

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: Martin K. Dubois
Phone (913) 483-3144

Contractor: Name: Mallard JV, Inc.
License: 4958
Wellsite Geologist: John O. Farmer IV

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. _____

12-14-95 12-23-95
Spud Date Date Reached TD Completion Date

API NO. 15- 109-20,606-00-00
County Logan
SE - SE - NE Sec. 6 Twp. 13S Rge. 33 X E

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

Lease Name Nau Well # 1
Field Name Logansport NW
Producing Formation _____

Elevation: Ground 3044' KB 3049'
Total Depth 4653' PBDT _____

Amount of Surface Pipe Set and Cemented at 257 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 D & A 4-3-96
(Data must be collected from the Reserve Pit) RL

Chloride content 23,000 ppm Fluid volume 1,800 bbls
Dewatering method used evaporation

Location of fluid disposal if hauled offsite:
(not hauled)

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

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.

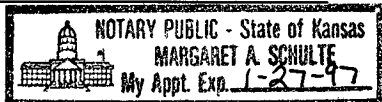
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature John O. Farmer III
Title President Date 1-3-96
Subscribed and sworn to before me this 3rd day of January,
19 96.

Notary Public Margaret A. Schulte
Margaret A. Schulte

Date Commission Expires _____

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



ORIGINAL

SIDE TWO

Operator Name John O. Farmer, Inc. Lease Name Nau Well # 1

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.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Base/Anhydrite	2512' (+537)
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3916' (-867)
List All E.Logs Run:		Lansing	3968' (-919)
Dual Induction Log		Stark	4210' (-1161)
Compensated Density/Neutron Log		Base/KC	4292' (-1243)
		Pawnee	4410' (-1361)
		Fort Scott	4466' (-1417)
		Cherokee	4494' (-1445)
		Johnson	4540' (-1491)
		Mississippi	4626' (-1577)
		L.T.D.	4654' (-1605)

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
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
Surface	12-1/4"	8-5/8"		257'	60/40 Pozmix	160	3% C.C., 2% gel

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

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

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

Estimated Production Per 24 Hours	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

MALLARD JV, Inc.
DRILLING CONTRACTORS

P. O. Box 1009
McPHERSON, KS 67460

316-241-4640

Drillers Log

OPERATOR: **John O. Farmer, Inc.**
P. O. Box 352
Russell, KS 67665

WELL: **Nau #1**

API #: **15-109-206060000**

COMMENCED: **December 14, 1995**

LOCATION: **SE SE NE**
2310' FNL, 330' FEL
Section 6, Township 13 S, Range 33 W
Logan County, Kansas

COMPLETED: **December 24, 1995**

TOTAL DEPTH: **4653'**

ELEVATION: **3044' GL, 3049' KB**

STATUS: **Dry and Abandoned - Mississippi Formation**

SPUD: **6:48 pm 12/14/95**

SIZE HOLE DRILLED: **12-1/4" x 259'**

SURFACE CASING SIZE: **8-5/8" x 250.65' (6 jts.)**

SET AT: **257'**

CEMENT: **160 sacks 60/40 Pozmix, 2% gel, 3% cc**

SIZE HOLE DRILLED: **7-7/8" x 4653'**

PLUGGED HOLE WITH: **200 sacks 60/40 Pozmix, 6% gel, 1/4# floseal per sack as follows:**

25 sx @ 2540'

100 sx @ 1440'

40 sx @ 310'

10 sx @ 40'

15 sx rathole,

10 sx mousehole

P. D.: **7:00 am 12/24/95**

DRILL STEM TESTS: **5**

ELECTRIC LOG: **Yes**

RECEIVED
STATE CORPORATION COMMISSION

JAN 04 1996

WICHITA, KANSAS COMMISSION

JOB SUMMARY

HALLIBURTON DIVISION MOO CONTINENT
 HALLIBURTON LOCATION HAYS, KS

BILLED ON TICKET NO. 915076

WELL DATA

SEC. b TWP. 13S RNG. 33W COUNTY LOGAN STATE KS

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE	
CASING			<u>8 5/8</u>	<u>KB</u>	<u>2570</u>		
LINER							
TUBING							
OPEN HOLE			<u>7 1/2</u>	<u>257</u>	<u>4653</u>	SHOTS/FT.	
PERFORATIONS			ORIGINAL				
PERFORATIONS							
PERFORATIONS							

JOB DATA

CALLED OUT		ON LOCATION		JOB STARTED		JOB COMPLETED	
DATE	<u>12-24</u>	DATE	<u>12-24</u>	DATE	<u>12-24</u>	DATE	<u>12-24</u>
TIME	<u>0005</u>	TIME	<u>0345</u>	TIME	<u>0445</u>	TIME	<u>0900</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>W. WILSON</u>	<u>B9377</u>	<u>PECK-WP 39604 HAYS, KS</u>
<u>D. ASH</u>	<u>F1609</u>	<u>COMBO 53293 "</u>
<u>N. KORBE</u>	<u>3850</u>	<u>BULK "</u>

TYPE _____
 THICKNESS _____ FROM _____ TO _____
 OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 MUD OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 DATE _____ MUD TYPE _____ MUD WT. _____
 TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 DATA _____ TOTAL DEPTH _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>WOOD-1A11</u>	<u>1</u>	<u>HOWCO</u>
HEAD		
PACKER		
OTHER		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API
 PROP. TYPE _____ SIZE _____ LB.
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 SURFACTANT TYPE _____ GAL. _____ IN
 NE AGENT TYPE _____ GAL. _____ IN
 FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN
 BREAKER TYPE _____ GAL.-LB. _____ IN
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

DEPARTMENT CEMENT
 DESCRIPTION OF JOB PTA

BOUNCE SPOT CEMENT PLUGS IN WELL

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X [Signature]

HALLIBURTON OPERATOR Wayne E. With COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>200</u>	<u>4070 P02</u>	<u>6070 SA</u>	<u>B</u>	<u>670 GEL, 1/4 # FLOCCER P/SK</u>	<u>167</u>	<u>12.6</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET _____ REASON _____

SUMMARY

PRELUSH: BBL.-GAL. _____
 LOAD & BKDN: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____
 CEMENT SLURRY: BBL.-GAL. 59.5
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

SEE JOB LOG
THANK YOU

STATE CORPORATION COMMISSION
 RECEIVED
 JAN 04 1996

CUSTOMER

CUSTOMER: JOHN O FARMER
 LEASE: N/A
 WELL NO: [Blank]
 JOB TYPE: PTA
 DATE: 12-24-95

13-C
 FARMED
 WELL NO. **1** LEASE **NAU** JOB TYPE **PTA** TICKET NO. **915076**

TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
			T	C	TUBING	CASING	
0005							CALLED OUT ORIGINAL
0345							ON LOCATION - BALANCE CEMENT PLUGS
NONE 0445		7.4	✓				1ST PLUG @ 2540' 25 SKS
0535		29.7	✓				2ND PLUG @ 1440' 100 SKS
0630		11.9	✓				3RD PLUG @ 310' 40 SKS
0645		3	✓				4TH PLUG @ 40' 10 SKS - WOOD PLUG
0650		4 1/2	✓				5TH PLUG @ 15 SKS RATHOLE
0700		3	✓				6TH PLUG @ 10 SKS MOUSEHOLE
							WASH-UP
							RICK-UP
0800							JOB COMPLETE
							THANK YOU WADE, DAVE NECK
							STATE RECEIVED CORPORATION COMMISSION JAN 04 1996
							PUMP TIME - 1/2 HOUR

CUSTOMER

0 0 0 0

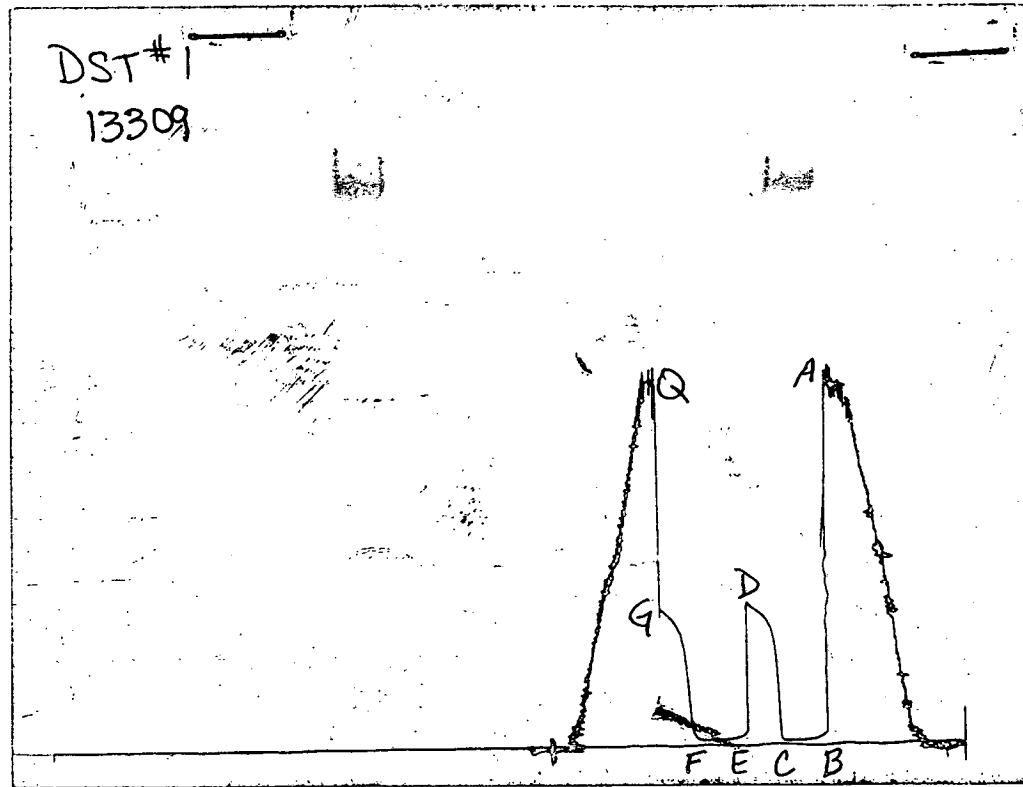
Well Name: NAU #1
Company : J. O. FARMER INC
Location - Sec: 6
County: LOGAN
Date: 12/23/95

ORIGINAL

Twp: 13S **Rge:** 33W
State: KS

15-109-20606

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : J. O. Farmer Inc.

