

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR

RECEIVED
OCT 04 1984
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-27-84			
Company Southland Royalty Company				Connection Southern Union Gathering			
Pool Blanco				Formation Mesaverde			
Completion Date 9/21/84		Total Depth 4850'		Plug Back TD 4754'		Elevation 5737' GL	
Farm or Lease Name Bolack Federal		Well No. 1		Unit M		Sec. Twp. Rge. 1 30N 12W	
Cap. Size 7.000 4.500	Wt. 23# 10.5#	d 6.366 4.052	Set At 2500' 2375'-4800'	Perforations: From To		Well No. 1	
Cap. Size 2.375	Wt. 4.7#	d 1.995	Set At 4417'	Perforations: From 4435' To 4664'		Unit Sec. Twp. Rge. M 1 30N 12W	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At ---		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F 12.2		State New Mexico	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run Taps
.700							

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							1043		1044	
1.	2"	X	3/4"				339		751	1 Hr
2.							298		678	2 Hrs
3.							273		630	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		285.2	1.0000	.9258	1.0000	3265
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 1056.2 P_c² 1115558.4

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5865$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4136$
1		642.2	412420.8	- 703137.6		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4616$

Absolute Open Flow	4616	Mcfd @ 15.025	Angle of Slope @	Slope, n .75
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Remarks: Medium mist throughout test

Approved by Division	Conducted By: Steve Kellenaers	Calculated By: James W. Smith	Checked By: C. Terry Hobbs
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