

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

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE 6-17-60

RE: Proposed NSP _____

Proposed NSL _____

Proposed NFO _____

Proposed DC _____

Gentlemen:

I have examined the application dated 6-3-60
for the EPNG SJU Johnston State #8 L-36-27N-6W
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 South Blanco P. C. & Blanco M. V.		County Rio Arriba		Date June 3, 1960
Operator El Paso Natural Gas Company		Lease Johnston State		Well No. 9 (FM)
Location of Well L	Unit L	Section 36	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. **DC 591**; Operator, Lease, and Well No.:

El Paso Natural Gas Co. Johnston State No. 8 (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)	3308-3350	5086-5060 (Cliff House) 5512-5576 (Point Lockout)
c. Type of production (Oil or Gas)	Gas	Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing

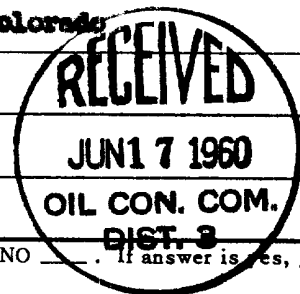
4. The following are attached. (Please mark YES or NO)

- 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. Plan 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.

Hubco Petroleum Company, Box 1419, Albuquerque, New Mexico

Caulkins Oil Company, 1130 First National Bank Building, Denver 2, Colorado



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 **June 3, 1960**

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, D. W. Meehan, 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 December 3, 1959, I was called to the location of the El Paso Natural Gas Company Johnston State No. 9 (PM) Well located in the NWSW of Section 36, Township 27 North, Range 6 W, N.M.P.M., for advisory service in connection with installation of a production packer. In my presence, a Baker Model "H" Production Packer was set in this well at 4923 feet in accordance with the usual practices and customs of the industry.

D. W. Meehan

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

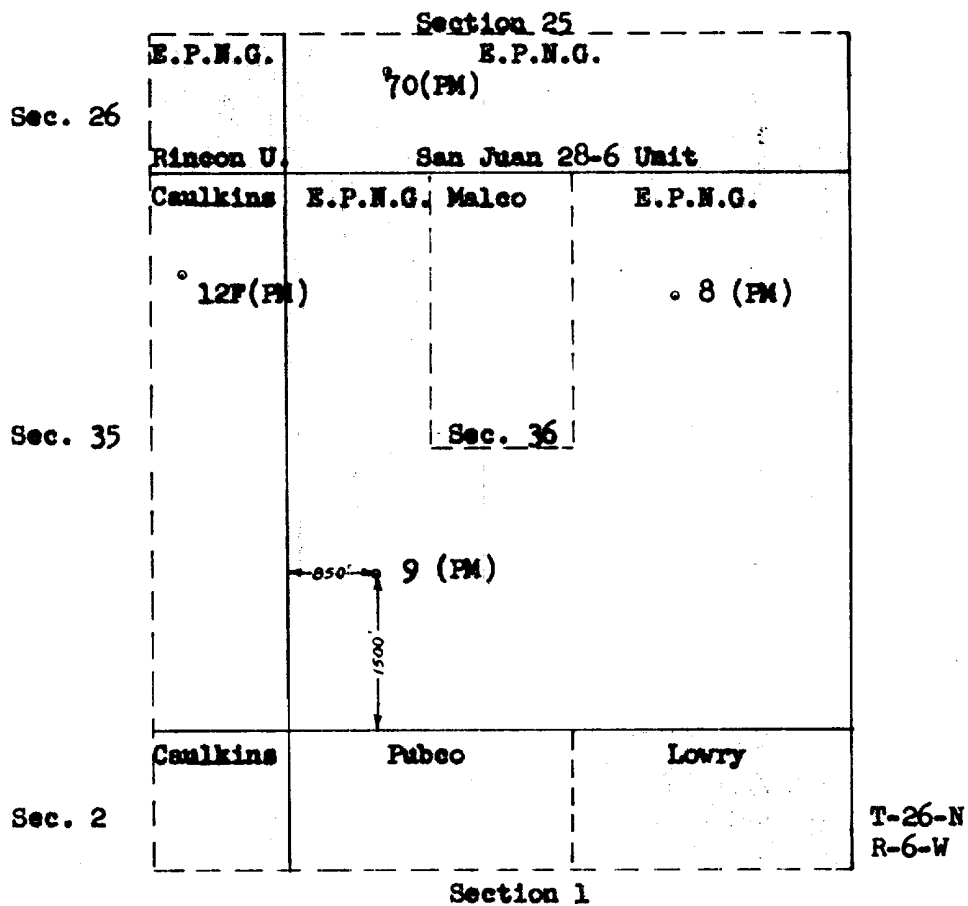
Lawrence Dean Hall
Notary Public in and for San Juan County,
New Mexico

