

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

Form C-177
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-2-78			
Company Southland Royalty Co.				Connection Southern Union Gathering					
Pool Blanco				Formation Mesa Verde				Unit	
Completion Date 5-17-78		Total Depth 5388'		Plug Back TD 5293'		Elevation 6210' GR		Farm or Lease Name Hubbard	
Cas. Size 7.000	Wt. 20#	d 6.456	Set At 2974'	Perforations: From 4462' To 4906'		Well No. #1A			
Tbg. Size 4.500	Wt. 10.50#	d 4.052	Set At 2809-5385	Perforations: From 4992' To 5218'		Unit Soc. Twp. Page I 22-T32N-R12W			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At ----		County San Juan			
Producing Thru Tbg		Reservoir Temp. °F @		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.	Temp. °F	
1.	2"	X	3/4"				742		924		1 hr
2.							360		880		2 hrs
3.							280		867		3 hrs
4.							275		857		
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1.	12.365		287.2	1.0000	.9258	1.0000	3,288
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	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 936.2	P _c ² 876,470	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 7.2459$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.4164$	
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1.		869.2	755,509	120,961
2.				
3.				
4.				
5.				

Absolute Open Flow 14,521		Mcf @ 15.025	Angle of Slope θ	Slope, n .75
Remarks: Unloading slugs of H ₂ O				

Approved by Commission:	Conducted by: Jim Bacon	Calculated by: James Smith	Checked by:
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