DATE 12-20-95

WELL NAME: NAU #1

KB 3049.00 ft

TICKET NO: 8827

DST #2

LOCATION : 6-13S-33W, Logan Cty KS

GR 3044.00 ft

FORMATION: Lansing 'E'

INTERVAL : 4038.00 To 4058.00 ft

TD 4058.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	13339	13339	2346			PF Fr. 0243 to 0328 hr
SI 45	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0328 to 0413 hr
SF 45	Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 0413 to 0458 hr
FS 45	Depth(ft)	4055.0	4055.0	4040.0	0.0	0.0	FS Fr. 0458 to 0543 hr

	Field	1	2	3	4	
A. Init Hydro	1922.0	1963.0	1978.0	0.0	0.0	T STARTED 0104 hr
B. First Flow	20.0	2.0	22.0	0.0	0.0	T ON BOTM 0241 hr
B1. Final Flow	20.0	2.0	33.0	0.0	0.0	T OPEN 0243 hr
C. In Shut-in	1070.0	1060.0	1140.0	0.0	0.0	T PULLED 0543 hr
D. Init Flow	20.0	8.0	35.0	0.0	0.0	T OUT 0730 hr
E. Final Flow	20.0	8.0	48.0	0.0	0.0	
F. Fl Shut-in	1000.0	990.0	1072.0	0.0	0.0	
G. Final Hydro	1912.0	1889.0	1931.0	0.0	0.0	
Inside/Outside	0	0	I			

TOOL DATA-----

Tool Wt.	1800.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	80000.00 lbs
Initial Str Wt	62000.00 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	3.80 in
D.C. Length	250.00 ft
D.P. Length	3794.00 ft

RECOVERY

Tot Fluid 61.00 ft of 61.00 ft in DC and 0.00 ft in DP
 1.00 ft of Free Oil - 100% oil
 60.00 ft of Oily water cut mud - 2% oil, 8% water, 90% mud

RW 1.1 @ 55 F

SALINITY 7000.00 P.P.M. A.P.I. Gravity 36.00

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	47.00 S/L
W.L.	8.80 in ³
F.C.	0.00 in

BLOW DESCRIPTION

Initial Flow -
 Surface blow built to .5", stayed steady throughout

Initial Shutin -
 No blow

Final Flow -
 No return blow

Final Shutin -
 No blow

SAMPLES:
 SENT TO:

Mud Drop N

Amt. of fill	0.00 ft
Btm. H. Temp.	106.00 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	Rod Steinbrink
Co. Rep.	J.O.Farmer IV
Contr.	Mallard
Rig #	#1
Unit #	
Pump T.	

Test Successful: Y

CALCULATED RECOVERY ANALYSIS - DRILL COLLARS

DST # 2

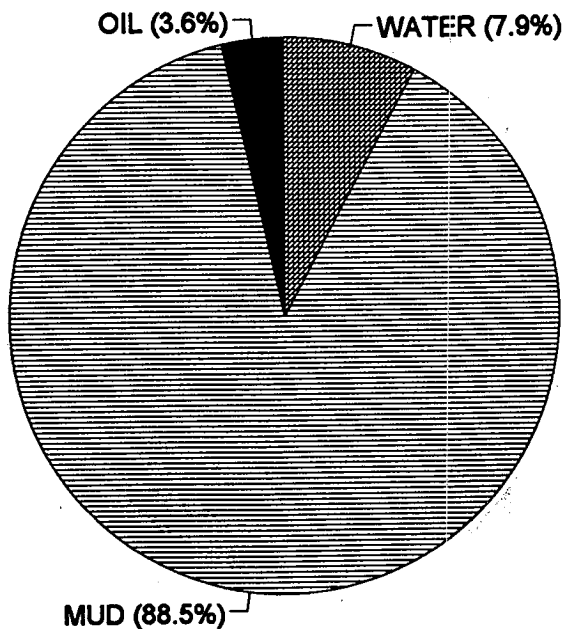
TICKET # 8827

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	1		0	100	1		0		0
2	60		0	2	1.2	8	4.8	90	54
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	61	0.00	0	3.61	2.2	7.87	4.8	88.52459	54

HRS OPE BBL/DAY

3L OIL= 0.010758
 3L WAT 0.023472
 3L MUD 0.26406
 3L GAS 0

* 1.50 0.172128
 * 0.375552



TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : J. O. Farmer Inc

DATE 12/19/95

WELL NAME: NAU #1

KB 3049.00 ft

TICKET NO: 8826

DST #1

LOCATION : 6-13S-33W, Logan Cty KS

GR 3044.00 ft

FORMATION: Lansing "D"

INTERVAL : 4016.00 To 4040.00 ft

TD 4040.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13309	13309	2346			PF Fr. 1240 to 1310 hr
SI 30	Range(Psi)	4700.0	4700.0	4995.0	0.0	0.0	IS Fr. 1310 to 1340 hr
SF 30	Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 1340 to 1410 hr
FS 30	Depth(ft)	4035.0	4035.0	4018.0	0.0	0.0	FS Fr. 1410 to 1440 hr

	Field	1	2	3	4	
A. Init Hydro	2253.0	2251.0	0.0	0.0	0.0	T STARTED 1107 hr
B. First Flow	23.0	50.0	0.0	0.0	0.0	T ON BOTM 1237 hr
Bl. Final Flow	23.0	42.0	0.0	0.0	0.0	T OPEN 1240 hr
C. In Shut-in	877.0	885.0	0.0	0.0	0.0	T PULLED 1440 hr
D. Init Flow	35.0	55.0	0.0	0.0	0.0	T OUT 1615 hr
E. Final Flow	35.0	50.0	0.0	0.0	0.0	
F. Fl Shut-in	830.0	849.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2230.0	2239.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 10.00 ft of 10.00 ft in DC and 0.00 ft in DP
 4.00 ft of Free oil - 100% oil
 6.00 ft of Oil cut mud - 5% oil, 95% mud

Initial Str Wt	0.00 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	250.00 ft
D.P. Length	3760.00 ft

SALINITY 0.00 P.P.M. A.P.I. Gravity 38.00

BLOW DESCRIPTION

Initial Flow -
 Weak surface blow, steady throughout

Final Flow -
 No return blow

MUD DATA-----	
Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	47.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 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	Rod Steinbrink
Co. Rep.	J O Farmer IV
Contr.	Mallard
Rig #	1
Unit #	
Pump T.	

SAMPLES:
 SENT TO:

Test Successful: Y

CALCULATED RECOVERY ANALYSIS - DRILL COLLARS

DST # 1

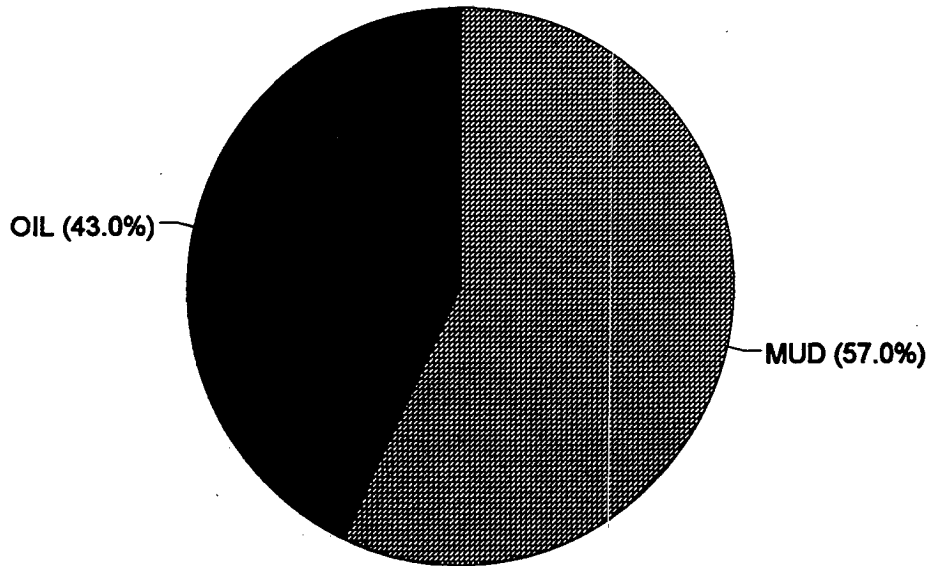
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TICKET # 8826

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	4		0	100	4		0		0
2	6		0	5	0.3		0	95	5.7
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	10	0.00	0	43.00	4.3	0.00	0	57	5.7

