

OPEN FLOW TEST DATA

Date: December 12, 1967

Operator: R & C Drilling Company Lease: Lunt #61-8

Location: Sec. 6, Township 30N, Range 13W County: San Juan State: New Mexico

Formation: Dakota Pool: Basin Dakota

Casing: 4 1/2 " Set @ 6350 ' Tubing: 2 3/8 " Set @ 6290

Pay Zone: 6104 ' To: 6296 ' Total Depth: 6355 FB 6312

Choke Size: 3/4 BLM " Choke Constant = C = 14.1605

Stimulation Method: _____ Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: _____ psig / 12 = _____ psia (Shut-in 8 days)

Shut-in Pressure Tubing: 1712 psig / 12 = 1712 psia

Flowing Pressure: P : 156 psig / 12 = 168 psia

Working Pressure: P_w : _____ psig / 12 = _____ psia

Temperature: T : 47 °F / 460 = 507 °Absolute

F_{pv} (from tables) : 1.018 Gravity Est. .615 n 75

$$\text{Choke Volume} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$14.1605 \times 168 \times 1.0127 \times .9877 \times 1.018$$

$$Q = \underline{2422} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \frac{\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n}{\frac{2,930,944}{2,902,720}} = 1.0097 \approx 1.0072$$

Aof = 2439 MCF/D

Tested By: _____

Witnessed By: _____



Calculated By
GeoElectric, Inc.

[Signature]

| | |
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| TRANSPORTER | OIL GAS |
| OPERATOR | |
| PRODUCTION OFFICE | |

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-105
Effective 1-1-65

I. Operator
R & G DRILLING COMPANY

Address
c/o Walsh Engin. & Prod. Corp. P.O. Box 254 Farmington, N.M. 87401

Reason(s) for filing (Check proper box) Other (Please explain)

| | | | |
|---------------------|--------------------------|---------------------------|-------------------------------------|
| New Well | <input type="checkbox"/> | Change in Transporter of: | |
| Recompletion | <input type="checkbox"/> | Oil | <input checked="" type="checkbox"/> |
| Change in Ownership | <input type="checkbox"/> | Casinghead Gas | <input type="checkbox"/> |
| | | Dry Gas | <input type="checkbox"/> |
| | | Condensate | <input type="checkbox"/> |

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

| | | | | |
|-----------------------------|------------------------|---|---|------------------------------|
| Lease Name Lunt | Well No. 61 | Pool Name, Including Formation Basin Dakota | Kind of Lease State, Federal or Fee Federal | Lease No. NM09867A |
| Location | | | | |
| Unit Letter A | 1120' | Feet From The N Line and 890' | Feet From The E | |
| Line of Section 6 | Township 30N | Range 13W | NMPM, San Juan | County |

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

| | | |
|---|---|------|
| Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> Permian Corporation | Address (Give address to which approved copy of this form is to be sent) P.O. Box 1702 Farmington, N.M. 87401 | |
| Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/> Permian Union Gathering Co. | Address (Give address to which approved copy of this form is to be sent) | |
| If well produces oil or liquids, give location of tanks. | Unit | Sec. |
| | Twp. | Rge. |
| | Is gas actually connected? When | |

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

| | | | | | | | | |
|--------------------------------------|-----------------------------|----------|-----------------|----------|--------|-------------------|-------------|--------------|
| Designate Type of Completion - (X) | Oil Well | Gas Well | New Well | Workover | Deepen | Plug Back | Same Res'v. | Diff. Res'v. |
| | | | | | | | | |
| Date Spudded | Date Compl. Ready to Prod. | | Total Depth | | | P.B.T.D. | | |
| Elevations (DF, RKB, RT, GR, etc.,) | Name of Producing Formation | | Top Oil/Gas Pay | | | Tubing Depth | | |
| Perforations | | | | | | Depth Casing Shoe | | |
| TUBING, CASING, AND CEMENTING RECORD | | | | | | | | |
| HOLE SIZE | CASING & TUBING SIZE | | DEPTH SET | | | SACKS CEMENT | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

| | | | |
|---------------------------------|-----------------|---|------------|
| Date First New Oil Run To Tanks | Date of Test | Producing Method (Flow, pump, gas lift, etc.) | |
| Length of Test | Tubing Pressure | Casing Pressure | Choke Size |
| Actual Prod. During Test | Oil-Bbls. | Water-Bbls. | Gas-MCF |

GAS WELL

| | | | |
|----------------------------------|---------------------------|---------------------------|-----------------------|
| Actual Prod. Test-MCF/D | Length of Test | Bbls. Condensate/MMCF | Gravity of Condensate |
| Testing Method (pilot, back pr.) | Tubing Pressure (Shut-in) | Casing Pressure (Shut-in) | Choke Size |

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

FOR: R & G DRILLING COMPANY

Ewell N. Walsh, P.E. (Signature) President
Walsh Engineering & Prod. Corp.

3/6/79

(Date)

OIL CONSERVATION COMMISSION

APPROVED **MAR 12 1979**

BY **Original Signed by A. R. Kendrick**

SUPERVISOR DIST. #3

TITLE

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.