

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

Form C-122
Revised 9-1-80

RECEIVED
JAN 23 1984
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 01/04/84	
Company Northwest Pipeline Corporation		Connection New Completion	
Pool Basin		Formation Dakota	
Completion Date 12/08/83		Total Depth 7815'	Plug Back TD 7780'
		Elevation 6232' KB	Form or Lease Name San Juan 31-6 Unit
Csg. Size 4.500	Wt. 11.6	d 4.052	Set At 7805'
Perforations: From 7620' To 7668'		Well No. #45	
Tog. Size 2.375	Wt. 4.7	d 1.995	Set At 7621'
Perforations: From To		Unit Sec. Twp. Rge. B 31 31 6	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single		Packer Set At None	County Rio Arriba
Producing Thru Tubing	Reservoir Temp. °F -	Mean Annual Temp. °F -	Baro. Press. - P _a 12.0
State New Mexico			
L	H	G _g Est. .590	% CO ₂ % N ₂ % H ₂ S Positive Meter Run Taps
Choke			

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.	
1	SIP						2830		2835	
2	2"	X	.750"			61°	98	61°	419	61°
3										
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	9.604		110	.999	1.302	1.010	1388
2							
3							
4							
5							

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

P _c 2847	P _c ² 8105409				
NO. 1	P _r ² 431	P _w ² 185761	P _c ² - P _w ² 7919648	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0235$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0175$
2				ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1412$	
3					
4					
5					

Absolute Open Flow	1412	Mcfd @ 15.025	Angle of Slope @	Slope, n .75
Remarks: Produced light mist throughout test. Vented 221 MCF.				
Approved By Commission:		Conducted By: Chik Charley	Calculated By: M.J. Turnbaugh	Checked By:

SKI 7