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

DATE 9-2-60

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 8-24-60

for the EPNG Vlau #5 M-5-27-8
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approved

Yours very truly,

Emery C. Arnold

OIL CONSERVATION COMMISSION

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO 7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name			County		Date
Blanco Mesa Verde & Wildcat Dakota			San Juan		August 24, 1960
Operator		Lease			Well No.
El Paso Natural Gas Company		Filen			5 (MD)
Location of Well	Unit	Section	Township		Range
	M	5	27N		9W

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 X
2. If answer is yes, identify one such instance: Order No. _____ ; Operator, Lease, and Well No.:

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Mesa Verde	Dakota
b. Top and Bottom of Pay Section (Perforations)	4710-4944	6782-6936
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.

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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. M. Smith, being first duly sworn upon my oath depose and say as follows:

I am an employee of El Paso Natural Gas Company and that on June 19, 1960, I was called to the location of the El Paso Natural Gas Company Filan No. 5 (MD) Well located in the SWSW/4 of Section 5, Township 27 North, Range 8 West, N.M.P.M., for advisory service in connection with installation of a production packer. In my presence, a Baker Model "D" Production Packer was set in this well at 6604 feet in accordance with the usual practices and customs of the industry.

A. M. Smith

Subscribed and sworn to before me this 25th day of August, 1960.

Laurence Davis Hall

Notary Public in and for San Juan County, New Mexico

My Commission Expires 6-21-61

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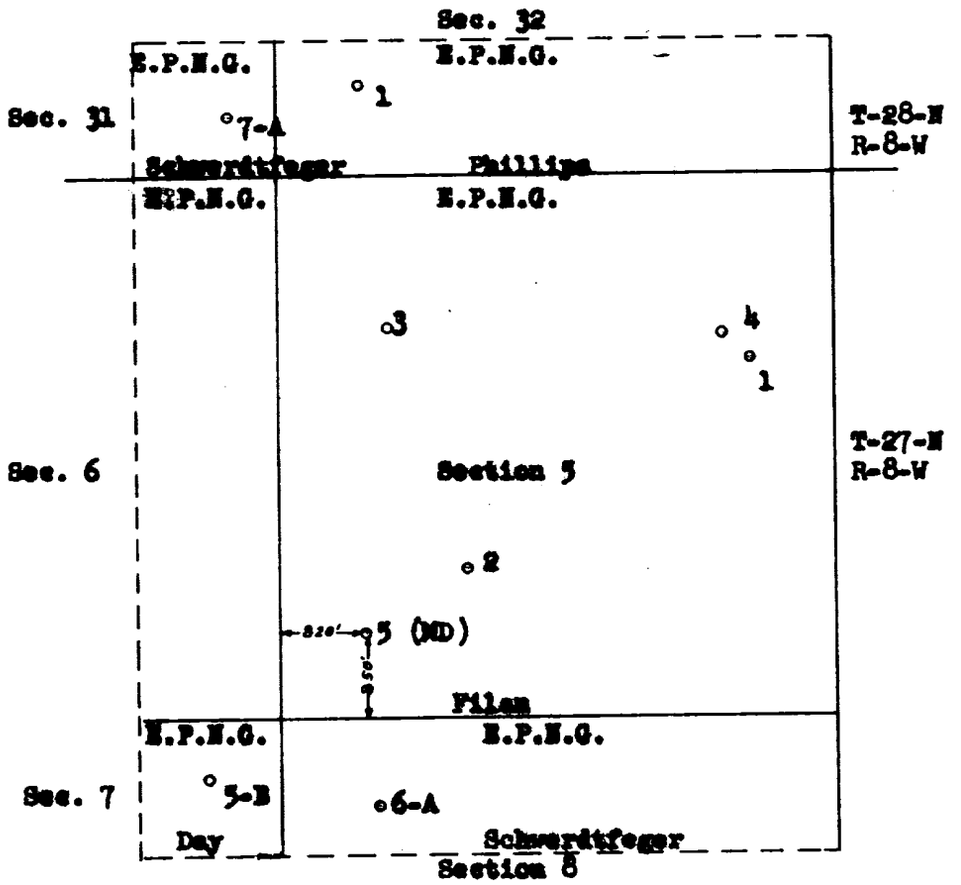
Plat Showing Location of Dually Completed El Paso Natural Gas Co. Filan No. 5 (MD) and Offset Acreage

