 45	Depth(ft )	4102.0	4102.0	4127.0	0.0	0.0	FS Fr. 0913 to 0958 hr

	Field	1	2	3	4	
A. Init Hydro	1978.0	1970.0	0.0	0.0	0.0	T STARTED 0540 hr
B. First Flow	32.0	31.0	0.0	0.0	0.0	T ON EOTM 0711 hr
B1. Final Flow	43.0	39.0	0.0	0.0	0.0	T OPEN 0713 hr
C. In Shut-in	1248.0	1238.0	0.0	0.0	0.0	T PULLED 0958 hr
D. Init Flow	76.0	59.0	0.0	0.0	0.0	T OUT 1130 hr
E. Final Flow	65.0	63.0	0.0	0.0	0.0	
F. Fl Shut-in	1237.0	1221.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1956.0	1950.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 22000.00 lbs

RECOVERY

Tot Fluid 110.00 ft of 0.00 ft in DC and 110.00 ft in DP  
110.00 ft of Mud

Initial Str Wt	43000.00 lbs
Unseated Str Wt	43000.00 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	4118.00 ft

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

BLOW DESCRIPTION

Initial Flow -  
Weak blow building slowly to 2" in bucket

Initial Shutin -  
Bled off, no blow back

Final Flow -  
Blow returned after 13 min, weak surface blow until shutin

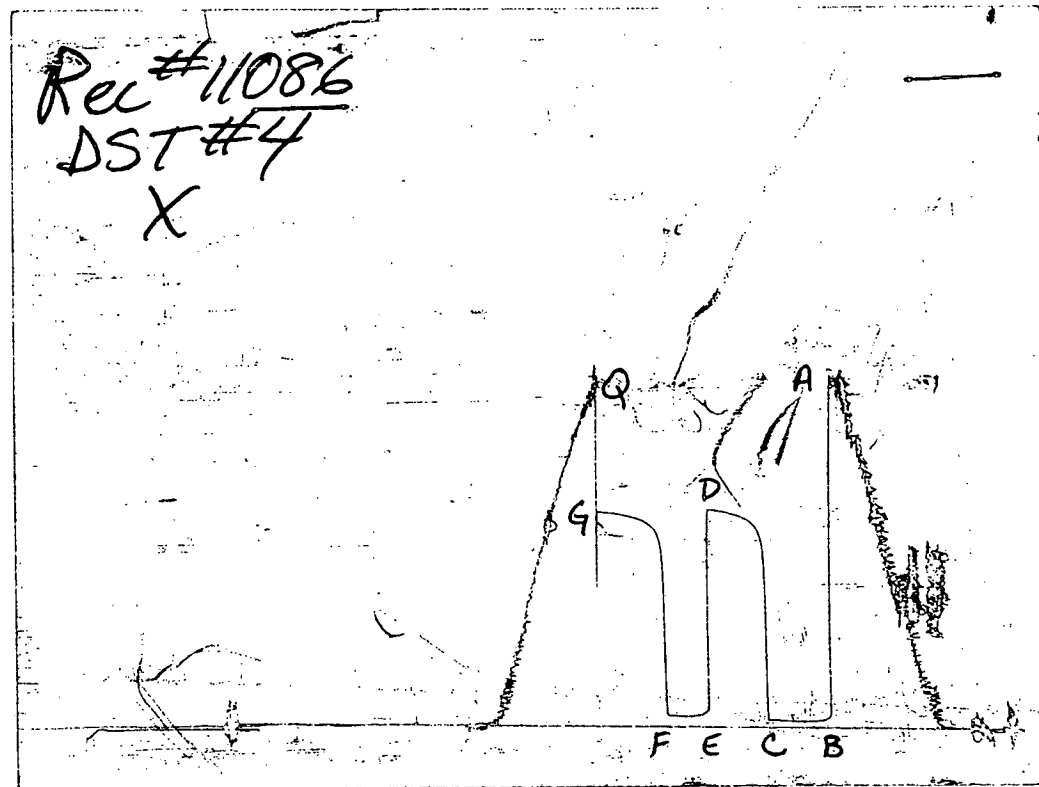
Final Shutin -  
Bled off, no blow back

SAMPLES:  
SENT TO:

MUD DATA-----	
Mud Type	Chemical
Weight	9.20 lb/c
Vis.	48.00 S/L
W.L.	11.40 in <sup>3</sup>
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 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	Mike McVey
Co. Rep.	Marty Dubois
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



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

12/13/57 10:00 AM

15109.20620.0000

TRILOBITE TESTING L.L.C.

OPERATOR : John O Farmer Inc  
WELL NAME: Ruby Dirks #5  
LOCATION : 6-13S-33W, Logan Cty KS  
INTERVAL : 4157.00 To 4180.00 ft

DATE 04/11/96  
KB 3010.00 ft TICKET NO: 8445 DST #5  
GR 3005.00 ft FORMATION: Lansing / KC "K"  
TD 4180.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	11086	11086	10332			PF Fr. 2126 to 2156 hr
SI 30	Range(Psi )	4350.0	4350.0	4025.0	0.0	0.0	IS Fr. 2156 to 2226 hr
SF 30	Clock(hrs)	AK-1	AK-1	AK-1			SF Fr. 2226 to 2256 hr
FS 30	Depth(ft )	4158.0	4158.0	4177.0	0.0	0.0	FS Fr. 2256 to 2326 hr

	Field	1	2	3	4	
A. Init Hydro	2043.0	2037.0	0.0	0.0	0.0	T STARTED 1945 hr
B. First Flow	76.0	62.0	0.0	0.0	0.0	T ON BOTM 2124 hr
B1. Final Flow	87.0	70.0	0.0	0.0	0.0	T OPEN 2126 hr
C. In Shut-in	557.0	541.0	0.0	0.0	0.0	T PULLED 2326 hr
D. Init Flow	87.0	81.0	0.0	0.0	0.0	T OUT 0110 hr
E. Final Flow	98.0	84.0	0.0	0.0	0.0	
F. Fl Shut-in	557.0	537.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2010.0	2024.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 22000.00 lbs

RECOVERY

Tot Fluid 70.00 ft of 0.00 ft in DC and 70.00 ft in DP  
10.00 ft of Slightly oil cut mud - 1% oil, 99% mud  
60.00 ft of Mud - 100% mud

Unseated Str Wt	43000.00 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	4151.00 ft

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

BLOW DESCRIPTION

Initial Flow -  
Weak surface blow, built slowly to  
2.5" in bucket

Initial Shutin -  
Bled off, no blow back

Final Flow -  
Blow returned after 18 min, weak  
surface blow til shutin

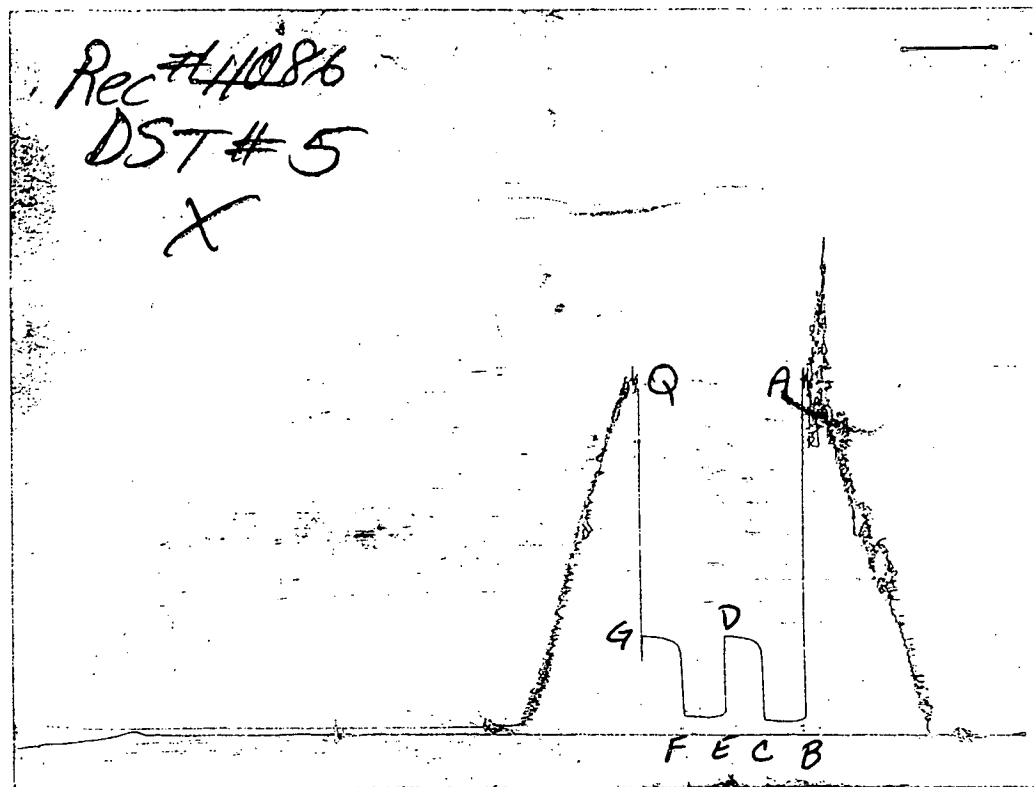
Final Shutin -  
Bled off, no blow back

SAMPLES:  
SENT TO:

