

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

1-4-60

DATE _____

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

RE: Proposed NSP _____

Proposed NSL _____

Proposed NFO _____

Proposed DC _____

Gentlemen:

I have examined the application dated 12-22-59
for the EPNG SJV-27-5 #47 K-18-27-5
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Yours very truly,

Emory C. Arnold
OIL CONSERVATION COMMISSION

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Blanco M.V. & So. Blanco P.C. Ext.		County Rio Arriba	Date December 22, 1959
Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit	Well No. 47 (HM)
Location of Well K	Unit 18	Section 27N	Range 5N

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. **DC-821** ; Operator, Lease, and Well No.:

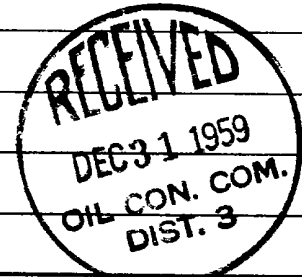
3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Pictured Cliffs	Mesa Verde
b. Top and Bottom of Pay Section (Perforations)	3210-3278	5376-5502 (Point Lookout)
c. Type of production (Oil or Gas)	Gas	Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing

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 Co. is San Juan 27-5 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 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, 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
October 14, 1959, I was called to the location of the El Paso Natural
Gas Company San Juan 27-5 Unit No. 47 (FM) Well located in the NESW/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 "AG" Production Packer was set in this well at 3295 feet
in accordance with the usual practices and customs of the industry.

A. T. Fry

Subscribed and sworn to before me this 23rd day of December,
1959.

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

My commission expires February 24, 1960.



PLAT SHOWING LOCATION OF DUALY COMPLETED
El Paso Natural Gas Co. San Juan 27-5 Unit No. 47 (PM)
and Offset Acreage

T-27-N
R-5-W

7
T-27-N
R-6-W

Sec. 12	E.P.N.G.	Section 7 E.P.N.G. 46 (PM)
	28-6 Unit E.P.N.G.	San Juan 27-5 Unit E.P.N.G.
Sec. 13		Section 18
	28-6 Unit T.F. Harrington	47 (PM)
Sec. 24	28-6 Unit T.F. Harrington	San Juan 27-5 Unit E.P.N.G.
	28-6 Unit	San Juan 27-5 Unit Section 19



EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE

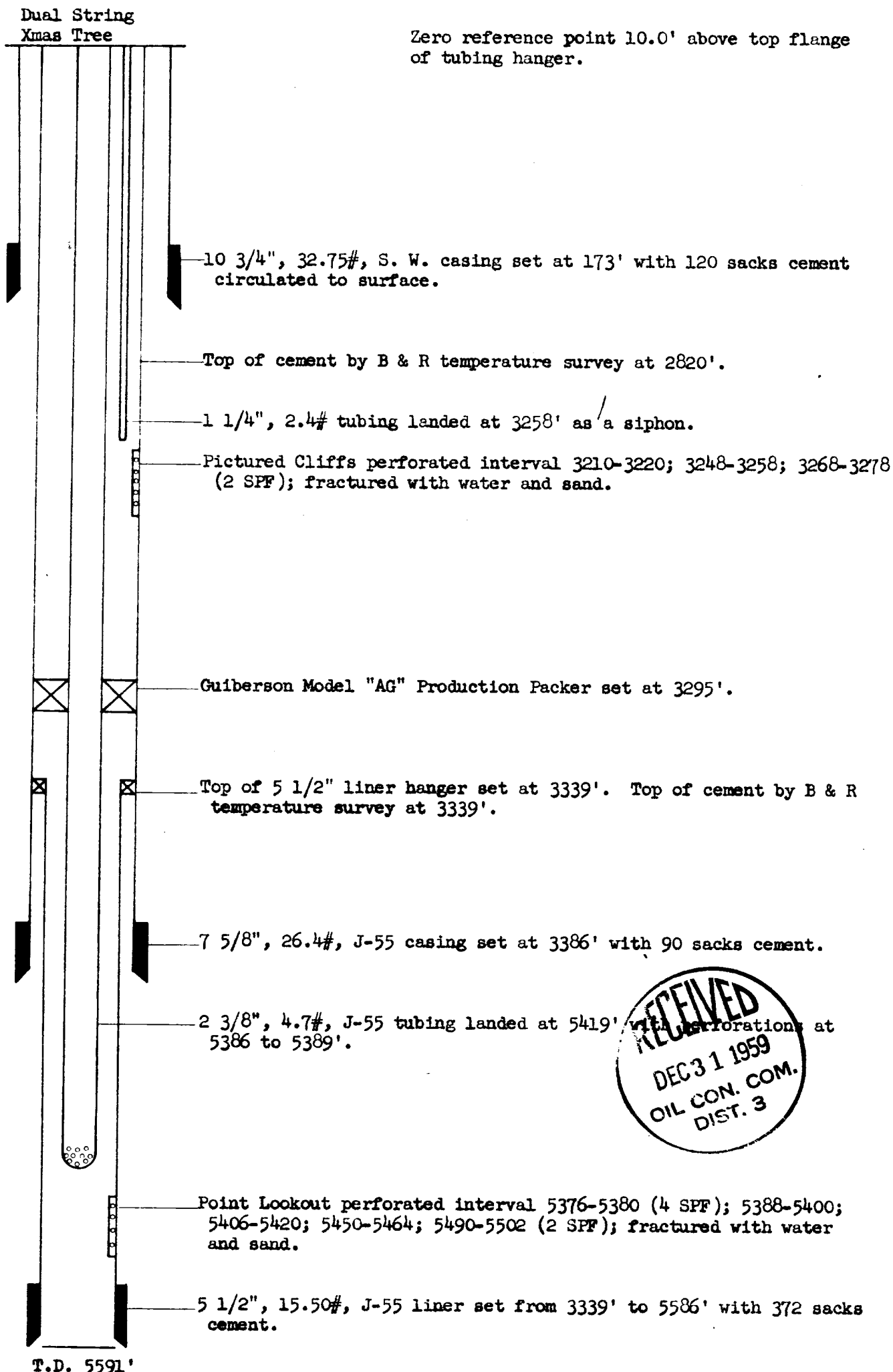
DATE

No.

DRAWN BY

CHECKED BY

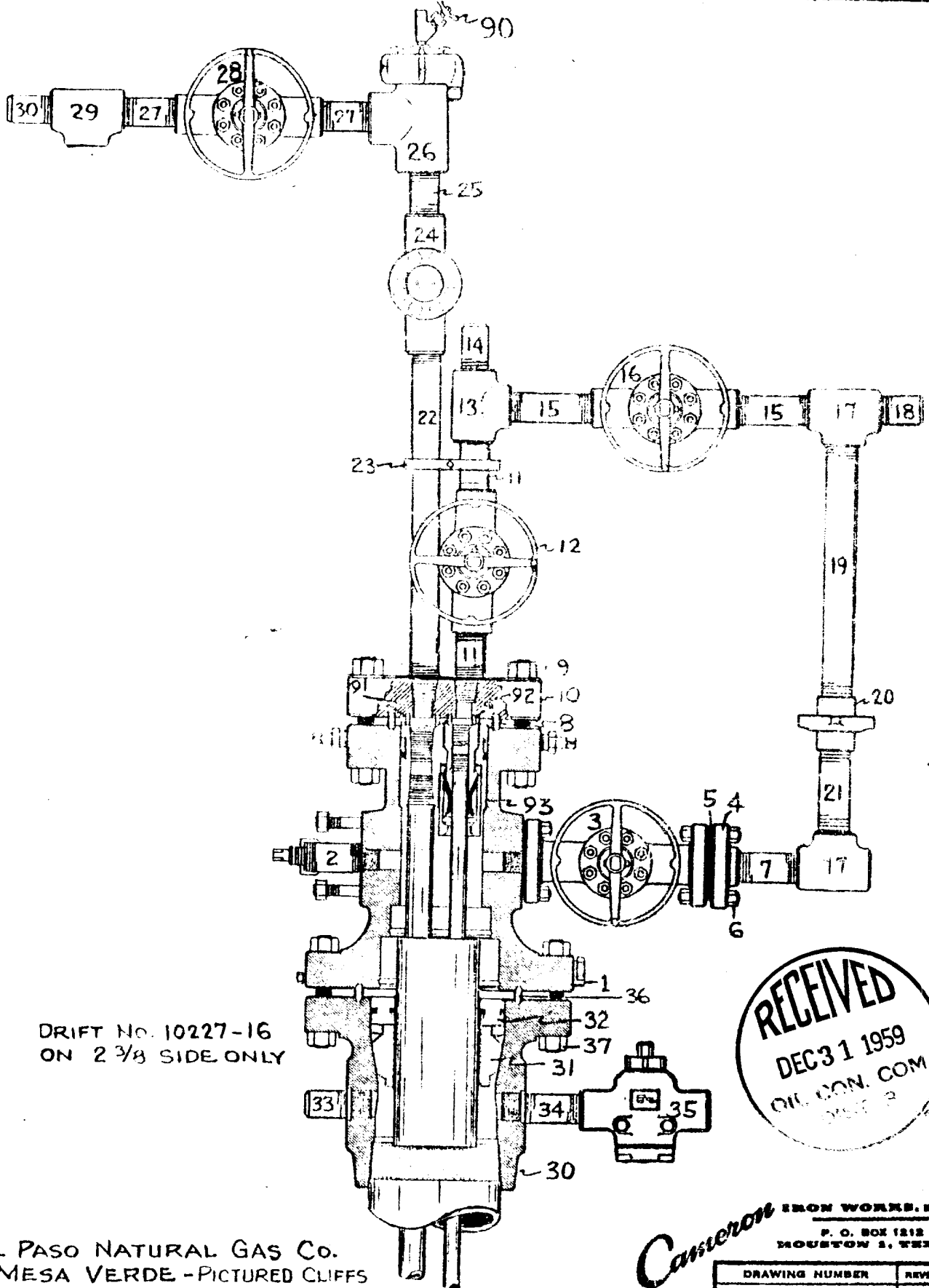
SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. San Juan 27-5 Unit No. 47 (PM)
SW/4 Section 18, T-27-N, R-5-W



