NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 12-65

Type Test: [XX] Initial [ ] Annual [ ] Special — Test Date: 2/5/75

Company: Southern Union Production Co. — Connection: Southern Union Gathering Co. — Unit:

Pool: Aztec — Formation: Pictured Cliffs — County:

Completion Date: 1/20/75 — Total Depth: 4760 — Plug Back TD: 4706 — Elevation: 5760 R.K.B. — Farm or Lease Name: Lester

Csg. Size	Wt.	d	Set At	Perforations	Well No.
5.500	15.50	4.950		From 2282 To 2326	1

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
1.660	2.33	1.380	2225	From No Perforations	H	3	30N	11W

Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual Gas - Gas — Packer Set At: 4507 — County: San Juan

Producing Thru: Tubing — Reservoir Temp. °F: @ — Mean Annual Temp. °F — Baro. Press. – P_a: 12 — State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
2213		0.620						

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Data Press. p.s.i.g.	Tubing Data Temp. °F	Casing Data Press. p.s.i.g.	Casing Data Temp. °F	Duration of Flow
SI	2"		3/4"				383		383		15 Days
1.							71	58°	295		3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		83	1.0019	0.9837	1.000	1011
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio ____ bbl.
A.P.I. Gravity of Liquid Hydrocarbons ____ Deg.
Specific Gravity Separator Gas ____ XXXXXX ____ X.
Specific Gravity Flowing Fluid ____ XXXXX ____
Critical Pressure ____ P.S.I.A. ____ P.S.I.A.
Critical Temperature ____ R ____ R

P_c 395 — P_c^2 156,025

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		307	94,249	61,776
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.5257$ — n = 2.1978

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2222$

Absolute Open Flow 2222 Mcfd — Angle of Slope θ ____ — Slope, n 0.85

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Kenneth E. Roddy	Kenneth E. Roddy	

FEB 6 1975
OIL CON. COM.
DIST. 3