MUD DATA-----	
Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	49.00 S/L
W.L.	11.40 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	119.00 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	Mike McVey
Co. Rep.	Marty Dubois
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



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

15-109-20620-0000

TRILOBITE TESTING L.L.C.

OPERATOR : John O. Farmer Inc.  
WELL NAME: Ruby Dirks #5  
LOCATION : 6-13S-33W, Logan Cty KS  
INTERVAL : 4476.00 To 4505.00 ft

DATE 4-13-96  
KB 3010.00 ft TICKET NO: 8446 DST #6  
GR 3005.00 ft FORMATION: Johnson  
TD 4505.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	11086	11086	2342			PF Fr. 0150 to 0235 hr
SI 60	Range(Psi )	4350.0	4350.0	4995.0	0.0	0.0	IS Fr. 0235 to 0335 hr
SF 60	Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 0335 to 0435 hr
FS 90	Depth(ft )	4500.0	4500.0	4481.0	0.0	0.0	FS Fr. 0435 to 0605 hr

	Field	1	2	3	4	
A. Init Hydro	2283.0	2269.0	2181.0	0.0	0.0	T STARTED 2400 hr
B. First Flow	76.0	50.0	14.0	0.0	0.0	T ON BOTM 0148 hr
B1. Final Flow	76.0	55.0	26.0	0.0	0.0	T OPEN 0150 hr
C. In Shut-in	262.0	225.0	219.0	0.0	0.0	T PULLED 0605 hr
D. Init Flow	87.0	63.0	23.0	0.0	0.0	T OUT 0810 hr
E. Final Flow	87.0	63.0	42.0	0.0	0.0	
F. Fl Shut-in	218.0	168.0	157.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2272.0	2269.0	2158.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 22000.00 lbs
						Wt Pulled Loose 82000.00 lbs
						Initial Str Wt 45000.00 lbs
						Unseated Str Wt 49000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.82 in
						D.C. Length 0.00 ft
						D.P. Length 3859.00 ft
						H.W. I.D 2.70 in
						H.W. Length 631.00 ft

RECOVERY

Tot Fluid 80.00 ft of 0.00 ft in DC and 80.00 ft in DP  
430.00 ft of Gas In Pipe - 100% gas  
80.00 ft of Oil cut gassy mud - 30% oil, 30% gas, 40% mud

Tool Wt.	2000.00 lbs
Wt Set On Packer	22000.00 lbs
Wt Pulled Loose	82000.00 lbs
Initial Str Wt	45000.00 lbs
Unseated Str Wt	49000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	0.00 in
D. Pipe ID	3.82 in
D.C. Length	0.00 ft
D.P. Length	3859.00 ft
H.W. I.D	2.70 in
H.W. Length	631.00 ft

SALINITY 0.00 P.P.M. A.P.I. Gravity 35.00

BLOW DESCRIPTION

Initial Flow -  
Built to 11" in bucket in 45 min,  
fair to strong blow  
  
Initial Shutin -  
Bled off, no blow back  
  
Final Flow -  
Built to bottom of bucket in 35 min  
  
Final Shutin -  
Bled off, no blow back

MUD DATA-----	
Mud Type	Chemical
Weight	9.30 lb/c
Vis.	48.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	121.00 F
Hole Condition	Good
% Porosity	7.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Mike McVey
Co. Rep.	Marty Dubois
Contr.	Abercrombie Drlg
Rig #	8
Unit #	
Pump T.	

SAMPLES: No  
SENT TO:

Test Successful: Y



Operator.....: John O Farmer  
Well Name.....: Ruby Dirks #5  
DST Number.....: 6

Location.: 6-13s-33w Logan Cty KS Recorder No....: 2342  
Test Type: Conventional Recorder Depth: 4481  
Formation: Johnson Test Interval.: 4476-4505

RESERVOIR CALCULATIONS: Fluid calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....: 4.00 ft  
Porosity.....: 7.00 %  
Bottom Hole Temp.....: 121.00 F  
Specific Gravity.....: 0.031  
API Gravity.....: 35.00  
Compressibility.....: 1.140000 /psi  
Viscosity.....: 4.7317 cp  
Total Recovery.....: 80.00 ft  
Total Flowing Time.....: 125.00 min.  
Flow Rate.....: 2.30 bbls/d  
Final Flowing Pressure.....: 42.00 psi  
Horner Slope.....: 9.3788 psi/cycle  
Extrapolated Pressure.....: 160.12 psi  
Formation Volume Factor.....: 1.04 Reservoir/Surface  
Well Bore Radius.....: 3.94 in

RESULTS:

Effective Permeability.....: 49.060933 md  
Flow Capacity.....: 196.2437 md.ft  
Transmissibility.....: 41.4743 md.ft/cp  
Skin Factor.....: 14.7354  
Radius of Investigation.....: 0.47713 ft  
Damage Ratio.....: -60.5794  
Productivity Index.....: 0.0195 bbls/psi.d  
Productivity Index W/O Damage.: -1.1816 bbls/psi.d

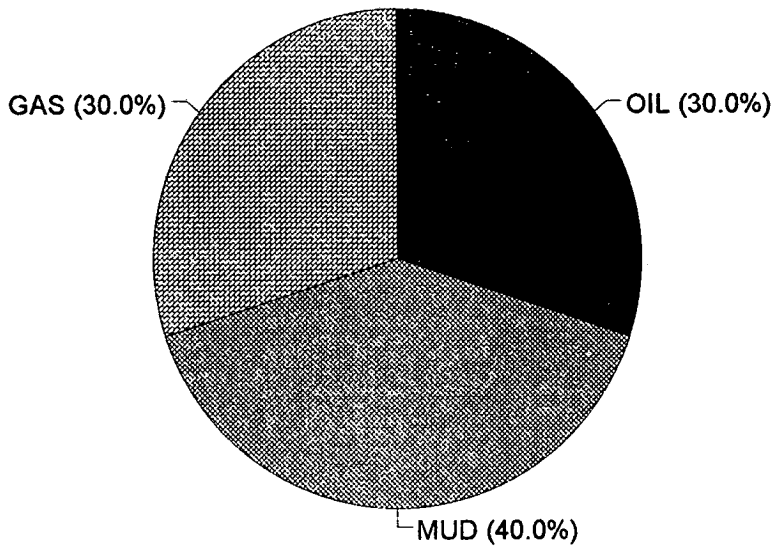
CALCULATED RECOVERY ANALYSIS WEIGHT PIPE 15-109-20620-0000

DST # 6

TICKE 8446

SAMPL #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	80	30	24	30	24	0	0	40	32
2			0		0	0	0		0
3			0		0	0	0		0
4			0		0	0	0		0
5			0		0	0	0		0
TOTAL	80	30	24	30	24	0	0	40	32

