NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☐ Initial ☐ Annual ☒ Special				Test Date: 04/25/86	
Company: Northwest Pipeline Corporation		Connection: New Completion			
Pool: Undesignated		Formation: Gallup			Unit: Rosa Unit
Completion Date: 10-02-84	Total Depth: 8881'	Plug Back TD: 8630'	Elevation: 7018' GR		Farm or Lease Name: Rosa Unit
Csg. Size: 4.500 / Wt.: 11.6 / d: 4.052 / Set At: 8881'		Perforations: From 7222' To 7631'			Well No.: #106
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 7946'		Perforations: From To			Unit: L / Sec.: 24 / Twp.: 31N / Rge.: 4W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - Single		Packer Set At: Bridge Plug 8300'			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: Est. .590	% CO_2	% N_2	% H_2S: Positive Choke / Meter Run / Taps

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI	SIP						2340		2390		
1.	2"	X	.750"			59°	83	59°	356	59°	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		95	1.001	1.302	1.006	1196
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1				
2.				
3.				
4.				
5.				

RECEIVED
MAY 14 1986
OIL CON. DIV.
DIST. 3

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 2402 P_c^2 5769604

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		368	135424	5634180
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0240$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0180$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1217$

Absolute Open Flow 1217 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: Well unloaded one slug of water after 5 minutes then turned to a light mist remainder of test.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	John Wright	S.K. Liese	M.J. Turnbaugh