THE APPLICATION OF SUPRON ENERGY CORPORATION FOR A DUAL COMPLETION

ORDER NO. MC-2819

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 112-A, Supron Energy Corporation made application to the New Mexico Oil Conservation Division on December 17, 1980, for permission to dually complete its USA No. 1 located in Unit P of Section 24, Township 32 North, Range 13 West, NMPM, San Juan County, New Mexico, in such a manner as to permit production of gas from the Blanco Mesaverde Pool and the Basin Dakota Pool.

Now, on this 24th day of April, 1981, the Division Director finds:

1. That application has been filed under the provisions of Rule 112-A of the Division's Rules and Regulations;

2. That satisfactory information has been provided that all operators of offset acreage have been duly notified;

3. That no objections have been received within the waiting period as prescribed by said rule;

4. That the proposed dual completion will not cause waste nor impair correlative rights.

5. That the mechanics of the proposed dual completion are feasible and consonant with good conservation practices.

IT IS THEREFORE ORDERED:

That the applicant herein, Supron Energy Corporation, be and the same is hereby authorized to dually complete its USA No. 1 located in Unit P of Section 24, Township 32 North, Range 13 West, NMPM, San Juan County, New Mexico, in such a manner as to permit production of gas from the Blanco Mesaverde Pool and the Basin Dakota Pool through the casing-tubing annulus and the tubing respectively.

PROVIDED HOWEVER, That applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A.

PROVIDED FURTHER, That applicant shall take packer-leakage tests upon completion and annually thereafter.

IT IS FURTHER ORDERED: That jurisdiction of this cause is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY
Division Director

SEAL

OIL CONSERVATION COMMISSION
Artesia DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE 1-22-81

RE: Proposed MC X
Proposed DHC
Proposed NSL
Proposed SWD
Proposed WFX
Proposed PMX

Gentlemen:

I have examined the application dated 12-16-80

for the Superior Energy Corp. (Operator) W.S.A. #1 (Lease and Well No.) P-24-32N-13W (Unit, S-T-R)

and my recommendations are as follows:

Approve w/ stipulations for annular production

Yours very truly,

Fred T. Chavez

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-107
5-1-61

# APPLICATION FOR MULTIPLE COMPLETION

| | | | |
|---|---|---|---|
| Operator | Supron Energy Corporation<br>c/o John H. Hill et al<br>The Lakes at Bent Tree | County<br>San Juan | Date<br>October 1, 1980 |
| Address | 17400 Dallas Pkwy., Suite 210<br>Dallas, Texas 75252 | Lease<br>SF-078818 A U.S.A. | Well No.<br>1 |
| Location of Well | Unit: P | Section: 24 | Township: T32N / Range: R13W |

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES_____ NO X
2. If answer is yes, identify one such instance: Order No._____; Operator Lease, and Well No.: _____

| 3. The following facts are submitted: | Upper Zone | Intermediate Zone | Lower Zone |
|---|---|---|---|
| a. Name of Pool and Formation | MESA VERDE | | DAK |
| b. Top and Bottom of Pay Section (Perforations) | | | |
| c. Type of production (Oil or Gas) | Gas | | Gas |
| d. Method of Production (Flowing or Artificial Lift) | Flowing | | Flowing |

4. The following are attached. (Please check YES or NO)

| Yes | No | |
|---|---|---|
| X | | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| X | | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| X | | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* |
| X | | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.) |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

See Attached

DEC 16 1980
OIL CON. COM.
DIST. 3

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES_____ NO X. If answer is yes, give date of such notification _____.

