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: 4-30-81	
Company: Southland Royalty Company		Connection: Southern Union Gathering		
Pool: Basin		Formation: Dakota		Unit
Completion Date: 4-17-81	Total Depth: 6260'	Plug Back TD: 6227'	Elevation: 5484' GR	Farm or Lease Name: Cozzens "B"
Csg. Size: 4.500 / Wt.: 10.5# / d: 4.052 / Set At: 6260'		Perforations: From To		Well No.: 1-E
Tbg. Size: 2.375 / Wt.: 4.7# / d: 1.995 / Set At: 6223'		Perforations: From 6051' To 6226'		Unit: J / Sec.: 19 / Twp.: 29N / Rge.: 11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - 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

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							1359		1492		
1.	2"		3/4"				218		554		1 hr
2.							121		442		2 hrs
3.							108		416		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		120.2	1.0000	.9258	1.000	1376
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

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MAY 11 1981
OIL CON. COM.
DIST. 3

P_c 1504.2 P_c^2 2262617.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		428.2	183355.2	2079262.4
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0882$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0654$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1466$

Absolute Open Flow 1466 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