

OIL CONSERVATION COMMISSION
3 DISTRICT

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE 10-19-64

Re: Proposed NSP _____

Proposed NWU _____

Proposed NSL _____

Proposed NFO _____

Proposed DC ✓

Gentlemen:

I have examined the application dated 10-19-64
for the EPNG San Juan 22-4 U.I. 536 ✓ 31-270-44
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approved

Yours very truly,

Ernest J. Cuneo

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name		Tapacito Pictured Cliffs Ext.		County	Rio Arriba	Date	10-8-64
Operator		El Paso Natural Gas Company		Lease	San Juan 27-4 Unit	Well No.	36 (PM)
Location of Well	Unit	Section	36	Township	27N	Range	4W

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 X NO _____
2. If answer is yes, identify one such instance: Order No. MC 1275; Operator, Lease, and Well No.:

Consolidated Oil & Gas, Inc. Champlin #2-35 (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)		4080-4134	5872-6244
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)

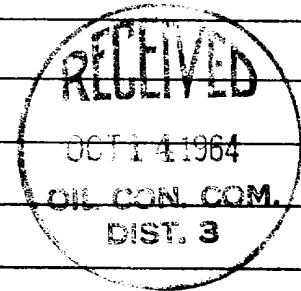
- Yes a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- 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.*
- Yes 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.

Consolidated Oil & Gas, 1700 Broadway, Denver 2, Colorado

Huron Drilling Company, 1700 Broadway, Denver 2, Colorado

Southern Union Gas Company, 1001 Burt Building, Dallas, Texas



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 _____.

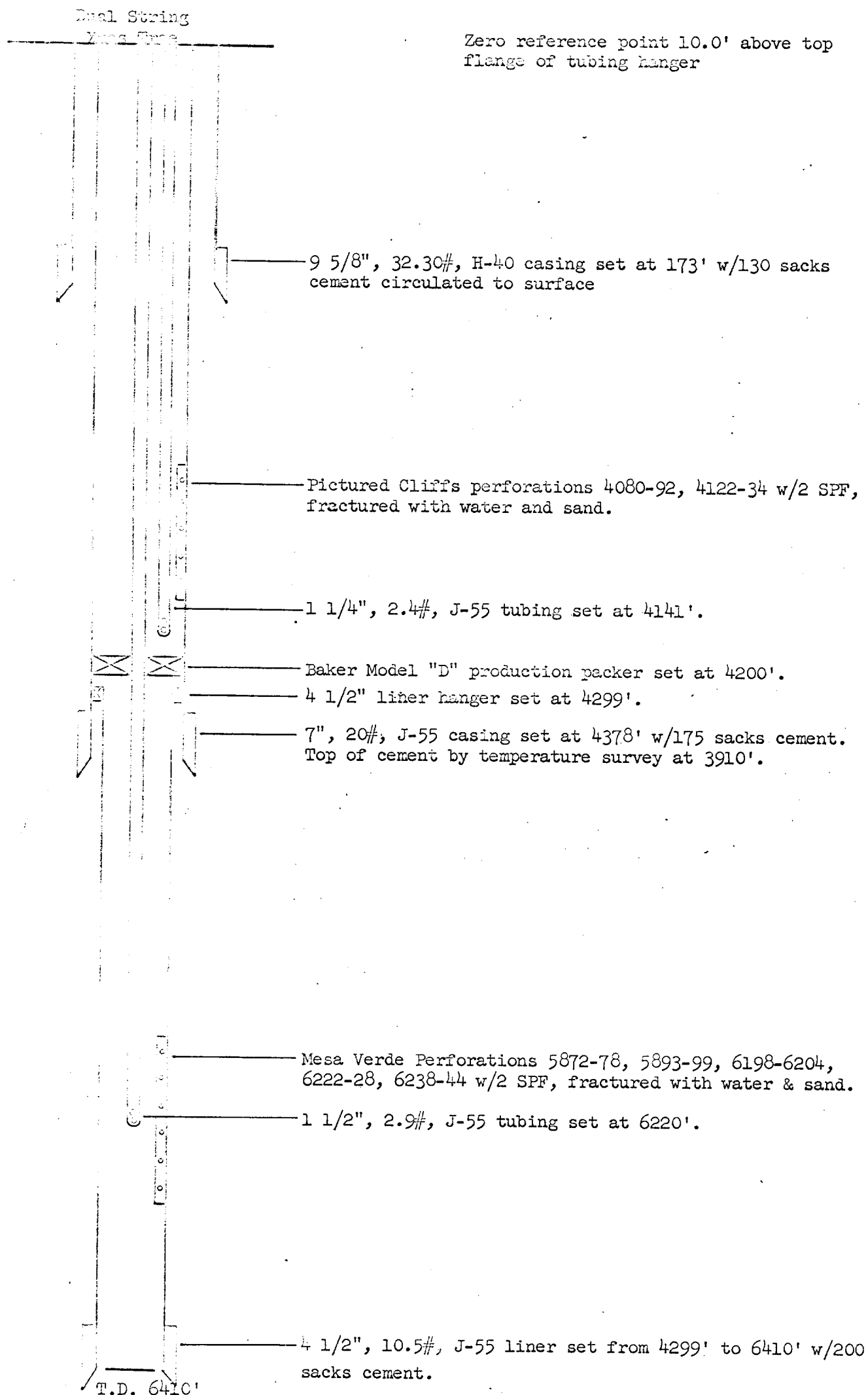
CERTIFICATE: I, the undersigned, state that I am the _____ of the _____ (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

