

OIL CONSERVATION COMMISSION  
1000 Rio Brazos Rd.  
Aztec, New Mexico

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

DATE 12-29-60

RE: Proposed NSP \_\_\_\_\_

Proposed NSL \_\_\_\_\_

Proposed NFO \_\_\_\_\_

Proposed DC ✓

Gentlemen:

I have examined the application dated 12-6-60  
for the EPNG SJU 27-5 #49 A-18-27N-5W  
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approved  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,

Ernest C. Anderson  
OIL CONSERVATION COMMISSION

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

## APPLICATION FOR DUAL COMPLETION

Field Name <b>Blanco Mesa Verde &amp; So. Blanco P. C. Ant.</b>		County <b>Rio Arriba</b>	Date <b>December 3, 1960</b>
Operator <b>El Paso Natural Gas Company</b>		Lease <b>San Juan 27-5 Unit</b>	Well No. <b>49 (IM)</b>
Location of Well <b>A</b>	Unit <b>14</b>	Section <b>27N</b>	Range <b>5N</b>

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☒ NO ☐

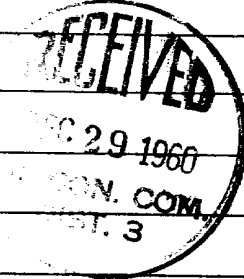
2. If answer is yes, identify one such instance: Order No. **32-421**; Operator, Lease, and Well No.:

The following facts are submitted:		Upper Zone	Lower Zone
a. Name of reservoir		<b>Fractured Cliffs</b>	<b>Mesa Verde</b>
b. Top and Bottom of Pay Section (Perforations)		<b>3312-3342</b>	<b>5452-5608</b>
c. Type of production (Oil or Gas)		<b>Gas</b>	<b>Gas</b>
d. Method of Production (Flowing or Artificial Lift)		<b>Flowing</b>	<b>Flowing</b>

4. The following are attached. (Please mark YES or NO)

- Yes** a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Yes** b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- No** c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.\*
- No** d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.



6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☐ NO ☐ . If answer is yes, give date of such notification \_\_\_\_\_.

CERTIFICATE: I, the undersigned, state that I am the **Division Petroleum Eng.** of the **El Paso Natural Gas Co.** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

ORIGINAL SIGNED E. S. OBERLY

Signature

- \* Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.
- NOTE: If the proposed dual completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

STATE OF NEW MEXICO     )  
                                  )  
COUNTY OF SAN JUAN     )

I, C. D. Cox, Jr., being first duly sworn upon my oath depose and say as follows:

I am an employee of El Paso Natural Gas Co., and that on November 5, 1960, I was called to the location of the El Paso Natural Gas Company San Juan 27-5 Unit No. 49 (PM) Well located in the NENE/4 of Section 18, Township 27 North, Range 5 West, N.M.P.M., for advisory service in connection with installation of a production packer. In my presence, a Guiberson Model "Shorty" Production Packer was set in this well at 3575 feet in accordance with the usual practices and customs of the industry.