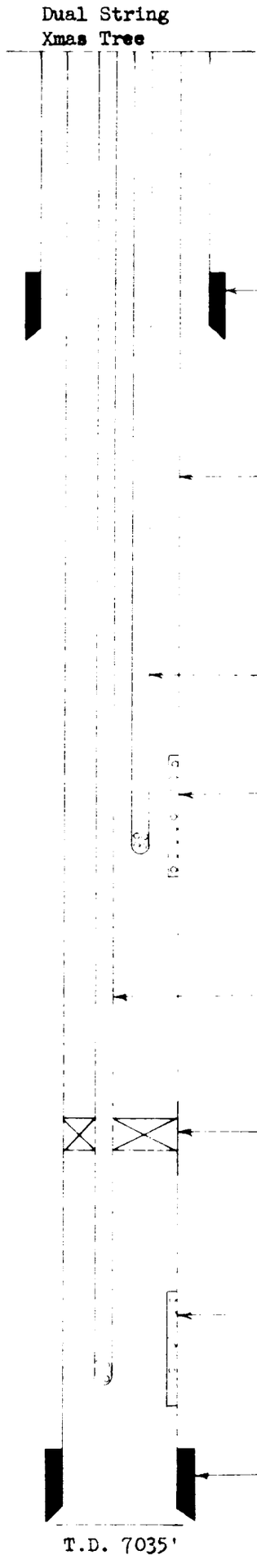


EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE	DATE	No.
DRAWN BY	CHECKED BY	

FORM 7-132R (10-56)

Schematic Diagram of Dual Completion
El Paso Natural Gas Co. Final No. 5 (MD)
SW/4 Section 5, T-27-N, R-8-W



Zero reference point 10.0' above top flange of tubing hanger

13 3/8", 48#, H-40 & J-55 casing set at 338' with 350 sacks cement circulated to surface.

Top of cement at 1900'.

2 3/8", 4.7#, J-55 tubing landed at 4834' with perforations at 4801-4803'.

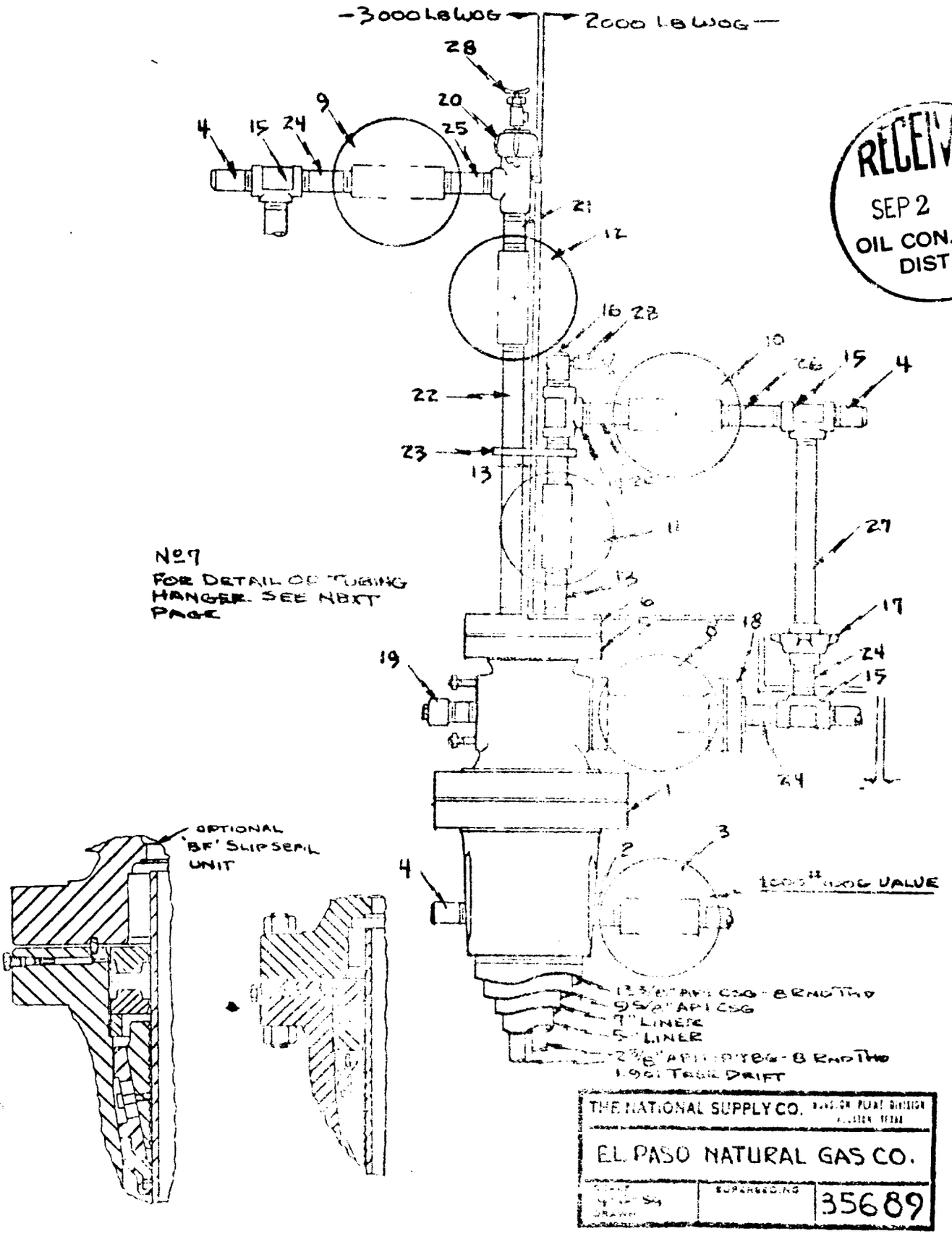
Point Lookout perforations 4710-4728; 4736-4760; 4772-4782; 4810-4820

