

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☒ Special					Test Date 3/19/81	
Company Amoco Production			Connection El Paso Natural Gas Company			
Pool Otero			Formation Chacra		Unit	
Completion Date 2/27/81		Total Depth 4019		Plug Back TD 3974		Elevation 6724
Csg. Size 4.500	Wt. 10.5	d 4052	Set At 4019	Perforations: From 3822 To 3850		Well No. 30
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 3848	Perforations: From open To ended		Unit Sec. Twp. Rge. C 9 25N 5W
Type Well - Single - Bradenhead - G.C. or G.O. Multiple single				Packer Set At None		County Rio Arriba
Producing Thru tubing		Reservoir Temp. °F P		Mean Annual Temp. °F		State New Mexico
L	H	Gg	% CO ₂	% H ₂	% H ₂ S	Prover
						Meter Run
						Tap

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	12 days						625		625		
1.	2.375		.750				22		155		3 hrs
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (1/1600)	$\sqrt{h_w P_{th}}$	Pressure P _{th}	Flow Temp. Factor F _L	Gravity Factor F _g	Super- Compress. Factor F _{sc}	Rate of Flow Q, MCF
1	12.365		34	1.000	.9608	1.024	406
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °F	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.L. 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

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²
1		167	27889	377880
2				
3				
4				
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0738$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0549$

AOI = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 428$

$P_r = 637$ $P_c = 2405769$

Absolute Open Flow	428	Mcf @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: med spray H₂O

Approved By: _____	Contacted By: _____	Calculated By: _____	Checked By: _____
	JLB	J. J. BARNETT	