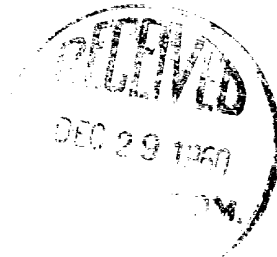
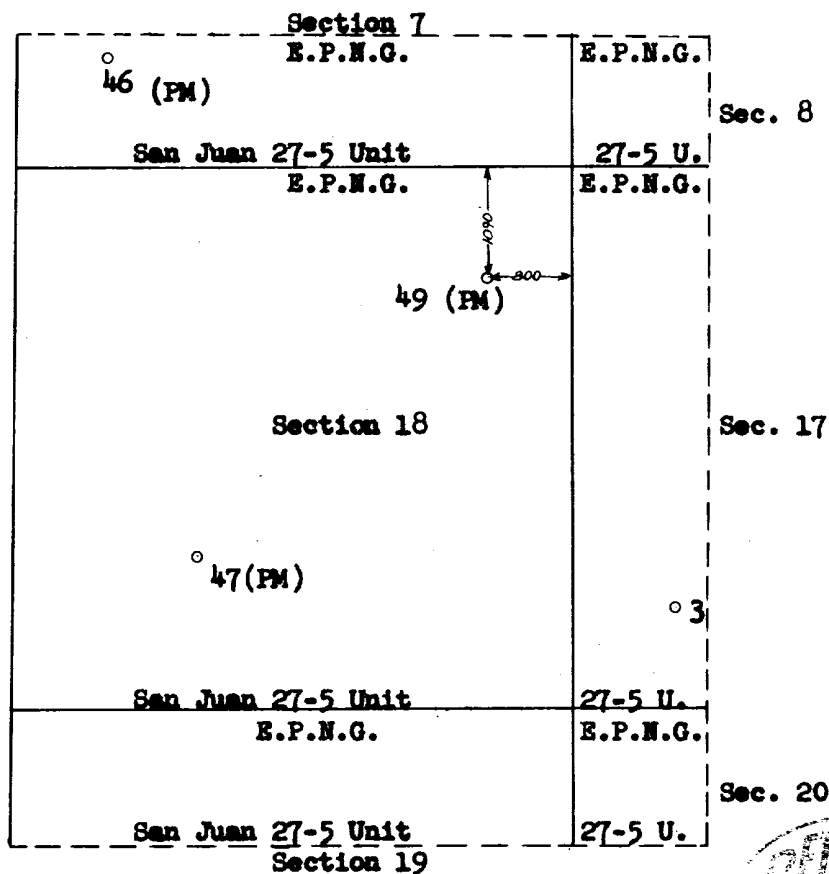
Subscribed and sworn to before me this 6th day of December, 1960.

Thurmond Baw Hall  
Notary Public in and for San Juan County,  
New Mexico

My Commission Expires 6-21-61  
My commission expires October 5, 1964.

**PLAT SHOWING LOCATION OF DUALY COMPLETED  
El Paso Natural Gas Co. San Juan 27-5 Unit No. 49 (PM)  
and Offset Acreage**