	BBL	HRS OP	BBL/DAY
BBL OIL	0.168	*	1.75
BBL W	0	*	0
BBL MU	0.224		
BBL GA	0.168		

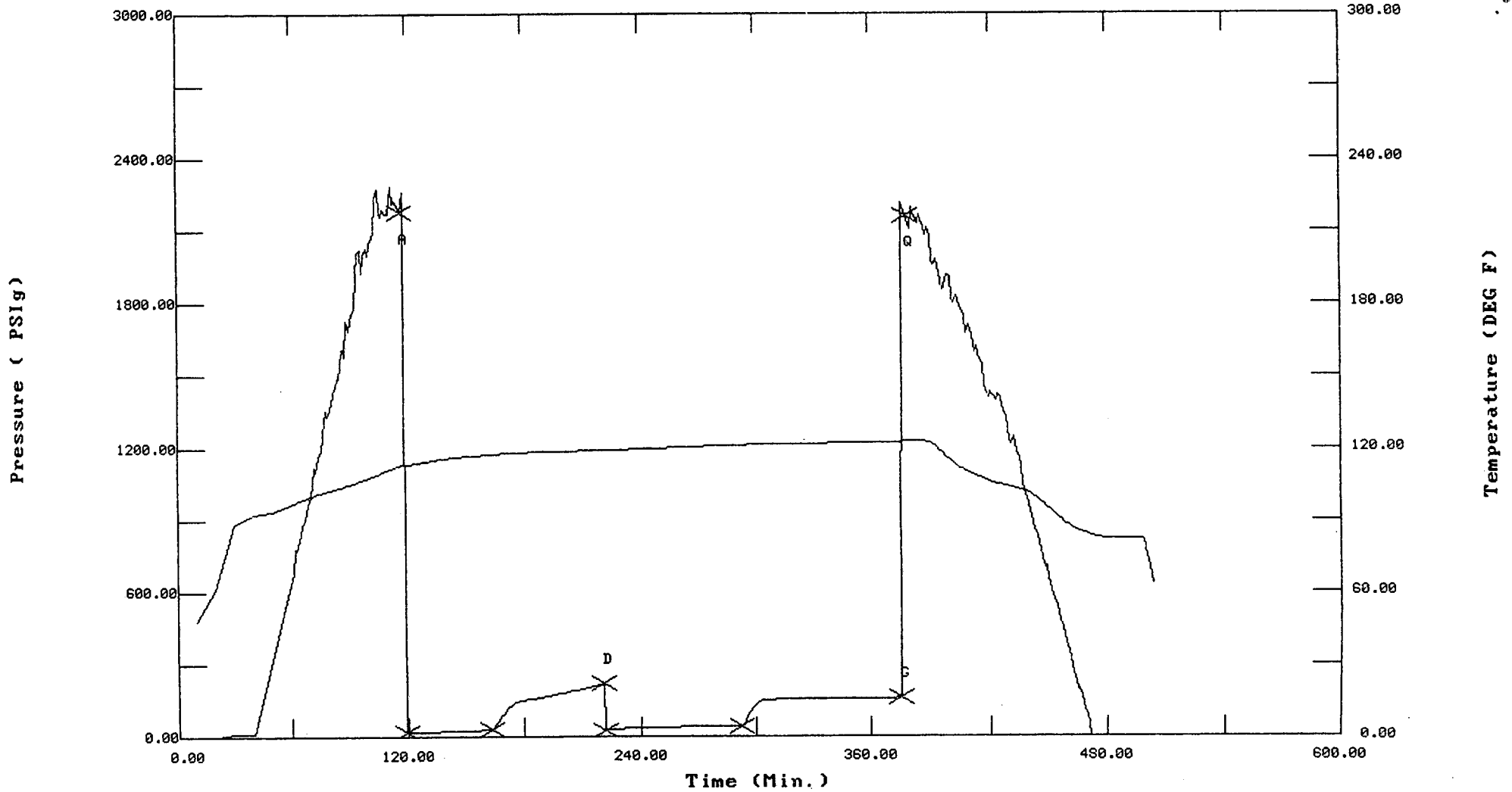


# TEST HISTORY

8446, DST#6, John O. Farmer Inc, Ruby Dirks #5

Flag Points  
t (Min.) P (PSig)

A:	0.00	2180.52
B:	0.00	14.01
C:	44.00	25.67
D:	58.00	218.88
E:	0.00	23.24
F:	71.00	42.04
G:	92.00	157.36
Q:	0.00	2157.78

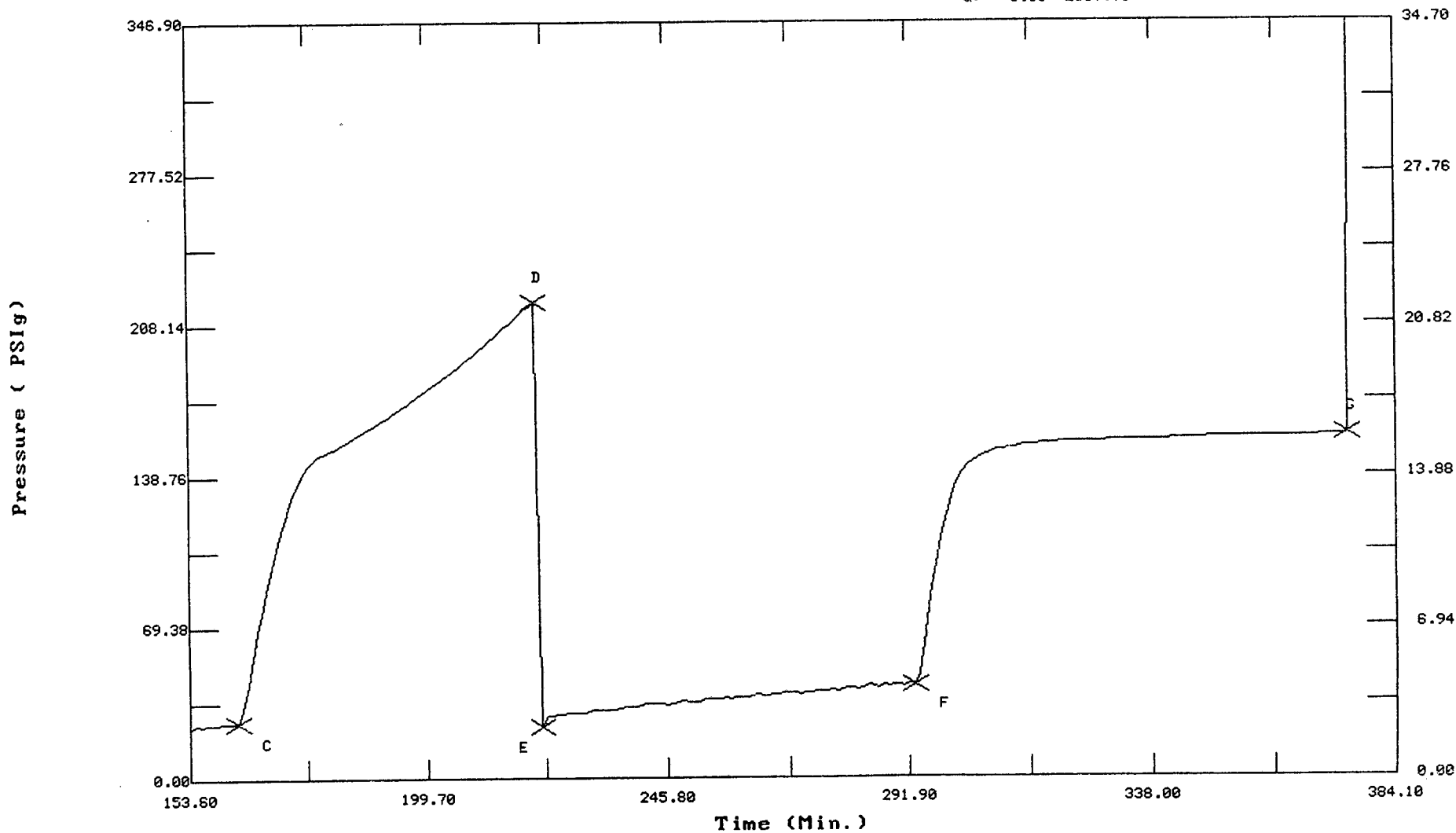


# TEST HISTORY

8446, DST#6, John O. Farmer Inc, Ruby Dirks #5

## Flag Points

	t (Min.)	P (PSig)
R:	0.00	2180.52
B:	0.00	14.01
C:	44.00	25.67
D:	58.00	218.88
E:	0.00	23.24
F:	71.00	42.04
G:	82.00	157.36
Q:	0.00	2157.78



