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

DATE June 9, 1960

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

RE: Proposed NSP _____
Proposed NSL _____
Proposed NFO _____
Proposed DC ✓

Gentlemen:

I have examined the application dated May 24, 1960
for the EPNG Rincon Unit 127(MD) A-28-27N-6W
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

OIL CONSERVATION COMMISSION

A.R. Kendrick

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name			County		Date
Blanco Mesa Verde & Wildcat Dakota			Rio Arriba		May 24, 1960
Operator		Lease			Well No.
El Paso Natural Gas Company		Rincon Unit			127 (MD)
Location of Well	Unit	Section	Township		Range
		28	27N		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 X

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

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)	5328-5500	7364-7422 (Greneros) 7492-7506 (Dakota)
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.

RECEIVED
JUN 6 1960
OIL CON. COM.
DIST. 3

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, A. M. Smith, 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 April 8, 1960, I was called to the location of the El Paso Natural Gas Company Rincon Unit No. 127 (MD) Well located in the NENE of Section 28, Township 27 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 6880 feet in accordance with the usual practices and customs of the industry.

A. M. Smith

Subscribed and sworn to before me this 25th day of May, 1960.

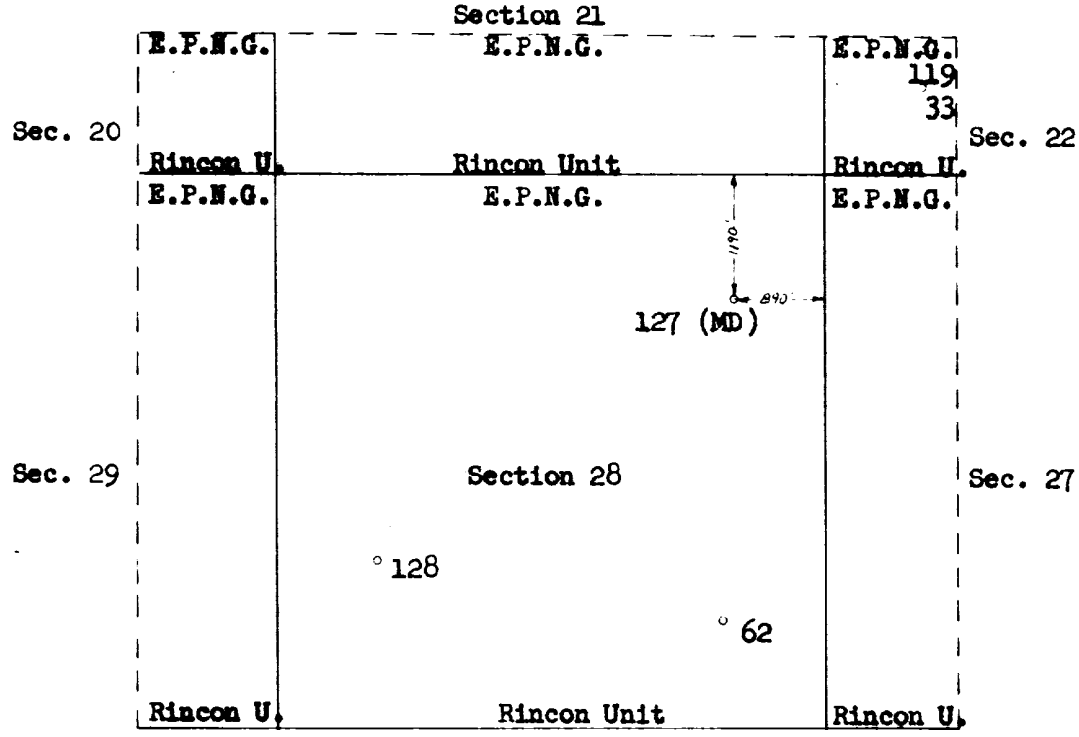
Notary Public in and for San Juan County, New Mexico

My commission expires F

My Commission Expires 6-21-61

PLAT SHOWING LOCATION OF DUALLY COMPLETED
El Paso Natural Gas Co. Rincon Unit No. 127 (MD)
and Offset Acreage

