NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 1-14-80	
Company: Southland Royalty Company		Connection: Southern Union Gathering		
Pool: Undesignated		Formation: Fruitland		Unit
Completion Date: 12-31-79	Total Depth: 7340'	Plug Back TD: 7295'	Elevation: 6087'	Farm or Lease Name: Grenier
Csg. Size: 7.625 / 5.500	Wt.: 26# / 15.5#	d: 6.969 / 4.892	Set At: 4819' / 4663'-7304'	Perforations: From 2345' To 2358'
Well No.: 11E				
Thg. Size: 1.900	Wt.: 2.76#	d: 1.610	Set At: 2636'	Perforations: From To
Unit: N	Sec.: 13	Twp.: 31N	Rge.: 12W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple		Packer Set At: 4700'	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							758		758		
1.							64		280		1 Hour
2.							45		210		2 Hours
3.							32		185		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		44.2	1.0000	.9258	1.0000	506
2.							
3.							
4.							
5.							

NO.	P_t	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 770.2 P_c^2 593208.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		197.2	38887.8	554320.2
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0702$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0593$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 536$

Absolute Open Flow _____ Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

RECEIVED
JAN 28 1980
OIL CON. COM.
DIST. 3

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Mick Ferrari	James Smith	