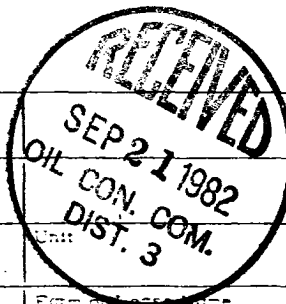


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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 08-08-82		Total Depth 1788'	Plug Back TD 1764'		Elevation 6898'
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 1775'	Perforations: From 1502' To 1584'	Well No. #16
Tub. Size 2.375	Wt. 4.7	d 1.995	Set At 1521'	Perforations: From To	Unit Sec. Twp. Rge. A 10 21N 6W
Type Well - Single - Brasshead - G.G. or G.O. Multiple Gas - Single				Packer Set At None	County Sandoval
Producing Thru Tubing		Reservoir Temp. °F 8	Mech. Annual Temp. °F		State New Mexico
L	H	Gg est. .630	% CO ₂	% N ₂	% H ₂ S positive choke

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover 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						410	.	414		
1.	2"	X	.750"	67		65 ⁰	67		110		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 _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf
1	9.604		79	.995	1.260	1.012	963
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 _r 425	P _w 181476				
NO.	P _r ²	P _w ²	P _r ²	P _w ²	P _r ² - P _w ²
1		122	14884	166592	
2					
3					
4					
5					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0893$ (2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0663$

ACF = C $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1027$

Absolute Open Flow 1027	Mcf @ 15.025	Angle of Slope θ _____	Slope, n .75
Remarks: Produced dry gas. Vented 154 MCF.			

Approved by Commission	Conducted By: D. J. Gallardo	Calculated By: D. J. Broughton	Checked By: D. J. Broughton B3B
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