2 3/8", 4.7#, J-55 tubing landed at 6898' with perforations at 6861-6864'.

Baker Model "D" Production Packer set at 6604'.

Dakota perforations 6782-6800; 6848-6854; 6862-6866; 6878-6898; fractured with water and sand.

7", 23#, J-55 & N-80 casing set at 7029'. First stage cemented with 150 sacks cement. Two stage collar set at 4957'. Cemented second stage with 230 sacks cement. Third stage collar set at 2587'. Cemented third stage with 100 sacks cement.



No 7

FOR DETAIL OF TUBING HANGER SEE NEXT PAGE

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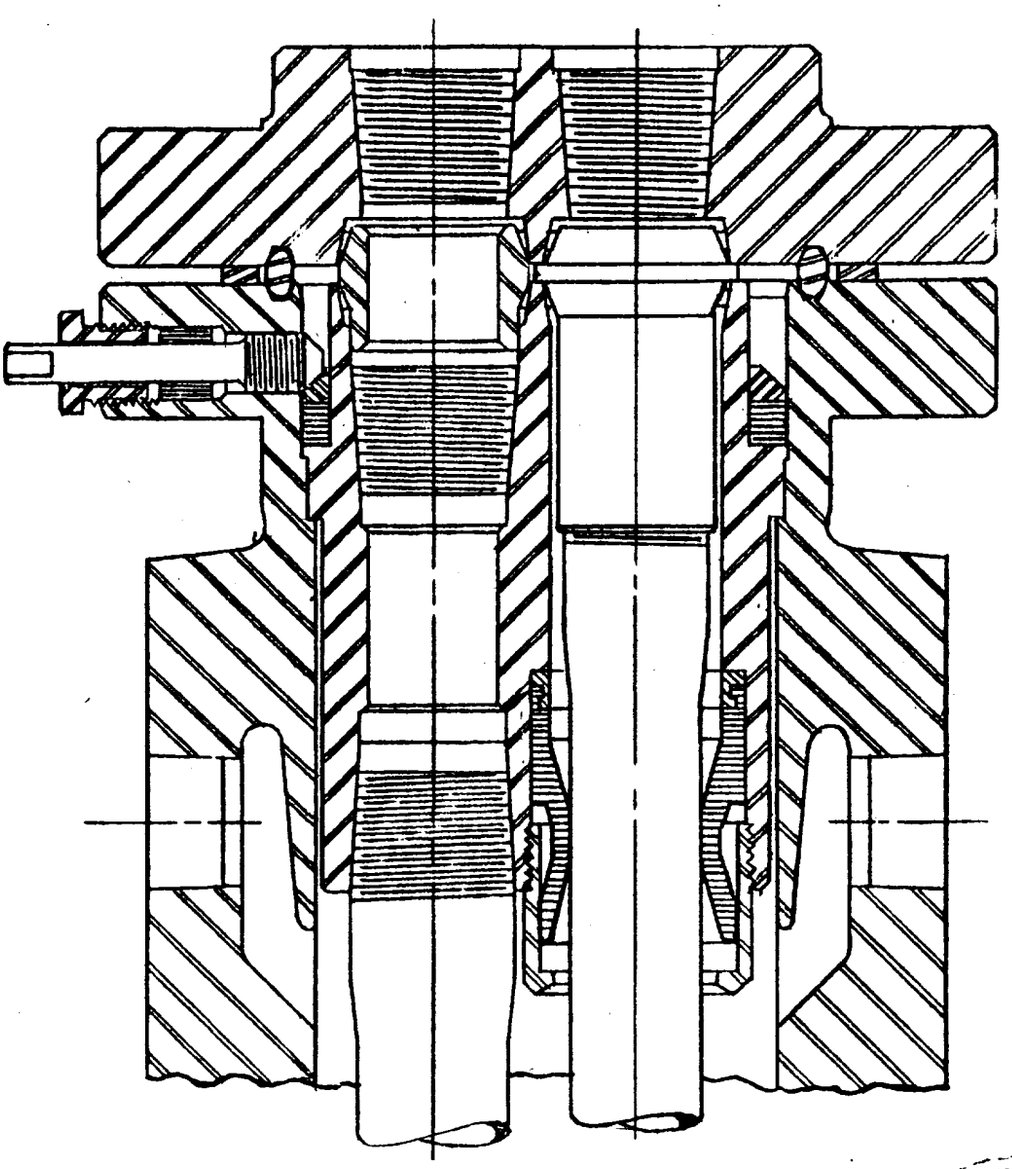
THE NATIONAL SUPPLY CO.		
EL PASO NATURAL GAS CO.		
	SUPERSEDING	35689