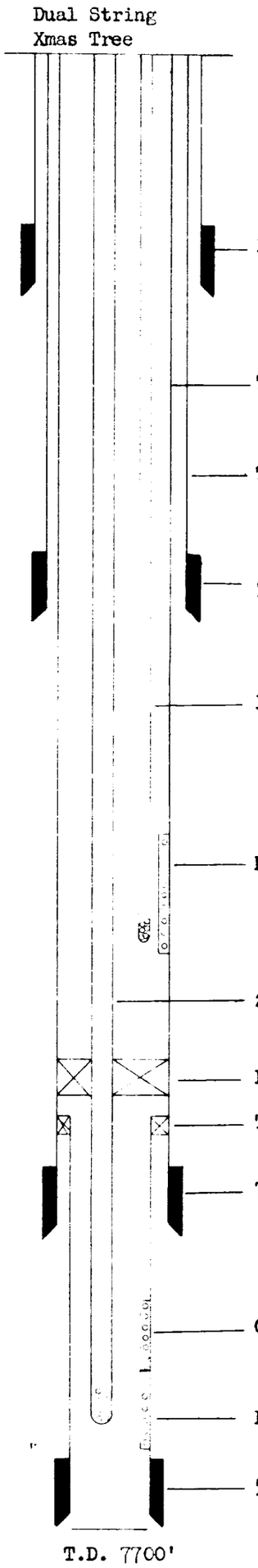
T-27-N
R-6-W



EL PASO NATURAL GAS COMPANY EL PASO, TEXAS		
SCALE	DATE	No.
DRAWN BY	CHECKED BY	

FORM 7-132R (10-56)

SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. Rincon Unit No. 127 (MD)
NE/4 Section 28, T-27-N, R-6-W



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

13 3/8", 48#, H-40 casing set at 325' with 230 sacks cement circulated to surface.

Top of cement by temperature survey at 2100'.

Top of cement by temperature survey at 2380'.

9 5/8", 40# & 36#, N-80 and J-55 casing set at 3353' with 170 sacks cement.

1 1/4", 2.4#, Grade "A" tubing landed at 5520' with perforations at 5490-5493'.

Mesa Verde perforations 5328-5336; 5360-5368; 5412-5426; 5438-5446; 5464-5472; 5478-5486; 5492-5500 (2 SPF); fractured with water and sand.

2 3/8", 4.7#, J-55 tubing landed at 7491' with perforations at 7483-7486'.

Baker Model "D" production packer set at 6880'.

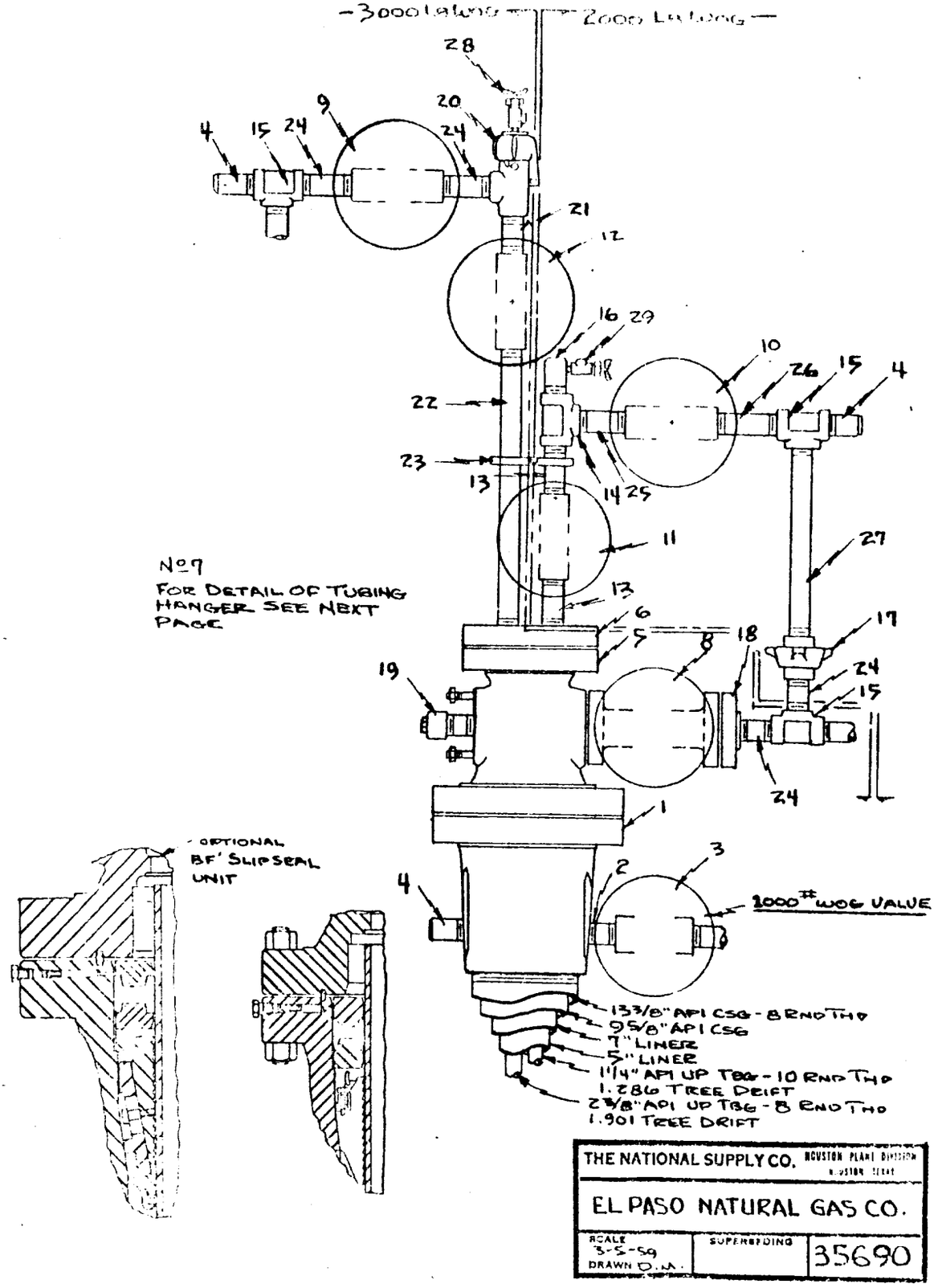
Top of 5" liner hanger set at 7217'. Top of cement by temperature survey at 7217'.

