

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

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE 11-22-60

RE: Proposed NSP _____

Proposed NSL _____

Proposed NFO _____

Proposed DC ✓

Gentlemen:

I have examined the application dated 10-27-60
for the EPNG Adm. Unit 28-A M-17-32N-6W
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approved

Yours very truly,

George H. L.
OIL CONSERVATION COMMISSION

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Blanco Mesa Verde & M. Los Pinos Lk.		County San Juan	Date October 27, 1958
Operator El Paso Natural Gas Company		Lease Allison Unit	Well No. 23-A (MD)
Location of Well M	Unit 17	Section 32N	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-545**; Operator, Lease, and Well No.:

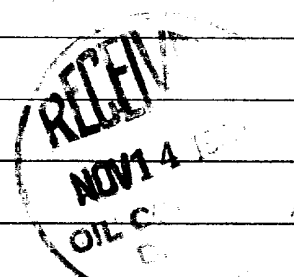
El Paso Natural Gas Company Allison Unit No. 17 (MD)

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Mesa Verde	Dakota
b. Top and Bottom of Pay Section (Perforations)	5586-5720 (Joint Lockout)	1501-1534 (
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 **Asst. 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 **F. H. WOOD**

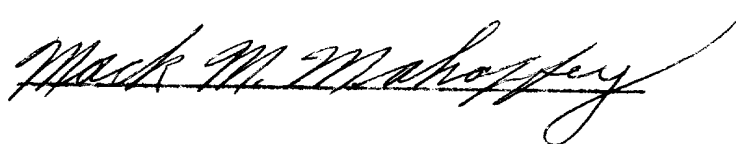
Signature

- * 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:

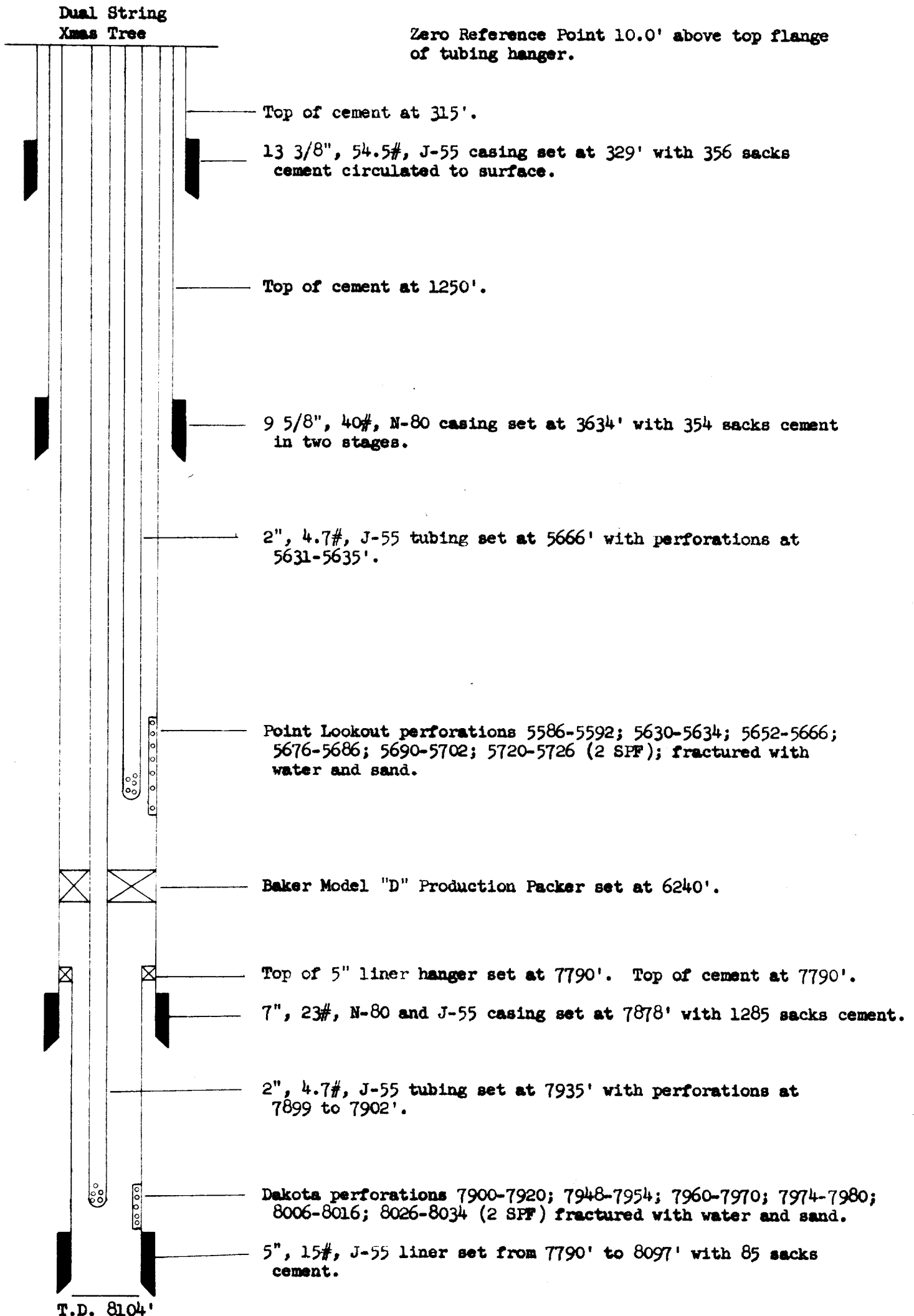
I am an employee of Baker Oil Tools, Inc., and that
on August 12, 1960, I was called to the location of the El Paso
Natural Gas Company Allison Unit No. 23-A (MD) Well located in the
SW1/4 of Section 19, Township 32 North, Range 6 West, N.M.P.M.,
for advisory service in connection with installation of a production
packer. In my presence, a Baker Model "D" Production Packer was set
in this well at 6240 feet in accordance with the usual practices and
customs of the industry.

