NA106

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

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 3-27-81	
Company: Northwest Pipeline Corporation		Connection: New Completion			
Pool: Blanco		Formation: Mesa Verde		Unit	
Completion Date: 3-06-81	Total Depth: 6348	Plug Back TD: 6300	Elevation: 7167	Farm or Lease Name: Jicarilla 92	
Csg. Size: 7.000 / 4.500	Wt.: 20.0 / 10.5	d: 6.462 / 4.052	Set At: 4340 / 4085-6348	Perforations: From 5752 To 6260	Well No.: #15
Tbg. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: 6098	Perforations: From To	Unit: Sec. 30 Twp. 27N Rge. 3W
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	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		est. .690				positive choke		

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							1178		1178		SIP
1.	2"	X	.750	340		60°	340		825		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q Mcfd
1	9.604		352	1.000	1.204	1.037	4221
2.							
3.							
4.							
5.							

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NO.	P_t	Temp. °R	T_t	Z
1				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1100 P_c^2 1416100

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		837	700569	715531
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9791$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6686$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7043$

Absolute Open Flow 7043 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Well produced light mist of water with a trace of condensate. Vented 527 MCF.

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