

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special										Test Date 11-4-83		RECEIVE	
Company Amoco Production Co.				Connection El Paso Natural Gas Co.				NOV 28 1983					
Pool Basin				Formation Dakota				Unit OIL CON. DIV. 1					
Completion Date 10-08-83		Total Depth 6654		Plug Back TD 6606		Elevation 6140GL		Farm or Lease Name Martin Gas Com "F"		DIST. 3			
Csg. Size 4.500	Wt. 10.5	ID 4.052	Set At 6654	Perforations: From 6393 To 6571		Well No. 1R							
Thq. Size 2.375	Wt. 4.7	ID 1.995	Set At 6558	Perforations: From Open To Ended		Unit F		Sec. 14	Twp. 27	Rge. 10			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		County San Juan					
Producing Thru tubing		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico					
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps					

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
SI	9 days						212		1017		
1.	2.375	.750					82		435		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, Mcfd
1	12.365		96	1.000	.9258	1.010	1110
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	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. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1029		P _c ² 1058841	
NO.	P _i ²	P _w	P _w ²
1		447	199809
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.2326$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1698$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1298$$

Absolute Open Flow 1298		Mcf/d @ 15.025	Angle of Slope θ _____	Slope, n .75
-------------------------	--	----------------	------------------------	--------------

Remarks: Flared. Heavy oil. Med H2O flow

Approved By Division	Conducted By: J.J. Barnett	Calculated By: J.J. Barnett	Checked By: [Signature]
----------------------	-------------------------------	--------------------------------	----------------------------