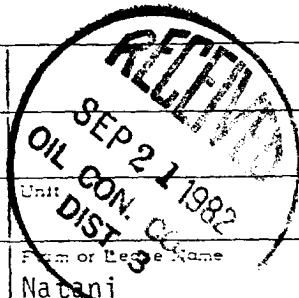


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 9/01/82	
Company: Northwest Exploration Co.				Connection: New Completion	
Pool: Undesignated				Formation: Rusty Chacra	
Completion Date: 08-10-82		Total Depth: 1945'		Plug Back TD: 1865'	
		Elevation: 6959'		Form or Lease Name: Natani	
Csg. Size: 4.500	Wt. 10.5	d 4.052	Set At 1934'	Perforations: From 1613' To 1710'	
Tqg. Size: 2.375	Wt. 4.7	d 1.995	Set At 1639'	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At: None	
Gas - Single				County: Sandoval	
Producing Thru Tubing		Reservoir Temp. °F: 8		Baro. Press. - P _a : 12.0	
		Mean Annual Temp. °F		State: New Mexico	
L	H	Gg est. .630	% CO ₂	% N ₂	% H ₂ S
				positive choke	
				Meter Run	
				Taps	



FLOW DATA							TUSING DATA		CASING DATA		Duration of Flow
NO.	Flow Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	Shut-in Pressure						411		411		
1.	2"	X	.750"	126		67 ⁰	126		190		3 hrs.
2.											
3.											
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	9.604		138	.9933	1.260	1.012	1679
2.							
3.							
4.							
5.							

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

P _r 423	P _r ² 178929		
NO.	P _r ²	P _w	P _w ²
1		202	40804
2			
3			
4			
5			

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.2954$ (2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.2142$

ACF = 0 $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2038$

Absolute Open Flow: 2038 Mcfd @ 15.025		Angle of Slope θ: _____		Slope, n: .75	
Remarks: Produced dry gas. Vented 246 MCF.					
Approved By Commission:		Conducted By: Ross Gallegos		Checked By: Sandy Wilson	

62B