HRS OPE BBL/DAY

3BL OIL= 0.021027 * 1.00 0.504648
 3BL WAT 0 * 0
 3BL MUD 0.027873
 3BL GAS 0



TEST HISTORY

8827 DST #2 NAU #1 J.O. Farmer Inc.

Flag Points
t (Min.) P (PSIg)

A:	0.00	1977.50
B:	0.00	21.56
C:	45.00	33.31
D:	46.00	1140.07
E:	0.00	35.41
F:	44.00	48.42
G:	44.00	1872.00
Q:	0.00	1930.83

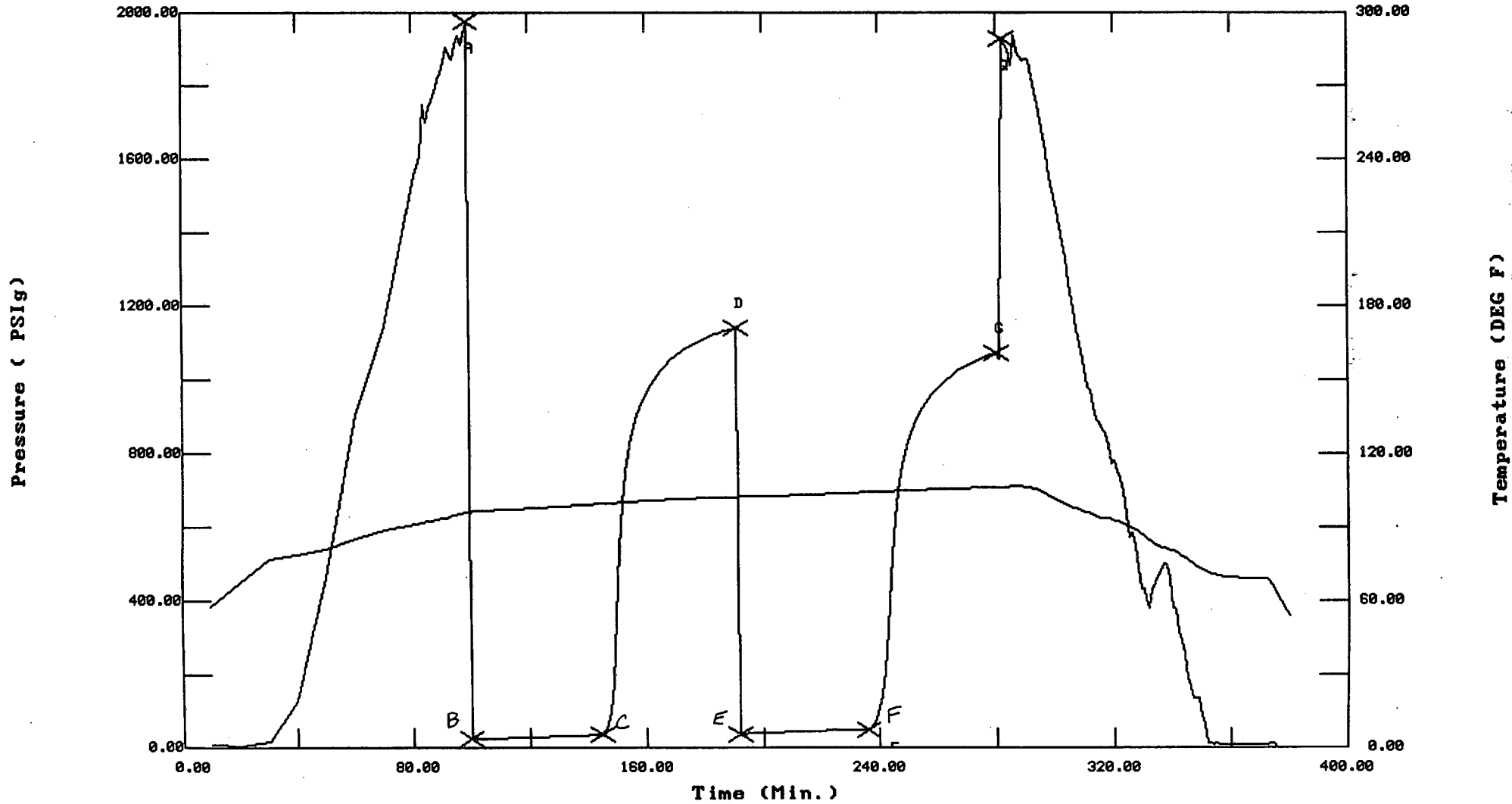
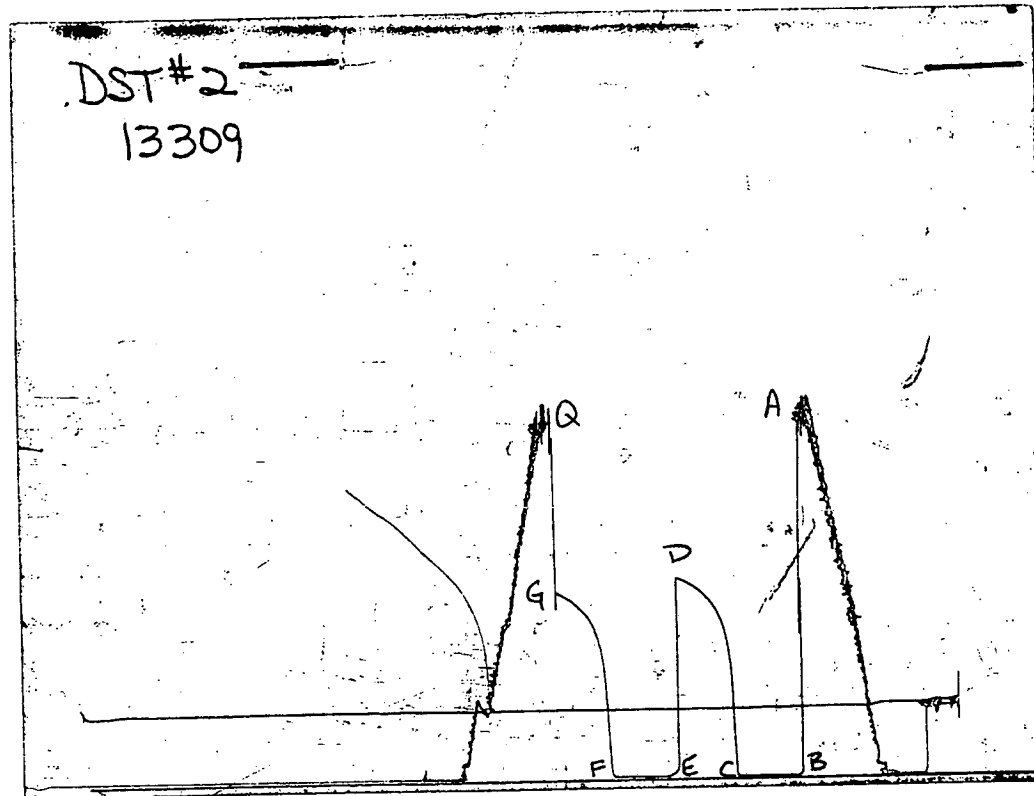


CHART PAGE



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15:109-20606-0000

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8827 DST #2 NAU #1 J.O.Farmer Inc.

DATE: 12/20/95

TIME: 01:06:11

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	99.00	1977.5	0.0	95.98		
***** Start Flow 1	0.00	21.6	0.0	96.19		
	1.00	20.5	-1.1	96.34		
	2.00	20.8	-0.8	96.43		
	3.00	20.8	-0.8	96.50		
	4.00	20.9	-0.7	96.57		
	5.00	21.1	-0.5	96.60		
	6.00	21.6	0.1	96.66		
	7.00	21.8	0.3	96.69		
	8.00	22.1	0.5	96.74		
	9.00	22.7	1.1	96.81		
	10.00	23.1	1.5	96.86		
	11.00	23.7	2.1	96.92		
	12.00	24.2	2.6	96.97		
	13.00	24.8	3.2	97.04		
	14.00	25.0	3.4	97.11		
	15.00	25.2	3.6	97.17		
	16.00	25.4	3.9	97.23		
	17.00	25.6	4.0	97.31		
	18.00	25.5	3.9	97.38		
	19.00	25.8	4.2	97.45		
	20.00	25.8	4.3	97.52		
	21.00	26.2	4.6	97.63		
	22.00	26.6	5.0	97.67		
	23.00	26.9	5.4	97.73		
	24.00	27.5	6.0	97.83		
	25.00	27.8	6.2	97.89		
	26.00	28.2	6.6	97.96		
	27.00	28.7	7.1	98.04		
	28.00	29.0	7.5	98.12		
	29.00	29.9	8.3	98.19		
	30.00	30.3	8.7	98.28		
	31.00	30.3	8.7	98.36		
	32.00	30.5	8.9	98.43		
	33.00	30.9	9.3	98.50		
	34.00	31.5	9.9	98.58		
	35.00	31.7	10.2	98.65		
	36.00	31.7	10.2	98.74		
	37.00	32.0	10.4	98.82		
	38.00	32.2	10.7	98.88		
	39.00	32.3	10.7	98.95		
	40.00	32.3	10.7	99.01		
	41.00	32.6	11.0	99.09		
	42.00	32.7	11.2	99.19		
	43.00	33.0	11.4	99.26		
	44.00	33.3	11.7	99.33		
***** End Flow 1	45.00	33.3	11.7	99.42		
***** Start Shutin 1	0.00	33.3	0.0	99.42	0.0000	0.001
	1.00	44.8	11.5	99.48	46.0000	0.002
	2.00	62.8	29.5	99.56	23.5000	0.004
	3.00	97.7	64.4	99.65	16.0000	0.01

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8827 DST #2 NAU #1 J.O.Farmer Inc.