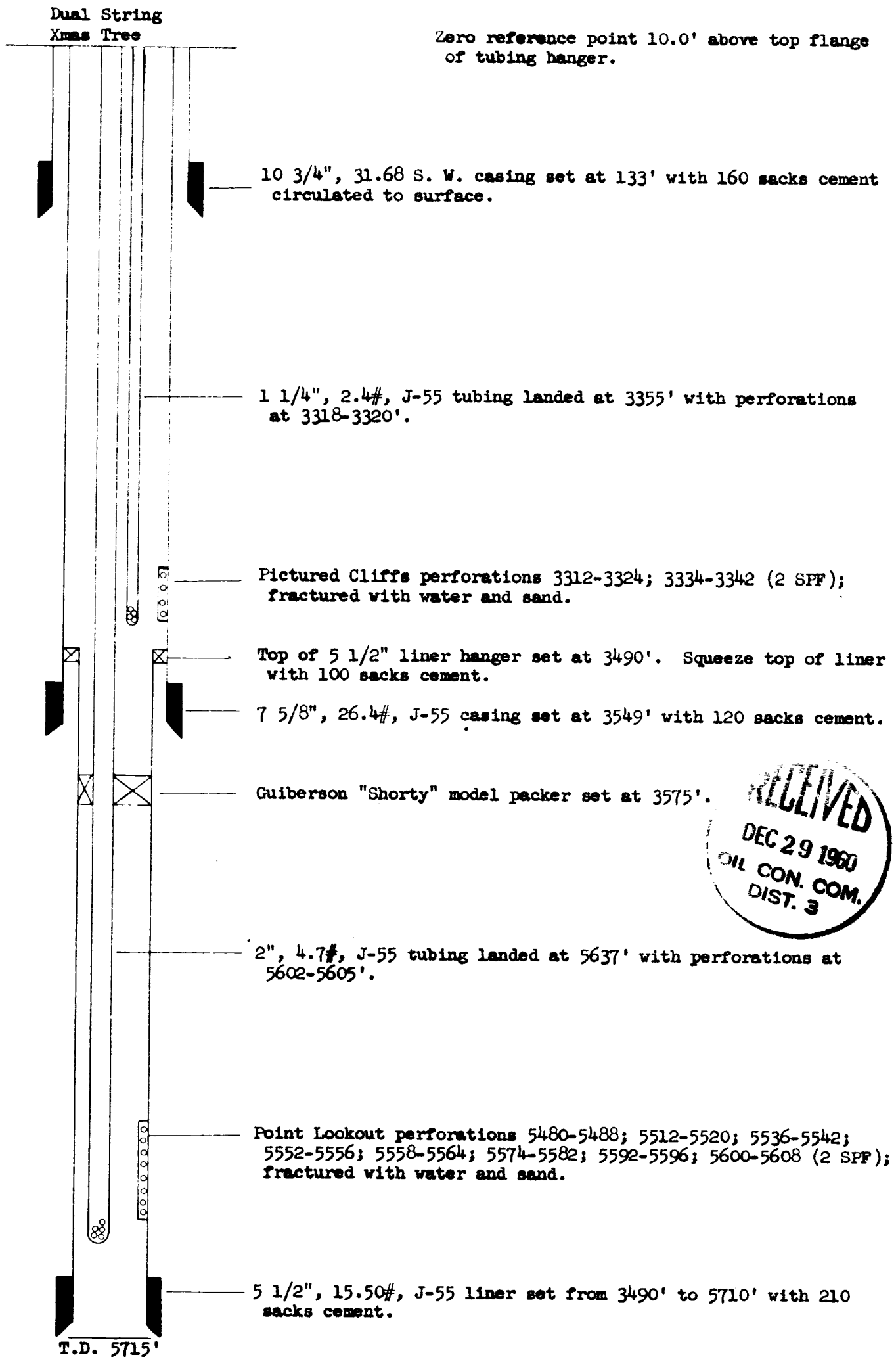
T-27-N  
R-5-W

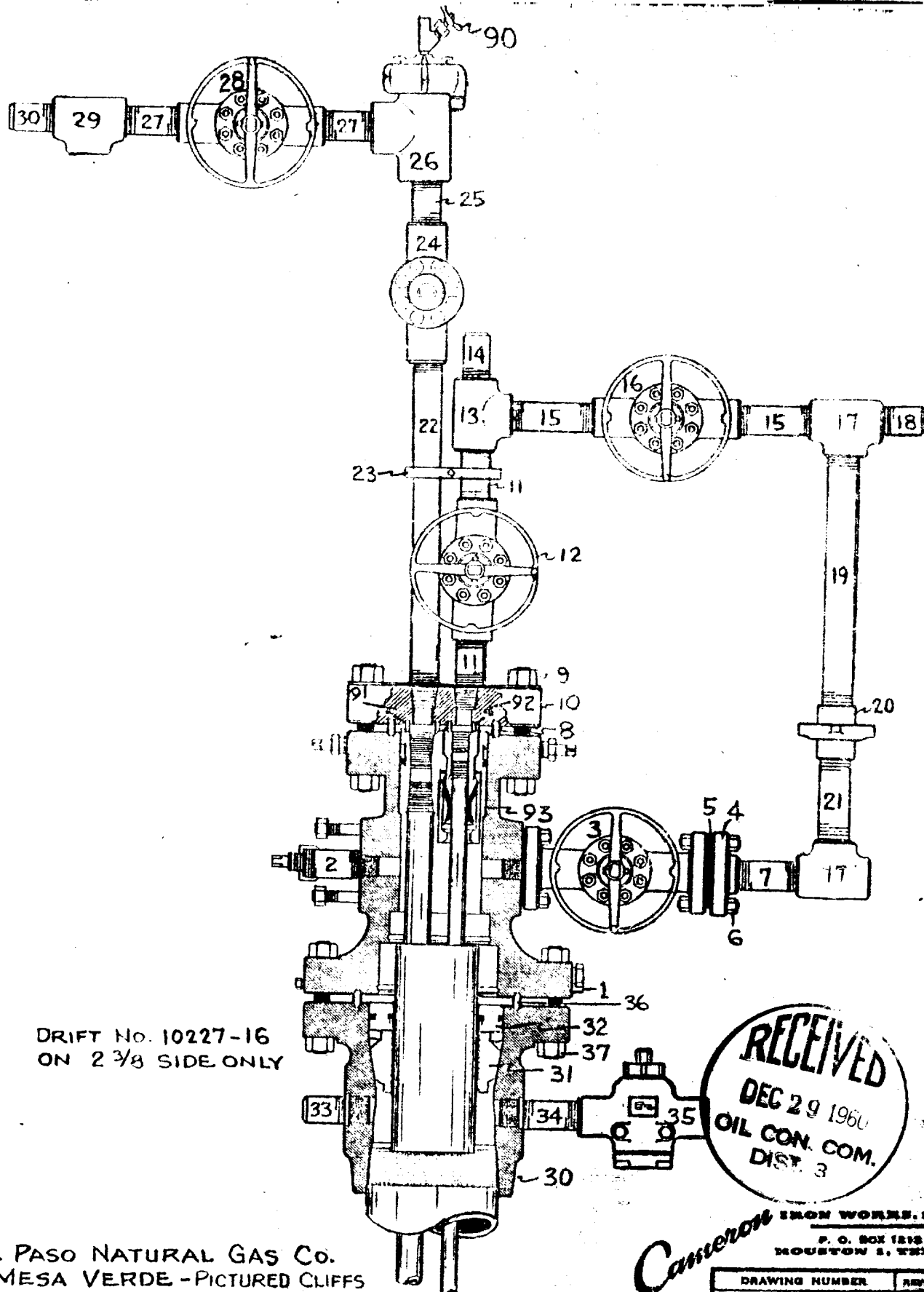


EL PASO NATURAL GAS COMPANY  
EL PASO, TEXAS

SCALE	DATE	No.
DRAWN BY	CHECKED BY	

**SCHEMATIC DIAGRAM OF DUALY COMPLETED**  
**El Paso Natural Gas Co. San Juan 27-5 Unit No. 49 (PM)**  
**NE/4 Section 18, T-27-N, R-5-W**





DRIFT No. 10227-16  
ON 2 3/8 SIDE ONLY

EL PASO NATURAL GAS Co.  
MESA VERDE - PICTURED CLIFFS

**RECEIVED**  
DEC 29 1960  
OIL CON. COM.  
DIST. 3

**Cameron IRON WORKS, INC.**  
P. O. BOX 1818  
HOUSTON 2, TEXAS

DRAWN BY <u>E. H.</u>	DATE <u>3-17-59</u>	WORKING PRESSURE <u>2,000</u> #	DRIFT NO. _____	DRAWING NUMBER <u>916015</u>	REVISION <u>"A"</u>
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# EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 23, 1960

Operator <b>El Paso Natural Gas Company</b>		Lease <b>San Juan 27-5 Unit No. 49 (PC)</b>	
Location <b>1090'N, 800'E, 18-27N-5W</b>		County <b>Rio Arriba</b>	
State <b>New Mexico</b>		Pool <b>Undesignated</b>	
Casing <b>Pictured Cliffs</b>		Tubing Diameter <b>1-1/4"</b>	
Set At Feet <b>7-5/8"</b>		Set At Feet <b>3345</b>	
Flow Through Casing <b>3312</b>		Flow Through Tubing <b>11-6-60</b>	
Sand/Water Frac.		X	

