

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

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE 1-23-61

RE: Proposed NSP _____

Proposed NSL _____

Proposed NFO _____

Proposed DC ✓

Gentlemen:

I have examined the application dated 1-17-61

for the EPNG 500 92-5 # 52 M-5-27N-SW
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approved

Yours very truly,

Conroy L. Lueders
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 F. C. Ext.		County Rio Arriba		Date January 17, 1961
Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit		Well No. 53 (FM)
Location of Well M	Unit 5	Section 27N	Township 5N	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-1027** ; Operator, Lease, and Well No.:

El Paso Natural Gas Co. San Juan 27-5 Unit No. 52 (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)	3472-3516	5218-5284 (Cliff House) 5662-5756 (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.



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.

OR G'NAL 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, J. J. Tillerson, 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 December 14, 1960, I was called to the location of the El Paso Natural Gas Company San Juan 27-5 Unit No. 53 (FM) Well located in the SWSW/4 of Section 5, 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 "Shorty" Production Packer was set in this well at 3677 feet in accordance with the usual practices and customs of the industry.

J. J. Tillerson

Subscribed and sworn to before me this 18th day of January, 1961.

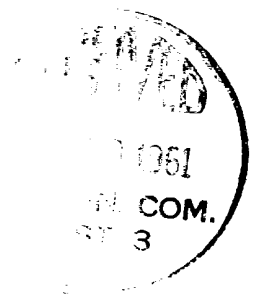
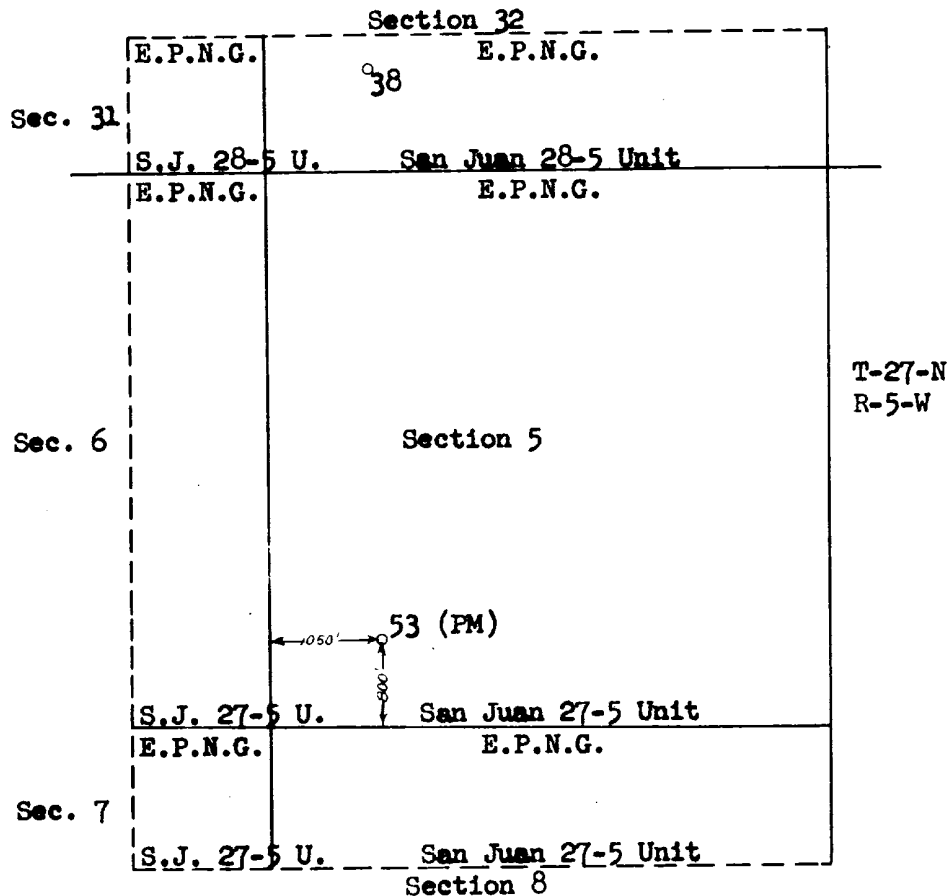
Anna G. Briscoe
Notary Public in and for San Juan County,
New Mexico

My commission expires October 5, 1964.



