

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Blanco MV & So. Blanco PC		County Rio Arriba	Date July 21, 1959
Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit	Well No. 108 (PM)
Location of Well	Unit H	Section 16	Township 27N
		Range 7W	

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-585**; Operator, Lease, and Well No.:

El Paso Natural Gas Company San Juan 28-7 Unit No. 09 (PM)

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)	3340-3402	5620-5734 (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 **Div. Petroleum Engineer** 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. L. Fry, being first duly sworn upon my oath
depose and say as follows:

I am an employee of Guiberson Corporation, and that
on June 21, 1959, I was called to the location of the El Paso
Natural Gas Company San Juan 28-7 Unit No. 108 (PM) Well
located in the SE NE of Section 16, Township 27 North, Range
7 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 5520 feet in accordance with the usual practices and customs
of the industry.

D. L. Fry

Subscribed and sworn to before me, a Notary Public in
and for San Juan County, New Mexico, the 21st day of July, 1959.

Paul M. McFarland
Notary Public in and for San Juan County,
New Mexico

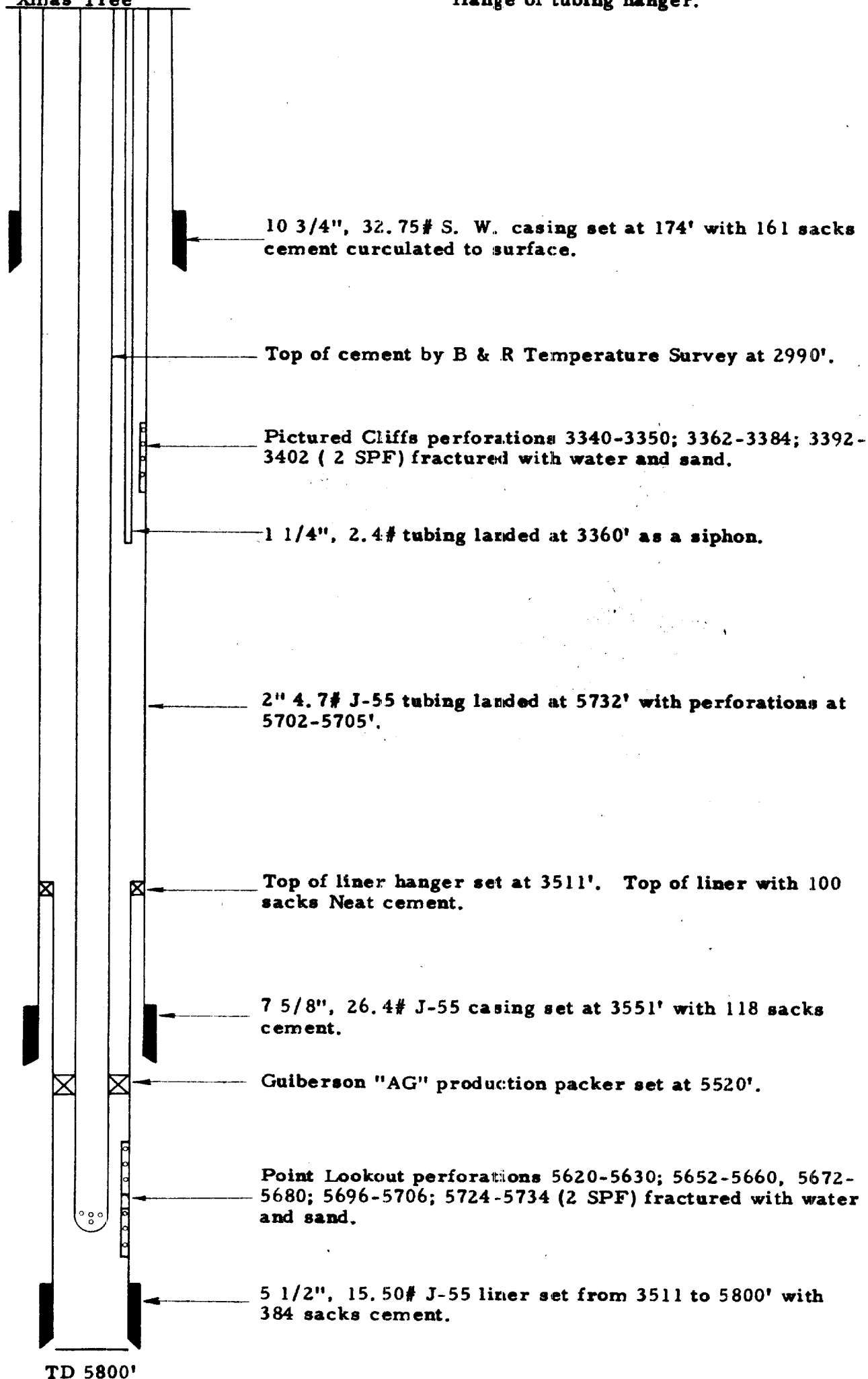
My commission expires February 24, 1960.

