

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

COLLECTED COPY

(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.

Tulsa, Oklahoma

April 9, 1959

(Place)

(Date)

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

PETRO-ATLAS, INC.

STATE

Well No. **1**, in **NW** $\frac{1}{4}$ **NW** $\frac{1}{4}$,

(Company or Operator)

(Lease)

D, Sec. **2**, T. **24N**, R. **7W**, NMPM, **Ballard Pictured Cliffs** Pool

Unit Letter

Rio Arriba

County. Date Spudded **2-16-59**

Date Drilling Completed **3-8-59**

Please indicate location:

Elevation **6899' ±** Total Depth **2574'** FBTD **2543'**

Top Oil/Gas Pay **2466** Name of Prod. Form. **Pictured Cliffs**

PRODUCING INTERVAL -

Perforations **2466 to 2482 & 2519 to 2531'**

Open Hole Depth **2573'** Depth **2511'**
Casing Shoe Tubing

OIL WELL TEST -

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

GAS WELL TEST -

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

Tubing, Casing and Cementing Record

Size	Feet	Sax
8-5/8	89	70
5-1/2	63	125
1-1/4	2511	

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

Test After Acid or Fracture Treatment: **1,399.4** MCF/Day; Hours flowed **3**

Choke Size **3/4"** Method of Testing: **Critical Flow prover**

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): **1026 bbls. water, 100,000 lbs. sand**

Casing Press. **651** Tubing Press. **651** Date first new oil run to tanks **3-4-59**

Oil Transporter _____

Gas Transporter **El Paso Natural Gas**

Remarks: **3-4-59 Tested 1,200 Mcf/d**
3-16-59 Run State test w/Critical Flow Prover

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

Approved **APR 13 1959**, 19____ **PETRO-ATLAS, INC.**
(Company or Operator)

OIL CONSERVATION COMMISSION

Original Signed By

By: **A. R. KENDRICK**

Title **PETROLEUM ENGINEER DIST. NO. 3**

By: _____
(Signature) **N. B. GOVE**

ENGINEER

Title _____

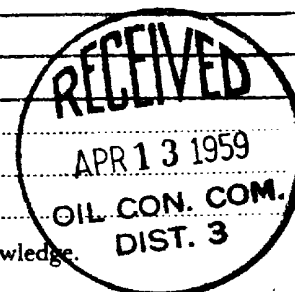
Send Communications regarding well to:

Petro-Atlas, Inc.

Name _____

Address **729 East Main Street**

Farmington, New Mexico



OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received		4
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Initial Deliverability
Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

74-830-01

Pool Ballard Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Canyon Largo Well No. 88
Unit D Sec. 2 Twp. 24 Rge. 7 Pay Zone: From 2466 To 2573
Casing: OD 5-1/2 WT. 15.5 Set At 2573 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2491
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .714 Estimated _____
Date of Flow Test: From 6/30/59 To 7/8/59 * Date S.I.P. Measured 4/14/59 58
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____)² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.71)² x sp. const. 5 = 225 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 225 psia (h)
P_t = (h) + (f) _____ = 225 psia (i)
Wellhead casing shut-in pressure (Dwt) 651 psig + 12 = 663 psia (j)
Wellhead tubing shut-in pressure (Dwt) 651 psig + 12 = 663 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 663 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 332 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{451}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 451 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{392}$ MCF/day.
.8467 .8681

SUMMARY

P_c = 663 psia
Q = 451 Mcf/day
P_w = 225 psia
P_d = 332 psia
D = 392 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
Witnessed by _____
Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
			Friction Negligible			

D at 250 = 433

OK