Temperature (DEG F)

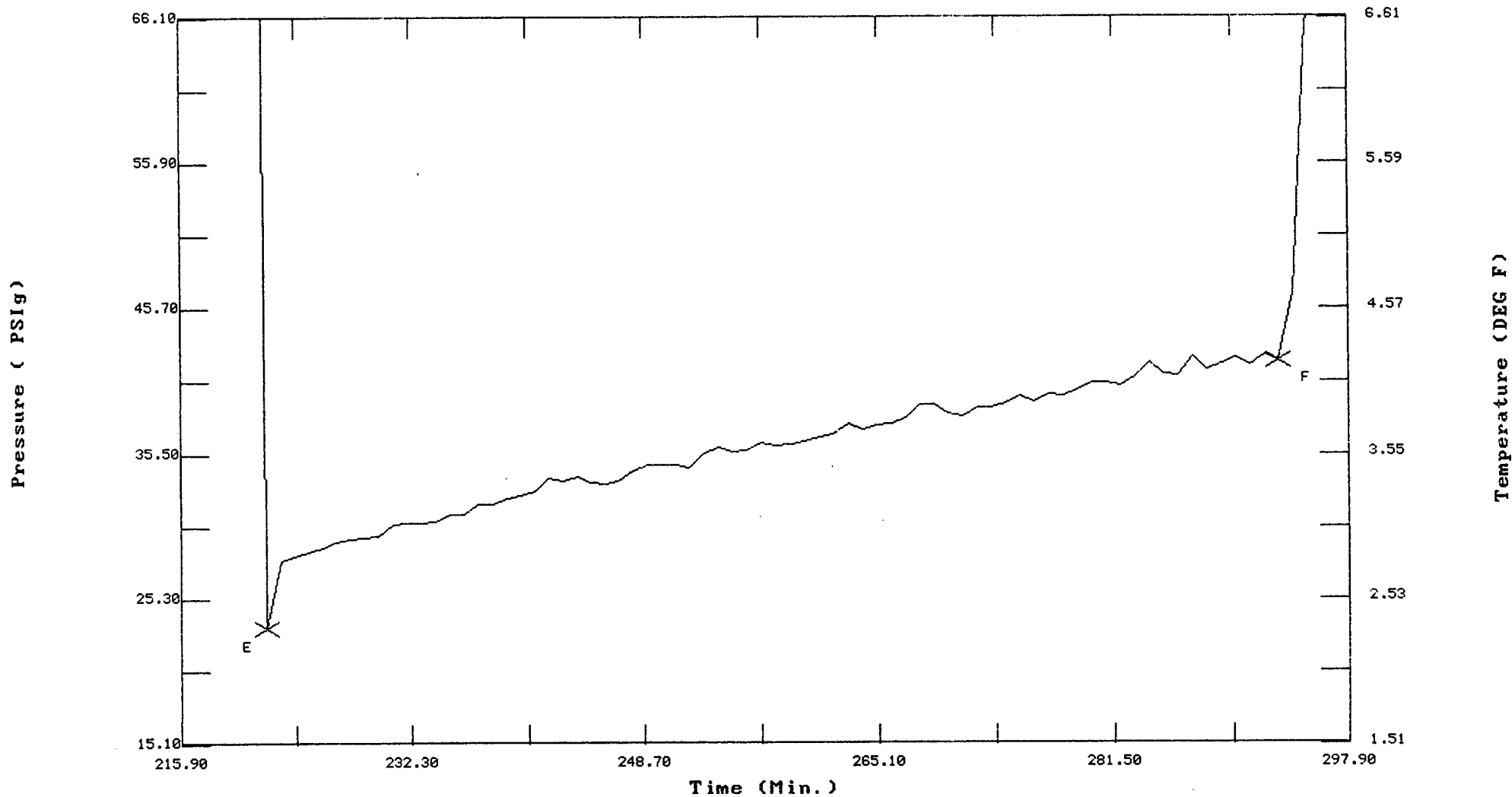
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# TEST HISTORY

8446, DST#6, John O. Farmer Inc, Ruby Dirks #5

Flag Points

	t (Min.)	P (PSig)
R:	0.00	2180.52
B:	0.00	14.01
C:	44.00	25.67
D:	58.00	218.88
E:	0.00	23.24
F:	71.00	42.04
G:	82.00	157.36
Q:	0.00	2157.78