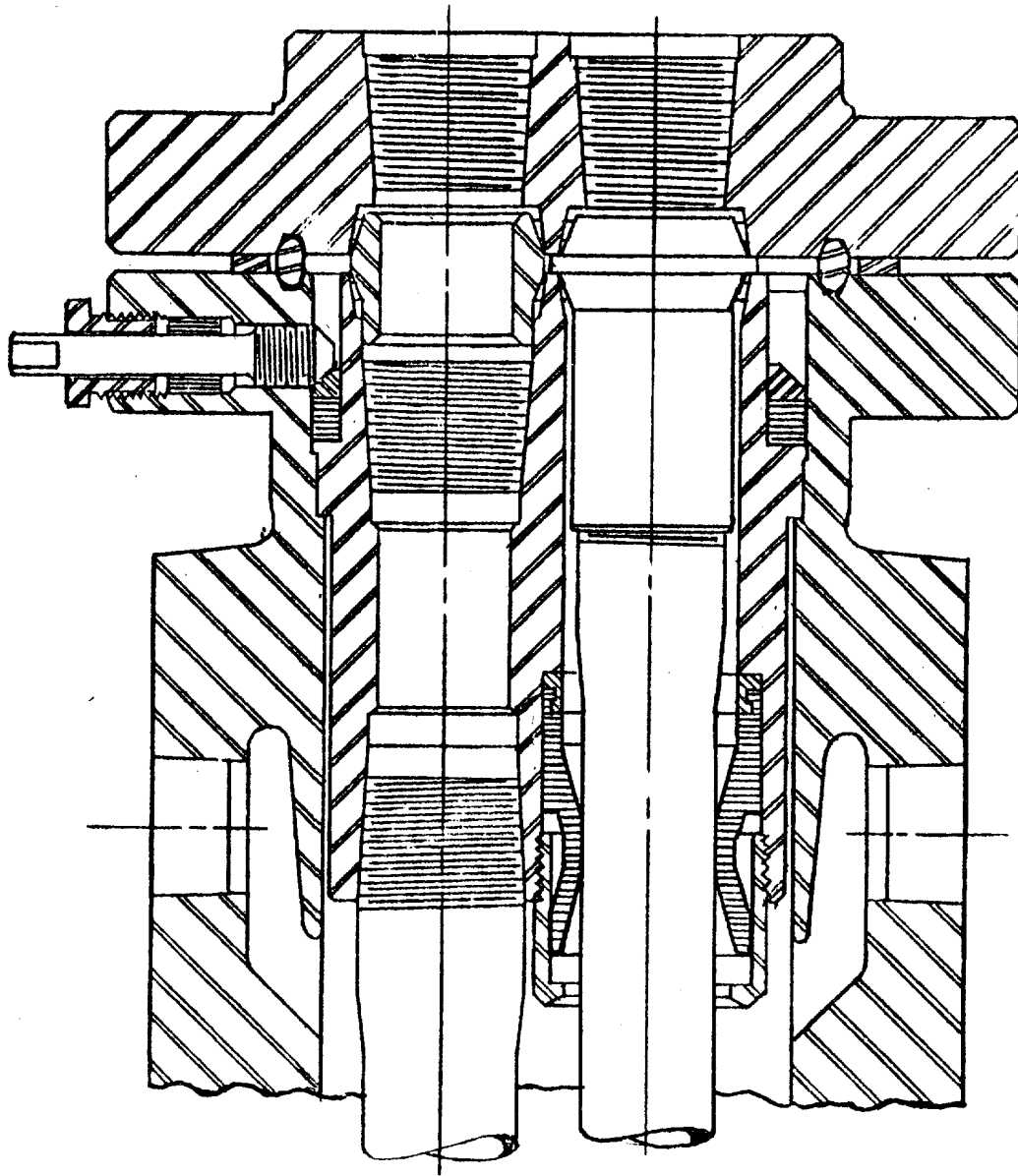


Subscribed and sworn to before me this 20th day of
October, 1960.

