

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 12-04-84	
Company Southland Royalty Company		Connection Northwest Pipeline Corporation	
Pool Albino		Formation Pictured Cliffs	
Completion Date 11-13-84	Total Depth 3610'	Plug Back TD 3575'	Elevation 6566' GL
Farm or Lease Name Reese Mesa		Well No. 11	
Csq. Size 2.875	Wt. 6.5#	d 2.441	Set At 3584'
Perforations: From 3357' To 3380'	Unit G 13 32N 8W		
Thg. Size ---	Wt. ---	d ---	Set At ---
Perforations: From --- To ---	County San Juan		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At ---	State New Mexico
Producing Thru Casing	Reservoir Temp. °F #	Mean Annual Temp. °F #	Baro. Press. - P _g 12.2
L	H	G _g	% CO ₂
		.700	% 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									1102	
1.	2" X 3/4"								34	1 Hr
2.									18	2 Hrs
3.									16	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		28.2	1.0000	.9258	1.0000	323
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

NO.	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_c^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n =$
1		28.2	795.2	1.0006	1.0005
2					
3					
4					
5					

$AOF = Q \left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 323$

Absolute Open Flow	323	Mcfd @ 15.025	Angle of Slope θ	Slope, n .85
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Remarks: Sand from 15 mins on.

Approved By Division	Conducted By: Dick Irvin	Calculated By: James W. Smith	Checked By: C. Terry Hobbs
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