

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

REQUEST FOR (OIL) - (GAS) ALLOWABLE

Form C-104  
Revised 7/1/59

**RECEIVED**  
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 QUADRUPPLICATE 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.

**Farmington, N. M.**

**April 27, 1961**

Place

Date

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS

**El Paso Natural Gas Co.**  
Company or Operator

**Cox Canyon**  
Place

Well No. **9-20**

in **SE**

**14**

**NE**

**H**  
Unit Letter

Sec. **20**

T. **32**

R. **11**

NMPM

**Blanco Mesa Verde**

Pool

**San Juan**

County Date Spudded

Date **Re: Completed**  
**2-28-61**

**2-28-61**

Please indicate location

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

Elevation **6702**

Depth **5900**

Top Oil/Gas Pay **5204**

Name of Lease Block **Mesa Verde**

PERFORMING INTERVAL -

Perforations

Open hole

Depth **5900**

**5874**

Spud Date

Natural Prod. Tests

Test After Acid or Fracture Treatment (after recovery of volume of oil equivalent to volume of acid used):

Load oil (used): \_\_\_\_\_ bbls, oil, \_\_\_\_\_ bbls, water in \_\_\_\_\_ hrs, \_\_\_\_\_ bbls, gas

Flow Rate

Natural Prod. Tests

MLL (days) \_\_\_\_\_

Tubing, Casing and Cementing Record

Size Feet Sex

10-3/4	232	
7-5/8	3672	
5-1/2	5900	
2"	5874	

Method of Testing (pilot, pack, pressure, etc.):

Test After Acid or Fracture Treatment:

MLL (days) \_\_\_\_\_

Block Size Method of Testing:

Acid or Fracture Treatment (Give amounts of materials used, etc.):

Sand:

Casing:

Press:

Tubing:

Test:

Water (first few)

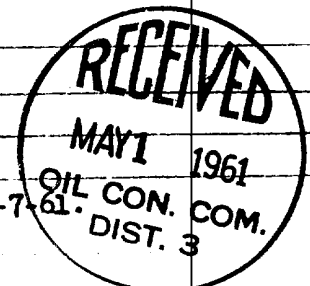
Oil (first few)

Oil Transporter

Oil Transporter **El Paso Natural Gas Co.**

Remarks **An Intermittent was installed.**

**Turned back on Production, 3-7-61.**



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

Approved **MAY 1 1961**

**El Paso Natural Gas Company**  
Company or Operator

OIL CONSERVATION COMMISSION

By

**C. E. Pawell**  
Signature

By **Original Signed Emery C. Arnold**

Title **Production Engineer**

Send Communications regarding well to

Title **Supervisor Dist. # 3**

Name

Address

STATE OF NEW MEXICO	
OIL CORPORATION COMM. SERVO.	
AZUL D. SERVO. OFFICE	
NUMBER OF COPIES RECEIVED	
DATE	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
PROBATION OFFICE	6-2
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico(Form C-104)  
(Revised 7/1/52)

## 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 oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Farmington, New Mexico

11-1-56

(Place)

(Date)

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

Pacific Northwest Pipeline Corp.

Cox Canyon

Well No. 9-20, in SE 1/4 NE 1/4,

(Company or Operator)

(Lease)

H Unit Letter, Sec. 20, T. 32N, R. 11W, NMPM, Blanco Mesa Verde Pool

Unit Letter

San Juan

County. Date Spudded 8-25-56, Date Completed 10-29-56

Please indicate location:

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

1850 N, 990 E

Casing and Cementing Record  
Size Feet Sax

10 3/4	232	200
7 5/8	3672	200
5 1/2	5900	1/150
2	5874	

Elevation 6,702 Total Depth 5900, P.B. 5897

Top oil/gas pay 5204 Name of Prod. Form Mesa Verde

Casing Perforations: 5204 - 5642 ; 5670 - 5874 or

Depth to Casing shoe of Prod. String

Natural Prod. Test BOPI

based on bbls. Oil in Hrs. Min.

Test after acid or shot BOPI

Based on bbls. Oil in Hrs. Min.

Gas Well Potential 18,621 mcf/d CAOF

Size choke in inches

Date first oil run to tanks or gas to Transmission system:

Transporter taking Oil or Gas: Pacific Northwest Pipeline Corp.