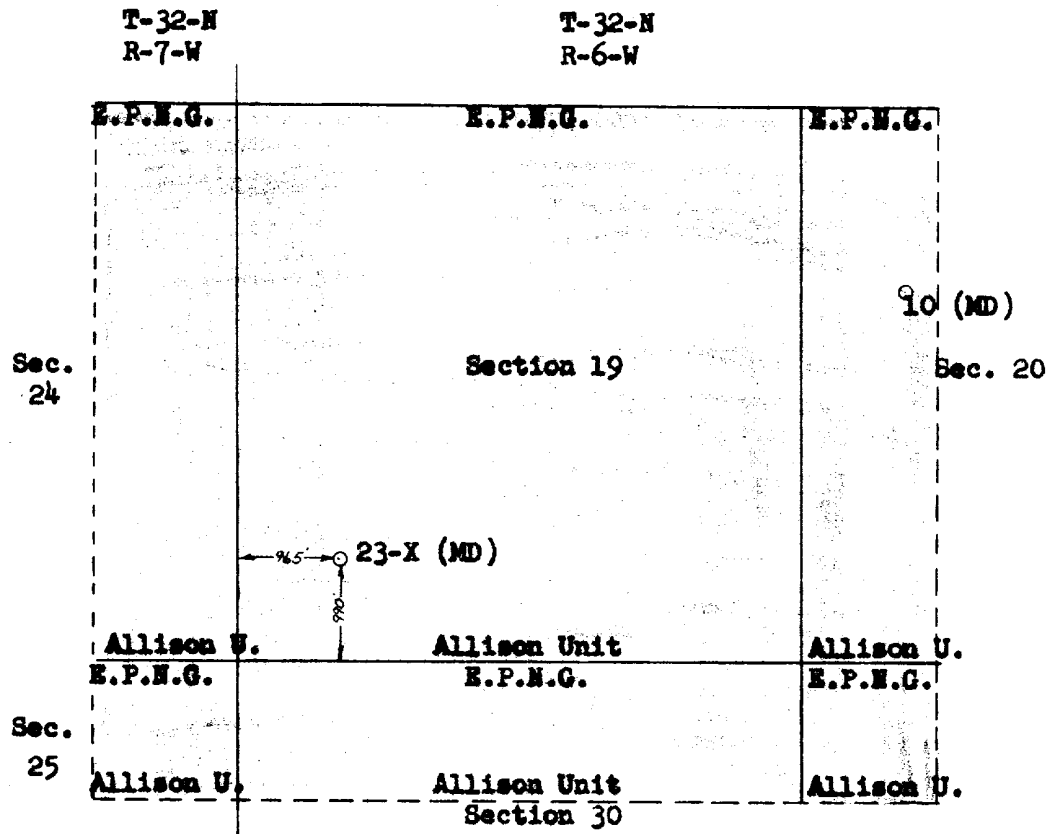

Notary Public in and for San Juan County,
New Mexico.

SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. Allison Unit No. 23-X (MD)
SW/4 Section 19, T-32-N, R-6-W





PLAT SHOWING LOCATION OF DUALY COMPLETED
El Paso Natural Gas Co. Allison Unit No. 23-X (MD)
and Offset Acreage



EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE	DATE	No.
DRAWN BY	CHECKED BY	

OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 26, 1960

Operator El Paso Natural Gas Co.	Location Allison Unit No. 23-X (D)
Location 990S, 990W; 19-32N-6W	County San Juan
Formation Dakota	State New Mexico
Well Diameter 7"	Well Depth 7878
Pay Zone From 7900	Pay Zone To 8034
Stimulation Method Sand Water Frac.	Flow Through Tubing X

Well Size, Inside .75	Well Constant 12.365	5" liner from 7790 to 8097
Shut-in Pressure, P _{sh} 1147 (MV)	Shut-in Pressure, P _{sh} 1159	(Dk) 2668
Flowing Pressure, P _{wf} 201	Flowing Pressure, P _{wf} 213	Calc. 474
Temperature 74	Temperature .9868	est. .616 x .9877

Initial SIPT (MV) = 1150

Final SIPC (MV) = 1154

Baker Model "D" Packer at 6240

OPEN FLOW TEST DATA

$$12.365 \times 213 \times .9868 \times .9877 \times 1.016$$

2608

$$\left(\frac{7118224}{6893548} \right)^n$$

$$\left(\frac{7118224}{6893548} \right)^n$$

$$1.0325^{.75} \times 2608 = 1.0243 \times 2608$$

