

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 9-4-79	
Company Northwest Exploration Company		Connection New Completion	
Pool Wildcat		Formation Chacra	
Completion Date August 24, 1979	Total Depth 3630	Plug Back TD 2929	Elevation 6985 GR
Form or Lease Name Natani		Well No. #1	
Csg. Size 5.500	Wt. 15.5	d 4.950	Set At 3630
Perforations: From 1580 To 1662		Well No. #1	
Tubg. Size 2.375	Wt. 4.7	d 1.995	Set At 1579
Perforations: From To		Unit P	Sec. 11
		Twp. 21N	Rge. 6W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single		Packer Set At None	County Sandoval County
Producing Thru Tubing	Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. - P _a 12.0
State New Mexico			
L	H	Gg .60 (est.)	% CO ₂
		% N ₂	% H ₂ S
Prover Pos. 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							406		415		S.I.P.
1.	2 X .750			33		60	33		72		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		45	1.000	1.291	1.003	559
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 _c 427	P _c ² 182329	(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.0403$	(2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.0341$
NO. 1	P _e ² 84	P _w ² 7056	P _c ² - P _w ² 175273
2			
3			
4			
5			

ACF = Q $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 578$

Absolute Open Flow 578 Mcfd @ 15.025 Angle of Slope 0

SEP 20 1979

OIL CON. COM.

DIST. 3

Slope, n .85

Remarks: Well produced very light mist of water through-out test.

Approved By Commission:	Conducted By: Fred Hamrick	Calculated By: B.J. Broughton	Checked By:
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