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: 8/28/81			
Company: Southland Royalty Company				Connection: Southern Union Gathering			
Pool: Basin				Formation: Dakota		Unit	
Completion Date: 8-08-81		Total Depth: 6478'		Plug Back TD: 6437'	Elevation: 5613' GR	Farm or Lease Name: Cozzens	
Csg. Size: 5.500	Wt.: 15.5#	d: 4.950	Set At: 6478'	Perforations: From To		Well No.: 6-E	
Tbg. Size: 2.375	Wt.: 4.7#	d: 1.995	Set At: 6409'	Perforations: From 6215' To 6450'		Unit: J Sec.: 18 Twp.: 29N 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: .700	% CO_2	% N_2	% H_2S	Prover	Meter Run / Taps

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							1333		1333		
1.	2"	X	3/4"				185		761		1 hr
2.							79		537		2 hrs
3.							43		487		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	12.365		55.2	1.0000	.9258	1.0000	632
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	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

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

P_c 1345.2 P_c^2 1809563.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		499.2	249200.6	1560362.4
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1597$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1175$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 706$

Absolute Open Flow 706 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Kelly Maxwell	James Smith	L. O. Van Ryan