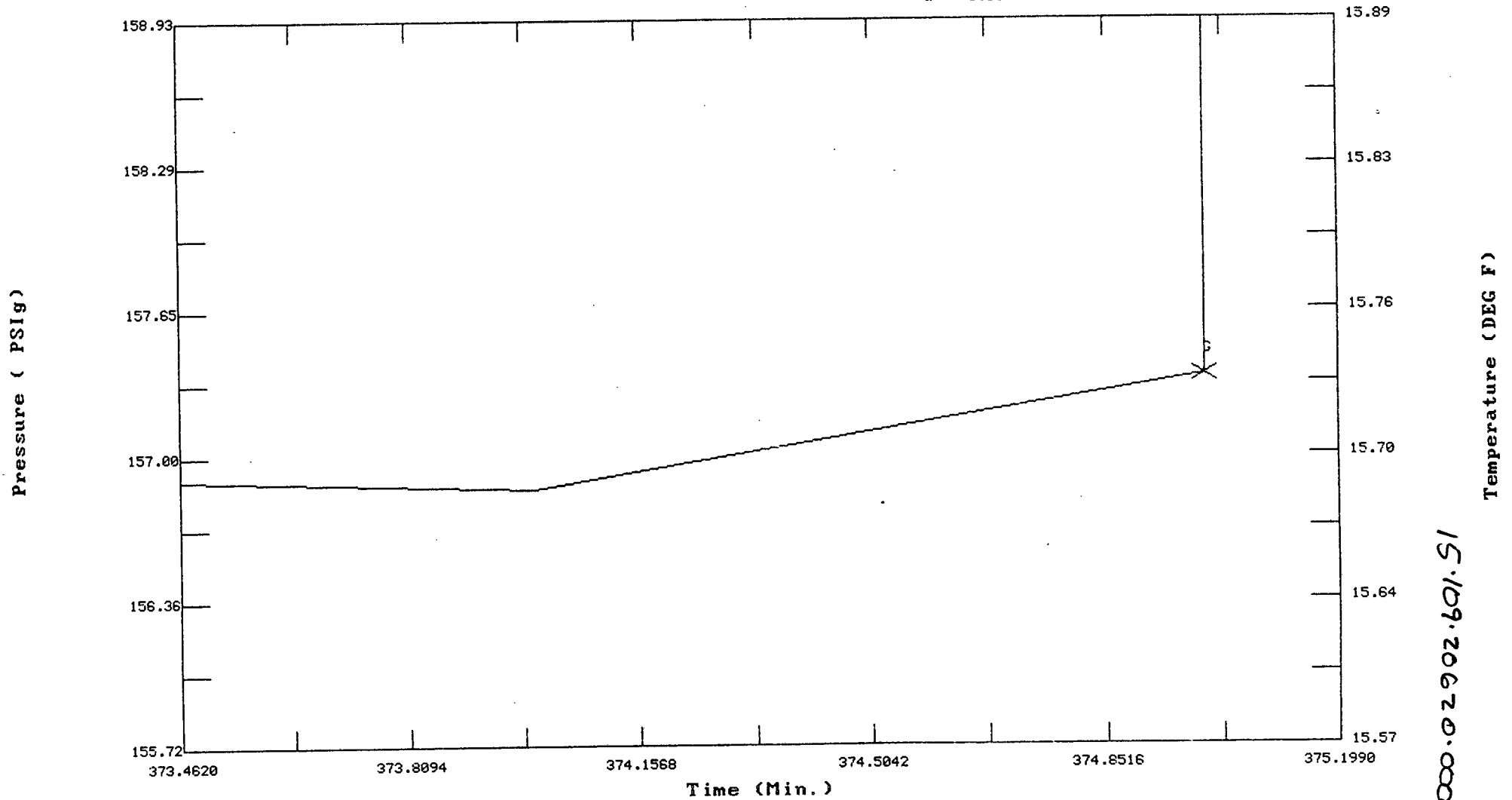


# TEST HISTORY

8446, DST#6, John O. Farmer Inc, Ruby Dirks #5

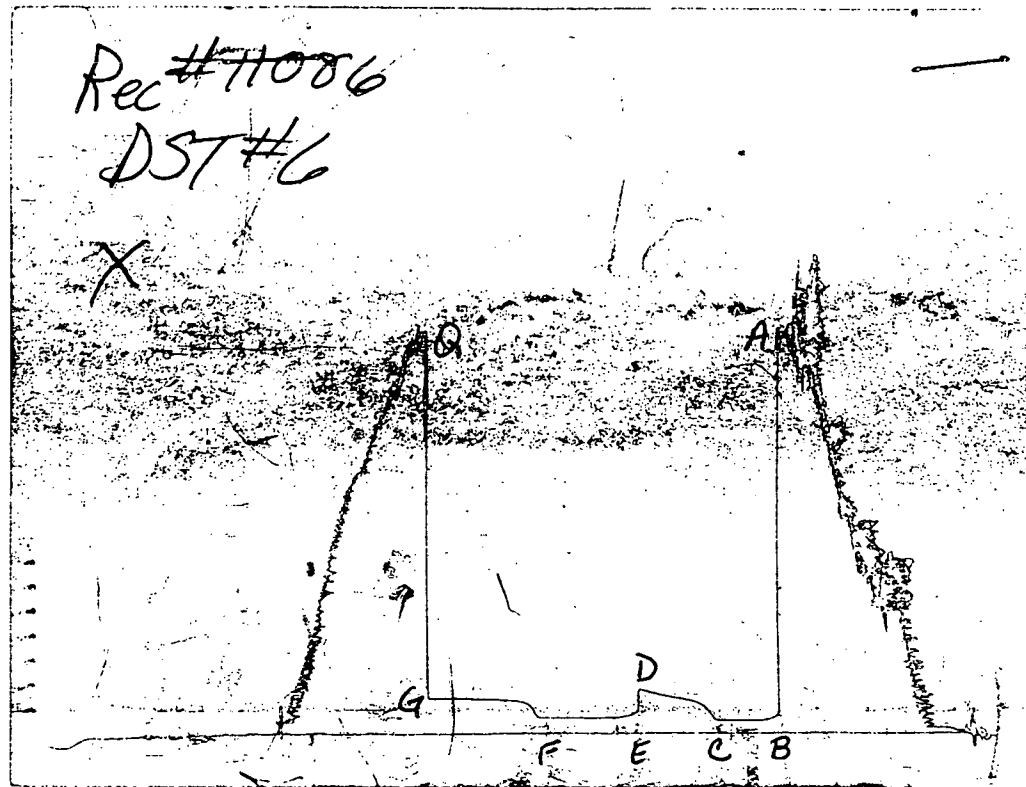
Flag Points  
t(Min.) P( PSig)

A:	0.00	2180.52
B:	0.00	14.01
C:	44.00	25.67
D:	58.00	218.88
E:	0.00	23.24
F:	71.00	42.04
G:	82.00	157.36
Q:	0.00	2157.78



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CHART PAGE



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

15.109.20620.0000

## ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8446, DST#6, John O. Farmer Inc, Ruby Dirks #5

DATE: 04/13/96

TIME: 08:24:16

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	117.00	2180.5	0.0	113.15		
***** Start Flow 1	0.00	14.0	0.0	113.39		
	1.00	16.0	2.0	113.47		
	2.00	12.9	-1.1	113.53		
	3.00	13.5	-0.5	113.59		
	4.00	13.8	-0.2	113.64		
	5.00	14.3	0.3	113.74		
	6.00	14.3	0.3	113.87		
	7.00	14.9	0.9	114.03		
	8.00	15.3	1.3	114.20		
	9.00	16.0	2.0	114.37		
	10.00	17.2	3.2	114.52		
	11.00	16.9	2.9	114.66		
	12.00	16.9	2.9	114.79		
	13.00	17.4	3.4	114.94		
	14.00	17.7	3.7	115.07		
	15.00	18.1	4.1	115.21		
	16.00	18.4	4.4	115.34		
	17.00	18.4	4.4	115.46		
	18.00	19.0	5.0	115.57		
	19.00	19.4	5.4	115.67		
	20.00	19.8	5.8	115.77		
	21.00	19.7	5.7	115.87		
	22.00	20.3	6.3	115.97		
	23.00	20.3	6.3	116.06		
	24.00	20.7	6.7	116.16		
	25.00	21.0	7.0	116.25		
	26.00	21.7	7.7	116.33		
	27.00	21.5	7.5	116.41		
	28.00	22.3	8.3	116.49		
	29.00	22.3	8.3	116.56		
	30.00	22.2	8.2	116.65		
	31.00	22.7	8.7	116.71		
	32.00	22.9	8.9	116.78		
	33.00	23.2	9.1	116.85		
	34.00	23.6	9.6	116.91		
	35.00	23.7	9.7	116.97		
	36.00	24.4	10.4	117.03		
	37.00	24.2	10.2	117.08		
	38.00	24.4	10.4	117.15		
	39.00	24.9	10.9	117.20		
	40.00	24.9	10.9	117.25		
	41.00	25.1	11.1	117.31		
	42.00	25.3	11.3	117.37		
	43.00	25.5	11.5	117.43		
***** End Flow 1	44.00	25.7	11.7	117.48		
***** Start Shutin 1	0.00	25.7	0.0	117.48	0.0000	0.001
	1.00	31.5	5.8	117.54	45.0000	0.001
	2.00	43.5	17.8	117.60	23.0000	0.002
	3.00	55.4	29.7	117.67	15.6667	0.003
	4.00	67.2	41.5	117.74	12.0000	0.005



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8446, DST#6, John O. Farmer Inc, Ruby Dirks #5

DATE: 04/13/96

TIME: 08:24:16

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
5.00	78.7	53.0	117.79	9.8000	0.006
6.00	89.5	63.8	117.86	8.3333	0.008
7.00	99.6	73.9	117.91	7.2857	0.01
8.00	109.0	83.3	117.96	6.5000	0.012
9.00	117.5	91.8	118.01	5.8889	0.014
10.00	124.9	99.2	118.06	5.4000	0.016
11.00	131.3	105.7	118.09	5.0000	0.017
12.00	136.7	111.0	118.14	4.6667	0.019
13.00	140.8	115.1	118.18	4.3846	0.020
14.00	144.1	118.4	118.22	4.1429	0.021
15.00	146.4	120.8	118.26	3.9333	0.021
16.00	148.1	122.5	118.30	3.7500	0.022
17.00	149.4	123.7	118.34	3.5882	0.022
18.00	150.6	124.9	118.37	3.4444	0.023
19.00	151.5	125.8	118.40	3.3158	0.023
20.00	152.7	127.0	118.44	3.2000	0.023
21.00	154.0	128.3	118.47	3.0952	0.024
22.00	155.3	129.7	118.50	3.0000	0.024
23.00	156.7	131.0	118.53	2.9130	0.025
24.00	158.0	132.4	118.55	2.8333	0.025
25.00	159.2	133.5	118.58	2.7600	0.025
26.00	160.6	135.0	118.61	2.6923	0.026
27.00	162.0	136.3	118.63	2.6296	0.026
28.00	163.4	137.7	118.65	2.5714	0.027
29.00	165.2	139.5	118.68	2.5172	0.027
30.00	166.6	140.9	118.70	2.4667	0.028
31.00	168.3	142.6	118.72	2.4194	0.028
32.00	169.9	144.2	118.75	2.3750	0.029
33.00	171.5	145.8	118.77	2.3333	0.029
34.00	173.1	147.5	118.78	2.2941	0.030
35.00	174.9	149.2	118.81	2.2571	0.031
36.00	176.7	151.0	118.83	2.2222	0.031
37.00	178.4	152.7	118.85	2.1892	0.032
38.00	180.3	154.6	118.87	2.1579	0.032
39.00	181.6	155.9	118.89	2.1282	0.033
40.00	183.3	157.6	118.91	2.1000	0.034
41.00	185.1	159.5	118.93	2.0732	0.034
42.00	186.9	161.2	118.95	2.0476	0.035
43.00	188.8	163.2	118.97	2.0233	0.036
44.00	190.6	164.9	118.99	2.0000	0.036
45.00	192.6	166.9	119.01	1.9778	0.037
46.00	194.5	168.8	119.03	1.9565	0.038
47.00	196.5	170.8	119.05	1.9362	0.039
48.00	198.5	172.8	119.06	1.9167	0.039
49.00	200.4	174.7	119.09	1.8980	0.040
50.00	202.4	176.8	119.10	1.8800	0.041
51.00	204.5	178.9	119.12	1.8627	0.042
52.00	206.5	180.8	119.14	1.8462	0.043
53.00	208.5	182.8	119.16	1.8302	0.043
54.00	210.6	184.9	119.17	1.8148	0.044
55.00	212.7	187.0	119.19	1.8000	0.045

