

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

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-27-84	
Company Southland Royalty Company			Connection Southern Union Gathering		
Pool Blanco			Formation Mesaverde		Unit
Completion Date 8-19-84		Total Depth 5240'		Plug Back TD 5195'	Elevation 6140' GL
Farm or Lease Name Nye		Well No. 14A			
Casing Size 4.500	Wt. 20#	d 6.456	Set At 2805'	Perforations: From To	
Casing Size 4.500	Wt. 10.5#	d 4.052	Set At 2639-5197'	Perforations: From To	
Tube Size 2.375	Wt. 4.7#	d 1.995	Set At 4989'	From 4938' To 5160'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At -----	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F	
Baro. Press. - P _g 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							1024		1027	
1.	2"	X	3/4"				291		695	1 hr
2.							249		597	2 hrs
3.							222		537	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		234.2	1.0000	.9258	1.0000	2681
2.							
3.							
4.							
5.							

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

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1		549.2	301620.6	778316	1.3875	1.2784
2						
3						
4						
5						

Absolute Open Flow 3428 Mcfd @ 15.025				Angle of Slope θ		Slope, n .75	
Remarks: Misting intermittently							

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