7", 23#, N-80 and J-55 casing set at 7698' with 970 sacks cement.

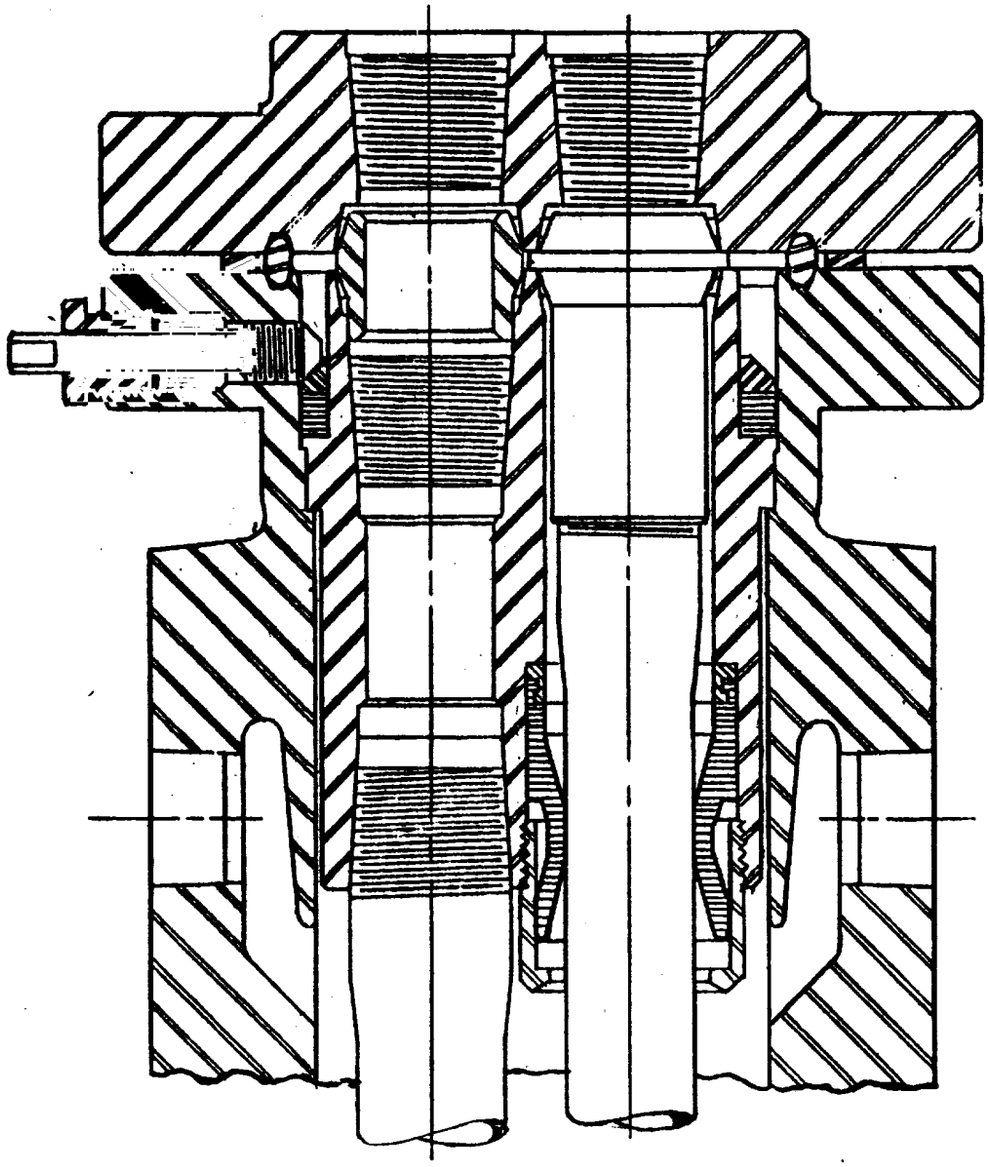
Graneros perforations 7364-7380; 7388-7402; 7408-7422 (2 SPF); fractured with oil and sand.

