

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
Revised 7/1/57

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Denver, Colorado

9-24-59

(Place)

(Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Consolidated Oil & Gas, Inc. Government Senter, Well No. 1, in SE 1/4 SW 1/4,
(Company or Operator) (Lease)

N

Sec. 24

T. 31N

R. 13W

NMPM,

Blanco

Pool

Unit Letter

San Juan

Deepening

County. Date Spudded 8-30-59

Date Drilling Completed 9-23-59

Please indicate location:

Elevation 5817 KB

Total Depth 6786

PBTD 6747

Top Oil/Gas Pay 6612

Name of Prod. Form. Dakota

PRODUCING INTERVAL -

Perforations 6612-37', 6641-47', 6655-61', 6670-86', 6694-6712'

Open Hole None

Depth Casing Shoe 6763'

Depth Tubing 6460'

OIL WELL TEST -

Natural Prod. Test: bbls. oil, bbls water in hrs, min. Size

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): bbls. oil, bbls water in hrs, min. Size

GAS WELL TEST -

Natural Prod. Test: MCF/Day; Hours flowed Choke Size

Method of Testing (pitot, back pressure, etc.):

Test After Acid or Fracture Treatment: 2500 MCF/Day; Hours flowed 24

Choke Size 1 1/4" Method of Testing: Initial to atmosphere

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): Sand-water: 36,000# - 66,000 gallons

Casing Tubing 2000 Date first new oil run to tanks Awaiting

Oil Transporter Four States Western

Gas Transporter Southern Union Gas Co.

Remarks: Old Mesa Verde well now recompleted as dual Dakota-Mesa Verde

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved: OCT 2 1959, 19

CONSOLIDATED OIL & GAS, INC.

(Company or Operator)

By: J.B. Ladd (Signature) Vice President

Title: Consolidated Oil & Gas, Inc.

Send Communications regarding well to:

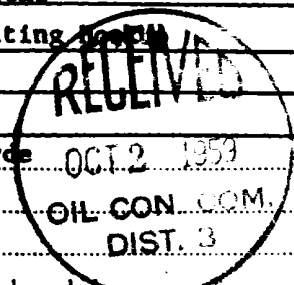
Name:

Address: 312 Denver U. S. Bldg, Denver, Colorado

OIL CONSERVATION COMMISSION

By: Original Signed Emery C. Arnold

Title: Supervisor Dist. # 3



OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received <u>3</u>		
DISTRIBUTION		
	NO. FURNISHED	
Director		
Santa Fe	<u>1</u>	
Production Office	<u>1</u>	
State Land Office		
U. S. G. S.		
Transporter		
File	<u>1</u>	<input checked="" type="checkbox"/>

Initial Data
Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - MESA VERDE BASIN

(FOR USE ONLY FOR FRUITLAND, PICTOBUENA, AND MESAVENUE, MALL BASINS
EXCEPT BARKEN AND MESAVENUE AREA)

Pool Unidentified Formation Mesa Verde County San Juan
Perforation Unidentified Date Test 11/16/59
Operator Consolidated Oil & Gas, Inc. Lease Govt. Water Well No. 1
Unit N Sec. 24 Twp. 31N Rge. 13W Pay Zone: From 6612 To 6712
Casing: OD 7-4 1/2 WT. 20-9.5 Set At 6763 Tubing: OD 2-3/8 WT. 4.7 L. Perf. 6468
Produced Through: Casing Tubing X Gas Gravity: Measured 1.704 Reported
Date of Flow Test: From 11/8/59 To 11/16/59 Date S.I.P. Measured 11/23/59
Meter Run Size 4" Orifice Size 1-5/8" Type Chart Std Type Tape Flange

OBSERVED DATA

Flowing casing pressure (Dwt) (Mesa Verde) Dual psig + 12 = psia (a)
Flowing tubing pressure (Dwt) 414 psig + 12 = 426 psia (b)
Flowing meter pressure (Dwt) 398 psig + 12 = 410 psia (c)
Flowing meter pressure (psig) when Dwt. measurement taken:
Normal chart reading 400 psig + 12 = 412 psia (d)
Square root chart reading () ² x spring constant = psia (d)
Meter error (c) - (d) or (d) - (c) ± = -2 psi (e)
Friction loss, Flowing column to meter:
Flow through tubing: (a) - (c) Flow through casing = 16 psi (f)
Flow through casing pressure (from meter chart): 430 psig + 12 = 442 psia (g)
Square root chart reading () ² x sp. const. = psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) = 440 psia (h)
P_c = (h) + (f) = 446 psia (i)
Wellhead casing shut-in pressure (Dwt) Mesa Verde (Dual) psig + 12 = psia (j)
Wellhead tubing shut-in pressure (Dwt) 1640 psig + 12 = 1652 psia (k)
P_w = (j) or (k) whichever well flowed through = 1652 psia (l)
Flowing Temp. (Mesa Verde) 57 °F + 460 = 517 °Abs (m)
P_a = 14.7 psia = 4 (n)
P_a = 14.7 psia = 826 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{600}{(\text{Integrated})} \times \left(\frac{\sqrt{P_c} - \sqrt{P_d}}{\sqrt{P_c} - \sqrt{P_d}} \right) = \frac{20.24846 - 20.29778}{20.29778} = 0.9975 = 599 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{599}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_d^2} \right]^n} = \frac{2046828}{2541615} = 0.8053 = 509 \text{ MCF/day}$$

Handwritten: 2,521,243

SUMMARY

P_c = 1652 psia
Q = 599 Mcf/day
P_w = 1652 psia
P_d = 826 psia
D = 509 Mcf/day

Company CONSOLIDATED OIL & GAS, INC.
By [Signature]
Title Production Manager
Witnessed by
Company

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-u})	(F _c Q) ²	(F _c Q) ² (1-e ^{-u})	R ²	P ₁ ² (Column 1)	P ₁ ² + R ²	P _w
4551	0.282	31.71715	8.95		198.916	207.867	435

