NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Fo
Re

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 6-30-81	
Company: Northwest Pipeline Corporation	Connection: New Completion			
Pool: Gobernador	Formation: Pictured Cliffs			Unit: San Juan 29-5
Completion Date: 6-15-81	Total Depth: 6195'	Plug Back TD: 3850'	Elevation: 6795'	Farm or Lease Name: San Juan 29-5 Unit
Csg. Size: 7.000 / 4.500; Wt.: 20.0 / 10.5; d: 6.456 / 4.052; Set At: 4080' / 3884-6195		Perforations: From 3638' To 3795'		Well No.: #100 P.C.
Tbg. Size: 1.660; Wt.: 2.3; d: 1.380; Set At: 3708'		Perforations: From To		Unit: G; Sec.: 25; Twp.: 29N; Rge.: 5W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - Multiple Completion		Packer Set At: 3850'		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. .620	% CO_2	% N_2

% H_2S	Prover	Meter Run	Taps
	positive choke		

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							1081		1082		SIP
1.	2"	X	.750	172		52°	172		772		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		184	1.008	1.270	1.017	2301
2.							
3.							
4.							
5.							

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

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.

Specific Gravity Separator Gas _____ XXXXXXXXXX

Specific Gravity Flowing Fluid _____ XXXXXX

Critical Pressure _____ P.S.I.A. _____ P.S.I.A.

Critical Temperature _____ R _____ R

RECEIVED
JUL 16 1981
OIL CON. COM.
DIST. 3

P_c 1094 P_c^2 1196836

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		784	614656	582180
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0558$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.8451$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4246$

Absolute Open Flow 4246 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: Produced medium mist of water with a trace of condensate. Vented 289 MCF.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Ross Gallegos	B.J. Broughton	BJB