

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-2-78			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Blanco				Formation Pictured Cliffs				Unit	
Completion Date 5-29-78		Total Depth 5778'		Plug Back TD 5725'		Elevation 6510' GL		Farm or Lease Name Dalsant	
Gr. Size 7.000	Wt. 20#	d 6.456	Set At 3356	Perforations: From 3065 To 3123		Well No. 1A			
4.500	10.5#	d 4.052	Set At 3248-5771	Perforations: From To		Unit Sec. Twp. Rge. I 24 32N 12W			
1.660	2.4#	1.380	3148						
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Multiple						Packer Set At 3316		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico	
L	H	G _g .700	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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.	
SI							1031		1033	
1.	2" x 3/4"						130		625	1 hr.
2.							103		512	2 hrs.
3.							95		443	3 hrs.
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		107.2	1.0000	.9258	1.0000	1227
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1045.2 P _c ² 1,092,443				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		455.2	207,207	885,236
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.2341$$

$$AOI = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,467$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1958$$

Absolute Open Flow 1,467 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n 85
--	------------------------	----------------

Remarks: _____

Approved By Commission:	Conducted By: Jim Bacon	Calculated By: James Smith	Checked By:
-------------------------	----------------------------	-------------------------------	-----------------