SCHEMATIC DIAGRAM OF DUAL COMPLETION
 El Paso Natural Gas Co. San Juan 28-7 Unit No. 108 (PM)
 NE/4 Section 16, T 27N, R 7W

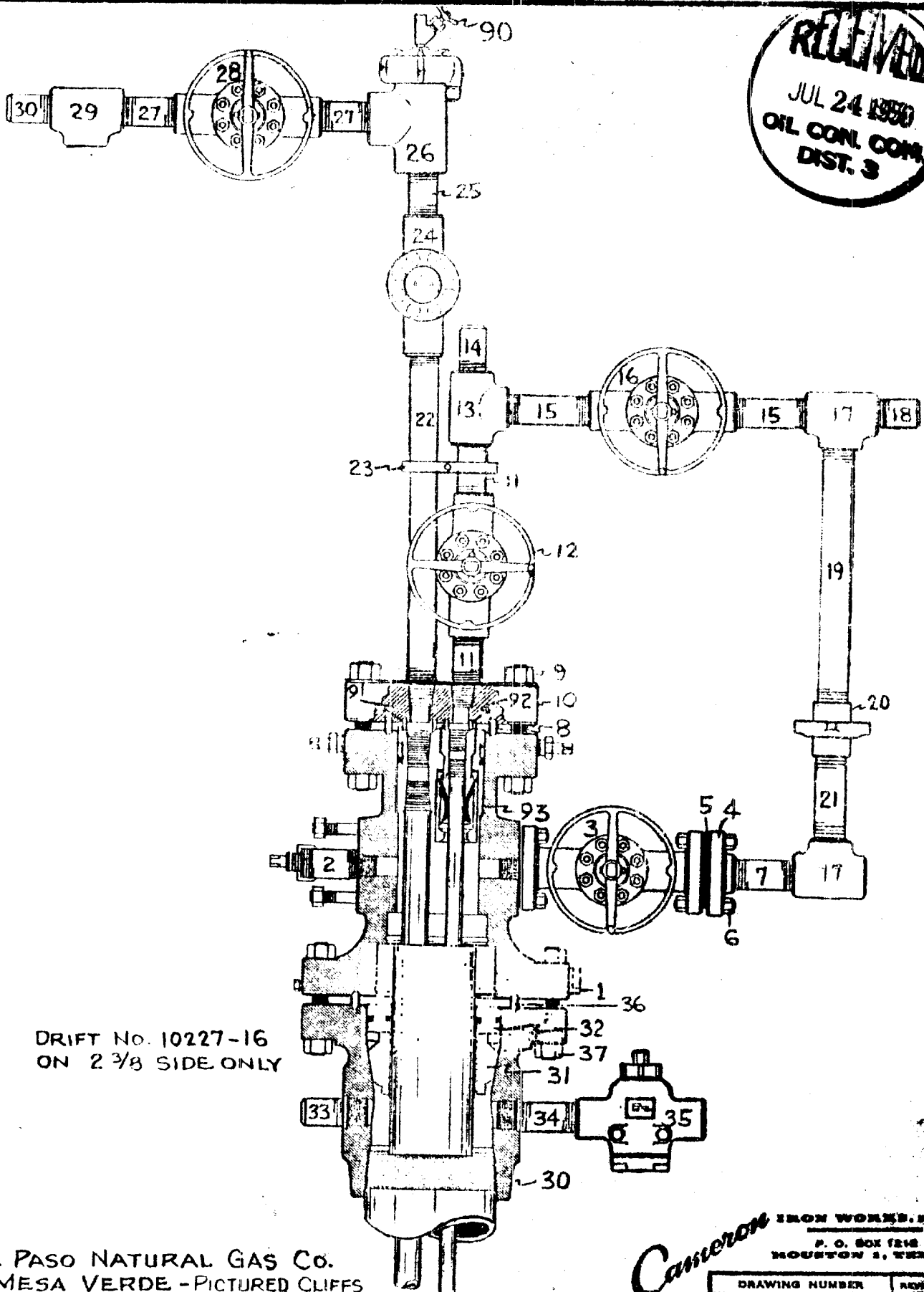


Zero reference point 12.0' above top flange of tubing hanger.

Dual String
 Xmas Tree



RECEIVED
JUL 24 1950
OIL CON. COM.
DIST. 3



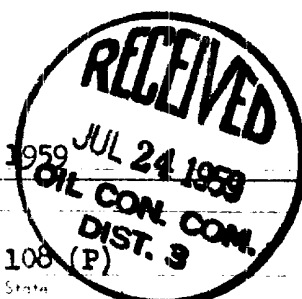
DRIFT No. 10227-16
ON 2 3/8 SIDE ONLY

EL PASO NATURAL GAS Co.
MESA VERDE - PICTURED CLIFFS

Cameron IRON WORKS, INC.
P. O. BOX 1218
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 916015	REVISION A
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EL PASO NATURAL GAS SYSTEM
OPEN FLOW TEST DATA



DUAL COMPLETION

DATE July 13, 1959

Operator El Paso Natural Gas	Lease San Juan 28-7 No. 108 (P)
Location 1500N, 990E; 16-27-7	County Rio Arriba State New Mexico
Formation Pictured Cliffs	Pool Undesignated
Casing Diameter 7-5/8 Set At Feet 3551	Tubing Diameter 1-1/4 Set At Feet 3347
Pay Zone: From 3340 To 3402	Test Depth 5800 c/o 5750 Shut In: 6/22/59
Stimulation Method Sand Water Frac.	Flow Through Casing X

Choke Size, Inches 12.365	Choke Constant, C .75	5-1/2 liner 3511-5800
Shut-In Pressure, Casing, PSIG 981	Shut-In Pressure, Tubing, PSIG 993	Shut-In Pressure, Tubing, PSIA 21
