

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

DATE 4-12-60

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 4-8-60
for the EPNG Schwendtger #1-A (CPM) M-36-29W-9W
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

OIL CONSERVATION COMMISSION
Alvin J. Gendrich

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 San Juan	Date April 8, 1960
Operator El Paso Natural Gas Company		Lease Schwerdtfeger	Well No. 1-A (FM)
Location of Well M	Unit 36	Township 28N	Range 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
2. If answer is yes, identify one such instance: Order No. **DC-509** ; Operator, Lease, and Well No.:

El Paso Natural Gas Company Schwerdtfeger No. 10-A (FM)

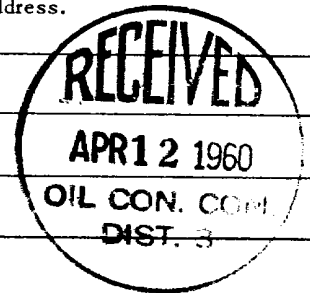
3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Pictured Cliffs	Mesa Verde
b. Top and Bottom of Pay Section (Perforations)	2099-2138	4356-4470 (Point Lookout)
c. Type of production (Oil or Gas)	Gas	Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing

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

- 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.
- 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.
- 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.*
- 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.

Pan American Petroleum Corporation, Box 487, Farmington, New Mexico



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 **4-8-60**

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.

OR'GINAL 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, Mack M. Mahaffey, being first duly sworn upon my oath depose and say as follows:

I am an employee of Baker Oil Tools, Inc., and that on December 14, 1959, I was called to the location of the El Paso Natural Gas Company San Juan 28-5 Unit No. 35 (MD) Well located in the SWSW/4 of Section 19, Township 28 North, Range 5 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 7503 feet in accordance with the usual practices and customs of the industry.

Mack M. Mahaffey

Subscribed and sworn to before me this 8th day of April, 1960.

Lawrence Ellis Hall
Notary Public in and for San Juan County,
New Mexico

My commission expires February 24, 1960.

Handwritten text, mostly illegible due to blurriness. Appears to be a list or series of notes.

~~Handwritten signature or name, crossed out with multiple diagonal lines.~~

Handwritten text at the bottom of the page, possibly a date or reference.

Handwritten text at the very bottom of the page.

PLAT SHOWING LOCATION OF DUALY COMPLETED
 El Paso Natural Gas Co. Schwerdtfeger No. 1-A (PM)
 and Offset Acreage

T-28-N
 R-9-W

Section 25

Sec. 26	E.P.N.G.	E.P.N.G.	Pan American
	E.P.N.G.	E.P.N.G.	Pan American
Sec. 35	• 1-A		Jeanepah #1 31
		1-A (PM)	• 1
Sec. 2	Hancock E.P.N.G.	Schwerdtfeger E.P.N.G.	Candelario
	• 1		