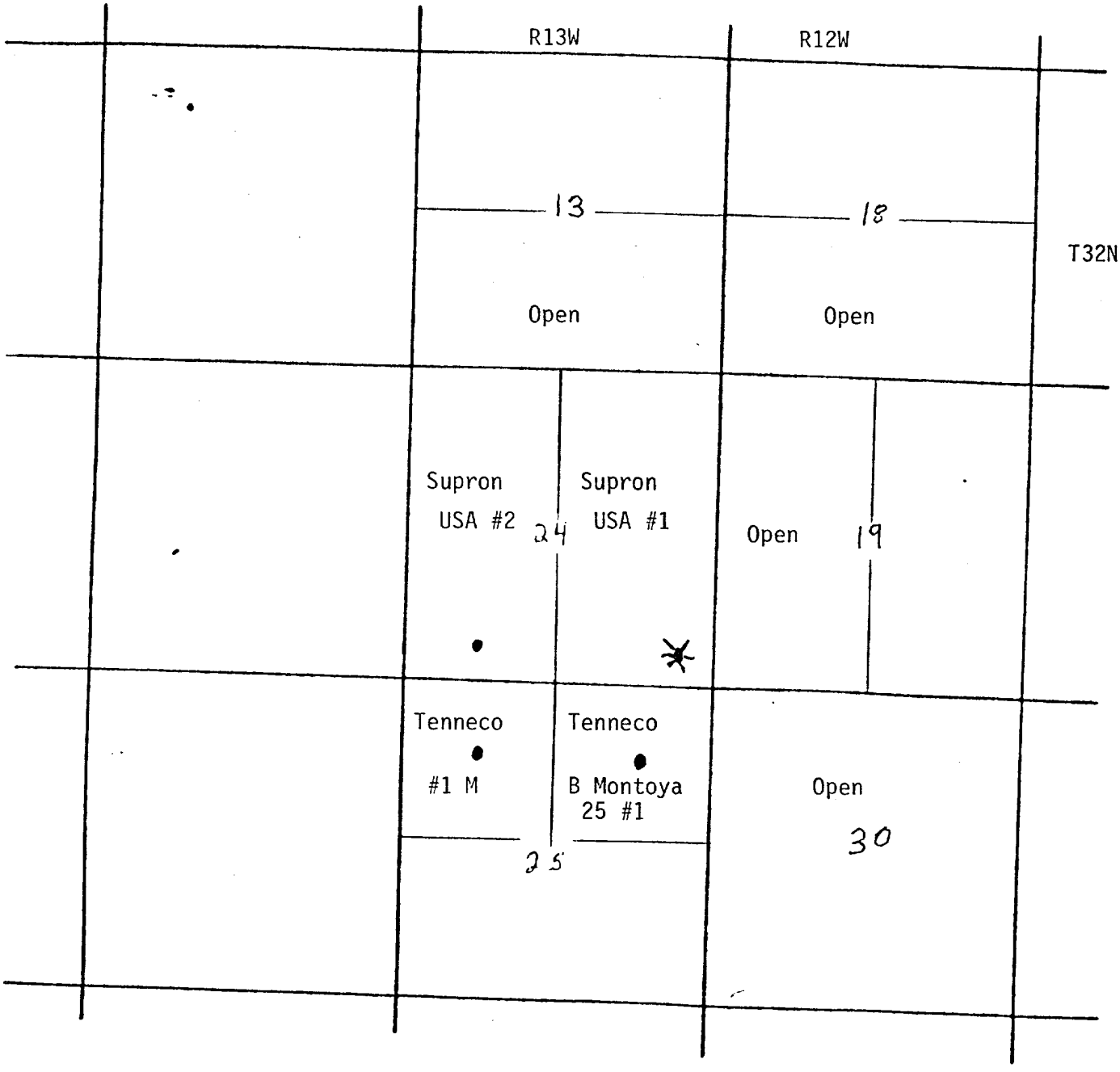
CERTIFICATE: I, the undersigned, state that I am the Drilling/Production Mgr. of the Supron Energy % John H.Hill _____ (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

_____
Signature

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

SAN JUAN COUNTY, NEW MEXICO



Addresses of Operators

Supron Energy Corporation
c/o John H. Hill, et al.
The Lakes at Bent Tree
Suite 210, 17400 Dallas Parkway
Dallas, TX 75252

Tenneco Oil Company
Box 2511, 1010 Milam
Houston, TX 77001

PS Form 3811, Jan. 1979

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

SENDER: Complete items 1, 2, and 3.
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
- ☐ Show to whom and date delivered.....¢
- ☐ Show to whom, date and address of delivery....¢
- ☐ RESTRICTED DELIVERY
  Show to whom and date delivered.....¢
- ☐ RESTRICTED DELIVERY.
  Show to whom, date, and address of delivery.$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Tenneco Oil Company
Box 2511, 1010 Milam
Houston, Texas 77001

3. ARTICLE DESCRIPTION:

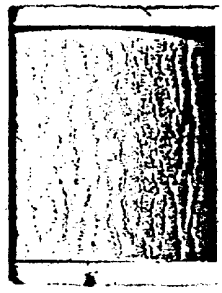
| REGISTERED NO. | CERTIFIED NO. | INSURED NO. |
|---|---|---|
| | P05 5416882 | |

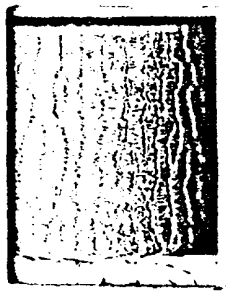
(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐Addressee ☐Authorized agent

| 4. DATE OF DELIVERY | POSTMARK |
|---|---|
| 5. ADDRESS (Complete only if requested) | |
| 6. UNABLE TO DELIVER BECAUSE: | CLERK'S INITIALS |

☆GPO : 1979-283-848





JOHN H. HILL

The Lakes of Bent Tree
17400 Dallas Parkway
Suite 210
Dallas, Texas 75252
(214) 385-9100

Suite 020, Kyser Building
300 W. Arrington
Farmington, New Mexico 87401
(505) 327-9620

November 20, 1980

Tenneco Oil Company
Box 2511, 1010 Milam
Houston, Texas 77001

RE: Dual Completion Notification
to satisfy N.M.O.G.C.C.'s C-107
Requirements

Gentlemen:

In order to comply with the New Mexico Oil and Gas Conservation Commission (N.M.O.G.C.C.), an Operator is required to notify all offset operators of their intention to complete a well in two or more formations. This will serve as official notice to your company of our intention to multiple complete the below well in the below listed formations.

