

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Blanco Mesa Verde & South Blanco P. C.		County El Arriba	Date July 13, 1959
Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit	Well No. 92 (FM)
Location of Well 0	Unit 2	Township 27N	Range 6W

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. **DE-529**; Operator, Lease, and Well No.:

El Paso Natural Gas Company San Juan 28-6 Unit No. 77 (FM)

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Pictured Cliffs	Mesa Verde
b. Top and Bottom of Pay Section (Perforations)	3235-3304	4900-5014 (Cliff House) 5396-5522 (Point Lookout)
c. Type of production (Oil or Gas)	Gas	Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing

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.

El Paso Natural Gas Company is San Juan 28-6 Unit Operator.

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 Engr.** of the **El Paso Natural Gas Company** (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, A. T. Fry, being first duly sworn upon my oath
depose and say as follows:

I am an employee of Guiberson Corporation, and that
on June 12, 1959, I was called to the location of the El Paso Natural Gas
Company San Juan 28-6 Unit No. 92 (FM) Well located in the SWNE/4 of Section
2, Township 27 North, Range 6 West, N.M.P.M., for advisory service in
connection with installation of a production packer. In my presence a
Guiberson Model "AN" Production Packer was set in this well at 3334 feet
in accordance with the usual practices and customs of the industry.

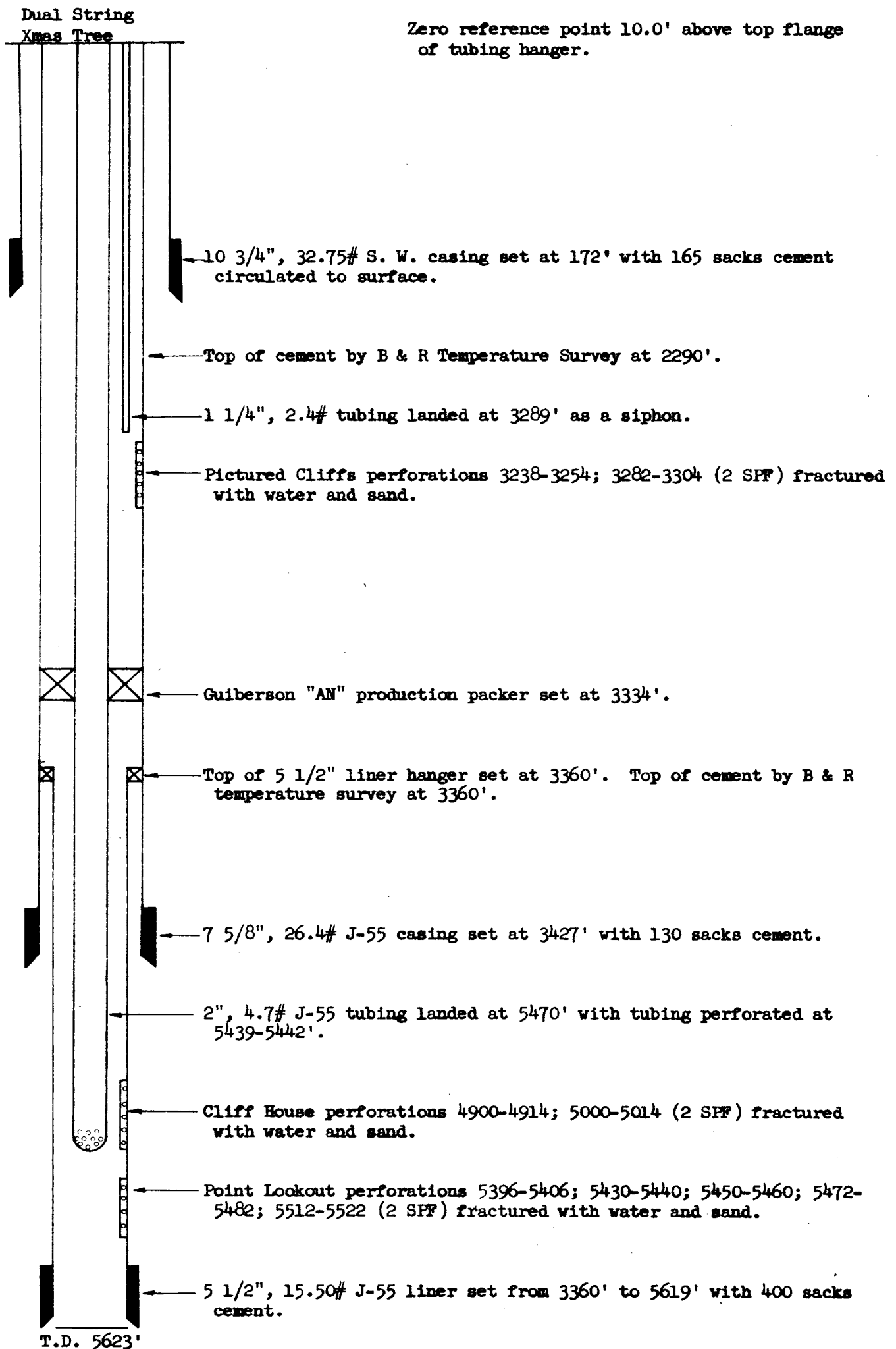
A. T. Fry

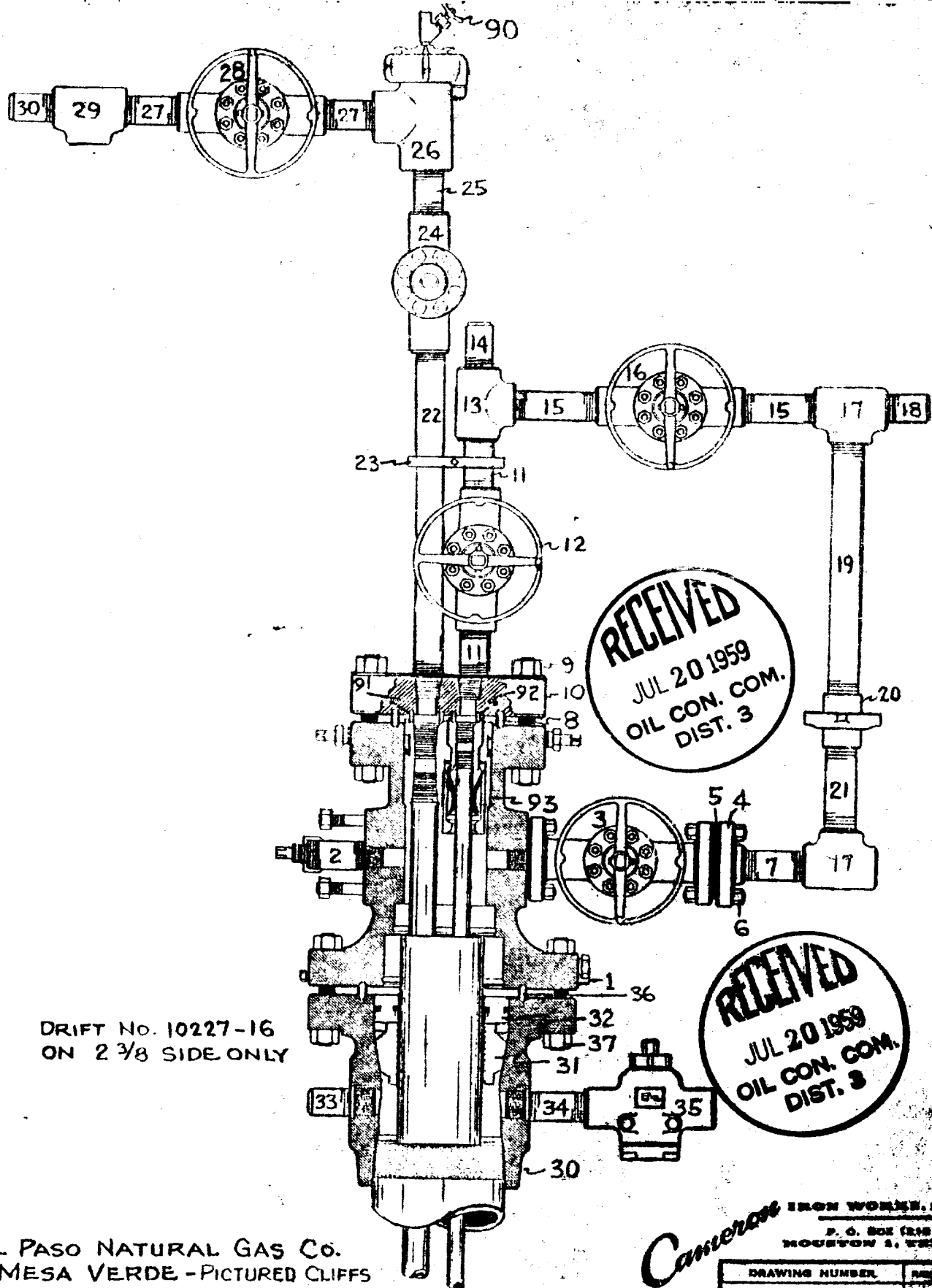
Subscribed and sworn to before me this 14th day of
July, 1959.

