

OPEN FLOW TEST DATA

Date: August 2, 1962
 Operator: Shur-Alan Lease: Duff #B-1
 Location: NW 1/4 Sec. 19, T. 23 N., R. 1 W County: Sanleval State: N. Mex.
 Formation: P C Pool: Undesignated
 Casing: 4 1/2 " Set @ 3065 Tubing: 1 1/2 " Set @ 3009
 Pay Zone: 2986 To: 3007 Total Depth: 3065
 Choke Size: 3/4 TMC Choke Constant = C = 12.365
 Stimulation Method: _____ Flow Through: Casing X Tubing _____
 Shut-in Pressure Casing: 956 psig / 12 = 968 psia (Shut-in 8 days)
 Shut-in Pressure Tubing: _____ psig / 12 = _____ psia
 Flowing Pressure: P : 126 psig / 12 = 138 psia
 Working Pressure: P_w : _____ psig / 12 = _____ psia
 Temperature: T : 52 °F / 460 = 512 °Absolute
 F_{pv} (from tables) : 1.013 Gravity .620 Est n .85

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

$$12.365 \times 138^Q \times 1.0078 \times .9837 \times 1.013 = \underline{1714} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^n = 1.0175$$

$$Aof = \frac{937,024}{917,900} = \underline{1.0175}$$

$$Aof = \underline{1744} \text{ MCF/D}$$

Tested By: D. W. Stiles

Witnessed By: _____

Gelectric, Inc.



[Signature]

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NEW MEXICO OIL CONSERVATION COMMISSION

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

Santa Fe, New Mexico

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 August 10, 1962
(Place) (Date)

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

Shar-Alan Oil Company Duff-Federal 'B', SF 079150, Well No. 1, in SE 1/4 dNW 1/4,
(Company or Operator) (Lease)

F Unit Letter, Sec. 19, T 23N, R. 1W, NMPM, So Blanco Pictured Cliffs Pool

Sandoval County, Date Spudded 9-5-59 Date Drilling Completed 9-14-59

Please indicate location:

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Elevation 7346 Total Depth 3065 PBDT

Top Oil/Gas Pay 2986 Name of Prod. Form. Pictured Cliffs

PRODUCING INTERVAL -

Perforations 2986-3007

Open Hole Depth Casing Shoe 3065' Depth Tubing 3009

OIL WELL TEST -

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

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of Choke 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: 1744 MCF/Day; Hours flowed 3 hr

Choke Size 3/4 Method of Testing: Back Pressure

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): 54,000 gallons of water and 15,000# sand

Casing Press. 956 Tubing Press. Date first new oil run to tanks

Oil Transporter

Gas Transporter El Paso Natural Gas Company

Remarks:

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

Approved SEP 4 1962, 19

Shar-Alan Oil Company (Company or Operator)

By: Richard S. Hunt (Signature)

OIL CONSERVATION COMMISSION

By: Original Signed by W. B. Smith

Title DEPUTY OIL & GAS INSPECTOR DIST. NO. 3

Title Mgr. of Lands & Explorations
Send Communications regarding well to:

Name Shar-Alan Oil Company
1402 Denver U. S. National Center