

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-13-85		NOV 22 1985	
Company Southland Royalty Company				Connection Gas Company of New Mexico			
Pool Blanco				Formation Mesaverde			
Completion Date 10-26-85		Total Depth 8243'		Plug Back TD 8240'		Elevation 7062' GL	
Farm or Lease Name Jicarilla 101				Well No. 3E			
Csg. Size 7.625		Wt. 26.4#		Set At 4086'		Perforations: From To	
5.500		15.5/17#		4.950/4892		3932-8242	
Thp. Size 1.900		Wt. 2.76#		Set At 6033'		Perforations: From 5518' To 6141'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. - Multiple				Packer Set At 6849'		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a New Mexico	
L	H	Gg	% 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.	
51							767		765	
1.	2" X 3/4"						147		637	1 hr
2.							115		605	2 hrs
3.							117		588	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 Fg	Super. Compres. Factor Fpv	Rate of Flow Q, Mcfd
1	12.365		129.2	1.0000	.9258	1.0000	1479
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2.										
3.										
4.										
5.										

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1	600.2	360240.0	246912.6		2.4590	1.9637
2.						
3.						
4.						
5.						

Absolute Open Flow				Angle of Slope		Slope, n	
2904				15.025		.75	

Remarks:			
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Approved By Division	Conducted By: Leroy Castleman	Calculated By: James W. Smith	Checked By: C. Terry Hobbs
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