My Commission Expires 6-21-61

My commission expires February 24, 1960.

**PLAT SHOWING LOCATION OF DUALY COMPLETED
El Paso Natural Gas Co. Johnston State No. 9 (FM)
and Offset Acreage**

T-27-N
R-6-W

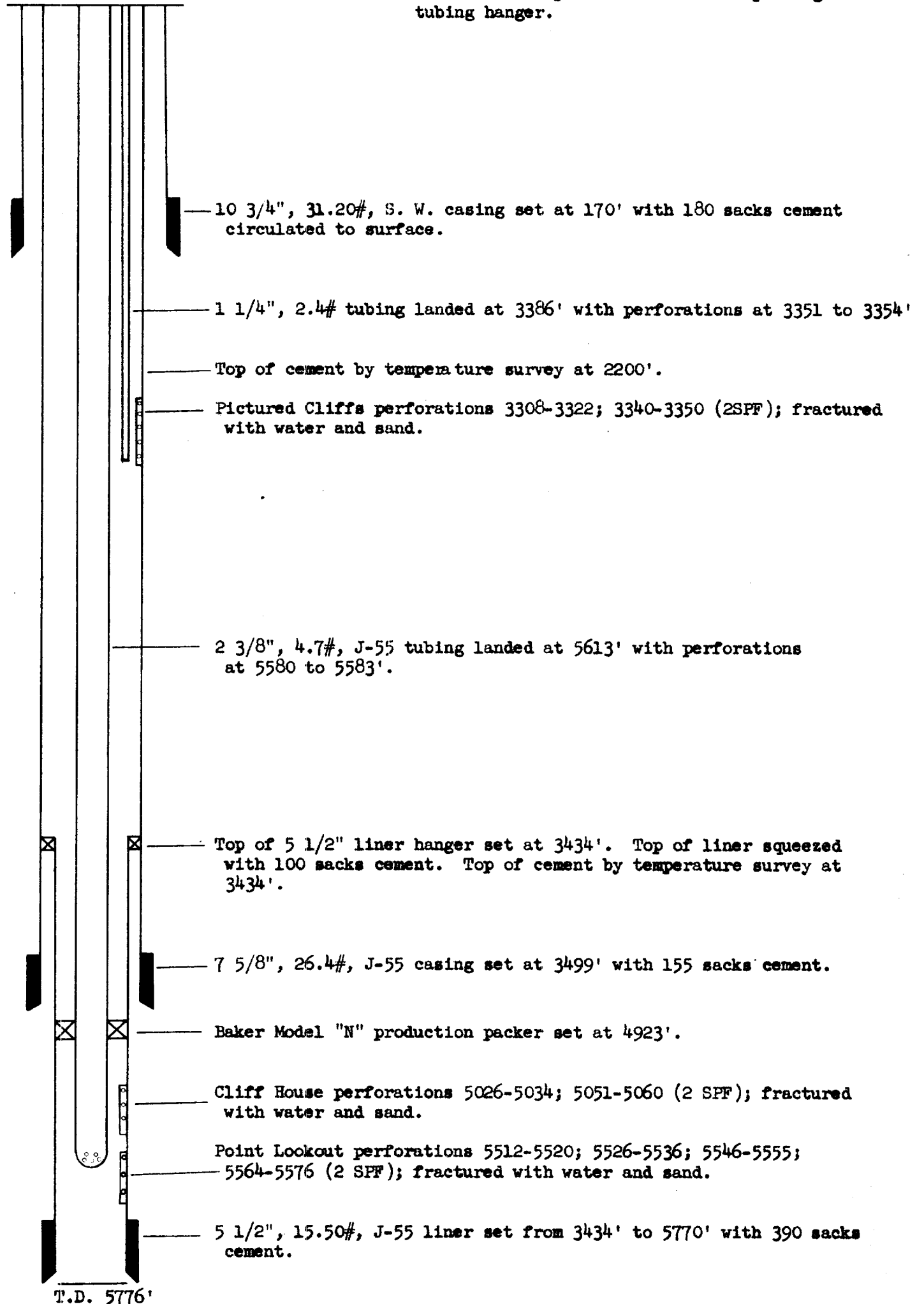


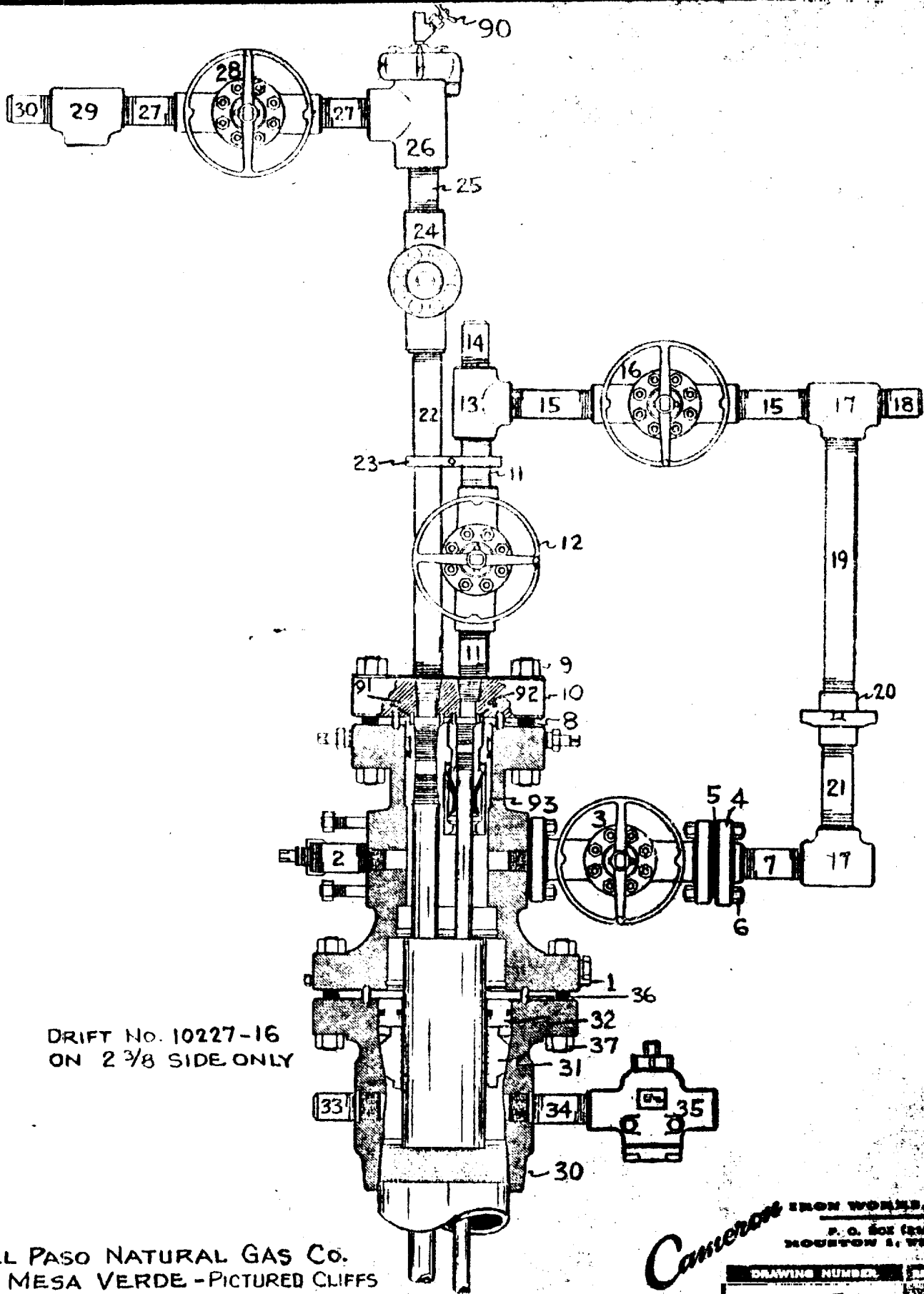
EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. Johnston State No. 9 (PM)
SW/4 Section 36, T-27-N, R-6-W