Remarks: \* 5 1/2" Liner Top 3602 set @ 5900

Frac. w/ water only in 2 sections using Rubber Ball method

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

Approved 11-2, 1956 Pacific Northwest Pipeline Corp.

(Company or Operator)

OIL CONSERVATION COMMISSION

By: Original signed by G. H. Poppin

(Signature)

By: [Signature]

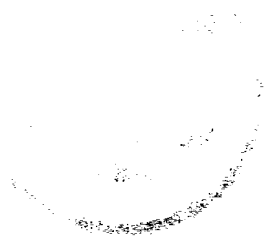
Title: District Production Engineer

Send Communications regarding well to:

Title Oil and Gas Inspector Dist. #3.

Name: Pacific Northwest Pipeline Corp.

Address: 405 1/2 West Broadway, Farmington, N. Mex.



OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received <u>4</u>		
DISTRIBUTION		
	NO. FURNISHED	
Operator	/	
Land Office	/	
Operation Office	/	
Land Office		
U. S. G. S.		
Transporter		
File	/	✓

1 - L. B. Truby  
1 - W. R. Johnston  
1 - File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverde County San Juan  
Initial XX Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 10-29-56  
Company Pacific Northwest Pipeline Corp. Lease Cox Canyon 32-11 Well No. 9-20  
Unit H Sec. 20 Twp. 32N Rge. 11W Purchaser Not Corrected  
Casing 7 & 5 Wt. \_\_\_\_\_ I.D. \_\_\_\_\_ Set at 5900 Perf. \_\_\_\_\_ To \_\_\_\_\_  
Tubing 2" Wt. \_\_\_\_\_ I.D. \_\_\_\_\_ Set at 5874 Perf. \_\_\_\_\_ To \_\_\_\_\_  
Gas Pay: from 5874 To 5204 L \_\_\_\_\_ xG est. .690 -GL \_\_\_\_\_ Bar.Press. 12.0  
Producing Thru: Casing \_\_\_\_\_ Tubing XX Type Well Single  
Single-Bradenhead-G. G. or G.O. Dual  
Date of Completion: \_\_\_\_\_ Packer \_\_\_\_\_ Reservoir Temp. \_\_\_\_\_

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) SI 11 days Type Taps --

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	<del>(Prover)</del> (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						979		1030		Shut-in
1.										
2.	2	3/4	399		77	399	77	920		3 hrs.
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.							
3.	14.1605		411	.9840	.9325	1.043	5570
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-s</sup>)  
Specific Gravity Separator Gas \_\_\_\_\_  
Specific Gravity Flowing Fluid \_\_\_\_\_  
P<sub>c</sub> 1042 P<sub>c</sub> 1085.8

No.	P <sub>w</sub> P <sub>w</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> )	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> P <sub>c</sub>
1.									
2.									
3.	932					868.6	217.2		4.999
4.									
5.									

Absolute Potential: 18,621 MCFPD; n .75/ 3.343

COMPANY Pacific Northwest Pipeline Corporation

ADDRESS 4054 West Broadway

AGENT and TITLE W. B. Richardson, Well Test Engineer

WITNESSED \_\_\_\_\_

COMPANY \_\_\_\_\_

REMARKS



## INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

## NOMENCLATURE

- $Q$  = Actual rate of flow at end of flow period at W. H. working pressure ( $P_w$ ).  
MCF/da. @ 15.025 psia and 60° F.
- $P_c$  = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.  
psia
- $P_w$  = Static wellhead working pressure as determined at the end of flow period.  
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- $P_t$  = Flowing wellhead pressure (tubing if flowing through tubing, casing if  
flowing through casing.) psia
- $P_f$  = Meter pressure, psia.
- $h_w$  = Differential meter pressure, inches water.
- $F_g$  = Gravity correction factor.
- $F_t$  = Flowing temperature correction factor.
- $F_{pv}$  = Supercompressability factor.
- $n$  = Slope of back pressure curve.

Note: If  $P_w$  cannot be taken because of manner of completion or condition of well, then  $P_w$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_t$ .

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received	3	
DISTRICT OFFICE		
Operator		
Santa Fe	1	
Production Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File	1	✓