T-27-N
 R-9-W

Section 1

EL PASO NATURAL GAS COMPANY
 EL PASO, TEXAS

SCALE

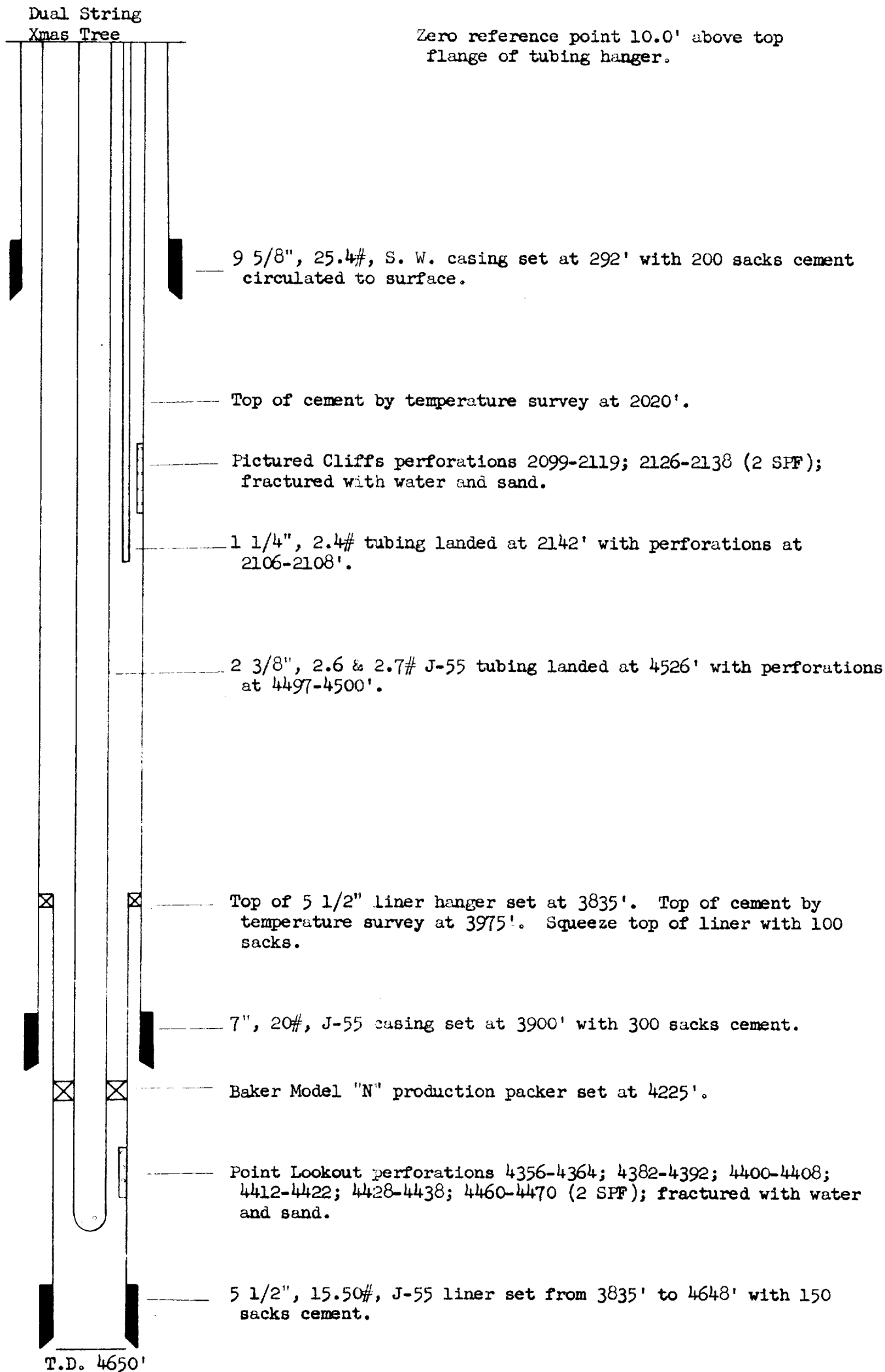
DATE

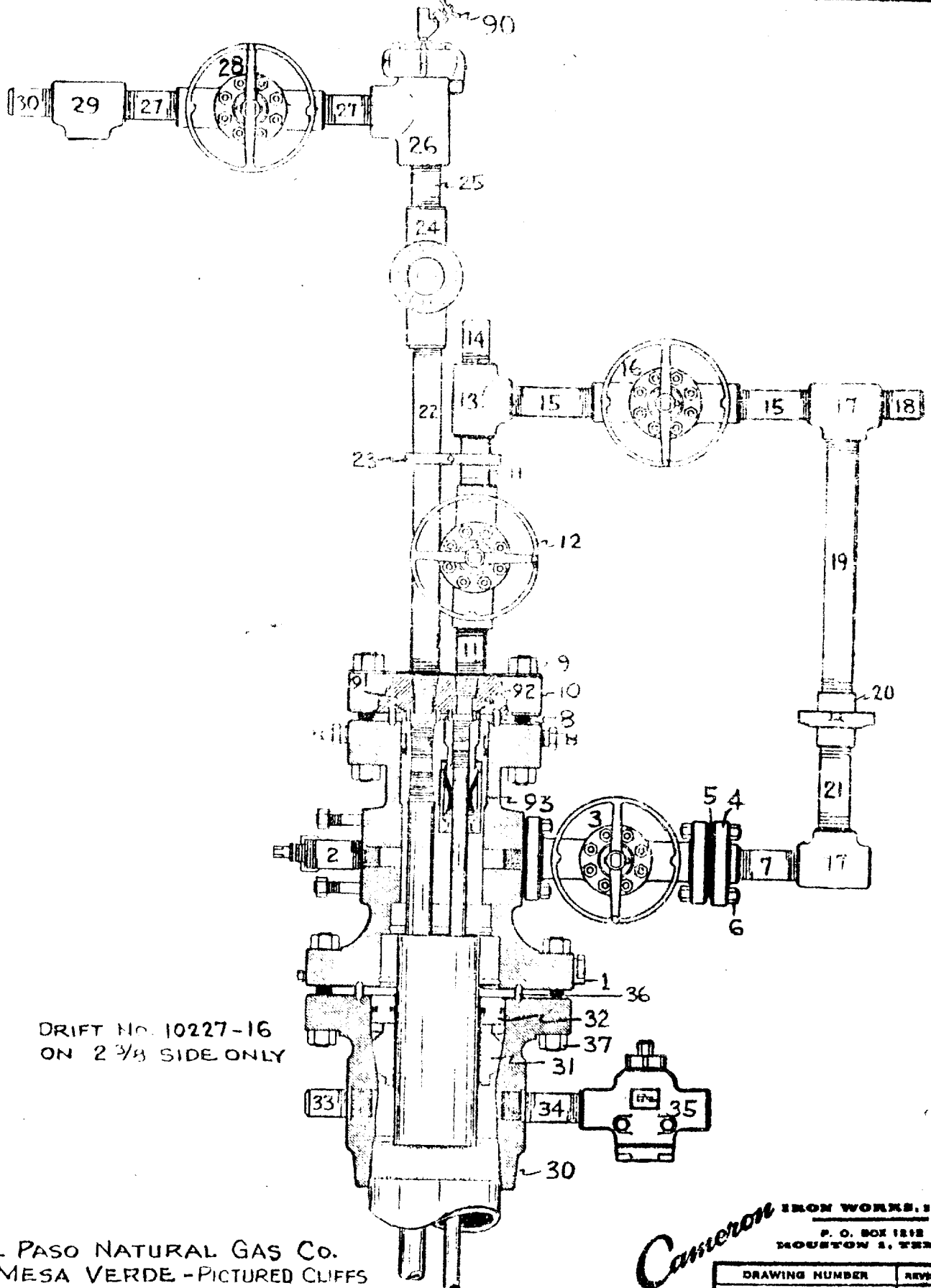
No.