Choke Size, Inches <b>.75</b>		Choke Constant, C <b>12.365</b>		5-1/2" Liner from 3490 to 5710	
Shut-In Pressure, PSIG <b>1069</b>		Days Shut-In <b>17</b>		Guiberson "Shorty" Prod. Pkr. at 3575'	
(PC)		PSIG		Shut-In Pressure, Tubing <b>1081</b>	
(Csg)		PSIG		Working Pressure: Pw <b>105</b>	
Flow Through Casing <b>100</b>		Flow Through Tubing <b>112</b>		Gravity <b>.650</b>	
Density <b>1.0029</b>		Efv (From Tables) <b>1.010</b>		Fg <b>.9608</b>	

Initial SIPT (M) = 1026 psig

Final SIPT (M) = 1024 psig

CHOKE VOLUME Q C x P<sub>i</sub> x F<sub>g</sub> x F<sub>pv</sub>

(12.365)(112)(1.0029)(.9608)(1.010)

1348

MCF/D

$$Q = \left( \frac{P_i^2 - P_w^2}{P_i^2 - P_w^2} \right)^n$$

$$Q = \left( \frac{1,168,561 - 1,154,872}{1,168,561 - 1,154,872} \right)^n (1.0118)^{.85} (1348) = (1.0100)(1348)$$

Act 1361 MCF/D

F. M. Clark

Calculated by W. D. Dawson

*Lewis D. Galloway*  
Lewis D. Galloway



EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 15, 1960

Operator <b>El Paso Natural Gas Company</b>		Lease <b>San Juan 27-5 Unit No. 49 (MV)</b>	
Location <b>1090'N, 800'E, 18-27N-5W</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Mesa Verde</b>		Pool <b>Blanco</b>	
Casing: Diameter <b>7-5/8"</b>	Set At: Feet <b>3549</b>	Tubing: Diameter <b>2"</b>	Set At: Feet <b>5627</b>
Pay Zone: From <b>5480</b>	To <b>5608</b>	Total Depth: <b>5715 c/o 5672</b>	Shut In <b>11-6-60</b>
Stimulation Method <b>Sand/Water Frec.</b>		Flow Through Casing	Flow Through Tubing <b>X</b>

Choke Size, Inches <b>.750</b>		Choke Constant: C <b>12.365</b>		5-1/2" Liner from 5490 to 5710 Quiberson "Sharty" Per. at 3575'	
Shut-In Pressure, Casing, (PC) <b>1060</b>	PSIG	+ 12 = PSIA <b>1072</b>	Days Shut-In <b>9</b>	Shut-In Pressure, Tubing (MV) <b>1095</b>	PSIG
Flowing Pressure: P <b>226</b>	PSIG	+ 12 = PSIA <b>238</b>		Working Pressure: P <sub>w</sub> (Calc) <b>478</b>	PSIG
Temperature: T <b>61</b> °F	F <sub>r</sub> <b>.9990</b>	n = <b>0.750</b>		F <sub>pv</sub> (From Tables) <b>1.024</b>	Gravity <b>0.679</b>
					F <sub>g</sub> = <b>.9427</b>

Initial SIPT (P) = 1060 psig

Final SIPC (P) = 1062 psig

CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>r</sub> x F<sub>g</sub> x F<sub>pv</sub>

$$Q = (12.365)(238)(.9990)(.9427)(1.024) = 2838 \text{ MCF/D}$$

$$\text{OPEN FLOW : Aof} = Q \left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$\text{Aof} = \left( \frac{1,203,409}{974,925} \right)^n = (1.2343)^{.75} (2838) = (1.1710)(2838)$$

$$\text{Aof} = 3323 \text{ MCF/D}$$

TESTED BY R. F. Headrick

WITNESSED BY \_\_\_\_\_

Checked by W. D. Dawson

*Lewis D. Galloway*  
Lewis D. Galloway