15:09:20620.0000

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8446,DST#6,John O.Farmer Inc,Ruby Dirks #5

DATE: 04/13/96

TIME: 08:24:16

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	56.00	214.8	189.1	119.22	1.7857	0.046
	57.00	216.7	191.0	119.23	1.7719	0.047
***** End Shut-in 1	58.00	218.9	193.2	119.25	1.7586	0.048
***** Start Flow 2	0.00	23.2	0.0	119.27		
	1.00	28.0	4.8	119.28		
	2.00	28.4	5.1	119.28		
	3.00	28.6	5.4	119.30		
	4.00	28.9	5.7	119.32		
	5.00	29.4	6.1	119.36		
	6.00	29.5	6.3	119.40		
	7.00	29.7	6.5	119.44		
	8.00	29.8	6.5	119.47		
	9.00	30.6	7.4	119.51		
	10.00	30.7	7.5	119.55		
	11.00	30.7	7.5	119.58		
	12.00	30.8	7.6	119.61		
	13.00	31.3	8.1	119.64		
	14.00	31.3	8.1	119.68		
	15.00	32.0	8.7	119.71		
	16.00	32.1	8.8	119.74		
	17.00	32.5	9.2	119.78		
	18.00	32.6	9.4	119.80		
	19.00	32.9	9.7	119.83		
	20.00	33.9	10.7	119.87		
	21.00	33.6	10.4	119.90		
	22.00	34.0	10.7	119.93		
	23.00	33.6	10.3	119.96		
	24.00	33.4	10.2	119.99		
	25.00	33.6	10.4	120.01		
	26.00	34.4	11.2	120.04		
	27.00	34.8	11.6	120.07		
	28.00	34.7	11.5	120.10		
	29.00	34.7	11.5	120.12		
	30.00	34.6	11.3	120.15		
	31.00	35.6	12.3	120.18		
	32.00	36.0	12.8	120.22		
	33.00	35.7	12.4	120.25		
	34.00	35.8	12.6	120.28		
	35.00	36.3	13.1	120.32		
	36.00	36.1	12.8	120.36		
	37.00	36.2	13.0	120.40		
	38.00	36.4	13.2	120.43		
	39.00	36.7	13.4	120.47		
	40.00	36.9	13.7	120.51		
	41.00	37.7	14.4	120.54		
	42.00	37.3	14.0	120.57		
	43.00	37.5	14.3	120.60		
	44.00	37.7	14.4	120.63		
	45.00	38.0	14.8	120.66		
	46.00	38.9	15.7	120.69		
	47.00	38.9	15.7	120.71		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8446,DST#6,John O.Farmer Inc,Ruby Dirks #5

DATE: 04/13/96 TIME: 08:24:16

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
48.00	38.3	15.1	120.74		
49.00	38.2	14.9	120.77		
50.00	38.8	15.5	120.80		
51.00	38.8	15.5	120.82		
52.00	39.0	15.8	120.85		
53.00	39.5	16.3	120.87		
54.00	39.2	15.9	120.90		
55.00	39.7	16.4	120.92		
56.00	39.6	16.4	120.95		
57.00	39.9	16.7	120.97		
58.00	40.5	17.3	121.00		
59.00	40.4	17.2	121.02		
60.00	40.3	17.0	121.05		
61.00	40.9	17.6	121.07		
62.00	41.9	18.6	121.10		
63.00	41.1	17.9	121.12		
64.00	41.0	17.8	121.15		
65.00	42.3	19.1	121.17		
66.00	41.5	18.2	121.20		
67.00	41.8	18.5	121.22		
68.00	42.2	19.0	121.25		
69.00	41.7	18.5	121.27		
70.00	42.5	19.2	121.29		
***** End Flow 2	71.00	42.0	18.8	121.32	
***** Start Shutin 2	0.00	42.0	0.0	121.32	0.0000 0.002
	1.00	46.7	4.7	121.34	116.0000 0.002
	2.00	65.8	23.8	121.37	58.5000 0.004
	3.00	82.8	40.8	121.39	39.3333 0.007
	4.00	97.7	55.6	121.42	29.7500 0.01
	5.00	110.2	68.1	121.45	24.0000 0.012
	6.00	120.7	78.6	121.47	20.1667 0.015
	7.00	128.9	86.9	121.49	17.4286 0.017
	8.00	135.3	93.2	121.51	15.3750 0.018
	9.00	139.8	97.8	121.54	13.7778 0.020
	10.00	142.8	100.8	121.56	12.5000 0.020
	11.00	144.9	102.9	121.58	11.4545 0.021
	12.00	146.6	104.6	121.60	10.5833 0.021
	13.00	147.6	105.6	121.63	9.8462 0.022
	14.00	148.6	106.6	121.64	9.2143 0.022
	15.00	149.5	107.4	121.66	8.6667 0.022
	16.00	150.1	108.1	121.68	8.1875 0.023
	17.00	150.7	108.7	121.69	7.7647 0.023
	18.00	151.1	109.0	121.71	7.3889 0.023
	19.00	151.5	109.4	121.73	7.0526 0.023
	20.00	151.9	109.9	121.74	6.7500 0.023
	21.00	152.2	110.2	121.76	6.4762 0.023
	22.00	152.6	110.5	121.77	6.2273 0.023
	23.00	152.8	110.8	121.79	6.0000 0.023
	24.00	153.1	111.0	121.80	5.7917 0.023
	25.00	153.2	111.2	121.81	5.6000 0.023
	26.00	153.4	111.4	121.82	5.4231 0.024

15109.20620.0000

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8446, DST#6, John O. Farmer Inc, Ruby Dirks #5

DATE: 04/13/96

TIME: 08:24:16

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
27.00	153.5	111.5	121.83	5.2593	0.024
28.00	153.7	111.6	121.84	5.1071	0.024
29.00	153.7	111.6	121.85	4.9655	0.024
30.00	153.8	111.8	121.87	4.8333	0.024
31.00	153.8	111.8	121.88	4.7097	0.024
32.00	154.0	112.0	121.89	4.5938	0.024
33.00	154.0	112.0	121.90	4.4848	0.024
34.00	154.2	112.2	121.91	4.3824	0.024
35.00	154.2	112.2	121.91	4.2857	0.024
36.00	154.3	112.3	121.92	4.1944	0.024
37.00	154.4	112.3	121.94	4.1081	0.024
38.00	154.4	112.3	121.95	4.0263	0.024
39.00	154.4	112.3	121.96	3.9487	0.024
40.00	154.5	112.5	121.97	3.8750	0.024
41.00	154.5	112.4	121.98	3.8049	0.024
42.00	154.5	112.4	121.99	3.7381	0.024
43.00	154.6	112.6	122.00	3.6744	0.024
44.00	154.6	112.6	122.01	3.6136	0.024
45.00	154.6	112.6	122.01	3.5556	0.024
46.00	154.5	112.5	122.02	3.5000	0.024
47.00	154.7	112.6	122.04	3.4468	0.024
48.00	154.8	112.7	122.04	3.3958	0.024
49.00	155.1	113.1	122.05	3.3469	0.024
50.00	155.2	113.1	122.07	3.3000	0.024
51.00	155.4	113.3	122.06	3.2549	0.024
52.00	155.4	113.3	122.09	3.2115	0.024
53.00	155.5	113.4	122.09	3.1698	0.024
54.00	155.6	113.6	122.10	3.1296	0.024
55.00	155.7	113.6	122.11	3.0909	0.024
56.00	155.8	113.7	122.12	3.0536	0.024
57.00	155.9	113.9	122.13	3.0175	0.024
58.00	156.0	114.0	122.14	2.9828	0.024
59.00	156.1	114.1	122.15	2.9492	0.024
60.00	156.1	114.1	122.16	2.9167	0.024
61.00	156.1	114.0	122.16	2.8852	0.024
62.00	156.1	114.0	122.17	2.8548	0.024
63.00	155.9	113.9	122.18	2.8254	0.024
64.00	155.8	113.8	122.19	2.7969	0.024
65.00	155.8	113.8	122.20	2.7692	0.024
66.00	155.8	113.8	122.20	2.7424	0.024
67.00	155.8	113.8	122.21	2.7164	0.024
68.00	155.8	113.8	122.22	2.6912	0.024
69.00	155.8	113.8	122.23	2.6667	0.024
70.00	155.8	113.8	122.23	2.6429	0.024
71.00	156.0	113.9	122.25	2.6197	0.024
72.00	156.0	113.9	122.26	2.5972	0.024
73.00	156.0	113.9	122.27	2.5753	0.024
74.00	156.1	114.1	122.28	2.5541	0.024
75.00	156.3	114.2	122.28	2.5333	0.024
76.00	156.3	114.3	122.29	2.5132	0.024
77.00	156.4	114.4	122.30	2.4935	0.024