DATE: 12/20/95

TIME: 01:06:11

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
4.00	178.3	144.9	99.68	12.2500	0.032
5.00	350.7	317.4	99.77	10.0000	0.123
6.00	540.2	506.8	99.85	8.5000	0.292
7.00	665.4	632.1	99.94	7.4286	0.443
8.00	745.6	712.3	100.01	6.6250	0.556
9.00	801.3	768.0	100.11	6.0000	0.642
10.00	843.0	809.7	100.20	5.5000	0.711
11.00	875.8	842.5	100.30	5.0909	0.767
12.00	902.6	869.2	100.37	4.7500	0.815
13.00	925.1	891.8	100.45	4.4615	0.856
14.00	944.5	911.2	100.54	4.2143	0.892
15.00	961.4	928.1	100.62	4.0000	0.924
16.00	976.2	942.9	100.70	3.8125	0.953
17.00	989.6	956.3	100.77	3.6471	0.979
18.00	1001.6	968.3	100.80	3.5000	1.003
19.00	1012.2	978.9	100.81	3.3684	1.025
20.00	1022.2	988.9	100.86	3.2500	1.045
21.00	1031.3	998.0	100.93	3.1429	1.064
22.00	1039.6	1006.3	101.00	3.0455	1.081
23.00	1047.2	1013.9	101.06	2.9565	1.097
24.00	1054.5	1021.1	101.13	2.8750	1.112
25.00	1061.1	1027.8	101.19	2.8000	1.126
26.00	1067.4	1034.1	101.24	2.7308	1.139
27.00	1073.2	1039.9	101.30	2.6667	1.152
28.00	1078.5	1045.2	101.35	2.6071	1.163
29.00	1083.6	1050.3	101.39	2.5517	1.174
30.00	1088.5	1055.1	101.45	2.5000	1.185
31.00	1093.1	1059.8	101.50	2.4516	1.195
32.00	1097.3	1064.0	101.55	2.4062	1.204
33.00	1101.4	1068.1	101.60	2.3636	1.213
34.00	1105.3	1072.0	101.65	2.3235	1.222
35.00	1108.9	1075.6	101.70	2.2857	1.230
36.00	1112.4	1079.1	101.77	2.2500	1.237
37.00	1115.8	1082.5	101.81	2.2162	1.245
38.00	1119.0	1085.7	101.82	2.1842	1.252
39.00	1122.0	1088.7	101.87	2.1538	1.259
40.00	1125.0	1091.6	101.91	2.1250	1.266
41.00	1127.7	1094.4	101.96	2.0976	1.272
42.00	1130.3	1097.0	102.00	2.0714	1.278
43.00	1132.9	1099.6	102.05	2.0465	1.284
44.00	1135.5	1102.1	102.09	2.0227	1.289
45.00	1137.8	1104.5	102.14	2.0000	1.295
46.00	1140.1	1106.8	102.18	1.9783	1.300
***** End Shut-in 1					
***** Start Flow 2					
0.00	35.4	0.0	102.22		
1.00	36.2	0.8	102.24		
2.00	36.2	0.8	102.26		
3.00	36.6	1.2	102.27		
4.00	37.0	1.6	102.29		
5.00	37.3	1.9	102.31		
6.00	37.7	2.3	102.34		
7.00	38.0	2.6	102.36		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8827 DST #2 NAU #1 J.O.Farmer Inc.

DATE: 12/20/95

TIME: 01:06:11

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	8.00	38.3	2.9	102.40		
	9.00	38.7	3.3	102.44		
	10.00	39.0	3.6	102.48		
	11.00	39.3	3.9	102.52		
	12.00	39.5	4.1	102.57		
	13.00	39.9	4.4	102.60		
	14.00	40.1	4.7	102.65		
	15.00	40.4	5.0	102.69		
	16.00	40.6	5.2	102.75		
	17.00	40.9	5.5	102.78		
	18.00	41.2	5.8	102.84		
	19.00	41.5	6.0	102.89		
	20.00	41.7	6.3	102.94		
	21.00	42.0	6.6	102.99		
	22.00	42.2	6.8	103.04		
	23.00	42.5	7.1	103.11		
	24.00	42.8	7.4	103.15		
	25.00	43.0	7.6	103.16		
	26.00	43.3	7.9	103.23		
	27.00	43.6	8.2	103.27		
	28.00	43.9	8.5	103.32		
	29.00	44.1	8.7	103.37		
	30.00	44.6	9.1	103.42		
	31.00	44.9	9.5	103.47		
	32.00	45.1	9.7	103.51		
	33.00	45.3	9.9	103.57		
	34.00	45.4	10	103.62		
	35.00	45.7	10.3	103.67		
	36.00	46.0	10.6	103.72		
	37.00	46.4	11.0	103.76		
	38.00	46.6	11.2	103.81		
	39.00	46.9	11.5	103.86		
	40.00	47.2	11.8	103.92		
	41.00	47.5	12.1	103.97		
	42.00	47.7	12.3	104.01		
	43.00	48.2	12.8	104.07		
***** End Flow 2	44.00	48.4	13.0	104.11		
***** Start Shutin 2	0.00	48.4	0.0	104.11	0.0000	0.002
	1.00	51.9	3.4	104.17	90.0000	0.003
	2.00	63.5	15.1	104.21	45.5000	0.004
	3.00	80.0	31.6	104.26	30.6667	0.006
	4.00	104.6	56.1	104.31	23.2500	0.011
	5.00	143.7	95.3	104.35	18.8000	0.021
	6.00	211.8	163.4	104.39	15.8333	0.045
	7.00	323.0	274.6	104.44	13.7143	0.104
	8.00	459.5	411.1	104.50	12.1250	0.211
	9.00	577.2	528.7	104.57	10.8889	0.333
	10.00	662.6	614.2	104.63	9.9000	0.439
	11.00	723.9	675.5	104.69	9.0909	0.524
	12.00	769.5	721.1	104.76	8.4167	0.592
	13.00	804.9	756.5	104.82	7.8462	0.648

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8827 DST #2 NAU #1 J.O.Farmer Inc.

DATE: 12/20/95

TIME: 01:06:11

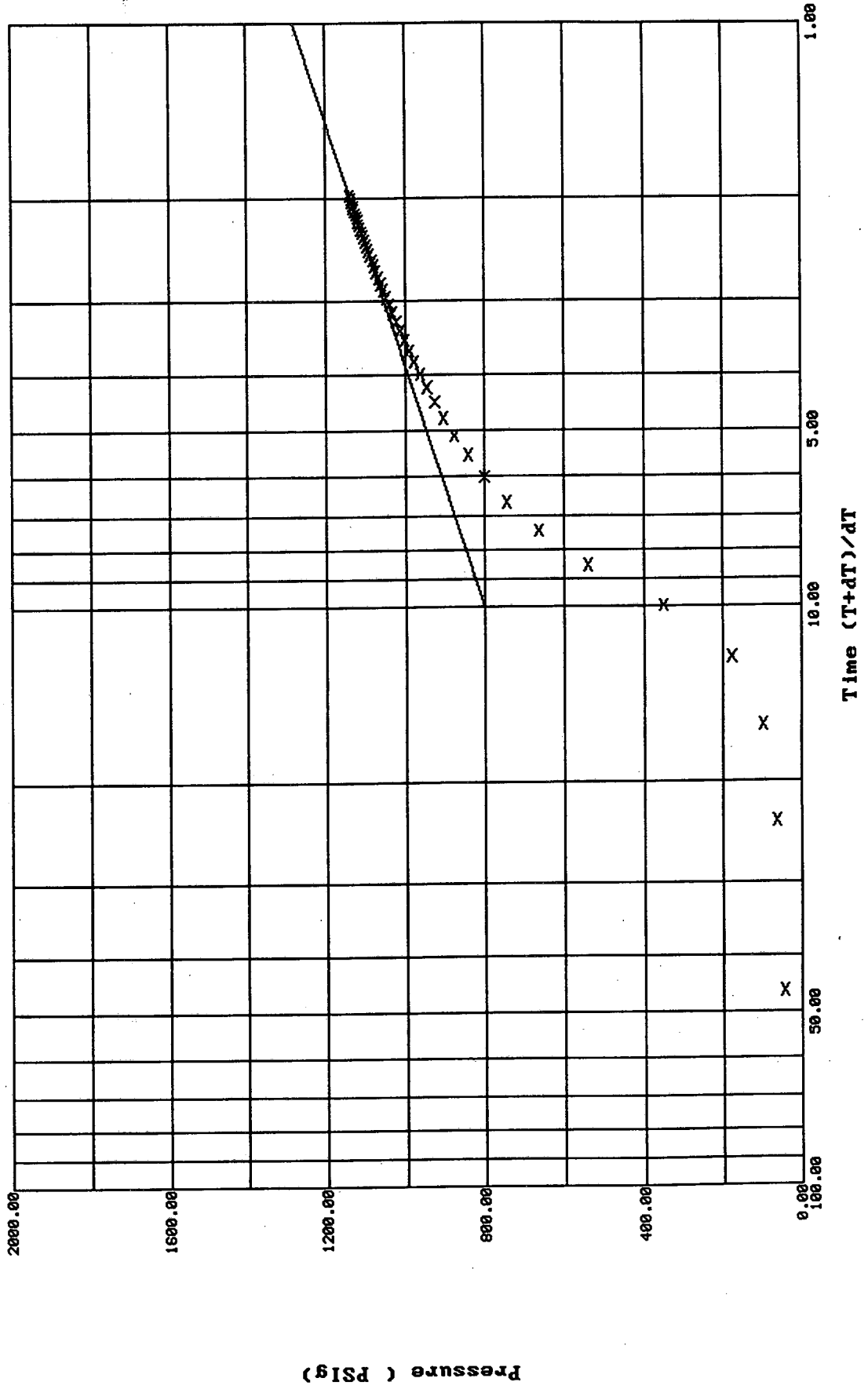
Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
14.00	833.3	784.9	104.89	7.3571	0.694
15.00	856.9	808.5	104.97	6.9333	0.734
16.00	877.4	829.0	105.04	6.5625	0.770
17.00	895.2	846.7	105.06	6.2353	0.801
18.00	910.6	862.2	105.06	5.9444	0.829
19.00	924.4	876.0	105.06	5.6842	0.854
20.00	937.0	888.5	105.13	5.4500	0.878
21.00	948.2	899.8	105.21	5.2381	0.899
22.00	958.3	909.9	105.20	5.0455	0.918
23.00	967.8	919.3	105.28	4.8696	0.937
24.00	976.4	928.0	105.34	4.7083	0.953
25.00	984.3	935.9	105.40	4.5600	0.969
26.00	991.6	943.2	105.42	4.4231	0.983
27.00	998.4	950.0	105.48	4.2963	0.997
28.00	1004.9	956.4	105.51	4.1786	1.010
29.00	1010.9	962.5	105.57	4.0690	1.022
30.00	1016.5	968.1	105.59	3.9667	1.033
31.00	1021.9	973.5	105.65	3.8710	1.044
32.00	1026.9	978.5	105.68	3.7812	1.055
33.00	1031.8	983.4	105.72	3.6970	1.065
34.00	1036.3	987.9	105.77	3.6176	1.074
35.00	1040.7	992.3	105.79	3.5429	1.083
36.00	1044.8	996.4	105.83	3.4722	1.092
37.00	1048.8	1000.3	105.85	3.4054	1.100
38.00	1052.5	1004.1	105.89	3.3421	1.108
39.00	1056.1	1007.7	105.94	3.2821	1.115
40.00	1059.6	1011.2	105.95	3.2250	1.123
41.00	1062.9	1014.4	106.00	3.1707	1.130
42.00	1066.0	1017.6	106.02	3.1190	1.136
43.00	1069.1	1020.7	106.08	3.0698	1.143
44.00	1072.0	1023.6	106.10	3.0227	1.149
***** End Shut-in 2					
***** Final Hydro.	282.00	1930.8	0.0	106.19	