Paul MacLeod
Notary Public in and for San Juan
County, New Mexico

My commission expires February 24, 1960.

Schematic Diagram of Dual Completion
El Paso Natural Gas Co. San Juan 28-6 Unit No. 92 (PM)
NE/4 Section 2, T-27-N, R-6-W

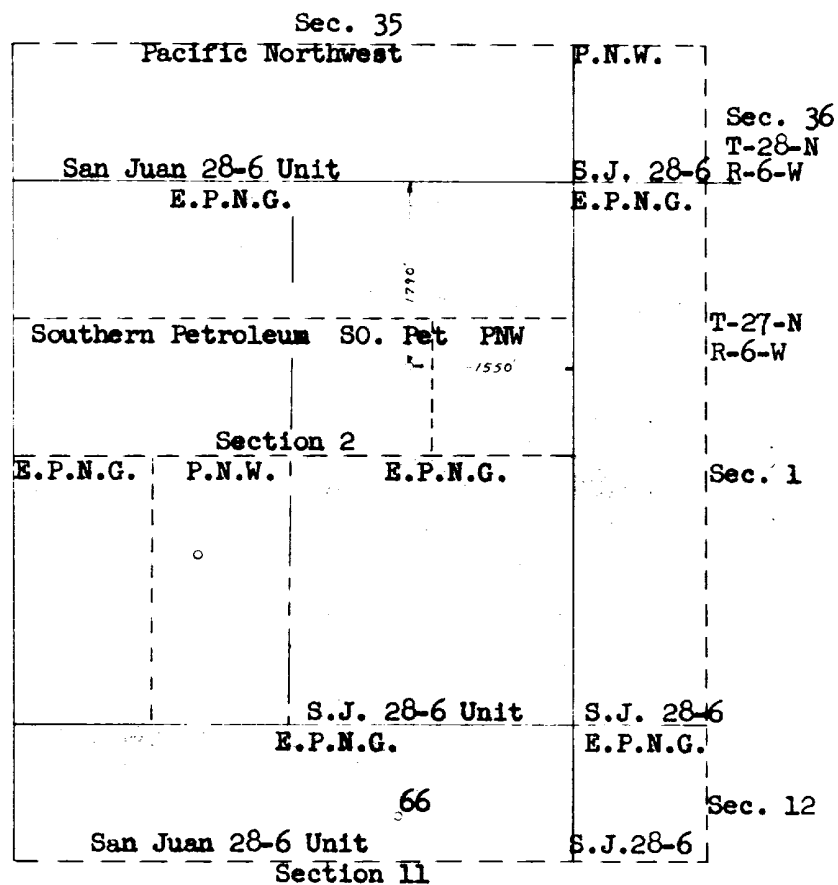




DRAWN BY <u>E. H.</u>	DATE <u>3-17-59</u>	WORKING PRESSURE <u>2,000</u> #	DRIFT NO. _____
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DRAWING NUMBER	REVISION
916015	A

