ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501 Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 7-11-91	
Company: SOUTHLAND ROYALTY CO.		Connection: EPNG		
Pool: BLANCO		Formation: MESAVERDE		Unit
Completion Date: 7-23-91	Total Depth: 5680	Plug Back TD: 5638	Elevation: 6268 GL	Farm or Lease Name: HILL
Csg. Size: 7" 4½"	Wt.: 23 10.5	d	Set At: 3295 2151-5680	Perforations: From 5157 To 5540
Well No.: 3R				
Tbg. Size: 2-3/8	Wt.: 4.7	d	Set At: 5410	Perforations: From To
Unit: H	Sec.: 10	Twp.: 29N	Rge.: 8W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI	2"	.750				170		470		
1.					60	152		467		30 min
2.					60	147		466		45 min
3.					60	141		462		60 min
4.					60	136		454		2 hrs
5.					60	130		453		3 hrs.

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		142.2	1.000	.9258	1.000	1628
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_f	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 482.2 P_c^2 232517

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		465.2	216411	16106
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 14.4367$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7.4063$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 12057$

Absolute Open Flow _____ Mcfd @ 15.02 Angle of Slope _____ Slope, n 0.75

Remarks: No Fluids During Test

RECEIVED
JUL 17 1991.
OIL CON. DIV.
DIST. 3

Approved By Division	Conducted By:	Calculated By:	Checked By: