STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 8-27-81	
Company: Southland Royalty Company		Connection: Southern Union Gathering		
Pool: Undesignated		Formation: Gallup		Unit
Completion Date: 8-7-81	Total Depth: 7126'	Plug Back TD: 7071'	Elevation: 5925' GR	Farm or Lease Name: Nye
Csg. Size: 7.625 / 5.500 / 2.375	Wt.: 26.40# / 17# / 15.50# / 4.70#	d: 6.969 / 4.892 / 4.950 / 1.995	Set At: 4670' / 4501-7117' / 6257'	Perforations: From To; Perforations: From 6154' To 6288'
				Well No.: 11-E
				Unit: L; Sec.: 1; Twp.: 30N; Rge.: 11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - G.G.		Packer Set At: -----		County: San Juan
Producing Thru: Tubing	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					1159		1161		
1.	2" X 3/8"				398		577		1 hr
2.					226		383		2 hrs
3.					167		296		3 hrs
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	3.03		179.2	1.0000	.9258	1.0000	503
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid _____ XXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1173.2 P_c^2 1376398.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		308.2	94987.2	1281411.0
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0741$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0551$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 531$

RECEIVED
SEP 11 1981
OIL CON. COM.
DIST. 3

Absolute Open Flow 531 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Mike Cattaneo	James Smith	L. O. Van Ryan