

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 12-22-81			
Company Amoco Production Company				Connection Southern Union Gas Company					
Pool Basin				Formation Dakota				Unit	
Completion Date 11-20-81		Total Depth 6689		Plug Back TD 6648		Elevation 6060 GL		Farm or Lease Name R. P. Hargrave "J"	
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 6689	Perforations: From 6412 To 6580		Well No. 1E			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 6589	Perforations: From open To ended		Unit Sec. Twp. Rge. F 3 27N 10W			
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	13 Days						1020		1022		
1.	2.375		.750				68		364		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		80	1.000	.9258	1.009	924
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbon	Deq.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P_c 1034 P_c² 1069156

NO.	P _r	P _w	P _w ²	P _c ² - P _w ²
1		376	141376	927780
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1524$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1122$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1028$

Absolute Open Flow	1028	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	75
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Remarks:

Approved By Commission	Conducted By: J. J. Barnett	Calculated By: J. J. Barnett	Checked By:
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