

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

RECEIVED
JAN 23 1984
OIL CON. DIV
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 01/10/84	
Company Northwest Pipeline Corporation		Connection New Completion	
Pool Basin		Formation Dakota	
Completion Date 12/15/83		Total Depth 7875'	Plug Back TD 7740'
		Elevation 6323' GR	Form or Lease Name San Juan 31-6 Unit
Csg. Size 4.500	Wt. 11.6	d 4.052	Set At 7868'
Perforations: From 7744'	To 7792'		Well No. #47
Tub. Size 2.375	Wt. 4.7	d 1.995	Set At 7719'
Perforations: From		To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single		Packer Set At None	Unit Sec. Twp. Rge. L 32 31 6
Producing Thru Tubing	Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _a 12.0
County Rio Arriba		State New Mexico	
L	H	G _g Est. .590	% CO ₂ % N ₂ % H ₂ S
Positive 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		
1.	2"	X	.750"			64	2705	166	64	2710	64	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 Ft.	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1.	9.604		178	.996	1.302	1.013	2246
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	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 2722	P _c ² 7409284
NO. 1	P _f ² 633
2	P _w 400689
3	P _w ² 7008595
4	
5	

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0572$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2342$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0426$$

Absolute Open Flow 2342	Mcf @ 15.025	Angle of Slope @ _____	Slope, n .75
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Remarks: Produced light mist throughout test. Vented 348 MCF.

Approved By Commission:	Conducted By: Chik Charley	Calculated By: M.J. Turnbaugh	Checked By:
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