John H. Hill et al is acting on the behalf of the designated operator, Supron Energy Corporation. This letter will also serve as notice from Supron.

WELL NAME: U.S.A. #1 Section 24

LOCATIONS: T 32 N R 13 W, SE /4 SE /4, 812 FS L, 804 FE L

FORMATIONS TO BE MULTIPLE COMPLETED: Mesa Verde
Dakota

Yours very truly,

Steve R. Connor
Exploration/Producing Manager

SRC/lkw

cc: Mr. Herman Wallis, Farmington, New Mexico
Well File

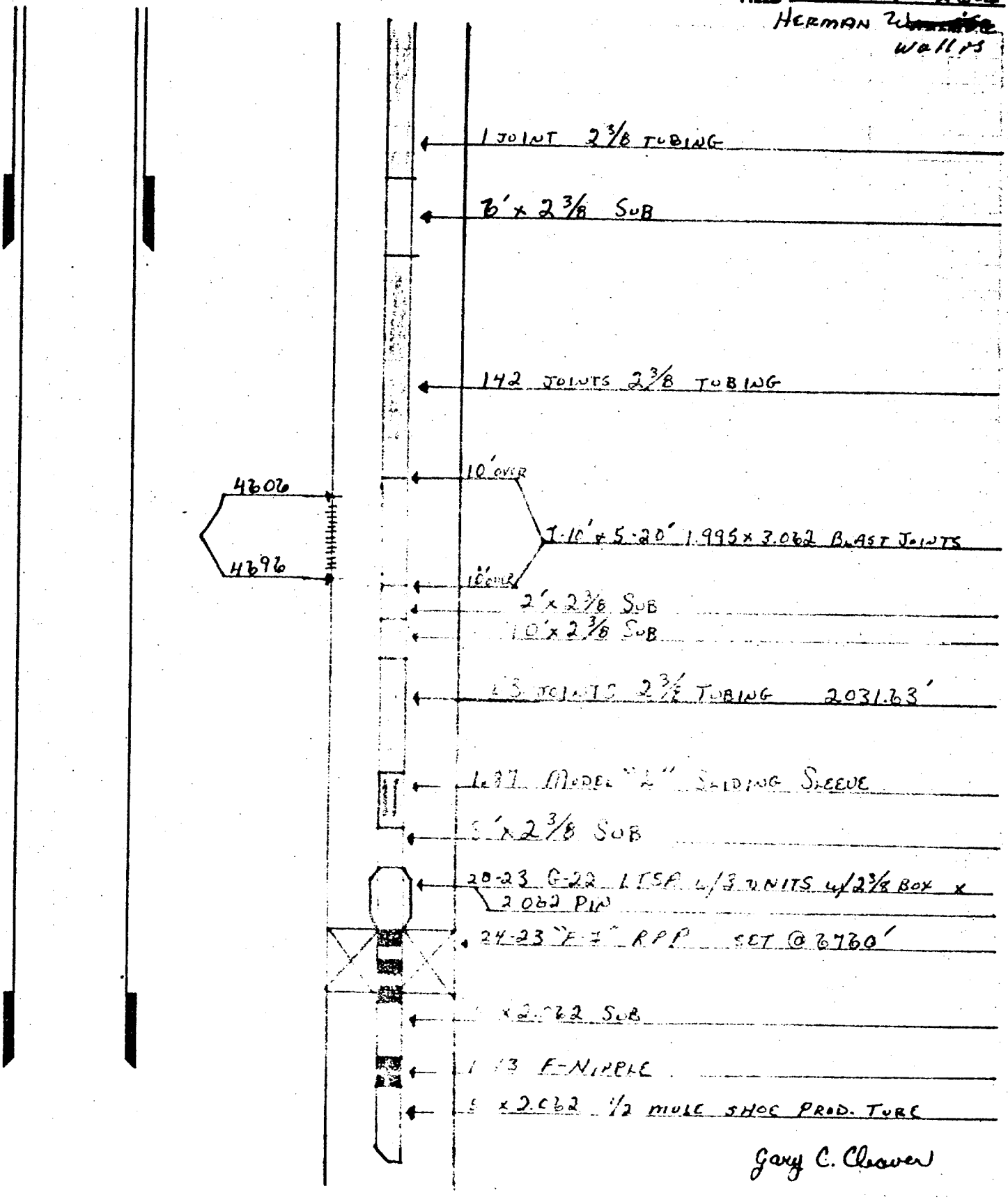
JOHN H. HILL ET AL

# BAKER PACKERS DIVISION

SINGLE COMP.

