B. & R.
SERVICE, INC.

TEMPERATURE SURVEY

COMPANY EL PASO NATURAL GAS COMPANY

WELL SAN JUAN 28-4 #27 FIELD

COUNTY RIO ARRIBA STATE NEW MEXICO

SEC. 19 TWP. 28 RGE. 4

APPROX. TOP CEMENT 3200'

Survey Begins at 2500' Ft. Ends at 4397' Ft.

Approx. Fill-Up Max. Temp. 115° F

Log Measured From R.T. Run No. 1

Casing Size	Casing Depth	Diam of Hole	Depth
7" from	to 4448'	8¾" from	to
from	to	from	to

Date of Cementing 9-14-61 Time 4:30 AM

Date of Survey 9-14-61 Time 2:00 PM

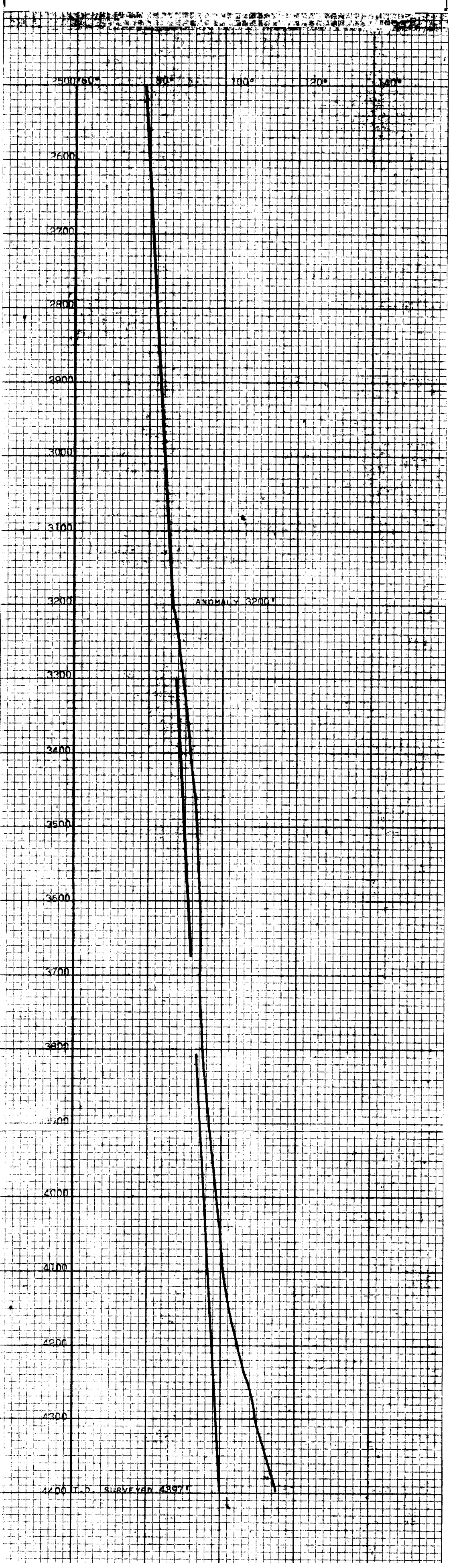
Amount of Cement 130 SACKS Type REGULAR

Amount of Admix 4% GEL., 1 CU.FT. STRATACRETE "6" Type

Recorded by GOSNELL Witnessed by DRILLER

REMARKS OR OTHER DATA

TEMPERATURE IN DEGREES FAHRENHEIT



EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE October 19, 1961

Operator: El Paso Natural Gas Company		Lease: San Juan 28-4 No. 27	
Location: 990'S, 1690'W 19-28N-4W		County: Rio Arriba	State: New Mexico
Formation: Mesa Verde		Pool: Blanco	
Casing: Diameter: 7"	Set At: Feet: 4295	Tubing: Diameter: 2 3/8" O.D.	Set At: Feet: 6605
Pay Zone: From: 6476	To: 6616	Total Depth: 6662 C/O	Shut In: 9-23-61
Stimulation Method: Sand Water Frac.		Flow Through Casing	Flow Through Tubing: X

Choke Size, Inches: 0.750	Choke Constant: C: 12.365		4 1/2" O.D. Liner	4418 to 6662	
Shut-In Pressure, Casing, PSIG: 1146	+ 12 = PSIA: 1158	Days Shut-In: 26	Shut-In Pressure, Tubing PSIG: 1144	+ 12 = PSIA: 1156	
Flowing Pressure: P PSIG: 296	+ 12 = PSIA: 308		Working Pressure: Pw PSIG: 802	+ 12 = PSIA: 814	
Temperature: F 64	n: .75	Ft: .9962	Fpv (From Tables): 1.035	Gravity: 690	Fg: .9325

CHOKE VOLUME Q = C x P_t x F_t x F_g x F_{pv}

Q = (12.365)(308)(.9962)(.9325)(1.035) = 3662 MCF/D

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

Aof = $\left(\frac{1,340,964}{678,368} \right)^n$ $(1.9767)^{.75}(3662) = (1.6670)(3662)$

Aof = 6105 MCF/D

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OIL CON. COM.
DIST. 3

TESTED BY: Dannie R. Roberts

WITNESSED BY:

Calculated by: W. D. Dawson

Lewis D. Galloway
L. D. Galloway

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NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

FORM C-110
(Rev. 7-60)

FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE

Company or Operator	Lease	Well No.
El Paso Natural Gas Company	San Juan 28-4 Unit	27

Unit Letter	Section	Township	Range	County
N	19	28-N	4-W	Rio Arriba

Pool	Kind of Lease (State, Fed, Fee)
Blanco Mesa Verde	Federal

If well produces oil or condensate give location of tanks	Unit Letter	Section	Township	Range

Authorized transporter of oil ☐ or condensate ☒

El Paso Natural Gas ~~Products~~ Company

Address (give address to which approved copy of this form is to be sent)

Is Gas Actually Connected? Yes _____ No X

Authorized transporter of casing head gas ☐ or dry gas ☒

El Paso Natural Gas Company

Date Connected

Address (give address to which approved copy of this form is to be sent)

Box 990, Farmington, New Mexico

If gas is not being sold, give reasons and also explain its present disposition:

REASON(S) FOR FILING (please check proper box)

New Well . . . . . ☒

Change in Transporter (check one)

Oil . . . . . ☐ Dry Gas . . . . ☐

Casing head gas . ☐ Condensate . . ☐

Change in Ownership . . . . . ☐

Other (explain below)

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Remarks

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 31 day of October, 19 61

OIL CONSERVATION COMMISSION	By
Approved by: Original Signed Emery C. Arnold	ORIGINAL SIGNED A.M. SMITH
Title: Supervisor Dist. # 3	Title: Petroleum Engineer
Date: NOV 6 1961	Company: El Paso Natural Gas Company
	Address: Box 990, Farmington, New Mexico

STATE OF NEW MEXICO

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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