

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

Form C-122
Revised 5-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special		Date: 9/5/78	
Company: Northwest Pipeline Corporation		Connection: New Completion	
Pool: Basin		Formation: Dakota	
Completion Date: 8/25/78		Total Length: 8830	
Flow Back TD: 8782		Elevation: 7459	
Csg. Size: 4.500		Well No.: #91	
Wt.: 10.5		Set At: 8827	
Perforations: From 8726 To 8736		Form or Lease Name: San Juan 29-5 Unit	
Trg. Size: 2.375		Set At: 8750	
Perforations: From To		Unit: B	
Type Well: Single - Brasshead - G.G. or G.O. Multiple		Packer Set At: None	
Gas - Single		County: Rio Arriba	
Producing Thru: Tubing		State: New Mexico	
Reservoir Temp. °F: 6		Mean Annual Temp. °F: 12.0	
Baro. Press. - P _a : 12.0		Meter Run: Positive Choke	
L: .590		H: .590	
G _g : .590		% CO ₂ : .590	
% N ₂ : .590		% H ₂ S: .590	

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	332		78°	332		1250		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, Mscf
1	9.604		334	.984	1.302	1.021	4322
2							
3							
4							
5							

NO.	R _f	Temp. °R	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.
5			Critical Temperature	R

NO.	P _c	P _c ²	P _w	R _w ²	P _c ² - P _w ²
1	2651	7072801	1262	1592644	5435157
2					
3					
4					
5					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2930$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2125$	
ACF = $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5240$			

Absolute Open Flow: 5240	Mold @ 15.025	Angle of Slope: .75
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Remarks: Well unloaded heavy water at start of test then cleared to light mist of water.

Approved By Commission:	Conducted By: Wilford Charley	Calculated By: B.J. Broughton	Checked By:
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