Horner Plot: shut-in #1

8827 DST #2 NAU #1 J.O.Farmer Inc.

Slope: 479.9187 PSig/cycle

Ext. Pressure: 1282.2687 PSig



Horner Plot: shut-in #2

8827 DST #2 NAU #1 J.O. Farmer Inc.

Slope: 437.6327 PSig/cycle

Ext. Pressure: 1282.2678 PSig

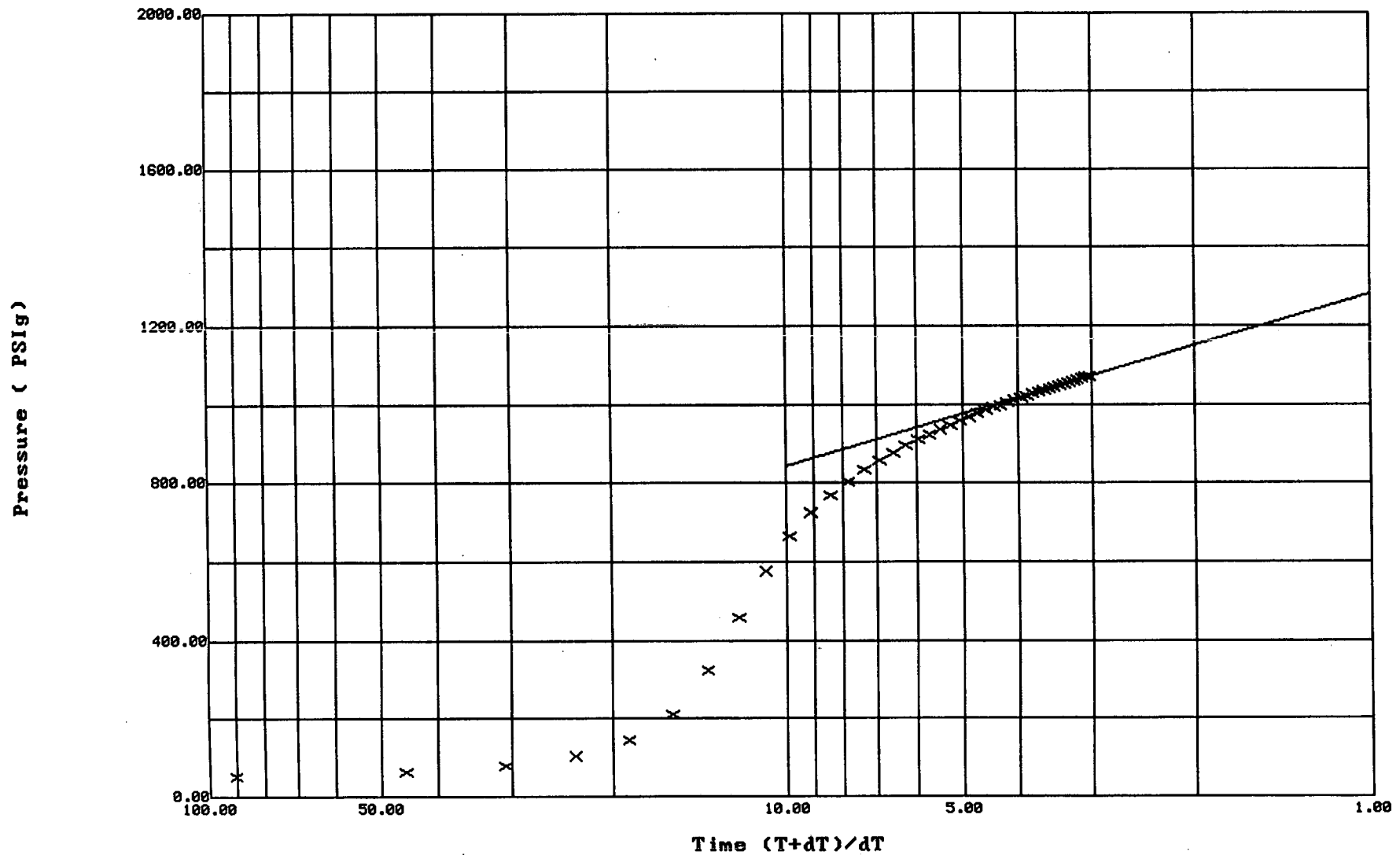
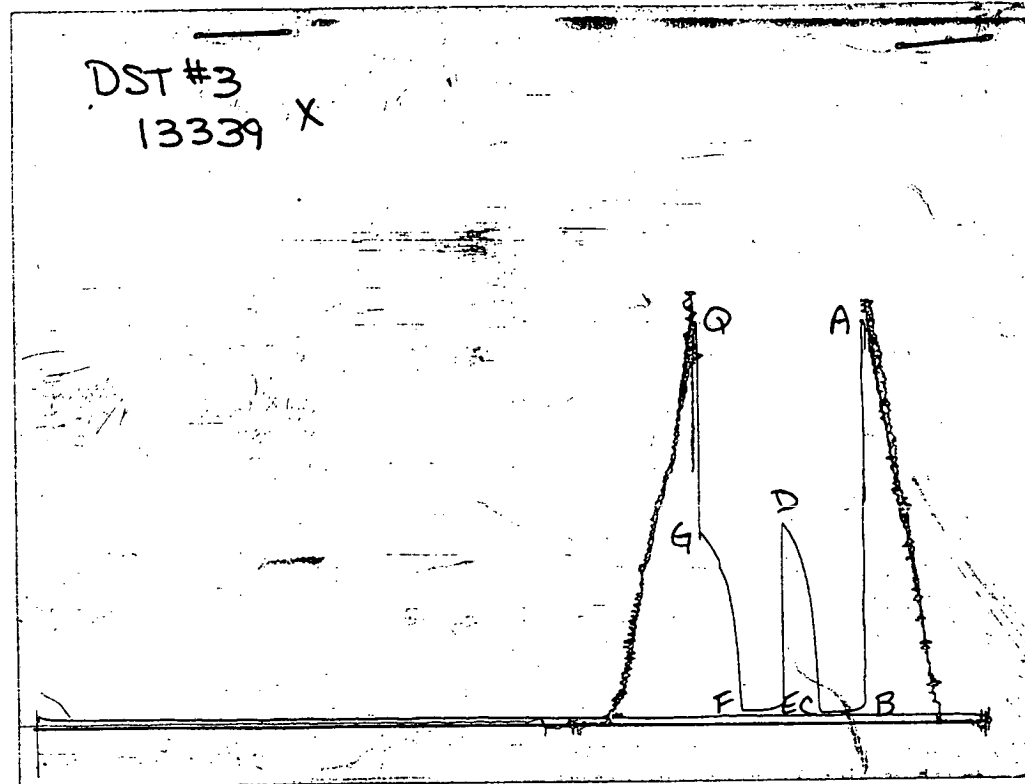
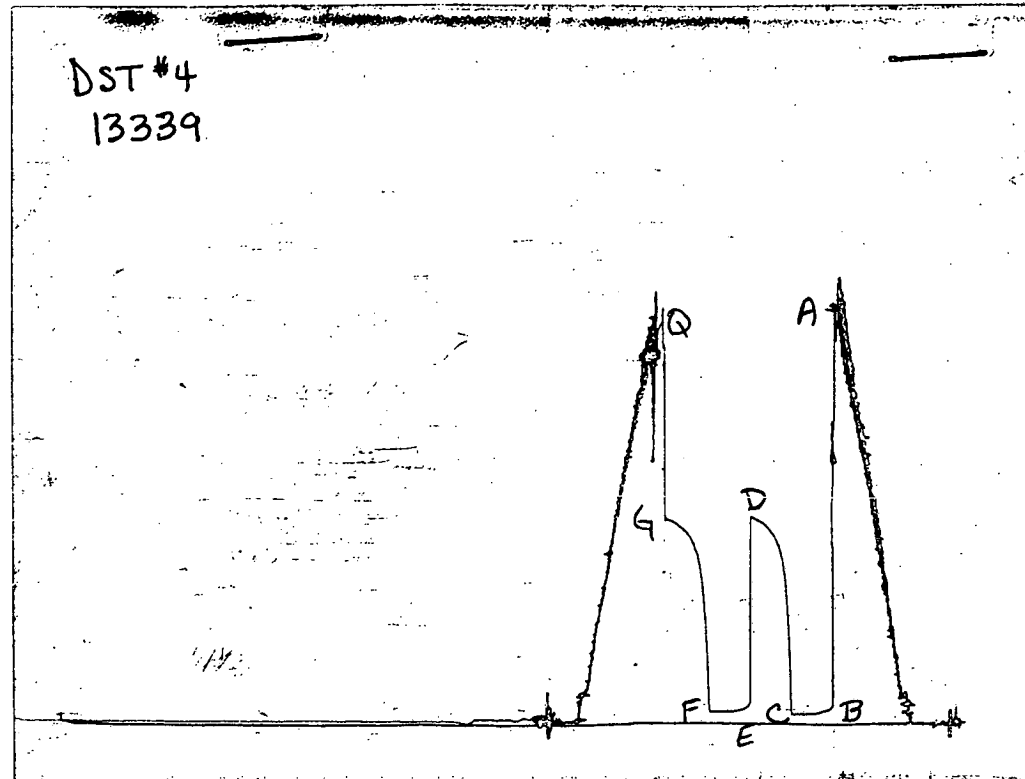


CHART PAGE



This is an actual photograph of recorder chart

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : J.O.Farmer Inc.

DATE 12-23-95

WELL NAME: NAU #1

KB 3049.00 ft

TICKET NO: 8830

DST #5

LOCATION : 6-13S-33W, Logan Cty KS

GR 3044.00 ft

FORMATION: Johnson Zn

INTERVAL : 4516.00 To 4562.00 ft

TD 4562.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13339	13339	2346			PF Fr. 0130 to 0200 hr
SI 60	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0200 to 0300 hr
SF 60	Clock(hrs)	AK-1	AK-1	Alp			SF Fr. 0300 to 0400 hr
FS 90	Depth(ft)	4526.0	4526.0	4517.0	0.0	0.0	FS Fr. 0400 to 0530 hr

	Field	1	2	3	4	
A. Init Hydro	2303.0	2302.0	2288.0	0.0	0.0	T STARTED 2336 hr
B. First Flow	62.0	62.0	21.0	0.0	0.0	T ON BOTM 0058 hr
B1. Final Flow	62.0	62.0	30.0	0.0	0.0	T OPEN 0130 hr
C. In Shut-in	155.0	156.0	146.0	0.0	0.0	T PULLED 0545 hr
D. Init Flow	72.0	69.0	28.0	0.0	0.0	T OUT 0745 hr
E. Final Flow	72.0	69.0	37.0	0.0	0.0	
F. Fl Shut-in	155.0	156.0	145.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2283.0	2287.0	2262.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 62000.00 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 3.80 in
						D.C. Length 250.00 ft
						D.P. Length 4266.00 ft

RECOVERY

Tot Fluid 60.00 ft of 60.00 ft in DC and 0.00 ft in DP
 60.00 ft of Drilling mud w/faint odor of gas

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

BLOW DESCRIPTION

Initial Flow - Weak blow, died in 9 min

Rotated Tool 5 times -
 Surface blow slowly built to 10"

Rotated 5 -
 Bled off blow, no return

Rotated 4 -
 Tool torqued up, rotated to left,
 surface blow built to bottom in 17 min

Rotated 5 -
 Bled off blow, no return

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/
Vis.	54.00 S/L
W.L.	12.00 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	Rod Steinbrink
Co. Rep.	J.O.Farmer IV
Contr.	Mallard
Rig #	#1
Unit #	
Pump T.	

Test Successful: Y

TEST HISTORY

8830 DST #5 NAU #1 J.O. Farmer Inc.

Flag Points

	t(Min.)	P(PSig)
A:	0.00	2287.81
B:	0.00	21.23
C:	31.00	29.95
D:	87.00	145.77
E:	0.00	28.19
F:	81.00	37.34
G:	91.00	144.85
Q:	0.00	2262.10

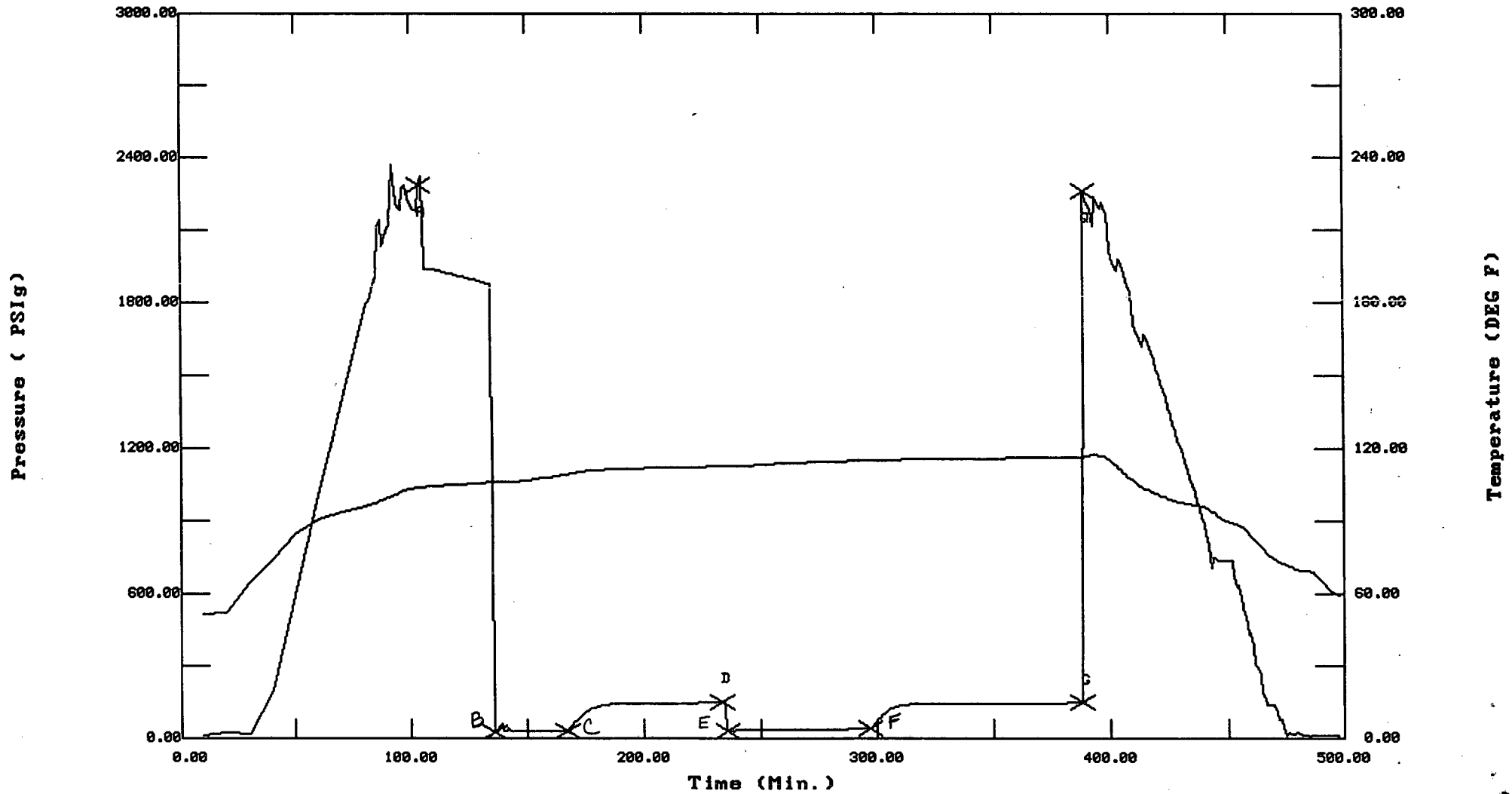
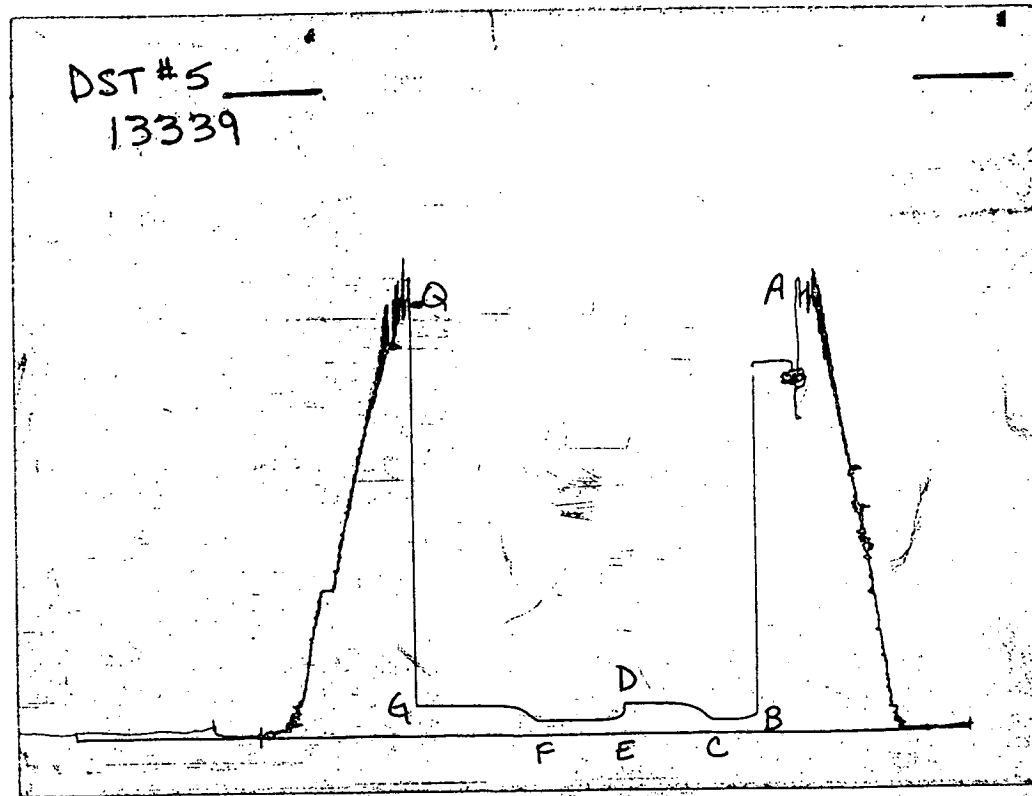


CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8830 DST #5 NAU #1 J.O.Farmer Inc.

DATE: 12/22/95

TIME: 23:16:52

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	104.00	2287.6	0.0	103.72		
***** Start Flow 1	0.00	21.2	0.0	105.99		
	1.00	23.9	2.7	106.00		
	2.00	44.1	22.8	105.98		
	3.00	56.9	35.7	105.98		
	4.00	27.9	6.6	105.96		
	5.00	28.9	7.6	105.98		
	6.00	39.0	17.8	106.00		
	7.00	26.8	5.6	106.04		
	8.00	29.0	7.8	106.09		
	9.00	25.3	4.1	106.16		
	10.00	26.3	5.0	106.26		
	11.00	27.0	5.8	106.35		
	12.00	26.7	5.5	106.46		
	13.00	26.8	5.5	106.58		
	14.00	26.8	5.6	106.70		
	15.00	27.2	6.0	106.84		
	16.00	27.4	6.2	106.98		
	17.00	27.6	6.4	107.12		
	18.00	27.7	6.5	107.27		
	19.00	28.1	6.9	107.43		
	20.00	27.9	6.6	107.61		
	21.00	28.2	7.0	107.82		
	22.00	28.5	7.3	107.90		
	23.00	28.7	7.5	107.90		
	24.00	28.7	7.5	108.00		
	25.00	28.9	7.6	108.18		
	26.00	29.0	7.8	108.36		
	27.00	29.2	8.0	108.53		
	28.00	29.2	8.0	108.67		
	29.00	29.4	8.1	108.84		
	30.00	29.4	8.1	109.00		
***** End Flow 1	31.00	30.0	8.7	109.19		
***** Start Shutin 1	0.00	30.0	0.0	109.19	0.0000	0.001
	1.00	37.4	7.5	109.40	32.0000	0.001
	2.00	50.3	20.3	109.59	16.5000	0.003
	3.00	61.9	32.0	109.79	11.3333	0.004
	4.00	72.3	42.3	109.94	8.7500	0.005
	5.00	81.8	51.9	110.11	7.2000	0.007
	6.00	90.1	60.2	110.28	6.1667	0.008
	7.00	98.0	68.1	110.40	5.4286	0.01
	8.00	104.7	74.8	110.53	4.8750	0.011
	9.00	110.8	80.8	110.63	4.4444	0.012
	10.00	116.1	86.2	110.74	4.1000	0.013
	11.00	121.0	91.1	110.83	3.8182	0.015
	12.00	125.1	95.2	110.92	3.5833	0.016
	13.00	128.7	98.7	110.99	3.3846	0.017
	14.00	131.4	101.5	111.03	3.2143	0.017
	15.00	133.8	103.8	111.13	3.0667	0.018
	16.00	135.6	105.7	111.18	2.9375	0.018
	17.00	137.2	107.3	111.26	2.8235	0.019

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8830 DST #5 NAU #1 J.O.Farmer Inc.

DATE: 12/22/95

TIME: 23:16:52

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
18.00	138.4	108.4	111.30	2.7222	0.019
19.00	139.6	109.6	111.35	2.6316	0.019
20.00	140.4	110.4	111.40	2.5500	0.020
21.00	141.2	111.2	111.43	2.4762	0.020
22.00	141.7	111.7	111.46	2.4091	0.020
23.00	142.2	112.2	111.49	2.3478	0.020
24.00	142.4	112.5	111.52	2.2917	0.020
25.00	142.8	112.8	111.55	2.2400	0.020
26.00	143.0	113.1	111.61	2.1923	0.020
27.00	143.2	113.2	111.62	2.1481	0.020
28.00	143.3	113.4	111.68	2.1071	0.021
29.00	143.6	113.6	111.70	2.0690	0.021
30.00	143.6	113.6	111.71	2.0333	0.021
31.00	143.6	113.7	111.74	2.0000	0.021
32.00	143.7	113.8	111.74	1.9688	0.021
33.00	143.7	113.8	111.78	1.9394	0.021
34.00	143.7	113.8	111.83	1.9118	0.021
35.00	143.8	113.9	111.83	1.8857	0.021
36.00	143.9	113.9	111.87	1.8611	0.021
37.00	143.9	113.9	111.89	1.8378	0.021
38.00	144.0	114.0	111.91	1.8158	0.021
39.00	144.0	114.0	111.92	1.7949	0.021
40.00	144.1	114.1	111.96	1.7750	0.021
41.00	144.1	114.1	111.98	1.7561	0.021
42.00	144.1	114.2	111.99	1.7381	0.021
43.00	144.2	114.2	112.02	1.7209	0.021
44.00	144.3	114.3	112.03	1.7045	0.021
45.00	144.4	114.4	112.07	1.6889	0.021
46.00	144.4	114.4	112.07	1.6739	0.021
47.00	144.4	114.4	112.10	1.6596	0.021
48.00	144.5	114.5	112.13	1.6458	0.021
49.00	144.5	114.5	112.14	1.6327	0.021
50.00	144.5	114.5	112.16	1.6200	0.021
51.00	144.5	114.5	112.17	1.6078	0.021
52.00	144.5	114.5	112.22	1.5962	0.021
53.00	144.5	114.6	112.25	1.5849	0.021
54.00	144.6	114.6	112.26	1.5741	0.021
55.00	144.7	114.8	112.30	1.5636	0.021
56.00	144.7	114.8	112.29	1.5536	0.021
57.00	144.8	114.9	112.33	1.5439	0.021
58.00	144.9	114.9	112.34	1.5345	0.021
59.00	144.9	114.9	112.38	1.5254	0.021
60.00	145.1	115.1	112.41	1.5167	0.021
61.00	145.1	115.1	112.42	1.5082	0.021
62.00	145.1	115.1	112.44	1.5000	0.021
63.00	145.1	115.1	112.47	1.4921	0.021
64.00	145.1	115.2	112.51	1.4844	0.021
65.00	145.1	115.2	112.53	1.4769	0.021
66.00	145.4	115.5	112.59	1.4697	0.021
67.00	145.8	115.8	112.59	1.4627	0.021

***** End Shut-in 1

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8830 DST #5 NAU #1 J.O.Farmer Inc.

DATE: 12/22/95

TIME: 23:16:52

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Start Flow 2	0.00	28.2	0.0	112.63		
	1.00	29.0	0.8	112.62		
	2.00	30.0	1.8	112.63		
	3.00	30.3	2.1	112.63		
	4.00	30.7	2.5	112.63		
	5.00	31.0	2.8	112.63		
	6.00	31.2	3.0	112.63		
	7.00	31.1	2.9	112.65		
	8.00	31.5	3.4	112.73		
	9.00	31.8	3.6	112.85		
	10.00	32.0	3.8	112.94		
	11.00	32.2	4.0	113.01		
	12.00	32.9	4.7	113.10		
	13.00	32.7	4.5	113.18		
	14.00	33.0	4.8	113.25		
	15.00	33.0	4.8	113.32		
	16.00	33.2	5.0	113.39		
	17.00	33.2	5.0	113.44		
	18.00	33.5	5.3	113.50		
	19.00	33.7	5.5	113.55		
	20.00	33.6	5.4	113.61		
	21.00	33.6	5.4	113.67		
	22.00	34.1	5.9	113.69		
	23.00	34.7	6.5	113.75		
	24.00	33.3	5.1	113.78		
	25.00	34.2	6.0	113.83		
	26.00	34.8	6.6	113.88		
	27.00	34.1	5.9	113.92		
	28.00	34.7	6.5	113.96		
	29.00	34.6	6.4	114.00		
	30.00	34.6	6.4	114.04		
	31.00	34.9	6.7	114.08		
	32.00	34.7	6.5	114.12		
	33.00	34.8	6.6	114.15		
	34.00	35.1	6.9	114.20		
	35.00	35.0	6.8	114.23		
	36.00	35.2	7.0	114.27		
	37.00	35.1	6.9	114.32		
	38.00	35.3	7.1	114.34		
	39.00	35.7	7.5	114.37		
	40.00	35.4	7.2	114.40		
	41.00	35.7	7.5	114.44		
	42.00	35.5	7.3	114.47		
	43.00	35.9	7.7	114.52		
	44.00	35.9	7.7	114.56		
	45.00	35.9	7.7	114.59		
	46.00	35.9	7.7	114.63		
	47.00	35.9	7.7	114.65		
	48.00	36.2	8.0	114.70		
	49.00	36.2	8.1	114.73		
	50.00	36.6	8.4	114.75		
	51.00	36.3	8.1	114.79		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8830 DST #5 NAU #1 J.O.Farmer Inc.

DATE: 12/22/95

TIME: 23:16:52

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	52.00	36.7	8.5	114.83		
	53.00	36.7	8.5	114.86		
	54.00	37.0	8.8	114.90		
	55.00	36.9	8.7	114.92		
	56.00	37.1	8.9	114.99		
	57.00	37.0	8.8	115.00		
	58.00	37.2	9.0	115.00		
	59.00	37.2	9.0	115.00		
	60.00	37.4	9.2	115.01		
***** End Flow 2	61.00	37.3	9.1	115.01		
***** Start Shutin 2	0.00	37.3	0.0	115.01	0.0000	0.001
	1.00	47.9	10.6	115.01	93.0000	0.002
	2.00	61.2	23.8	115.03	47.0000	0.004
	3.00	72.9	35.6	115.06	31.6667	0.005
	4.00	83.4	46.1	115.10	24.0000	0.007
	5.00	93.2	55.8	115.16	19.4000	0.009
	6.00	102.0	64.6	115.20	16.3333	0.010
	7.00	109.2	71.8	115.24	14.1429	0.012
	8.00	115.8	78.5	115.26	12.5000	0.013
	9.00	121.1	83.8	115.29	11.2222	0.015
	10.00	125.1	87.8	115.33	10.2000	0.016
	11.00	128.7	91.3	115.35	9.3636	0.017
	12.00	131.7	94.3	115.37	8.6667	0.017
	13.00	134.1	96.8	115.41	8.0769	0.018
	14.00	135.9	98.5	115.43	7.5714	0.018
	15.00	137.4	100.0	115.44	7.1333	0.019
	16.00	138.3	101.0	115.48	6.7500	0.019
	17.00	139.1	101.8	115.49	6.4118	0.019
	18.00	139.9	102.6	115.51	6.1111	0.020
	19.00	140.3	103.0	115.54	5.8421	0.020
	20.00	140.7	103.4	115.55	5.6000	0.020
	21.00	141.1	103.7	115.57	5.3810	0.020
	22.00	141.4	104.1	115.57	5.1818	0.020
	23.00	141.6	104.2	115.59	5.0000	0.020
	24.00	141.8	104.5	115.61	4.8333	0.020
	25.00	142.0	104.7	115.62	4.6800	0.020
	26.00	142.1	104.7	115.64	4.5385	0.020
	27.00	142.3	105.0	115.66	4.4074	0.020
	28.00	142.4	105.1	115.66	4.2857	0.020
	29.00	142.6	105.3	115.67	4.1724	0.020
	30.00	142.6	105.3	115.68	4.0667	0.020
	31.00	142.7	105.4	115.70	3.9677	0.020
	32.00	142.8	105.5	115.70	3.8750	0.020
	33.00	142.8	105.5	115.71	3.7879	0.020
	34.00	142.9	105.5	115.73	3.7059	0.020
	35.00	143.0	105.7	115.74	3.6286	0.020
	36.00	143.0	105.7	115.75	3.5556	0.020
	37.00	143.0	105.7	115.75	3.4865	0.020
	38.00	143.0	105.6	115.78	3.4211	0.020
	39.00	143.1	105.8	115.79	3.3590	0.020
	40.00	143.1	105.8	115.81	3.3000	0.020

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8830 DST #5 NAU #1 J.O.Farmer Inc.

DATE: 12/22/95

TIME: 23:16:52

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
41.00	143.1	105.8	115.82	3.2439	0.020
42.00	143.0	105.7	115.83	3.1905	0.020
43.00	143.3	106.0	115.84	3.1395	0.021
44.00	143.3	106.0	115.85	3.0909	0.021
45.00	143.4	106.0	115.87	3.0444	0.021
46.00	143.5	106.1	115.87	3.0000	0.021
47.00	143.5	106.1	115.90	2.9574	0.021
48.00	143.6	106.2	115.90	2.9167	0.021
49.00	143.6	106.2	115.91	2.8776	0.021
50.00	143.6	106.2	115.93	2.8400	0.021
51.00	143.6	106.3	115.93	2.8039	0.021
52.00	143.6	106.3	115.95	2.7692	0.021
53.00	143.7	106.4	115.96	2.7358	0.021
54.00	143.7	106.4	115.97	2.7037	0.021
55.00	143.8	106.5	115.97	2.6727	0.021
56.00	143.8	106.5	115.99	2.6429	0.021
57.00	143.9	106.5	116.00	2.6140	0.021
58.00	144.0	106.6	116.01	2.5862	0.021
59.00	144.0	106.6	116.03	2.5593	0.021
60.00	144.0	106.6	116.04	2.5333	0.021
61.00	143.9	106.5	116.06	2.5082	0.021
62.00	143.9	106.5	116.07	2.4839	0.021
63.00	144.1	106.8	116.07	2.4603	0.021
64.00	144.1	106.8	116.09	2.4375	0.021
65.00	144.1	106.7	116.10	2.4154	0.021
66.00	144.2	106.9	116.11	2.3939	0.021
67.00	144.2	106.9	116.12	2.3731	0.021
68.00	144.2	106.9	116.13	2.3529	0.021
69.00	144.3	107.0	116.15	2.3333	0.021
70.00	144.4	107.1	116.16	2.3143	0.021
71.00	144.4	107.1	116.18	2.2958	0.021
72.00	144.4	107.1	116.20	2.2778	0.021
73.00	144.3	107.0	116.21	2.2603	0.021
74.00	144.3	107.0	116.22	2.2432	0.021
75.00	144.5	107.1	116.23	2.2267	0.021
76.00	144.5	107.1	116.24	2.2105	0.021
77.00	144.5	107.1	116.27	2.1948	0.021
78.00	144.6	107.2	116.27	2.1795	0.021
79.00	144.6	107.3	116.29	2.1646	0.021
80.00	144.6	107.3	116.30	2.1500	0.021
81.00	144.6	107.3	116.32	2.1358	0.021
82.00	144.7	107.4	116.33	2.1220	0.021
83.00	144.7	107.4	116.33	2.1084	0.021
84.00	144.7	107.4	116.34	2.0952	0.021
85.00	144.8	107.5	116.36	2.0824	0.021
86.00	144.8	107.5	116.36	2.0698	0.021
87.00	144.9	107.6	116.37	2.0575	0.021
88.00	144.9	107.6	116.40	2.0455	0.021
89.00	144.9	107.6	116.41	2.0337	0.021
90.00	144.9	107.6	116.42	2.0222	0.021
91.00	144.9	107.5	116.42	2.0110	0.021

***** End Shut-in 2

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8830 DST #5 NAU #1 J.O.Farmer Inc.

DATE: 12/22/95

TIME: 23:16:52

	Time	Pressure	delta P	Temp.	(T+dT)/dT	P ² /10 ⁶
		PSig	PSig	DEG F		
***** Final Hydro.	389.00	2262.1	0.0	116.54		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: NAU #1

LOCATION : 6-13S-33W, Logan Cty KS

TICKET No. 8830 D.S.T. No. 5 DATE 12-23-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL 18

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 38

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 69

D.C. ABOVE TOOLS.Stands4 Single Total 250

D.P. ABOVE TOOLS.Stands68 Single Total 4266

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4585

TOTAL DEPTH 4562

TOTAL DRILL PIPE ABOVE K.B. 23

REMARKS:

P.O. SUB 1' 120' above DC.	4373
C.O. SUB 1'	4493
S.I. TOOL 5'	4499
HMV 5'	4504
JARS n/a	
SAFETY JOINT n/a	
PACKER Top	4508
PACKER Bottom	4513
DEPTH 4513	
STUBB 1'	4514
ANCHOR	
Alpine recorder	4517
5'	4519
5'	4524
AK-1 recorder	4526
3'	4527
T.C. DEPTH	
1' CO.	4528
31' DP.	4559
1' CO.	4560
BULLNOSE 2'	
T.D.	4562