Plat showing Location of Dually Completed
El Paso Natural Gas Co. San Juan 28-6 Unit No. 92 (PM)
and Offset Acreage



EL PASO NATURAL GAS COMPANY
 EL PASO, TEXAS

OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **June 23, 1959**

Operator El Paso Natural Gas		Well San Juan 28-6 No. 92 (M)	
Location 1790N, 1550E; 2-27-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Floor Blanco	
Casing Diameter 7-5/8	Set At, Feet 3427	Tubing Diameter 2"	Set At, Feet 5460
Pay Zone From 4900	To 5482	Total Depth 5621 c/o 5531	Shut In: 6/13/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, inches .75	Choke Constant, C 12.365	5-1/2 liner 3360 - 5619
Shut-In Pressure, Casing, PSIG 968 (PC)	PSIA 976	Days Since 10
Flowing Pressure, P, PSIG 261	PSIA 273	Shut-In Pressure, Tubing, PSIG 1045 (MV)
Temperature, T, F 71	F .75	Working Pressure, Pw, PSIG Calc. 540
		Flow From Tables 1.030
		Gravity .703

Initial SIPT (PC) = 964 psig

Final SIPC (PC) = 969 psig

Packer at 3334

CHOKE VOLUME = $Q = C \times P_1 \times F_1 \times F_2 \times F_3$

$$Q = 12.365 \times 273 \times .9896 \times .9258 \times 1.030$$

3185

MCF/D

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

$$Aof = \left(\frac{1117249}{825649} \right)^n$$

$$1.3531^{.75} \times 3185 = 1.2548 \times 3185$$

Aof = 3997

MCF/D

TESTED BY **M. W. Rischard**WITNESSED BY **Fred Cook, N.M.O.C.C.**

Lewis D. Galloway
L. D. Galloway

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DUAL COMPLETION

DATE June 30, 1959

Operator El Paso Natural Gas		Lease San Juan 28-6 No. 92 (P)	
Location 1790N, 1550E; 2-27-6		County Rio Arriba State New Mexico	
Formation Pictured Cliffs		Section South Blanco	
Casing Diameter 7-5/8	Set At Feet 3427	Tubing Diameter 1-1/4	Set At Feet 3279
Pay Zone From 3238	To 3304	Initial Depth 5621 c/o 5531	Shut In: 6/13/59
Stimulation Method Sand Water Frac.		Flow Through Casing X	

Choke Size, Inches .75		Choke Constant, C 12.365		5-1/2 liner 3360 - 5619	
Shut-In Pressure, Casing, PSIG 983	PSIA 995	Choke Number 7	Water Pressure, Tubing, PSIG 984	PSIA 996	
Flowing Pressure, P, PSIG 93	PSIA 105		Working Pressure, Pw, PSIG 97	PSIA 109	
Temperature, T, F 59			Flow From Tubing 1.009	Gravity .670	

Initial SIPT (MV) = 1054 psig
Final SIPT (MV) = 1056 psig

Packer at 3334

CHOKE VOLUME: $Q = C \times P_r \times F \times F_g \times F_v$

$$Q = 12.365 \times 105 \times 1.0010 \times .9463 \times 1.009 = 1241 \text{ MCF/D}$$

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

$$Aof = \left(\frac{992016}{980135} \right)^n = 1.0121^{.85} 1241 = 1.0103 \times 1241$$

$$Aof = 1254 \text{ MCF/D}$$

TESTED BY **M. W. Rischard**

WITH USER BY **Fred Cook, N.M.O.C.C.**

Lewis D. Galloway
L. D. Galloway