PLAT SHOWING LOCATION OF DUALY COMPLETED
El Paso Natural Gas Co. San Juan 27-5 Unit No. 53 (PM)
and Offset Acreage

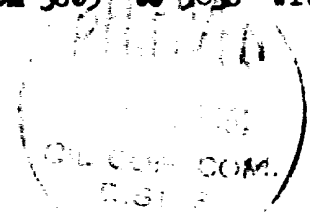
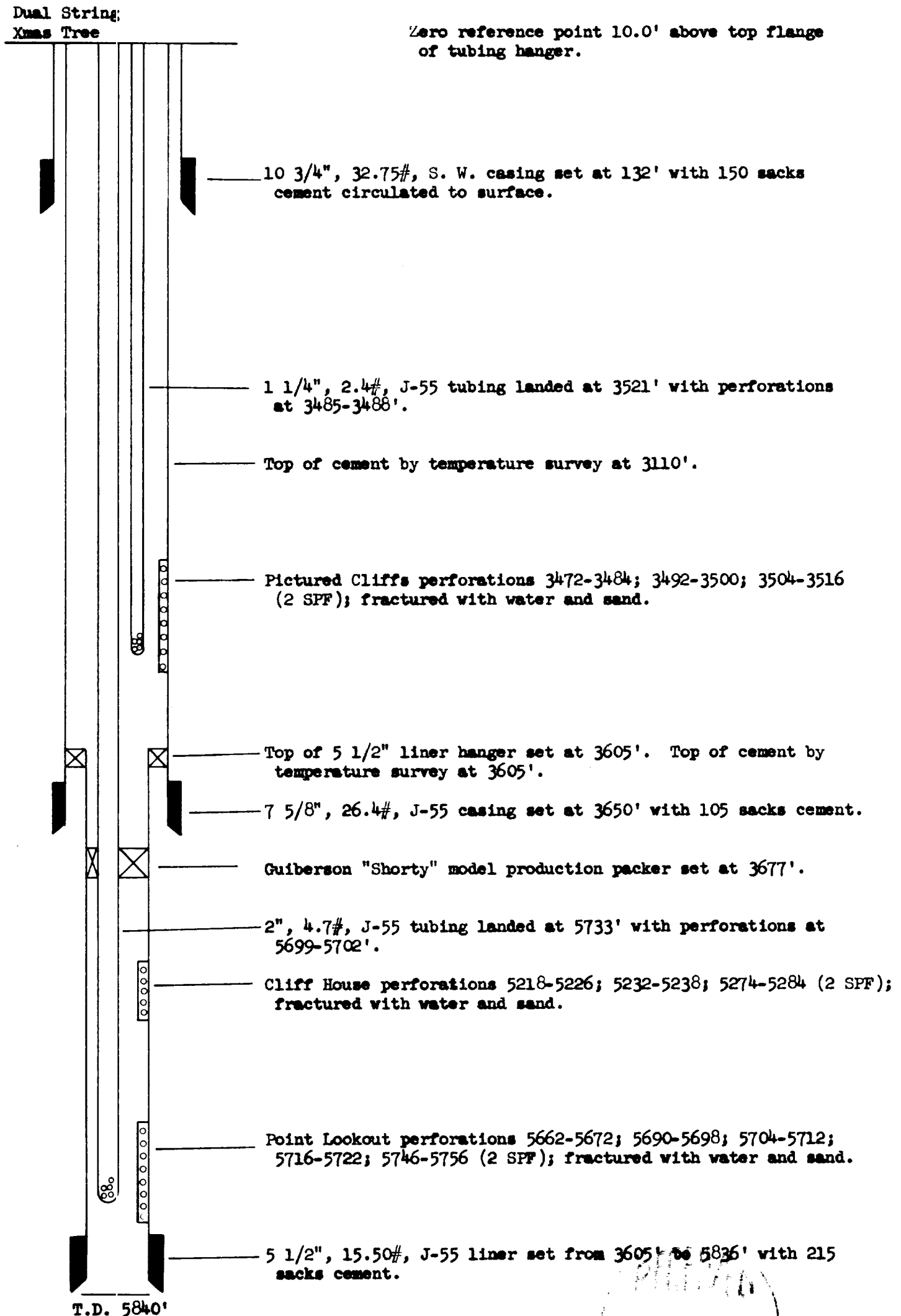
T-28-N
R-5-W

