MIDLAND, TEXAS / FARMINGTON, NEW MEXICO

Associated with Dennis Owens Co.

P. O. Box 5247 Midland, Texas 79701

May 18, 1970

El Paso Natural Gas Co. P. O. Box 990 Farmington, New Mexico

Attention: Mr. Carl E. Matthews

L-23-27N-5W

Subject:

Temperature Survey
San Juan 27-5 Unit No. 120
Basin Dakota Field
Rio Arriba County, New Mexico
Our File No. 2-3890-T

Gentlemen:

Attached hereto are the results of a temperature survey which was made on the above captioned well May 3, 1970.

The data presented are in graphical form.

It has been our pleasure to have conducted this service for you. If we may be of further assistance, please call us at anytime.

Respectfully submitted,

TEFTELLER INC.

No. 1 7000 -17 ---

NT/ct

MAY 22 1970
OIL CON. COM.
DIST. 3



Page	1 of	1
File	2-3890-T	

	TEMPERATURE SUR	/EY LOG
DEPTH		COMPANY EL PASO NATURAL GAS COMPANY LEASE SAN JUAN 27-5 UNIT WELL NO. 120 FIELD BASIN DAKOTA
		FIELD BASIN DAKOTA
		COUNTY RIO ARRIBA STATE NEW MEXICO
		CASING SIZE 7 SET @ 3514
500		HOLE SIZETO
•		CEMENT
		PLUG DOWNTIME
		SURVEY RUN 5-3-70 TIME 2300 1
1000		TOTAL DEPTH RECORDED 3442
		RECORDED BY
		REMARKS
	23064	
	X 2300	
1500		
2000	The state of the s	
2500		TOTAL DE 70%
		> PRODEDED 3442*
ļ		
	Name of the second seco	
3000		
	X X	
ļ		
	X	
3500		
1		
4000		
	70 8 0 9 0 1 <i>0</i> 0	
4500		
	TEMPERATURE IN D	EGREES FAHRENHEIT

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE _

Operator		Lease				
El Paso Natural Gas Con	mpany	San Juan 27-5 Unit No. 120				
Location 1840 S, 800 W, Sec. 23	, T27N, R5W	County Rio Arriba	State New Mexico			
Formation Dakota		Pool Basin				
Casing: Diameter 4.500	7809	Tubing: Diameter	Set At: Feet 7663			
Pay Zone: From To	7688	Total Depth: 7809	Shut In 5-20-70			
Stimulation Method		Flow Through Casing XX	Flow Through Tubing			

Choke Size, Inches		Choke Constant: C 12.365					
Shut-In Pressure, Casing, 2638	, PSIG	+ 12 = PSIA 2650	Days Shut-In	Shut-In Pressure, Tubing 2355	PSIG	+ 12 = PSIA 2367	
Flowing Pressure: P 222	PSIG	+ 12 = PSIA 23 ¹ 4		Working Pressure: Pw 488	+ 12 = PSIA 500		
Temperature: T= 68 °F Ft:	9924	n =	· 5	Fpv (From Tables)		Gravity 650 Fg = .9608	

CHOKE VO	DLUME =	Q =	С	×	Р.	x	F.	х	F۵	x	Fpv

Q = 12.365 x 234 x .9924 x .9608 x 1.022 = 2820

_____ MCF/D

OPEN FLOW = Aof = Q
$$\begin{pmatrix} & & & \\ & \frac{2}{P_c} & \\ & P_c & P_w \end{pmatrix}$$

Note: well produced light fog of water and distillate throughout test.

Aof =
$$\begin{pmatrix} \frac{7022500}{6772500} \end{pmatrix}$$
 = $(2820)(1.0369)^{.75} = (1.0275)(2820)$

Aof = 2898 MCF/D

OIL CON. COM.

TESTED BY Jesse B. Goodwin

WITNESSED BY_____