DRAWN BY

CHECKED BY

SCHEMATIC DIAGRAM OF DUAL COMPLETION
 El Paso Natural Gas Co. Schwerdtfeger No. 1-A (FM)
 SW/4 Section 36, T-28-N, R-9-W





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

EL PASO NATURAL GAS Co.
MESA VERDE - PICTURED CLIFFS

Cameron IRON WORKS, INC.
P. O. BOX 1212
HOUSTON 1, 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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OPEN FLOW TEST DATA

DUAL COMPLETION

March 30, 1960

El Paso Natural Gas Company	Schwerdtfeger No. 1-A (P) OWWO
990S, 990W; 36-28-9	San Juan State New Mexico
Pictured Cliffs	South Blanco
7 3900	1-1/4 2132
2099 2138	4650 x/o 4614 3/8/60
Sand Water Frac.	X

.75	12.365		
761	773	21	761 773
367	379		380 392
66 .9943	.85		1.035 Est .642 .9682

Initial SIPT (M) = 993 psig
 Final SIPT (M) = 995 psig

Baker Model "N" packer at 4225

$$12.365 \times 379 \times .9943 \times .9682 \times 1.035$$

4669

597529
 443865

$$1.3461^{.85} \times 4669 = 1.2875 \times 4669$$

6011

D. Mortensen

Checked By W. D. Dawson

Lewis D. Galloway
 L. D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **March 22, 1960**

Operator: El Paso Natural Gas	Lease: Schwerdtfeger No. 1-A (M) OWWO
Location: 990S, 990W; 36-28-9	County: San Juan State: New Mexico
Formation: Mesa Verde	Pool: Blanco
Casing Diameter: 5-1/2 Set At Feet: 4648	Tubing Diameter: 2 Set At Feet: 4516
Pay Zone: From: 4356 To: 4470	Total Seals: 4650 c/o 4614 Shut In: 3/8/60
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 3835-4648
Shut-in Pressure, Casing, (PC) 740	PSIG 12 PSIA 752	Day Length: 14
Flowing Pressure, P: 295	PSIG 12 PSIA 307	Shut-in Pressure, Tubing (MV) 988
Temperature: T 70 F		Working Pressure, P _w Calc. 561
		PSIG 12 PSIA 573
		Sp. Grav. Tubing: 1.034
		Gravity: .712 Eq. .9193

Initial SIPC (PC) = 740 psig
Final SIPC (PC) = 741 psig

Baker "N" packer at 4225

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_g \times F_L$

$Q = 12.365 \times 307 \times .9905 \times .9193 \times 1.034$

3574

MCF D

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

$A_{of} \left(\frac{1,000,000 - 671,671}{1,000,000 - 671,671} \right)^n$

$1.4888^{.75} \times 3574 = 1.3475 \times 3574$

A_{of}

4816

MCF D

PREPARED BY

S. V. Roberts

WITNESSED BY

Lewis D. Galloway
L. D. Galloway