ORIGINAL SIGNED E. S. OBERLY

Signature

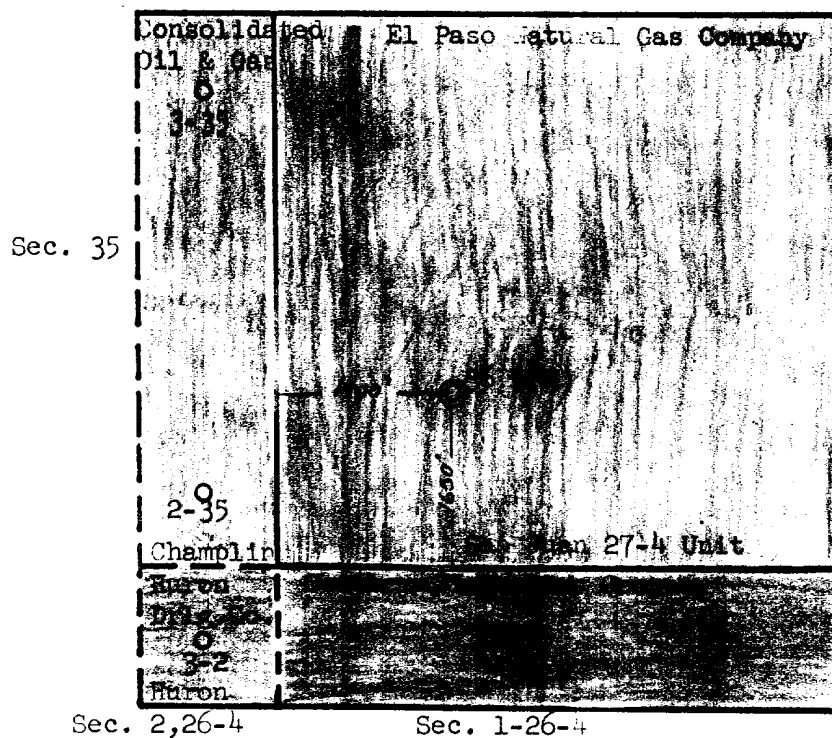
- * Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest 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.

SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. San Juan 27-4 Unit #36 (PM)



PLAT SHOWING LOCATION OF DUALY COMPLETED
El Paso Natural Gas Company San Juan 27-4 Unit #36 (PM)
and Offset Acreage

Sec. 36, T-27-N, R-4-W



EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE

DATE

No.

DRAWN BY

CHECKED BY

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

WELL COMPLETION

DATE August 6, 1964

Operator El Paso Natural Gas Company		Lease San Juan Unit 27-4 No. 36 (PC)	
Location 1450'S, 1700'W, Sec. 36, T-27-N, R-4-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 7.000	Set At: Feet 4378	Tubing: Diameter 1.660	Set At: Feet 4131
Pay Zone: From 1080	To 4134	Total Depth: 4380	Shut In 7-21-64
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, inches 0.750		Choke Constant: C 12.365		Baker Model "D" Packer set at 4200'.	
Shut-in Pressure, Casing, PSIG -----	+ 12 = PSIA ----	Days Shut-in 16	Shut-in Pressure, Tubing (PC) PSIG 1061	+ 12 = PSIA 1073	
Flowing Pressure: P PSIG 118	+ 12 = PSIA 130		Working Pressure: Pw PSIG 129	+ 12 = PSIA 141	
Temperature: T = 60 °F	n = .85		Fpv (From Tables) 1.011	Gravity .650 Fg = .9608	
Fr = 1.0000					

ISIPT (MW) = 1178 psig

FSIPT (MW) = 1180 psig

CHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}

$$Q = (12.365)(130)(1.0000)(.9608)(1.011) = 1561 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1151329}{1131448} \right)^n = (1561)(1.0175)^{.85} = (1561)(1.0149)$$

$$Aof = 1584 \text{ MCF/D}$$

TESTED BY D. E. Mortensen

Calculated

INTERPRETED BY W. D. Dawson

Checked by Tom B. Grant

Lewis D. Galloway
Lewis D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 30, 1964

Company El Paso Natural Gas Company	Lease SJU 27-4 No. 36 (MV)
Location 1650'S, 1700'W, Sec. 36, T-27-N, R-4-W	County Rio Arriba State New Mexico
Formation Mesa Verde	Pool Blanco
Initial SIPT (PC) = 910 4.500	Initial SIPT (MV) = 1031 1.900
Final SIPC (PC) = 917 5872	Final SIPC (MV) = 917 6244
Flow Through Tubing Sand Water Frac.	Flow Through Tubing X

Initial SIPT (PC) = 910 0.75	Initial SIPT (MV) = 1031 12,365	Baker Model "D" Packer set at 4200'
Final SIPC (PC) = 917 (PC) 910	Final SIPC (MV) = 917 922	PSIG 12 PSIA
Flow Through Tubing 207	Flow Through Tubing 219	Working Pressure (PC) (Calc.) 732
Flow Through Tubing 56	Flow Through Tubing 1.0039	Flow Through Tubing 1.022
		Gravity 0.650

Initial SIPT (PC) = 910 psig

Final SIPC (PC) = 917 psig

Flow Through Tubing = 12,365 (219) (1.0039) (.9608) (1.022)

2669

MCF/D

$$\left(\frac{1,087,049}{552,025} \right)^n$$

$$\left(\frac{1,087,049}{552,025} \right)^n (2669)(1.9706)^{.75} = (2669)(1.6640)$$

4441

MCF/D

Calculated by R. F. Headrick
H. L. Kendrick

Lewis D. Galloway
Lewis D. Galloway