Flowing Pressure, Casing, PSIG 708	Flowing Pressure, Tubing, PSIG 731	Flowing Pressure, Tubing, PSIA 743
Temperature, C 69	Temperature, Tubing, C .85	Gravity 1.066
		.625

Initial SIPT (MV) = 1040 psig
Final SIPT (MV) = 1046 psig

Packer at 5520

CHOKE VOLUME: $C \times R_1 \times R_2 \times R_3 \times R_4$

$$C = 12.365 \times 720 \times .9915 \times .9798 \times 1.065 = 9220 \text{ MCF/D}$$

OPEN FLOW: $Q = \left(\frac{P_1^2 - P_2^2}{P_1^2 - P_2^2} \right)^n$

$$Q = \left(\frac{986049}{434000} \right)^n \quad 2.2720^{.75} \times 9220 = 2.0100 \times 9920$$

Q = 19,939 MCF/D

WITNESSED BY
M. W. Rischard
Fred Cook, N.M.O.C.C.

Lewis D. Galloway
L. D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE July 1, 1959

Operator El Paso Natural Gas		Lease San Juan 28-7 No. 108 (M)	
Location 1500N, 990E; 16-27-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 7-5/8	Set At: Feet 3551	Tubing Diameter 2"	Set At: Feet 5719
Pay Zone: From 5620	To 5734	Total Depth 5800 c/o 5750	Shut In: 6/22/59
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 3511-5800
Shut-In Pressure, Casing 948 (PC)	PSIG - 12 - PSIA 960	Shut-In Pressure, Tubing 1014 (MV)
Flowing Pressure, P 104	PSIG - 12 - PSIA 116	Working Pressure, P _w Calc.
Temperature, T .59	.75	Flow From Tubing 1.014
		Gravity .742