2674

D. Mortensen

Checked By

T. B. Grant

Lewis D. Galloway
L. D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 7, 1960

Operator El Paso Natural Gas Company		Lease Allison Unit No. 23-X (M)	
Location 9908, 990W; 19-32N-6W		County San Juan	State New Mexico
Formation Mesaverde		Pool Blanco	
Casing: Diameter 7"	Set At: Feet 7878	Tubing: Diameter 2"	Set At: Feet 5656
Pay Zone: From 5586	To 5726	Total Depth: 8104 c/o 8050	Shut in 8/12/60
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant: C 12.365	5" liner from 7790 to 8097
Shut-In Pressure, Casing, (MV) 1179	PSIG $\times 12$ PSIA 1191	Shut-In Pressure, Tubing (MV) 1183
Flowing Pressure: P 268	PSIG $\times 12$ PSIA 280	Working Pressure: P _w 695
Temperature: 73 F	n .9877	Gravity .620
F _g .9877	F _g .9877	F _g .9837

Initial SIPT (D) = 2722 psig
Final SIPT (D) = 2733 psig

Baker Model "D" packer at 6240

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$$Q = 12.365 \times 280 \times .9877 \times .9837 \times 1.022$$

3438

MCF/D

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

$$A_{of} = \left(\frac{1428025}{928176} \right)^n \quad 1.5385^{.75} \times 3438 = 1.3818 \times 3438$$

$$A_{of} = 4751 \quad \text{MCF/D}$$

TESTED BY R. Headrick

WITNESSED BY

Checked By W. D. Dawson

Lewis D. Galloway
L. D. Galloway