Zero reference point 10.0' above top flange of tubing hanger.



T.D. 5591'



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

RECEIVED
DEC 31 1959
OIL CON. COM.
HOUSTON 2, TEXAS

EL PASO NATURAL GAS CO.
MESA VERDE - PICTURED CLIFFS

Cameron IRON WORKS, INC.
P. O. BOX 1212
HOUSTON 2, TEXAS

DRAWN BY	DATE	WORKING PRESSURE	DRIFT NO.	DRAWING NUMBER	REVISION
E. H.	3-17-59	2,000 #		916015	"A"

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **November 24, 1959**

Operator El Paso Natural Gas Company		Lease San Juan 27-5 No. 47 (P) OWWO	
Location 15008, 1750W; 18-27-5		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 7-5/8	Set At: Feet 3376	Tubing: Diameter 1-1/4	Set At: Feet 3248
Pay Zone: From 3210	To 3278	Total Depth c/o 5491	Shut In: 11/10/59
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant 12.365	
Shut-In Pressure, Casing 922 (P)	PSIG - 12 = PSIA 934	Days Shut-In 14	Shut-In Pressure, Tubing 922 (P)
Flowing Pressure: P 106	PSIG - 12 = PSIA 118		Working Pressure: P _w 111
Temperature: T 57	F	n = .85	Fpv (From Tables) 1.009
			Gravity .629

Initial SIPT (MV) = 808 psig

Final SIPT (MV) = 810 psig

Packer at 3295

CHOKE VOLUME = $Q = C \times P_c \times F_c \times F_g \times F_{pv}$

$$Q = 12.365 \times 118 \times 1.0029 \times .9798 \times 1.009 = 1447 \text{ MCF/D}$$

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

$$Aof \left(\frac{872356}{857227} \right)^n = 1.0176^{.85} \times 1447 = 1.0149 \times 1447$$

$$Aof = 1469 \text{ MCF/D}$$

TESTED BY **S. V. Roberts**

WITNESSED BY _____

L. D. Galloway
 L. D. Galloway *L.H.K.*

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 17, 1959

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit 47 (M) OWWO	
Location 1500E, 1750W; 18-27-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5-1/2	Set At: Feet 5586	Tubing: Diameter 2	Set At: Feet 5423
Pay Zone: From 5376	To 5502	Total Depth: c/o 5544	Shut In: 11/10/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke size, inches .75	Choke Constant 12.365	Shut-In Pressure, Casing 903 (PC)	PSIG - 12 - PSIA 915	Days Shut-In 19	Shut-In Pressure, Tubing 801 (MV)	PSIG - 12 - PSIA 813
Flowing Pressure, P 196 (MV)	PSIG - 12 - PSIA 208	Working Pressure, P _w Calc.	PSIG - 12 - PSIA 413	Temperature, T 57	F _{pv} (From Tables) 1.024	Gravity .702

Initial SIPT (PC) = 903 psig

Packer at 3295

Final SIPC (PC) = 907 psig

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_g \times F_{pv}$

$$Q = 12.365 \times 208 \times 1.0029 \times .9258 \times 1.024 = 2445 \text{ MCF/D}$$

$$\text{OPEN FLOW } A_{of} = Q \left(\frac{P_c^2}{P_w^2} \right)^n$$

$$A_{of} = \left(\frac{660969}{490400} \right)^n$$

$$1.3478^{.75} \times 2445 = 1.2505 \times 2445$$

$$A_{of} = 3057 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____

Lewis D. Galloway
L. D. Galloway