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8446, DST#6, John O. Farmer Inc, Ruby Dirks #5

DATE: 04/13/96

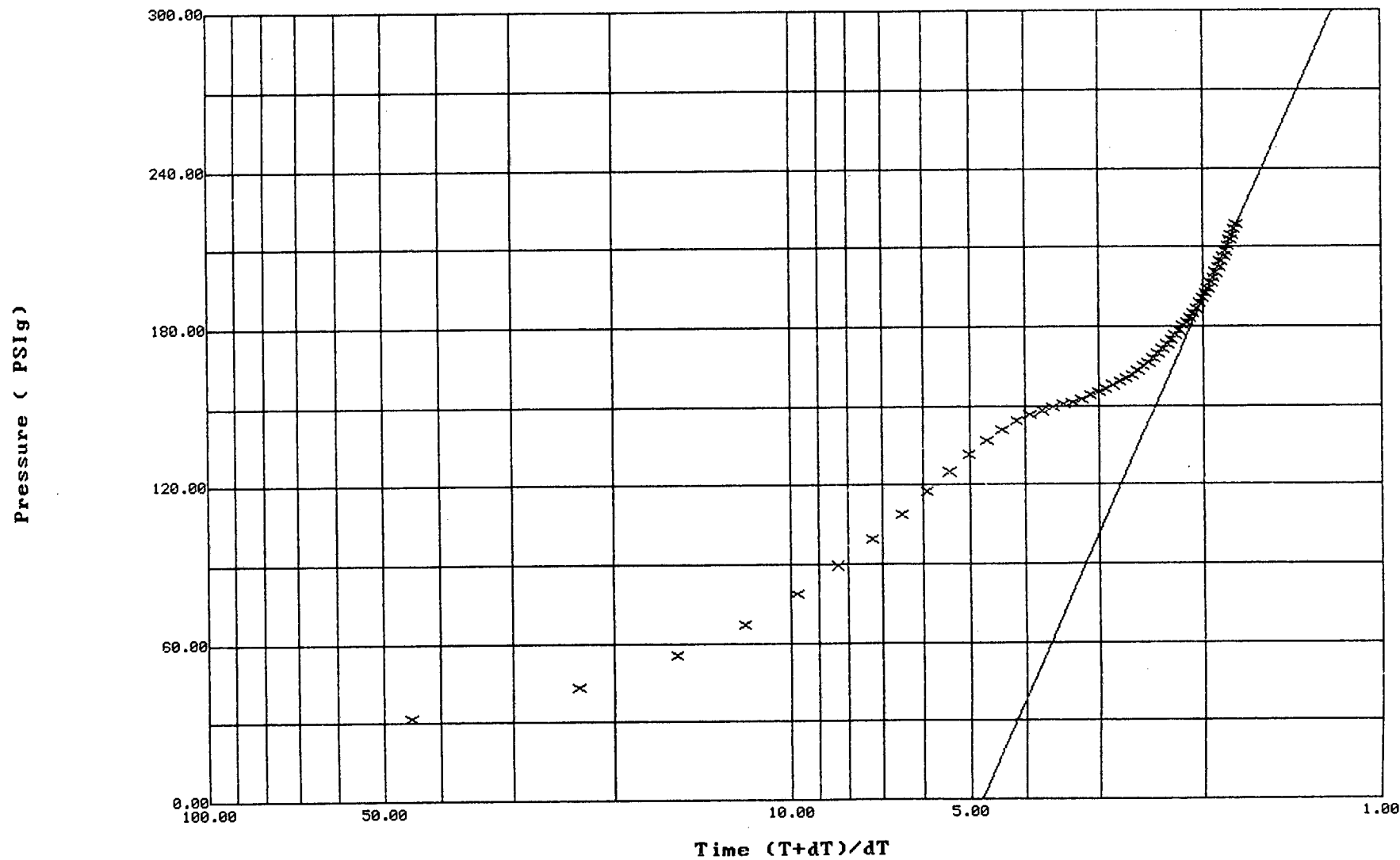
TIME: 08:24:16

	Time	Pressure PSIg	delta P PSIg	P DEG F	Temp.	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	78.00	156.5	114.5	122.30		2.4744	0.024
	79.00	156.8	114.7	122.32		2.4557	0.025
	80.00	156.9	114.9	122.33		2.4375	0.025
	81.00	156.9	114.8	122.33		2.4198	0.025
***** End Shut-in 2	82.00	157.4	115.3	122.35		2.4024	0.025
***** Final Hydro.	378.00	2157.8	0.0	122.80			