Dual String
Xmas Tree

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





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 1234
HOUSTON 1, TEXAS

DRAWING NUMBER

916015

DRAWN BY E. H.

DATE 3-17-59

WORKING PRESSURE 2,000 #

DRIFT NO.

A

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE April 27, 1960

Operator El Paso Natural Gas Company		Lease Johnston State No. 9 (P)	
Location 1500E, 850W; 36-27-6		County Rio Arriba	State New Mex.
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3499	Tubing: Diameter 1-1/4	Set At: Feet 3376
Pay Zone: From 3308	To 3350	Total Depth: 5776 o/o 5726	Shut In Re SI 3/25/60
Stimulation Method Sand Water Pres.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 1020	12 - PSIA 1032	Days Shut-In 19	Shut-In Pressure, Tubing, PSIG 1019
Flowing Pressure: P, PSIG 101	12 - PSIA 113		Working Pressure: P _w , PSIG 106
Temperature: T 56 F	F _t 1.0039		F _{pv} (From Tables) 1.009
	.85		Gravity .620
			F _g = .9837

Initial SIPT (M) = 987 psig
Final SIPT (M) = 974 psig

Packer at 4923 - Baker "H"

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

$$Q = 12.365 \times 113 \times 1.0039 \times .9837 \times 1.009 = 1392 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1065024}{1051100} \right)^n = 1.0132^{.85} \times 1392 = 1.0112 \times 1392$$

$$A_{of} = 1408 \text{ MCF/D}$$

TESTED BY **W. D. Dawson**WITNESSED BY **F. M. Clark**

Lewis D. Galloway
L. D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE

May 4, 1960

Operator El Paso Natural Gas Company	Well Name Johnston State No. 9 (M)
Location 1500S, 850W; 36-27-6	County Rio Arriba
Field Mesa Verde	State New Mexico
Completion 5-1/2	Perforations 2
Pressure 5026	Flow Rate 5776 c/o 5726
Fracture Sand Water Frac.	Test Date RSI 4/20/60
	Flow Direction X

Initial SIPT (PC) = 1010 psig	Final SIPT (PC) = 1014 psig	Packer at 4423
12.365	5-1/2 liner 3434-5770	
1022	979 (MV)	991
102	Calc.	204
1.0078	1.010	.655
.75		.9571

Initial SIPT (PC) = 1010 psig
Final SIPT (PC) = 1014 psig

Packer at 4423

Flow Rate = 5776 c/o 5726

$$12.365 \times 102 \times 1.0078 \times .9571 \times 1.010$$

1229

M.F.D.

982,081
940465

$$1.0442^{.75} \times 1229 = 1.0329 \times 1229$$

1269

M.F.D.

Jesse Goodwin

C. R. Wagner

Checked By H. L. Kendrick

Lewis D. Galloway
L. D. Galloway