DATE 10-17-80 WELL NO. 1 LEASE USA FIELD SSI-373-62601

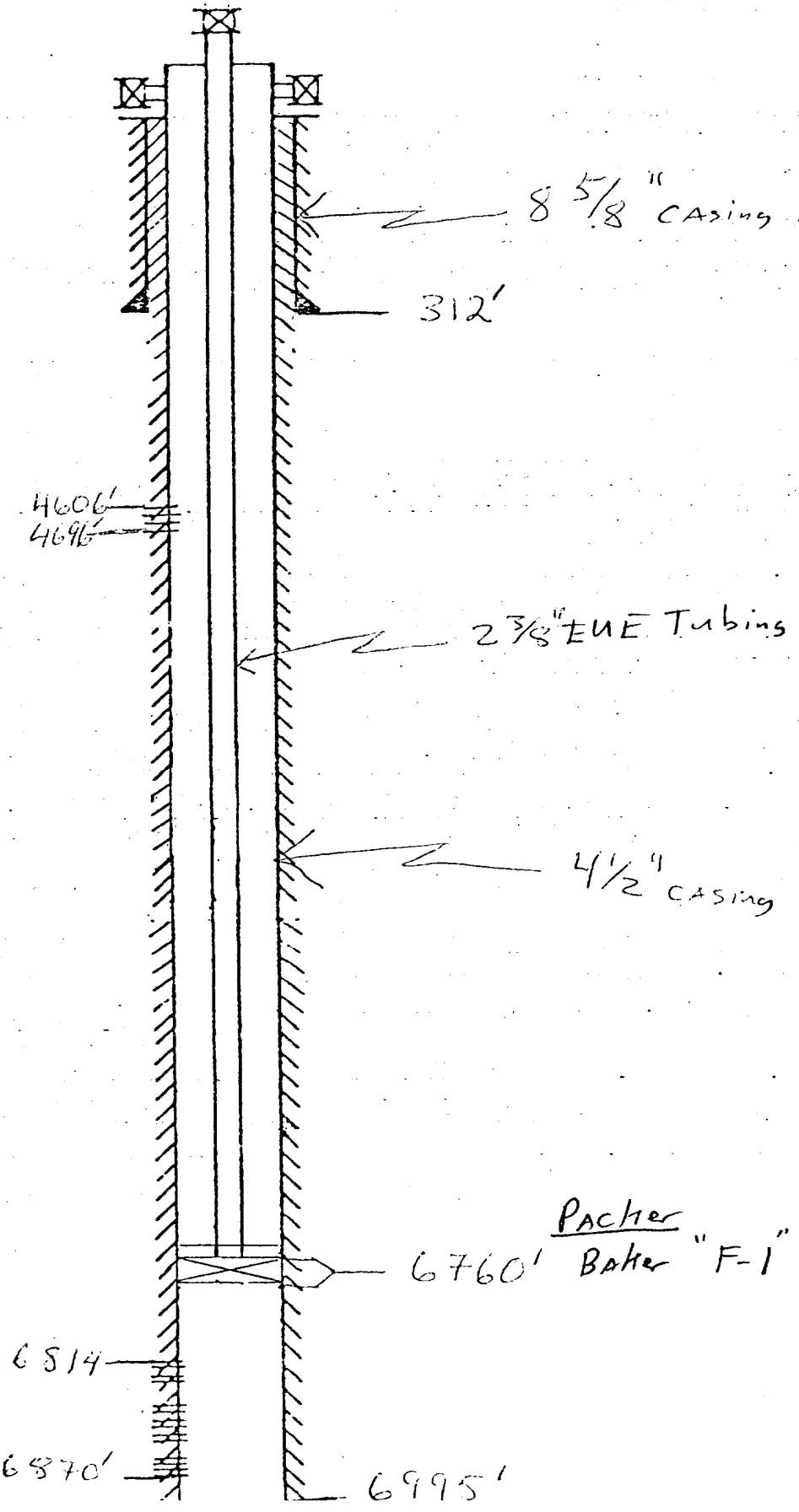
HERMAN ~~Warnick~~ Wallis




Gary C. Chower

FORM NO. 20-27 (6/76)

U. S. A. #1


8 5/8" CASING
312'
4606'
4696'
2 3/8" EUE Tubing
4 1/2" CASING
PACKER
6760' Baker "F-1"
6814
6870'
6995'

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

December 19, 1980

Mr. Steve R. Conner
John H. Hill et al
17400 Dallas Parkway, Suite 210
Dallas, Texas 75252

Re: Supron Energy Corp. U.S.A. #1 P-24-32N-13W

Dear Steve:

We have received your application for multiple completion of the referenced well. Before we can make a recommendation to the Director for approval we need more information regarding the efficiency of producing the Mesaverde formation up the annulus of this well.