Initial SIPT (PC) = 948 psig

Final SIPC (PC) = 950 psig

Packer at 5520

CHOKE VOLUME $Q = C \times P_1 \times P_2 \times P_3 \times P_4 \times P_5$

$$C = 12.365 \times 116 \times 1.0010 \times .9005 \times 1.014$$

1311

MCF/D

OPEN FLOW

$$Q = \left(\frac{P_1 - P_2}{P_1} \right)^n$$

$$Q = \left(\frac{1052676}{998852} \right)^n$$

$$1.0538^{.75} \times 1311 = 1.0401 \times 1311$$

Q =

1364

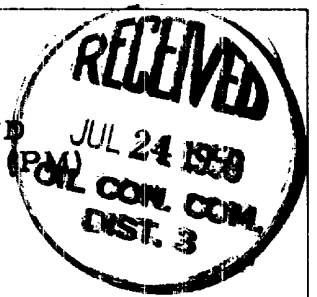
MCF/D

PREPARED BY M. W. Rischard

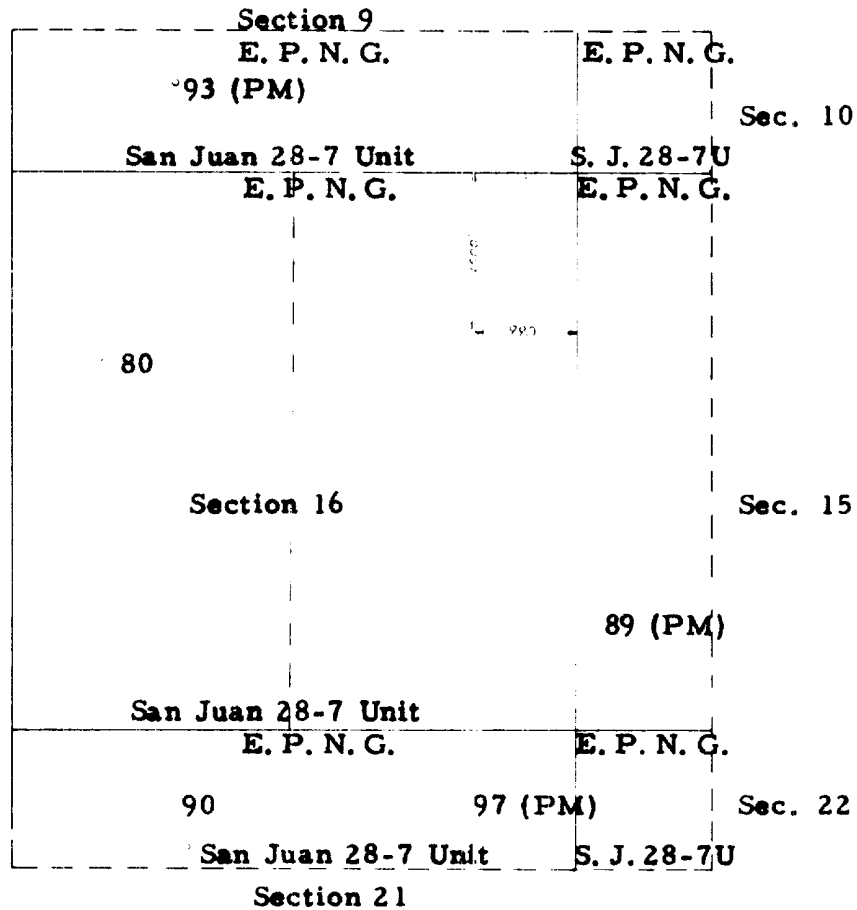
WITNESSED BY Fred Cook, N.M.O.C.C.

Lewis D. Galloway
L. D. Galloway

PLAT SHOWING LOCATION OF DUALY COMPLETED
 El Paso Natural Gas Co. San Juan 28-7 Unit No. 108 (PM)
 SE SE Section 16, T 27N, R 7W



T-27-N
 R-7-W



EL PASO NATURAL GAS COMPANY
 EL PASO, TEXAS

SCALE	DATE	No.
DRAWN BY	CHECKED BY	