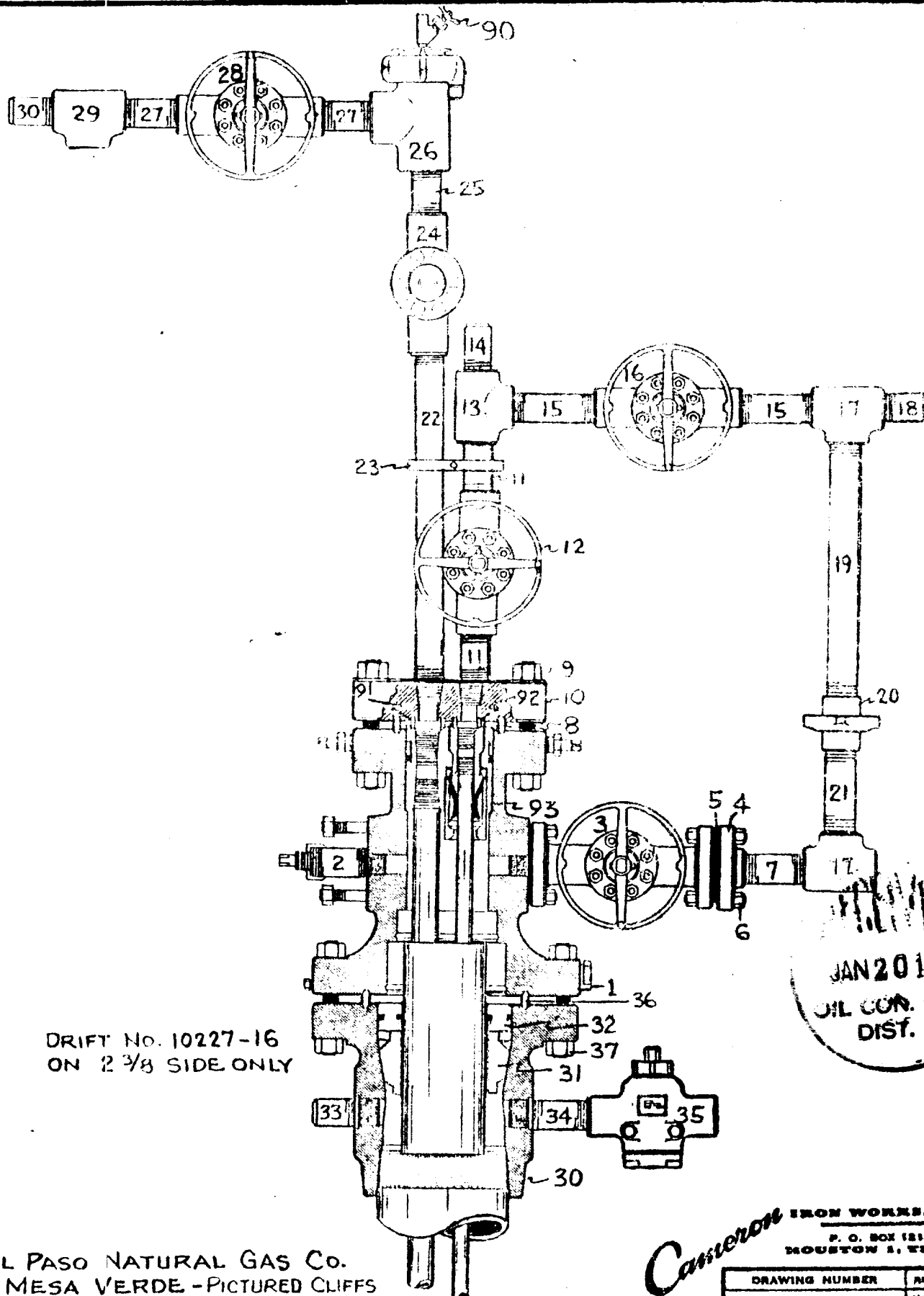


EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE	DATE	No.
DRAWN BY	CHECKED BY	

SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. San Juan 27-5 Unit No. 53 (PM)
SW/4 Section 5, T-27-N, R-5-W





Cameron IRON WORKS, INC.
P. O. BOX 1818
HOUSTON 1, 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 December 21, 1960

Operator El Paso Natural Gas Company		Lease San Juan 27-5 No. 53 (MV)	
Location 800'S, 1050'W, Sec. 5-27-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco MV	
Casing Diameter 7-5/8"	Set At: Feet 3650	Tubing Diameter 2-3/8" O.D.	Set At: Feet 5723
Pay Zone: From 5218	To 5756	Total Depth: 5839 C/O 5790	Shut In 12-14-60
Stimulation Method Sand/Water Frac.		Flow Through Casing X	

Choke Size, Inches .75		Choke Constant: C 12.365		5-1/2" Liner from 3605 to 5836	
Shut-In Pressure, Casing, (PC) 826		PSIG	12	PSIA	Days Shut-In 7
Flowing Pressure: P 302		PSIG	12	PSIA	Shut-In Pressure, Tubing (MV) 1032
					Working Pressure: Pw 1044
					Calc. = 635
T 65		F _i .9952	F _c .75	F _p 1.030	Gravity .650
					F _g = .9608

Initial SIPT (PC) = 826 psig

Final SIPC (PC) = 833 psig

CHOKE VOLUME $Q = C \times P_i \times F_i \times F_g \times F_{pv}$

$$Q = (12.365)(314)(.9952)(.9608)(1.030) = 3824 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,089,936}{686,711} \right)^n = 1.5871^{.75} \times 3824 = (1.4145)(3824)$$

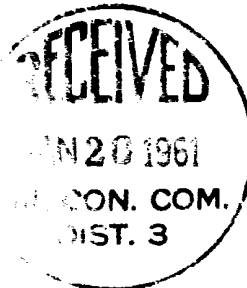
$$Aof = 5409 \text{ MCF/D}$$

TESTED BY Frank Clark

WITNESSED BY

Checked by W. D. Dawson

Lewis D. Galloway
Lewis D. Galloway





LTR



Job separation sheet

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

CORRECTED COPY

DATE December 28, 1960

Operator El Paso Natural Gas Company	Lease San Juan 27-5 No. 53 (PC)
Location 800'S, 1050'W, Sec. 5-27-5	County Rio Arriba State New Mexico
Formation Pictured Cliffs	Pool South Blanco PC
Casing Diameter 7-5/8"	Tubing Diameter 1-1/4"
Set At: Feet 3650	Set At: Feet 3512
Pay Zone: From 3472	Total Depth: 5830
Stimulation Method Sand/Water Frac.	Flow Through Casing X
	Flow Through Tubing 12-14-60

Choke Size, Inches .750	Choke Constant: C 12.365	5-1/2" Liner from 3605 to 5836 Guiberson "Shorty" Prod. Pkr. at 3677.
Shut-In Pressure, Casing, (PC) 905	PSIG - 12 - PSIA 917	Days Shut-In 14
Flowing Pressure: P 127	PSIG - 12 - PSIA 139	Working Pressure: P _w 131
Temperature: 58	F _g 1.0019	Gravity: 0.629
	.850	F _g .9798

Initial S.I.P.T (MV) = 1056 psig

Final S.I.P.T (MV) = 1051 psig

CHOKE VOLUME $Q = C \times P_c \times F_g \times F_v$

$C (12.365)(139)(1.0019)(.9798)(1.011)$

1706

MCF/D

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

$A_{of} = \left(\frac{840,889}{820,440} \right)^n$

$(1.0249)^{.85}(1706) = (1.0212)(1706)$

A_{of} 1742

MCF/D

TESTED BY **R. F. Headrick**

WITNESSED BY

Checked by T. B. Grant



CORRECTED COPY

Lewis D. Galloway
Lewis D. Galloway