Please submit data such as well tests, projected volumes of gas and liquid production, and such other data as will show that liquids will not accumulate in the well bore causing inefficient production.

If you have any questions please contact this office.

Yours truly,

Frank T. Chavez
District Supervisor
FTC/ls
Xc: Santa Fe Carl Ulvog
U.S.G.S., Farmington

JOHN H. HILL
SUITE 210, 17400 DALLAS PARKWAY
THE LAKES AT BENT TREE
DALLAS, TEXAS 75252

214/385-9100

January 19, 1981


State of New Mexico
Energy & Minerals Department
Oil Conservation Division
Aztec District Office
1000 Rio Brazos Road
Aztec, New Mexico 87410

Attention: Mr. Frank T. Chavez
District Supervisor

RE: Your letter dated 12/19/80
Supron Energy Corp./John H. Hill
Farmout Well U.S.A. #1
P-24-32N-13W Mesa Verde/Dakota Dual
and our C-107 Application

Dear Frank:

Thank you for your recent letter concerning efficient production of the Mesa Verde formation in our well U.S.A. #1. We appreciate and can understand your concern about this situation and trust this letter will resolve any questions in your mind.

There were several interlinking factors that affected our selection of the long string size. The U.S.A. #1 was one of the first deeper Dakota wells that was drilled at the beginning of the John H. Hill/Supron Energy Corporation Farmout drilling program. We had originally permitted the well with the U.S.G.S. for a Dakota Single. After logging the well we discovered, by surprise, that the Mesa Verde formation was commercial. This caught our logistical situation by surprise because we had no 5½" casing in stock. After hurriedly checking, none was found available in the local San Juan Basin area. We had on order, dual trees but delivery at that point was four months away. We had to run 4½" casing, which was in stock, instead of the preferable 5½". However, we included special provisions to insure efficient production.

Attached please find the C-122 well tests for Mesa Verde and Dakota formation in the U.S.A. #1. It is our opinion that the annular velocity up around the 2-3/8" tubing will certainly be high enough to lift any liquid production for a long time. Liquid production in this part of the Glade Area is approximately 20 Bbls. per day. Gas production takes averages 500 Mcf per day. This calculates to be a ratio of 1 Bbl. per 25 Mcf per day. Annular capacities with packer at 6760' are 70.1 Bbls. or 397 Cu. Ft.

GAS ANNULAR VELOCITY

$$\frac{500{,}000 \text{ Cu. Ft.}}{\text{Day}} \cdot 6760 \text{ Feet} \cdot \frac{1 \text{ Lin Ft}^*}{17.011 \text{ Cu Ft}} = \underline{\quad ? \quad} \text{ Ft/Sec}$$

$$\frac{500{,}000 \text{ Cu. Ft. (1 Day, 1 Hour, 1 Minute)}}{\text{Day (24 Hrs., 60 Min., 60 Sec.)}} \cdot 6760 \text{ Feet} \cdot \frac{1 \text{ Lin Ft.}}{17.011 \text{ Cu Ft}} = \underline{\quad ? \quad} \text{ Ft/Sec}$$

$$= \underline{2299} \text{ Ft/Sec}$$

LIQUID ANNULAR VELOCITY

$$\frac{20 \text{ Bbls.}}{\text{Day}} \cdot 6760 \text{ Feet} \cdot \frac{1 \text{ Lin Ft}^*}{95.51 \text{ Bbls.}} = \underline{\quad ? \quad} \text{ Ft/Sec}$$

$$\frac{20 \text{ Bbls. (1 Day, 1 Hour, 1 Minute)}}{\text{Day (24 Hrs., 60 Min., 60 Sec.)}} \cdot 6760 \text{ Feet} \cdot \frac{1 \text{ Lin Ft}}{95.51 \text{ Bbls.}} = \underline{\quad ? \quad} \text{ Ft/Sec}$$

$$= \underline{.0163} \text{ Ft/Sec}$$

RATIO OF GAS A.V. : FLUID A.V.

$$\frac{2299 \text{ Ft/Sec}}{.0163 \text{ Ft/Sec}} = \frac{1}{141{,}043} \qquad \underline{1:141{,}043}$$

* Volume and Height between 2-3/8" tubing and 4½" casing (10.50)

At a ratio of 1:141,043, we feel that the above amount of liquid produced will be efficiently lifted to the surface and no annular fluid accumulation should occur.

However, to insure that if in time gas volumes decrease and/or liquid production increases, we propose the following procedure. The operator will make annular fluid measurements periodically beginning at the time of the annual well test to the Commission. This should indicate how much, if any, liquid build-up has occured compared to past years. (Length of periodic measurements to be approved by the Commission.)

