ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [x] Initial [ ] Annual [x] Special				Test Date: 4/13/85	
Company: Amoco Production Co.		Connection: Northwest Pipeline Corp.			
Pool: Basin		Formation: Dakota			Unit
Completion Date: 2/2/85	Total Depth: 8029	Plug Back TD: 7970	Elevation: 6179GR	Farm or Lease Name: Rosa Unit	
Csg. Size: 4.500 / Wt.: 11.6 / d: 4.000 / Set At: 8029		Perforations: From 7748 To 7852		Well No.: 107	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 7865		Perforations: From open To ended		Unit: K / Sec.: 4 / Twp.: 31 / Rge.: 5	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Commingle		Packer Set At: 7213		County: Rio Arriba	
Producing Thru: tubing	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State: New Mexico	
L	H	Gg	% CO_2	% N_2	% H_2S / Prover / Meter Run / Taps

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	62 days					2702		x		
1.	2.375	.750				126		x		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	12.365		138	1.000	.9258	1.016	1605
2.							
3.							
4.							
5.							

APR 30 1985
OIL CON. DIV.
DIST. 3

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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 2714 P_c^2 7365796

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		309	95481	7270315
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0131$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0098$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1620$

Absolute Open Flow 1620 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: Heavy spray H2O thru test
delay on test due to muddy road conditions

Approved By Division	Conducted By:	Calculated By:	Checked By:
	B&R Services	J.J. Barnett	