

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 2-4-80	
Company Northwest Exploration Co.		Connection New Well	
Pool Unnamed		Formation Chacra	
Completion Date 10-28-79	Total Depth 1950	Blue Book TD 1805	Elevation 7053
Farm or Lease Name Natani		Well No. #2	
Csg. Size 2.875	Wt. 6.4	d 2.441	Set At 1931
Perforations: From 1682		To 1752	
Thq. Size None	Wt.	d	Set At
Perforations: From		To	
Unit F	Sec. 12	Twp. 21N	Rge. 6W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas-Tubingless completion		Packer Set At None	
County Sandoval		State New Mexico	
Producing Thru Casing	Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _a 12.0
L	H	G _g	% CO ₂
			% N ₂
			% H ₂ S
			Prover 3/4" Choke
			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.	Temp. °F	
SI									291		SIP
1.	2"	X	.750	42		45 ⁰			42		3 hour
2.	2"	X	.750	18		42 ⁰			18		24 hour
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		54	1.015	1.268	1.003	669
2	9.604		30	1.018	1.268	1.003	373
3.							
4.							
5.							

NO.	P _t	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 _c 303	P _c ² 91809	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0328$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0278$
NO.	P _t ²	P _w	P _w ²
1		54	2916
2			
3			
4			
5			

AOF = Q	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 688$
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Absolute Open Flow	3 hour 688	Mcf/d @ 15.025	Angle of Slope	.85
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Remarks: Well produced very light mist of water through out test			
Approved By Commission:	Conducted By: F.S. Hamrick	Calculated By: F.S. Hamrick	Checked By: OIL CON. DIV. DIST. 3