Also, as tubing we ran 2-3/8" EUE 8 rd. Above the packer, we installed a Baker Model L "Sliding Sleeve" which can be opened and closed easily by a wireline tool (see attached sketch). The purpose of the sliding sleeve was mainly for efficient production. If significant fluid build-up has occured to impair efficient production, then the operator shall make application to the Commission to open by wireline the sliding sleeve, thus "flushing" the annulus by unloading any Mesa Verde fluids with Dakota gas which is at a higher pressure. Commingling of gases should only be for less than a few hours per flushing.

In closing, we wish to state that we concur in theory with your thoughts of 5½" casing with two tubing strings being somewhat more desirable. We hope that you can understand our reasons in this particular case why we ran 4½" casing. We will endeavor to run where ever possible 5½" casing in all of our dual completions in the future. We feel that in the U.S.A. #1, little or no annular fluid accumulation should occur. However, if any does occur, we feel we have made proper contingencies to insure efficient production by means of the sliding sleeve.

We hope our response to your letter is acceptable to yourself and the Commission and that you recommend to the Director, approval to produce this multiple completion.

If you require anything further, please feel free to call me.

Yours truly,

Steve R. Connor
Manager of Exploration/Production

SRC/lkw
Attachments

cc: Mr. Bruce Wamsley, U.S.G.S., Farmington, New Mexico
Mr. Rudy Motto, Supron Energy Corporation, Farmington, New Mexico
Mr. Jerry Lee, Supron Energy Corporation, Dallas, Texas

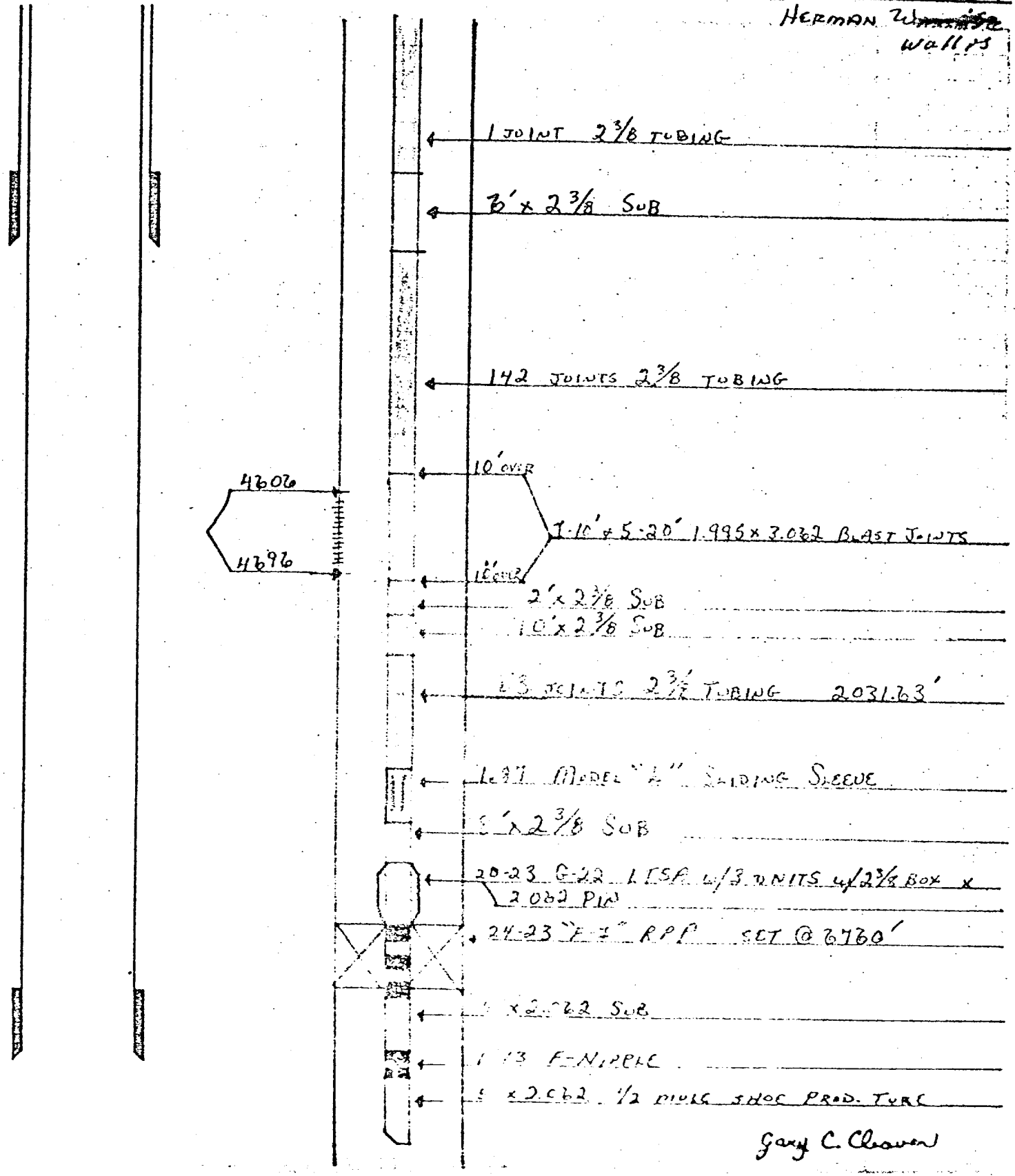
JOHN H. HILL ET AL

**BAKER PACKERS DIVISION**

SINGLE COMP.

