NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-55

Type Test: ☐ Initial ☐ Annual ☒ Special				Test Date: 1-27-78	
Company: Southland Royalty Company			Connection: El Paso Natural Gas Company		
Pool: Kutz			Formation: Gallup		Unit
Completion Date: 7-21-60	Total Depth: 6037'		Plug Back TD: 6005'	Elevation: 6161 GR	Farm or Lease Name: Frontier "B"
Csg. Size: 5.500 / Wt.: 15.50# / d: 4.950 / Set At: 6037'			Perforations: From 5858' To 5889'		Well No.: 4
Tbg. Size: 2.375 / Wt.: 4.70# / d: 1.995 / Set At: 5933'			Perforations: From 5936' To 5969'		Unit: M / Sec.: 4 / Twp.: 27N / Rge.: 11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 5730'		County: San Juan
Producing Thru: Csg.	Reservoir Temp. °F: @	Mean Annual Temp. °F	Baro. Press. – P_a: 12.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.700						

	FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI								547		
1.	2"	X 3/4"						52		1 Hour
2.								40		2 Hours
3.								33		3 Hours
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	12.365		45.2	1.0000	.9258	1.0000	517
2.							
3.							
4.							
5.							

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

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 559.2 P_c^2 312,705

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		45.2	2043	310,662
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0066$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0049$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 520$

FEB 13 1978
OIL CON. COM.
DIST. 3

Absolute Open Flow 520 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Donnie Thompson	James Smith	