Dakota perforations 7492-7510; 7530-7544; 7552-7564; 7576-7586 (2 SPF); fractured with oil and sand.

5", 15#, J-55 liner set from 7217' to 7698; with 100 sacks cement.



THE NATIONAL SUPPLY CO. HOUSTON PLANT DIVISION HOUSTON TEXAS		
EL PASO NATURAL GAS CO.		
SCALE 3-5-59 DRAWN D.M.	SUPERSEDING	35690



EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION DATE **April 19, 1960**

Operator: **El Paso Natural Gas**		Lease: **Rincon Unit No. 127 (D)**	
Location: **1190N, 890E; 28-27-6**		County: **Rio Arriba**	State: **New Mexico**
Formation: **Dakota**		Pool: **Undesignated**	
Casing: Diameter **5**	Set At: Feet **7698**	Tubing: Diameter **2**	Set At: Feet **7480**
Pay Zone: From **7364**	To **7586**	Total Depth: **7283 c/o 7700**	~~XXXX~~ **Re SI 4/8/60**
Stimulation Method: **Sand Oil Frac.**		Flow Through:	Perf. **X**

Choke Constant: **.75**	**1**		**12.365**	**7" at 7283; 5" liner 7217-7698**	
Shut-in Pressure: **1311 (MV)**	PSIG **1323**	Days Shut-in **11**	Shut-in Pressure: **2158 (Dak)**	PSIG **2170**	
Flowing Pressure: **379**	PSIG **391**		Working Pressure: **854 (Calc.)**	PSIG **866**	
Temperature: T **70** F	n **.9905**	**.75**	Fpv (From Tables) **1.037**	Gravity **.668**	Fg **.9498**

Initial SIPT (MV) = 1311 psig
Final SIPC (MV) = 1329 psig

Baker Model "D" packer set at 6880

CHOKE VOLUME: $Q = C \times P_t \times F_t \times F_g \times F_{pv}$

$Q = 12.365 \times 391 \times .9905 \times .9498 \times 1.037 = 4717$ MCF D

OPEN FLOW: $A.O.F. = Q \left(\frac{P_t^2}{P_t^2 - P_w^2} \right)^n$

$A.O.F. = \left(\frac{4708900}{3958944} \right)^n$ $1.1894^{.75} \times 4717 = 1.1390 \times 4717$

A.O.F. **5373** MCF D

TESTED BY: **D. Mortensen**

WITNESSED BY:

Checked By **W. D. Dawson**

Lewis D. Galloway

L. D. Galloway

FORM 23-378 (REV. 11-58)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION DATE **April 26, 1960**

Operator: **El Paso Natural Gas Co.**		Lease: **Rincon Unit No. 127 (M)**	
Location: **1190N, 890E; 28-27-6**		County: **Rio Arriba**	State: **New Mexico**
Formation: **Mesa Verde**		Pool: **Blanco**	
Casing: Diameter **7**	Set At: Feet **7283**	Tubing: Diameter **1-1/4**	Set At: Feet **5509**
Pay Zone: From **5328**	To **5500**	Total Depth: **7283 c/o 7700**	Shut In **Re SI 4/8/60**
Stimulation Method: **Sand Water Frac.**		Flow Through: Casing **X**	Flow Through Tubing

Choke Size, Inches: **.75**		Choke Constant: C **12.365**					
Shut-in Pressure, Casing, PSIG: **1316**	+ 12 = PSIA **1328**	Days Shut-in **18**	Shut-in Pressure, Tubing PSIG: **1316**	+ 12 = PSIA **1328**			
Flowing Pressure: P PSIG: **114**	+ 12 = PSIA **126**		Working Pressure: Pw PSIG: **130**	+ 12 = PSIA **142**			
Temperature: T **59** F	n **.75**	Fpv (From Tables) **1.0010**		Gravity **1.012**		Fg **.668**	**.9498**

Initial SIPT (D) = 2177 psig
Final SIPT (D) = 2185 psig

Baker "D" packer set at 6880

CHOKE VOLUME: $Q = C \times P_t \times F_t \times F_g \times F_{pv}$

$Q = 12.365 \times 126 \times 1.0010 \times .9498 \times 1.012 = 1499$ MCF/D

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

Note: High shut-in pressure of MV zone may be due to previous packer leakage which we believe to have been corrected now. Additional tests will be conducted when well is producing into line.

$Aof = \left(\frac{1763584}{1743420} \right)^n$ $1.0115^{.75} \times 1499 = 1.0086 \times 1499$

Aof **1512** MCF/D

TESTED BY **S. V. Roberts**

WITNESSED BY

Lewis D. Galloway

L. D. Galloway