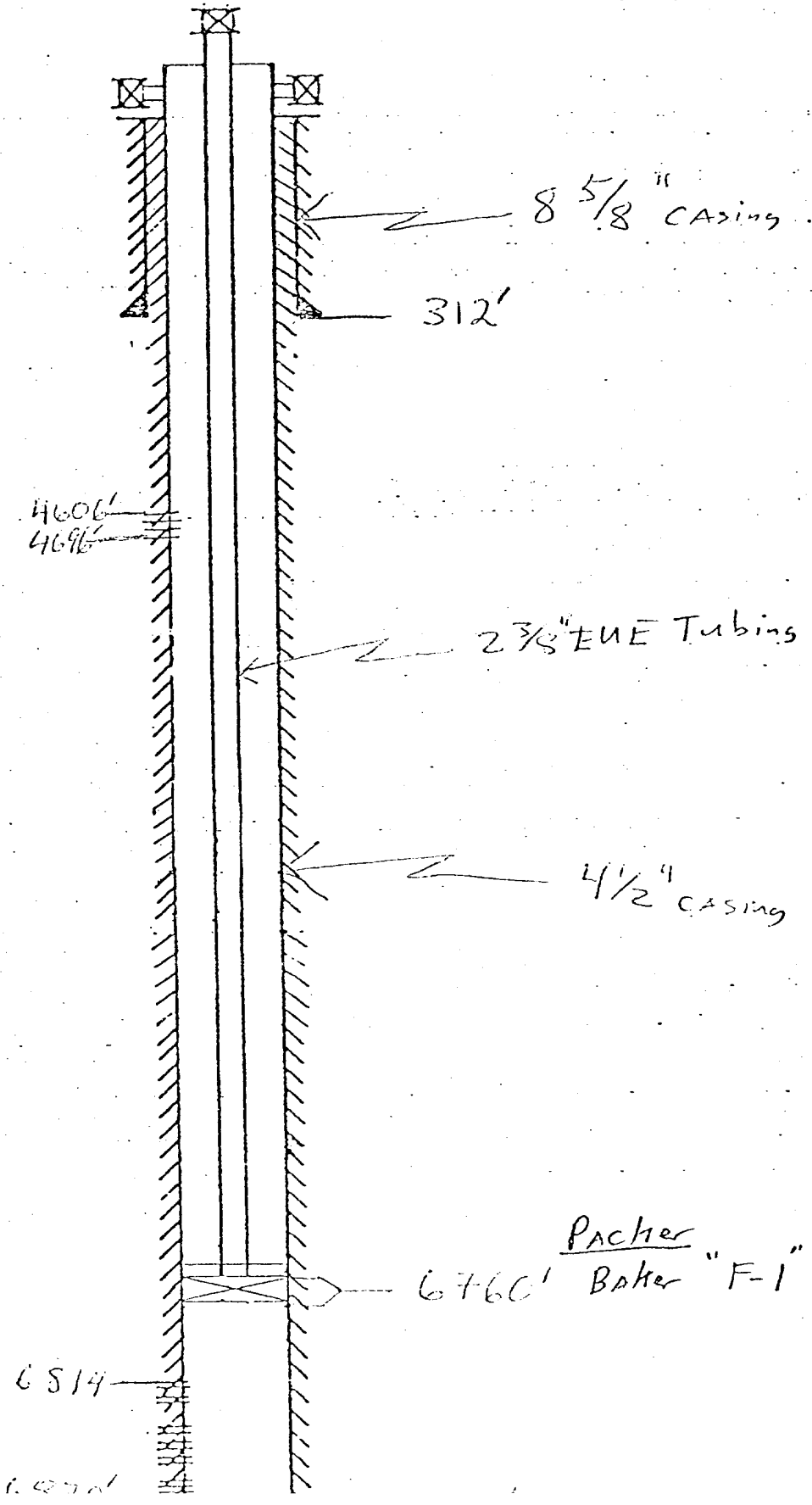
DATE 10-17-80 WELL NO. 1 LEASE USA FIELD SSI-373-62701

HERMAN Wallis




Gary C. Chauvin

U. S. A. # 1


8 5/8" CASING
312'
4606'
4696'
2 3/8" EUE Tubing
4 1/2" CASING
Packer
6760' Baker "F-1"
6814'

# OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

## MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 12/11/80

| | | | | |
|---|---|---|---|---|
| Company: Supron Energy Corp. | Connection: | | | |
| Pool: Basin | Formation: Dakota | | | Unit: |
| Completion Date: 11/26/80 | Total Depth: 7000 | Plug Back TD: | Elevation: 5925 G | Farm or Lease Name: USA |
| Csg. Size: 4.500 / Wt.: 10.50 / d: 4.052 / Set At: 6995 | Perforations: From 6814 To 6970 | | | Well No.: 1 |
| Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 6790 | Perforations: From Open ended To | | | Unit: P / Sec.: 24 / Twp.: 32N / Rge.: 13W |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G - G Multiple | | Packer Set At: 6760 | | County: San Juan |
| Producing Thru: Tubing | Reservoir Temp. °F: | Mean Annual Temp. °F: | Baro. Press. – $P_a$: | State: New Mexico |

| L | H | Gg | % $CO_2$ | % $N_2$ | % $H_2S$ | Prover | Meter Run | Taps |
|---|---|---|---|---|---|---|---|---|
| | | est. .675 | | | | | | |

### FLOW DATA / TUBING DATA / CASING DATA

| NO. | Prover Line Size | X Orifice Size | Press. p.s.i.g. | Diff. $h_w$ | Temp. °F | Tubing Press. p.s.i.g. | Tubing Temp. °F | Casing Press. p.s.i.g. | Casing Temp. °F | Duration of Flow |
|---|---|---|---|---|---|---|---|---|---|---|
| SI | | | | | | 1681 (Dakota) | | 1094 (Mesaverde) | | 15 Days |
| 1. | | .750 | 54 | | 60 | | | | | 3 Hrs. |
| 2. | | | | | | | | | | |
| 3. | | | | | | | | | | |
| 4. | | | | | | | | | | |
| 5. | | | | | | | | | | |

### RATE OF FLOW CALCULATIONS

| NO. | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure $P_m$ | Flow Temp. Factor Ft. | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
|---|---|---|---|---|---|---|---|
| 1 | 12.365 | | 66 | 1.0000 | .9427 | 1.0000 | 769 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_t$ | Temp. °R | $T_t$ | Z |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5 | | | | |

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

$P_c$ 1693 $P_c^2$ 2866249

| NO | $P_t$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | 1356 | 98 | 9531 | 2856718 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0033$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0025$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 771$

Absolute Open Flow 771 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

# OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

## MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

| | | | | |
|---|---|---|---|---|
| Type Test: [X] Initial [ ] Annual [ ] Special | | | Test Date: 12/4/80 | |
| Company: Supron Energy Corp | Connection: | | | |
| Pool: Blanco | Formation: Mesaverde | | | Unit: |
| Completion Date: 11/26/80 | Total Depth: | Plug Back TD: | Elevation: 5925 GL | Farm or Lease Name: USA |
| Csg. Size: 4.500 / Wt.: 10.50 / d: 4.052 / Set At: 6995 | Perforations: From 4606 To 4696 | | | Well No.: 1 |
| Tbg. Size: 2.375 / Wt.: 4.70 / d: 1.995 / Set At: 6760 | Perforations: From None To | | | Unit: P / Sec.: 24 / Twp.: 32N / Rge.: 13W |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G-G Multiple | | Packer Set At: 6760 | | County: San Juan |
| Producing Thru: Casing | Reservoir Temp. °F: | Mean Annual Temp. °F: | Baro. Press. – $P_a$: | State: New Mexico |

| L | H | Gg | % $CO_2$ | % $N_2$ | % $H_2S$ | Prover | Meter Run | Taps |
|---|---|---|---|---|---|---|---|---|
| | | est .675 | | | | | | |

| | FLOW DATA | | | | TUBING DATA | | CASING DATA | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Prover Line Size | X Orifice Size | Press. p.s.i.g. | Diff. $h_w$ | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F | Duration of Flow |
| SI | | | | | | 1612 (Dakota) | | 1097 (Mesaverde) | | 7 Days |
| 1. | | .750 | 99 | | 60 | | | 99 | | 3 Hrs. |
| 2. | | | | | | | | | | |
| 3. | | | | | | | | | | |
| 4. | | | | | | | | | | |
| 5. | | | | | | | | | | |

### RATE OF FLOW CALCULATIONS

| NO. | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure $P_m$ | Flow Temp. Factor Ft. | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
|---|---|---|---|---|---|---|---|
| 1 | 12.3650 | | 111 | 1.000 | .9427 | 1.000 | 1294 |
| 2. | | | | | | | |
| 3 | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_t$ | Temp. °R | $T_r$ | Z |
|---|---|---|---|---|
| 1 | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5 | | | | |

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

$P_c$ 1109 $P_c^2$ 1229881

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | 12321 | 132 | 17363 | 1212518 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0143$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0107$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1308$

Absolute Open Flow 1308 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

*After 28 minutes well blew light fog of distillate and water for remainder of test.