# Horner Plot: shut-in #1

8446, DST#6, John O. Farmer Inc, Ruby Dirks #5

Slope: 505.7404 PSig/cycle  
Ext. Pressure: 341.7559 PSig



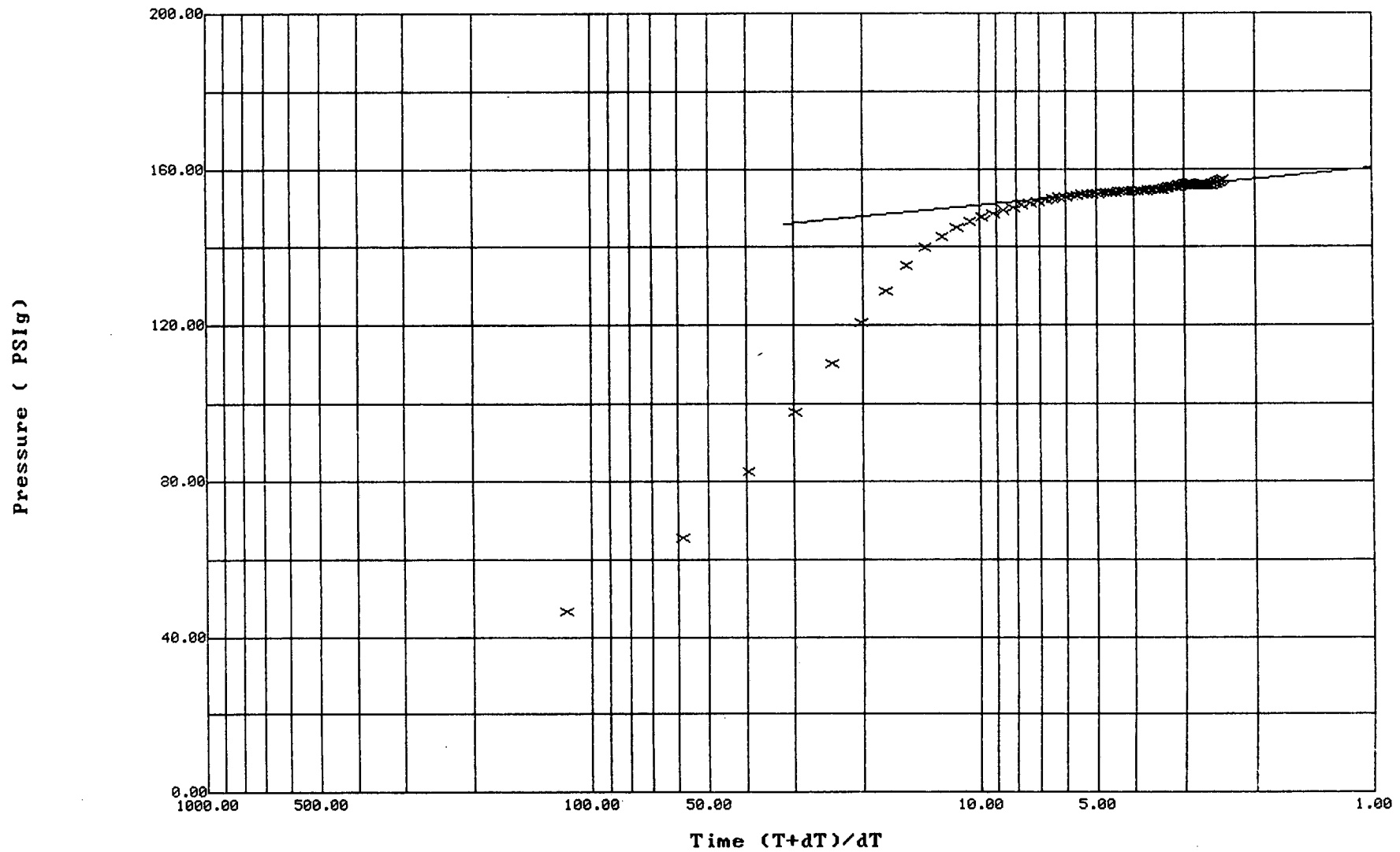
15.109.206.20.0000

# Horner Plot: shut-in #2

8446, DST#6, John O. Farmer Inc, Ruby Dirks #5

Slope: 9.3788 PSig/cycle

Ext. Pressure: 160.1197 PSig



15-109-20620-0000

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Ruby Dirks #5  
 LOCATION : 6-13S-33W, Logan Cty KS  
 TICKET No. 8446 D.S.T. No. 6 DATE 4-13-96  
 TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 20  
 INTERVAL TOOL .....  
 BOTTOM PACKERS AND ANCHOR ..... 29  
 TOTAL TOOL ..... 49  
 DRILL COLLAR ANCHOR IN INTERVAL .....  
 D.C. ANCHOR STND.Stands Single Total  
 D.P. ANCHOR STND.Stands Single Total  
 TOTAL ASSEMBLY ..... 49  
 D.C. ABOVE TOOLS.Stands Single Total  
 D.P. ABOVE TOOLS.Stands72 Single 1 Total 4490  
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4539  
 TOTAL DEPTH ..... 4505  
 TOTAL DRILL PIPE ABOVE K.B. .... 34  
 REMARKS:

P.O. SUB 120' up in D.C.	4336
C.O. SUB 1'	4456
S.I. TOOL 5'	4462
HMV 5'	4467
JARS N/A	
SAFETY JOINT N/A	
PACKER 5'	4471
PACKER 5'	4476
DEPTH 4476	
STUBB 1'	4477
ANCHOR Alpine Recorder	4481
23' perf	4500
T.C. DEPTH	
AK-1 Recorder	4500
BULLNOSE 5'	
T.D.	4505



# ALLIED CEMENTING CO., INC.

## ORIGINAL

11451  
15109-20620-0000

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Oakley

DATE <u>4/5/96</u>	SEC <u>6</u>	TWP <u>13s</u>	RANGE <u>33W</u>	CALLED OUT <u>6:00 PM</u>	ON LOCATION <u>6:30 PM</u>	JOB START <u>7:20 PM</u>	JOB FINISH <u>8:15 PM</u>
LEASE <u>Ruby Dirks</u>		WELL # <u>5</u>	LOCATION <u>Monument 8s 2w</u>			COUNTY <u>Logan</u>	STATE <u>KS</u>

OLD OR NEW (Circle one)

COPY

CONTRACTOR Abercrombie RTD #9  
 TYPE OF JOB CMT 8 3/4 Surface CSG  
 HOLE SIZE 17 1/4 T.D. 211  
 CASING SIZE 8 3/4 20# DEPTH 206#  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 200 MINIMUM 50  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 15  
 CEMENT LEFT IN CSG. 15  
 PERFS. \_\_\_\_\_

OWNER Same CEMENT  
 AMOUNT ORDERED 150 SKS 60/4 + 270 gxl 390ccal  
 COMMON 90 SKS @ 7.20 648.00  
 POZMIX 60 SKS @ 3.15 189.00  
 GEL 3 SKS @ 9.50 28.50  
 CHLORIDE 5 SKS @ 28.00 140.00  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 HANDLING 750 SKS @ 1.05 157.50  
 MILEAGE 4 1/2 per SK mile 108.00  
 TOTAL 1,271.00

EQUIPMENT

PUMP TRUCK CEMENTER  
 # 191 HELPER Dcan  
 BULK TRUCK  
 # 219 DRIVER Max  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

CMT 8 3/4 Surface CSG with 150 SKS 60/4 + 270 gxl 390ccal Prop Plug Displace 12 BBL Close in Head Cement Did circulate

SERVICE

DEPTH OF JOB 206  
 PUMP TRUCK CHARGE 445.00  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE 18 - mi @ 2.35 42.30  
 PLUG 8 3/4 wooden Plug @ \_\_\_\_\_ 45.00  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 TOTAL 532.30

CHARGE TO: John O. Farmer  
 STREET P.O. Box 352  
 CITY Russell STATE Kan ZIP 67665

FLOAT EQUIPMENT

@ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Anthony Mart

TAX \_\_\_\_\_  
 TOTAL CHARGE \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

RECEIVED  
KANSAS CORP COMM  
APR 29 10:32

# ALLIED CEMENTING CO., INC.

01497

15-109-20620-0000

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

## ORIGINAL

SERVICE POINT: Oakley

DATE <u>4-17-96</u>	SEC <u>6</u>	TWP <u>13</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>10:30 AM</u>	JOB START <u>10:45 AM</u>	JOB FINISH <u>1:00 PM</u>
LEASE <u>Hoby Dicks</u>	WELL# <u>5</u>	LOCATION <u>Monument #5-1/2 W</u>	COUNTY <u>Logan</u>	STATE <u>Kan</u>			

OLD OR NEW (Circle one) NEW

# COPY

CONTRACTOR <u>Abercrombie RTD #8</u>	OWNER <u>Same</u>
TYPE OF JOB <u>PTA</u>	CEMENT
HOLE SIZE <u>7 7/8</u>	T.D. <u>4595'</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	

AMOUNT ORDERED 190 SKS 6 9/16" per 6 7/8" c.c. 1/4" Flo-Sec 1

COMMON	<u>114 SKS</u>	@ <u>7.20</u>	<u>820.80</u>
POZMIX	<u>76 SKS</u>	@ <u>3.15</u>	<u>239.40</u>
GEL	<u>10 SKS</u>	@ <u>9.50</u>	<u>95.00</u>
CHLORIDE		@	
<u>Flo-Sec 1 48"</u>		@ <u>1.15</u>	<u>55.20</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>190 SKS</u>	@ <u>1.05</u>	<u>199.50</u>
MILEAGE	<u>4 1/2 per SK 1 mile</u>		<u>136.80</u>
			TOTAL <u>1,546.70</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Walt</u>
# <u>191</u>	HELPER <u>Dean</u>
BULK TRUCK	
# <u>218</u>	DRIVER <u>Dean</u>
BULK TRUCK	
#	DRIVER

REMARKS:

<u>25 SKS @ 2445'</u>
<u>100 SKS @ 1405'</u>
<u>40 SKS @ 255'</u>
<u>10 SKS @ 40'</u>
<u>15 SKS @ R.H.</u>

SERVICE

DEPTH OF JOB	<u>2445'</u>
PUMP TRUCK CHARGE	<u>550.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>18 miles</u>	@ <u>2.35</u> <u>42.30</u>
PLUG <u>8 7/8 D.H. Plug</u>	@ <u>23.00</u>
	@
	@
TOTAL <u>615.30</u>	

CHARGE TO: John O. Farmer  
STREET P.O. Box 352  
CITY Russell STATE Kan ZIP 67665

FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Timothy Ward

TAX \_\_\_\_\_  
TOTAL CHARGE \_\_\_\_\_  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS