

FORM MUST BE TYPED

SIDE ONE

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: N/A

Operator Contact Person: John O. Farmer IV
Phone (913) 483-3144

Contractor: Name: Abercrombie RTD, Inc.
License: 30684
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 RELEASED follows:

Operator: APR 6 1998
Well Name: _____
Comp. Date Old Total Depth
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
10-10-96 10-16-96
Spud Date Date Reached TD Completion Date

API NO: _____
County Logan
SE - NE - NE Sec. 6 Twp. 13S Rge. 33 E X W

990 Feet from (N) (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 # 2
Field Name Logansport NW
Producing Formation None

Elevation: Ground 3057' KB 3062'
Total Depth 4690' PBTB _____

Amount of Surface Pipe Set and Cemented at 249 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 JH 5-7-97
(Data must be collected from the Reserve Pit)

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

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

Operator Name KCC

Lease Name DEC 13 License No. _____

CONFIDENTIAL 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 1-13-97
Subscribed and sworn to before me this 13th day of January,
19 97.
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)

SIDE TWO

Operator Name John O. Farmer, Inc. Lease Name Nau Well # 2
 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 type="checkbox"/> Log Formation (Top), Depth and Datums. | <input checked="" type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Name | Top Datum |
| Cores Taken | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Base/Anhydrite | 2535' (+527) |
| Electric Log Run (Submit Copy.) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Heebner | 3939' (-877) |
| List All E.Logs Run: | PIPE STRAP CONFIRMED 2' ERROR IN TALLY. TOPS ARE 2' HIGHER THAN WHAT IS LISTED ON GEOLOGIST'S REPORT | Lansing | 3989' (-927) |
| | | Stark | 4240' (-1178) |
| | | Base/KC | 4324' (-1262) |
| | | Pawnee | 4441' (-1379) |
| | | Fort Scott | 4500' (-1438) |
| | | Cherokee | 4530' (-1468) |
| | | Johnson | 4576' (-1514) |
| | | Mississippi | 4666' (-1604) |
| | | L.T.D. | 4690' (-1628) |

| 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" | | 249' | 60/40 Pozmix | 170 | 3% C.C., 2% gel |

| ADDITIONAL CEMENTING/SQUEEZE RECORD | | | | |
|---|------------|----------------|-------------|----------------------------|
| Purpose: | Depth | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate | Top Bottom | | | |
| <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. D&A Producing Method Flowing Pumping Gas Lift Other (Explain)

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|------------|------------|-------------|---------------|---------|
| | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | | |

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 _____

ALLIED CEMENTING CO., INC. 6905

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

SERVICE POINT:

Oakley

COPY

| | | | | | | | |
|----------------------|----------------|----------------------------------|------------------|------------|----------------------------|--------------------------|----------------------------|
| DATE <u>10-16-96</u> | SEC. <u>6</u> | TWP. <u>13s</u> | RANGE <u>33w</u> | CALLED OUT | ON LOCATION <u>8:30 PM</u> | JOB START <u>9:30 PM</u> | JOB FINISH <u>10:00 PM</u> |
| LEASE <u>NAH</u> | WELL# <u>2</u> | LOCATION <u>115 Win monument</u> | | | COUNTY <u>Logan</u> | STATE <u>KS</u> | |

OLD OR NEW (Circle one)

CONTRACTOR Abercrombie RTD Inc OWNER same

TYPE OF JOB Surface CEMENT

HOLE SIZE 12 1/4 T.D. 253'

CASING SIZE 8 7/8 DEPTH 248'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

ORIGINAL

AMOUNT ORDERED 170 sk 60/40 30% 10
2 5/8 Gel

| | | | |
|----------|--------------------------|--------------------------|--------------------------|
| COMMON | <u>102 sks</u> | @ <u>7²⁰</u> | <u>734⁴⁰</u> |
| POZMIX | <u>68 sks</u> | @ <u>3¹⁵</u> | <u>214²⁰</u> |
| GEL | <u>3 sks</u> | @ <u>9⁵⁰</u> | <u>28⁵⁰</u> |
| CHLORIDE | <u>5 sks</u> | @ <u>28⁰⁰</u> | <u>140⁰⁰</u> |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| HANDLING | <u>170 sks</u> | @ <u>1⁰²</u> | <u>178⁵⁰</u> |
| MILEAGE | <u>4 1/2 per sk/mile</u> | | <u>129²⁰</u> |
| TOTAL | | | <u>1424⁸⁰</u> |

EQUIPMENT

PUMP TRUCK CEMENTER Walt

102 HELPER Dean

BULK TRUCK

212 DRIVER Jeff

BULK TRUCK

DRIVER

REMARKS:

RELEASED

Thanks!

Did Circ. APR 6 1998

FROM CONFIDENTIAL

SERVICE

| | | |
|--------------------------------|-------------------------|-------------------------|
| DEPTH OF JOB | | |
| PUMP TRUCK CHARGE | | <u>445⁰⁰</u> |
| EXTRA FOOTAGE | @ | |
| MILEAGE <u>19 miles</u> | @ <u>2⁸⁵</u> | <u>54¹⁵</u> |
| PLUG <u>8 7/8 Surface Plug</u> | @ | <u>45⁰⁰</u> |
| | @ | |
| | @ | |
| TOTAL | | <u>544¹⁵</u> |

CHARGE TO: John O Farmer Inc

STREET Box 352

CITY Russell STATE Kansas ZIP 67665

DEC 13

CONFIDENTIAL

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 Ward

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

RECEIVED COMM
 KANSAS CORP COMM
 1997 APR 14 P 1:04

ALLIED CEMENTING CO., INC. 6908

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

COPY

SERVICE POINT: Oakley

| | | | | | | | |
|----------------------|--------------|-----------------|-----------------------------------|------------|----------------------------|------------------|---------------------------|
| DATE <u>10-16-96</u> | SEC <u>6</u> | TWP. <u>13</u> | RANGE <u>33</u> | CALLED OUT | ON LOCATION <u>2:45 PM</u> | JOB START | JOB FINISH <u>6:00 PM</u> |
| LEASE <u>NAV</u> | | WELL # <u>2</u> | LOCATION <u>Monument 115-W.S.</u> | | COUNTY <u>Logan</u> | STATE <u>Kan</u> | |

OLD OR NEW (Circle one)

CONTRACTOR Abercrombie R.T.D #8 OWNER Same

TYPE OF JOB PTA CEMENT

HOLE SIZE 7 7/8 T.D. 4690'

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

ORIGINAL

AMOUNT ORDERED 190 SKS @ 6% per

6% Gel, 4# Flo-Seal

| | | | | |
|--------------------|------------------------|---|------------|---------------------------|
| COMMON | <u>114 SKS</u> | @ | <u>720</u> | <u>820⁰⁰</u> |
| POZMIX | <u>76 SKS</u> | @ | <u>315</u> | <u>239⁴⁰</u> |
| GEL | <u>10 SKS</u> | @ | <u>950</u> | <u>95⁰⁰</u> |
| CHLORIDE | | @ | | |
| <u>Flo-Seal 4#</u> | | @ | <u>115</u> | <u>55²⁰</u> |
| | | @ | | |
| | | @ | | |
| | | @ | | |
| | | @ | | |
| HANDLING | <u>190 SKS</u> | @ | <u>105</u> | <u>199³⁰</u> |
| MILEAGE | <u>4.7 per sk/mile</u> | | | <u>144⁴⁰</u> |
| TOTAL | | | | <u>1,554³⁰</u> |

EQUIPMENT

PUMP TRUCK CEMENTER Walt

102 HELPER Dean

BULK TRUCK

212 DRIVER Wayne

BULK TRUCK

DRIVER

REMARKS:

SERVICE

| | |
|------------------------|--|
| <u>25 SKS @ 2530'</u> | |
| <u>100 SKS @ 1416'</u> | |
| <u>40 SKS @ 300'</u> | |
| <u>10 SKS @ 40'</u> | |
| <u>15 SKS in R.H.</u> | |

Sub to

| | |
|-------------------------------|--------------------------|
| DEPTH OF JOB | <u>2530'</u> |
| PUMP TRUCK CHARGE | <u>550⁰⁰</u> |
| EXTRA FOOTAGE | @ |
| MILEAGE <u>19-miles</u> | @ <u>285</u> <u>5415</u> |
| PLUG <u>D.H. Plug</u> | @ <u>23⁰⁰</u> |
| | @ |
| | @ |
| TOTAL <u>627¹⁵</u> | |

CHARGE TO: John O. Farmer, Inc

STREET 370 W Wichita

CITY Russell STATE Kan ZIP 67665

KCC

DEC 13

CONFIDENTIAL

TOTAL _____

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

RELEASED

APR 6 1998

FROM CONFIDENTIAL

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 Orinay Mart

RECEIVED COMM
KANSAS CORP COMM
JAN 14 1998 11:04

ORIGINAL

15-109-20635

WELL NAME: Nav #2
COMPANY: J. O. Farmer, Inc.
LOCATION: Sec. 6 Twp. 13s Rge. 33w
Logan County Kansas
DATE: 10-15-96

KCC

DEC 13

CONFIDENTIAL

RELEASED
APR 6 1998
FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : J.O.Farmer, Inc.

DATE 10-15-96

WELL NAME: NAU #2

KB 3055.00 ft

TICKET NO: 9296

DST #1

LOCATION : 6-13s-33w Logan KS

GR 3050.00 ft

FORMATION: Johnson

INTERVAL : 4553.00 To 4610.00 ft

TD 4610.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

| Mins | Field | 1 | 2 | 3 | 4 | TIME DATA----- |
|--------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec. | 13339 | 13339 | 2341 | | | PF Fr. 2347 to 0017 hr |
| SI 30 Range (Psi) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 0017 to 0047 hr |
| SF 30 Clock (hrs) | 12hr | 12hr | elec. | | | SF Fr. 0047 to 0117 hr |
| FS 30 Depth(ft) | 4605.0 | 4605.0 | 4555.0 | 0.0 | 0.0 | FS Fr. 0117 to 0147 hr |

| | Field | 1 | 2 | 3 | 4 |
|----------------|--------|--------|--------|-----|-----|
| A. Init Hydro | 2373.0 | 2376.0 | 2330.0 | 0.0 | 0.0 |
| B. First Flow | 41.0 | 54.0 | 38.0 | 0.0 | 0.0 |
| B1. Final Flow | 41.0 | 44.0 | 41.0 | 0.0 | 0.0 |
| C. In Shut-in | 124.0 | 127.0 | 158.0 | 0.0 | 0.0 |
| D. Init Flow | 52.0 | 56.0 | 41.0 | 0.0 | 0.0 |
| E. Final Flow | 52.0 | 56.0 | 41.0 | 0.0 | 0.0 |
| F. Fl Shut-in | 93.0 | 71.0 | 82.0 | 0.0 | 0.0 |
| G. Final Hydro | 2333.0 | 2346.0 | 2322.0 | 0.0 | 0.0 |
| Inside/Outside | 0 | 0 | I | | |

T STARTED 2135 hr
 T ON BOTM 2345 hr
 T OPEN 2347 hr
 T PULLED 0147 hr
 T OUT 0400 hr

TOOL DATA-----

Tool Wt. 1800.00 lbs
 Wt Set On Packer 25000.00 lbs
 Wt Pulled Loose 50000.00 lbs
 Initial Str Wt 45000.00 lbs
 Unseated Str Wt 45000.00 lbs
 Bot Choke 0.75 in
 Hole Size 8.88 in
 D Col. ID 0.00 in
 D. Pipe ID 3.80 in
 D.C. Length 0.00 ft
 D.P. Length 3985.00 ft
 H.W. I.D 2.80 in
 H.W. Length 568.00 ft

RECOVERY

Tot Fluid 5.00 ft of 0.00 ft in DC and 5.00 ft in DP
 5.00 ft of Drilling Mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

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

MUD DATA-----

Mud Type Chemical
 Weight 9.40 lb/cf
 Vis. 49.00 S/L
 W.L. 9.80 in3
 F.C. 0.00 in
 Mud Drop N

BLOW DESCRIPTION

Initial Flow -
 Weak 1/4" blow - died in 20 mins.

Final Flow -
 No Return Blow

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 Rod Steinbrink
 Co. Rep. John Farmer
 Contr. Abercrombie
 Rig # 8
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: NAU #2
 LOCATION : 6-13s-33w Logan KS
 TICKET No. 9296 D.S.T. No. 1 DATE 10-15-96
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 20
 INTERVAL TOOL 26
 BOTTOM PACKERS AND ANCHOR
 TOTAL TOOL 46
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single Total
 D.P. ANCHOR STND.Stands Single 1 Total 31
 TOTAL ASSEMBLY 77
 D.C. ABOVE TOOLS.Stands Single Total
 D.P. ABOVE TOOLS.Stands 73 Single 1 Total 4553
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4630
 TOTAL DEPTH 4610
 TOTAL DRILL PIPE ABOVE K.B. 20
 REMARKS:

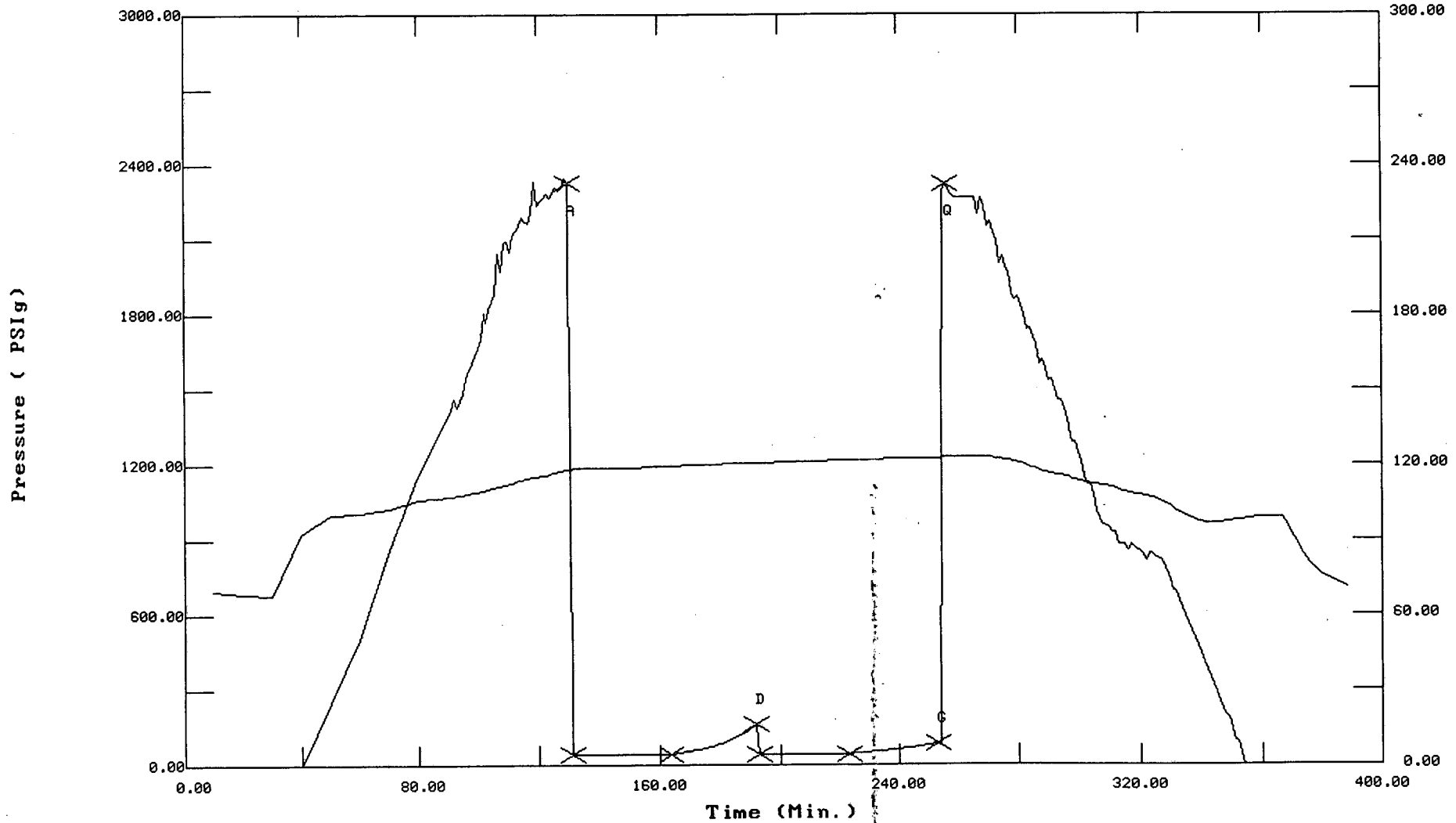
| | |
|---------------------------|------|
| P.O. SUB 1' Above 120' DP | 4413 |
| C.O. SUB 1' | 4533 |
| S.I. TOOL 5' | 4539 |
| HMV 5' | 4544 |
| JARS N/A | |
| SAFETY JOINT N/A | |
| PACKER 5' | 4549 |
| PACKER 4' | 4553 |
| DEPTH | |
| STUBB 1' | 4554 |
| ANCHOR | |
| Alp. Rec. @ | 4555 |
| 6' | 4560 |
| 31' DP | 4591 |
| T.C. DEPTH | |
| 14' Perf. | 4605 |
| BULLNOSE 5' w/AK-1 Rec. @ | 4605 |
| T.D. | 4610 |

TEST HISTORY

9296 DST #1 J.O.Farmer NAU #2

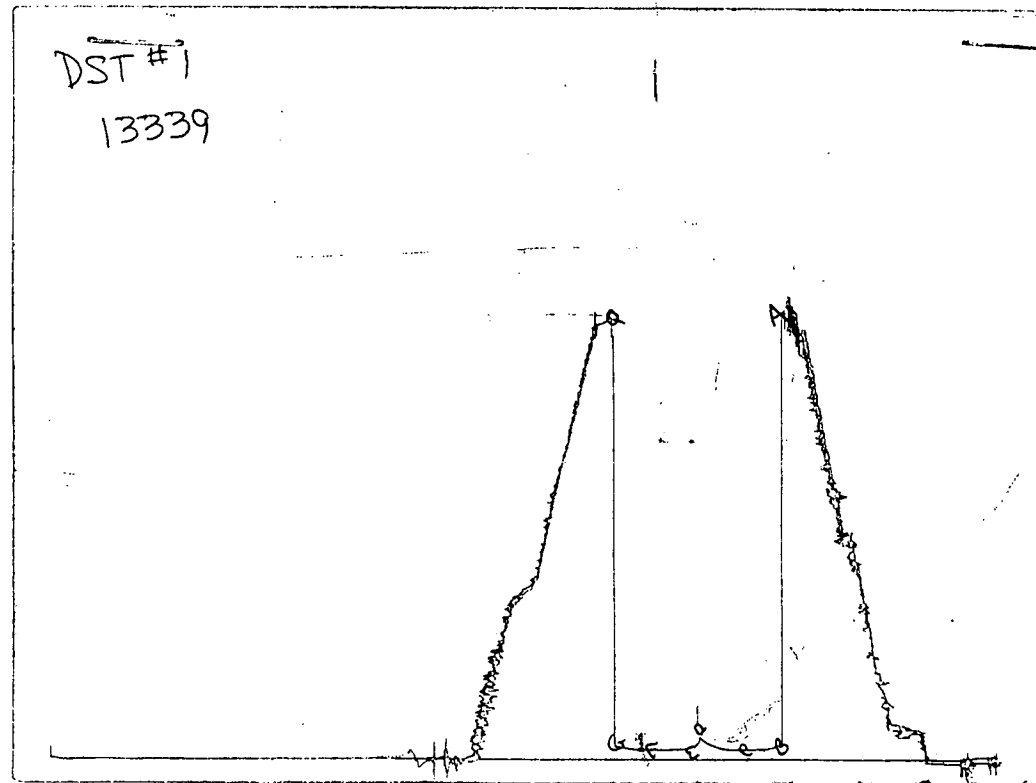
Flag Points

| | t(Min.) | P(PSIg) |
|----|---------|---------|
| A: | 0.00 | 2329.57 |
| B: | 0.00 | 37.58 |
| C: | 33.00 | 40.56 |
| D: | 28.00 | 157.82 |
| E: | 0.00 | 40.70 |
| F: | 30.00 | 41.34 |
| G: | 30.00 | 81.63 |
| Q: | 0.00 | 2322.29 |



15101020675-601-S1

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9296 DST #1 J.O.Farmer NAU #2
 DATE: 10/15/96 TIME: 21:35:22

| | Time | Pressure PSIG | delta P PSIG | Temp. DEG F | (T+dT)/dT | P ² /10 ⁶ |
|----------------------|--------|------------------|-----------------|----------------|-----------|---------------------------------|
| ***** Initial Hydro. | 130.00 | 2329.6 | 0.0 | 118.29 | | |
| ***** Start Flow 1 | 0.00 | 37.6 | 0.0 | 118.37 | | |
| | 1.00 | 38.3 | 0.7 | 118.49 | | |
| | 2.00 | 38.7 | 1.1 | 118.50 | | |
| | 3.00 | 39.2 | 1.6 | 118.50 | | |
| | 4.00 | 39.0 | 1.4 | 118.49 | | |
| | 5.00 | 39.2 | 1.6 | 118.49 | | |
| | 6.00 | 39.1 | 1.6 | 118.48 | | |
| | 7.00 | 39.3 | 1.7 | 118.47 | | |
| | 8.00 | 39.3 | 1.7 | 118.49 | | |
| | 9.00 | 39.4 | 1.8 | 118.50 | | |
| | 10.00 | 39.4 | 1.9 | 118.51 | | |
| | 11.00 | 39.4 | 1.8 | 118.54 | | |
| | 12.00 | 39.5 | 1.9 | 118.56 | | |
| | 13.00 | 39.6 | 2.0 | 118.59 | | |
| | 14.00 | 39.6 | 2.0 | 118.62 | | |
| | 15.00 | 39.8 | 2.2 | 118.67 | | |
| | 16.00 | 39.7 | 2.1 | 118.71 | | |
| | 17.00 | 39.8 | 2.2 | 118.74 | | |
| | 18.00 | 39.7 | 2.1 | 118.78 | | |
| | 19.00 | 39.8 | 2.2 | 118.82 | | |
| | 20.00 | 39.9 | 2.3 | 118.86 | | |
| | 21.00 | 39.9 | 2.3 | 118.91 | | |
| | 22.00 | 39.9 | 2.3 | 118.95 | | |
| | 23.00 | 40.0 | 2.4 | 119.00 | | |
| | 24.00 | 40.0 | 2.4 | 119.04 | | |
| | 25.00 | 40.1 | 2.5 | 119.09 | | |
| | 26.00 | 40.1 | 2.5 | 119.13 | | |
| | 27.00 | 40.1 | 2.5 | 119.17 | | |
| | 28.00 | 40.1 | 2.6 | 119.22 | | |
| | 29.00 | 40.2 | 2.6 | 119.27 | | |
| | 30.00 | 40.2 | 2.6 | 119.31 | | |
| | 31.00 | 40.2 | 2.7 | 119.36 | | |
| | 32.00 | 39.0 | 1.4 | 119.40 | | |
| ***** End Flow 1 | 33.00 | 40.6 | 3.0 | 119.45 | | |
| ***** Start Shutin 1 | 0.00 | 40.6 | 0.0 | 119.45 | 0.0000 | 0.002 |
| | 1.00 | 42.1 | 1.6 | 119.50 | 34.0000 | 0.002 |
| | 2.00 | 43.7 | 3.1 | 119.55 | 17.5000 | 0.002 |
| | 3.00 | 45.3 | 4.7 | 119.60 | 12.0000 | 0.002 |
| | 4.00 | 47.0 | 6.5 | 119.64 | 9.2500 | 0.002 |
| | 5.00 | 49.0 | 8.4 | 119.68 | 7.6000 | 0.002 |
| | 6.00 | 50.8 | 10.3 | 119.73 | 6.5000 | 0.003 |
| | 7.00 | 52.9 | 12.4 | 119.77 | 5.7143 | 0.003 |
| | 8.00 | 55.0 | 14.5 | 119.82 | 5.1250 | 0.003 |
| | 9.00 | 57.4 | 16.8 | 119.85 | 4.6667 | 0.003 |
| | 10.00 | 59.8 | 19.2 | 119.90 | 4.3000 | 0.004 |
| | 11.00 | 62.4 | 21.9 | 119.96 | 4.0000 | 0.004 |
| | 12.00 | 65.2 | 24.7 | 119.99 | 3.7500 | 0.004 |
| | 13.00 | 68.2 | 27.7 | 120.04 | 3.5385 | 0.005 |
| | 14.00 | 71.6 | 31.0 | 120.08 | 3.3571 | 0.005 |
| | 15.00 | 75.3 | 34.7 | 120.11 | 3.2000 | 0.006 |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9296 DST #1 J.O.Farmer NAU #2

DATE: 10/15/96

TIME: 21:35:22

| | Time | Pressure PSig | delta P PSig | Temp. DEG F | (T+dT)/dT | P ² /10 ⁶ |
|----------------------|-------|------------------|-----------------|----------------|-----------|---------------------------------|
| | 16.00 | 79.2 | 38.6 | 120.17 | 3.0625 | 0.006 |
| | 17.00 | 83.5 | 42.9 | 120.21 | 2.9412 | 0.007 |
| | 18.00 | 88.1 | 47.5 | 120.25 | 2.8333 | 0.008 |
| | 19.00 | 92.9 | 52.4 | 120.29 | 2.7368 | 0.009 |
| | 20.00 | 98.3 | 57.7 | 120.34 | 2.6500 | 0.01 |
| | 21.00 | 104.2 | 63.6 | 120.39 | 2.5714 | 0.011 |
| | 22.00 | 110.4 | 69.9 | 120.41 | 2.5000 | 0.012 |
| | 23.00 | 117.2 | 76.6 | 120.42 | 2.4348 | 0.014 |
| | 24.00 | 124.6 | 84.0 | 120.43 | 2.3750 | 0.016 |
| | 25.00 | 132.3 | 91.7 | 120.43 | 2.3200 | 0.017 |
| | 26.00 | 140.9 | 100.3 | 120.51 | 2.2692 | 0.020 |
| | 27.00 | 149.9 | 109.3 | 120.55 | 2.2222 | 0.022 |
| ***** End Shut-in 1 | 28.00 | 157.8 | 117.3 | 120.61 | 2.1786 | 0.025 |
| ***** Start Flow 2 | 0.00 | 40.7 | 0.0 | 120.66 | | |
| | 1.00 | 40.8 | 0.1 | 120.69 | | |
| | 2.00 | 40.9 | 0.2 | 120.71 | | |
| | 3.00 | 40.9 | 0.2 | 120.74 | | |
| | 4.00 | 40.9 | 0.2 | 120.78 | | |
| | 5.00 | 41.0 | 0.3 | 120.81 | | |
| | 6.00 | 41.0 | 0.3 | 120.85 | | |
| | 7.00 | 41.0 | 0.3 | 120.89 | | |
| | 8.00 | 41.1 | 0.4 | 120.92 | | |
| | 9.00 | 41.2 | 0.5 | 120.96 | | |
| | 10.00 | 41.2 | 0.5 | 120.99 | | |
| | 11.00 | 41.1 | 0.4 | 121.01 | | |
| | 12.00 | 41.2 | 0.5 | 121.06 | | |
| | 13.00 | 41.2 | 0.5 | 121.08 | | |
| | 14.00 | 41.3 | 0.6 | 121.12 | | |
| | 15.00 | 41.3 | 0.6 | 121.16 | | |
| | 16.00 | 41.3 | 0.6 | 121.20 | | |
| | 17.00 | 41.3 | 0.6 | 121.20 | | |
| | 18.00 | 41.4 | 0.7 | 121.25 | | |
| | 19.00 | 41.4 | 0.7 | 121.30 | | |
| | 20.00 | 41.4 | 0.7 | 121.32 | | |
| | 21.00 | 41.5 | 0.8 | 121.35 | | |
| | 22.00 | 41.5 | 0.8 | 121.38 | | |
| | 23.00 | 41.6 | 0.9 | 121.41 | | |
| | 24.00 | 41.6 | 0.9 | 121.45 | | |
| | 25.00 | 41.7 | 1 | 121.47 | | |
| | 26.00 | 41.7 | 1 | 121.50 | | |
| | 27.00 | 41.6 | 0.9 | 121.54 | | |
| | 28.00 | 41.7 | 1.0 | 121.55 | | |
| | 29.00 | 41.8 | 1.1 | 121.61 | | |
| ***** End Flow 2 | 30.00 | 41.3 | 0.6 | 121.64 | | |
| ***** Start Shutin 2 | 0.00 | 41.3 | 0.0 | 121.64 | 0.0000 | 0.002 |
| | 1.00 | 42.4 | 1.0 | 121.65 | 64.0000 | 0.002 |
| | 2.00 | 43.3 | 2.0 | 121.67 | 32.5000 | 0.002 |
| | 3.00 | 44.3 | 2.9 | 121.74 | 22.0000 | 0.002 |
| | 4.00 | 45.2 | 3.9 | 121.76 | 16.7500 | 0.002 |
| | 5.00 | 46.1 | 4.8 | 121.78 | 13.6000 | 0.002 |
| | 6.00 | 47.1 | 5.7 | 121.79 | 11.5000 | 0.002 |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9296 DST #1 J.O.Farmer NAU:#2

DATE: 10/15/96

TIME: 21:35:22

| Time | Pressure PSig | delta P PSig | Temp. DEG F | (T+dT)/dT | P ² /10 ⁶ |
|---------------------|------------------|-----------------|----------------|-----------|---------------------------------|
| 7.00 | 48.0 | 6.7 | 121.83 | 10.0000 | 0.002 |
| 8.00 | 49.0 | 7.6 | 121.88 | 8.8750 | 0.002 |
| 9.00 | 50.0 | 8.7 | 121.91 | 8.0000 | 0.002 |
| 10.00 | 51.0 | 9.6 | 121.94 | 7.3000 | 0.003 |
| 11.00 | 52.0 | 10.6 | 121.98 | 6.7273 | 0.003 |
| 12.00 | 53.1 | 11.7 | 122.02 | 6.2500 | 0.003 |
| 13.00 | 54.2 | 12.8 | 122.04 | 5.8462 | 0.003 |
| 14.00 | 55.4 | 14.1 | 122.06 | 5.5000 | 0.003 |
| 15.00 | 56.8 | 15.5 | 122.09 | 5.2000 | 0.003 |
| 16.00 | 58.0 | 16.6 | 122.11 | 4.9375 | 0.003 |
| 17.00 | 59.3 | 17.9 | 122.14 | 4.7059 | 0.004 |
| 18.00 | 60.6 | 19.2 | 122.17 | 4.5000 | 0.004 |
| 19.00 | 62.1 | 20.8 | 122.18 | 4.3158 | 0.004 |
| 20.00 | 63.5 | 22.2 | 122.23 | 4.1500 | 0.004 |
| 21.00 | 64.9 | 23.6 | 122.23 | 4.0000 | 0.004 |
| 22.00 | 66.4 | 25.1 | 122.26 | 3.8636 | 0.004 |
| 23.00 | 68.1 | 26.7 | 122.28 | 3.7391 | 0.005 |
| 24.00 | 69.8 | 28.4 | 122.31 | 3.6250 | 0.005 |
| 25.00 | 71.6 | 30.3 | 122.34 | 3.5200 | 0.005 |
| 26.00 | 73.4 | 32.1 | 122.35 | 3.4231 | 0.005 |
| 27.00 | 75.4 | 34.0 | 122.38 | 3.3333 | 0.006 |
| 28.00 | 77.4 | 36.1 | 122.42 | 3.2500 | 0.006 |
| 29.00 | 79.5 | 38.1 | 122.43 | 3.1724 | 0.006 |
| 30.00 | 81.6 | 40.3 | 122.47 | 3.1000 | 0.007 |
| ***** End Shut-in 2 | | | | | |
| ***** Final Hydro. | 256.00 | 2322.3 | 0.0 | 122.80 | |