FORM 23-75 [illegible]

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION DATE July 11, 1960

Operator: El Paso Natural Gas Company		Lease: Pilan No. 5 (M)	
Location: 850S, 820W; Sec. 5, 27N, 8W		County: San Juan	State: New Mexico
Formation: Mesa Verde		Pool: Blanco Mesaverde	
Casing: Diameter: 7"	Set At: Feet: 7028	Tubing: Diameter: 2" Hydril	Set At: Feet: 4821
Pay Zone: From: 4710	To: 4844	Total Depth: 7035 c/o 6930	Shut In 6/20/60
Stimulation Method: Sand Water Frac.		Flow Through Casing:	Flow Through Tubing: X

Choke Size, Inches: .75		Choke Constant: C: 12.365			
Shut-in Pressure, Casing, PSIG: 964	12 = PSIA: 976	Days Shut-In: 21	Shut-in Pressure, Tubing PSIG: 964	12 = PSIA: 976	
Flowing Pressure: P PSIG: 115	12 = PSIA: 127		Working Pressure: P_w PSIG: 342	12 = PSIA: 354	
Temperature: T 69 F: Ft = .9915	n: .75		Fpv (From Tables): 1.015	Gravity: .733	Fg = .9066

Initial SIPT = 2167 psig (Dk)
Final SIPT (Dk) = 2177 psig

Baker Model "D" Prod. Packer at 6602

CHOKE VOLUME: $Q = C \times P_t \times F_t \times F_g \times F_{pv}$

$Q = 12.365 \times 127 \times .9915 \times .9066 \times 1.015 = 1433$ MCF/D

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

Aof $\left(\frac{952576}{827260} \right)^n$ $1.1514^{.75} \times 1433 = 1.1115 \times 1433$

Aof 1593 MCF/D

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TESTED BY: Tom Grant

WITNESSED BY:

Lewis D. Galloway

L. D. Galloway

FORM C-75 (REV. 11-58)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION DATE **July 1, 1960**

Operator: **El Paso Natural Gas Co.**		Lease: **Filan No. 5 (D)**	
Location: **850S, 820W; Sec. 5-27N-8W**		County: **San Juan**	State: **New Mexico**
Formation: **Dakota**		Pool: **Undesignated**	
Casing: Diameter **7"**	Set At: Feet **7028**	Tubing: Diameter **2"**	Set At: Feet **6878**
Pay Zone: From **6782**	To **6898**	Total Depth: **7035 c/o 6930**	Shut In **6/20/60**
Stimulation Method: **Sand Water Frac.**		Flow Through Casing	Flow Through Tubing **X**

Choke Size, Inches: **.75**	Choke Constant: C **12.365**		
Shut-In Pressure, Casing: **(MV) 950** PSIG + 12 = PSIA **962**	Days Shut-In **11**	Shut-In Pressure, Tubing: **(D) 2166** PSIG + 12 = PSIA **2178**	
Flowing Pressure: P **(DTbg) 271** PSIG + 12 = PSIA **283**		Working Pressure: Pw **Calc.** PSIG + 12 = PSIA **604**	
Temperature: T **72** F	n **.75**	Fpv (From Tables) **1.022**	Gravity **.600** Fg **1.000**

Initial SIPT (MV) = 952 psig
Final SIPC (MV) = 958 psig

Baker model "D" Prod. Pkr. at 6602'

CHOKE VOLUME Q = C x P_t x F_t x F_g x F_{pv}

Q = **12.365 x 283 x .9887 x 1.000 x 1.022** = **3536** MCF D

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

Aof $\left(\frac{4743684}{4378868} \right)^n$ = $1.0833^{.75}$ x 3536 = 1.0618 x 3536

Aof = **3755** MCF D

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TESTED BY: **W. D. Dawson**

WITNESSED BY:

Lewis D. Galloway

L. D. Galloway