

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

Form C-122
 Revised 9-1-65

Type ☒ Initial ☐ Annual ☒ Special				Test Date 4/24/81	
Company Amoco Production Company				Connection Southern Union Gas Company	
Well Ute Dome				Formation Dakota	
Completion Date 3/27/81		Total Depth 2444		Plug Back TD 2370	
Elevation 5882		Farm or Lease Name Ute Indians "A"			
Gr. Size 4.500	Wt. 10.5	d 4.052	Set At 2444	Perforations: From 2061 To 2188	
Gr. Size 2.375	Wt. 4.7	d 1.995	Set At 2200	Perforations: From open To ended	
Type - Well - Single - Broadhead - G.G. or G.O. Multiple Single				Pecker Set At None	
Production Data Tubing		Reservoir Temp. °F P		Mean Annual Temp. °F Boro. Press. = P _g	
County San Juan		State New Mexico		Well No. 17	
Unit D		Sec. 2		Twp. 31N	
Range 14		Elev. 11W		County San Juan	
Prover		Meter Run		Papa	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Flow 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.	
1.	1.5 Days						635		650	
1.	2.375		.750				278		422	
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 _{sp}	Rate of Flow Q, Mhd
1.	11.365		290	1.000	.9258	1.024	3433
2.							
3.							
4.							
5.							

NO.	P _g	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	Met/whl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	
3.					Specific Gravity Flowing Fluid	
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	°R

NO.	P _g	P _w	P _g ²	P _w ²	P _g ² - P _w ²
1.	434	188356	249888		
2.					
3.					
4.					
5.					

(1) $\frac{P_g^2}{P_g^2 - P_w^2} = 1.7538$

(2) $\left[\frac{P_g^2}{P_g^2 - P_w^2} \right]^n = 1.5240$

AOH = Q $\left[\frac{P_g^2}{P_g^2 - P_w^2} \right]^n = 5232$

APR 30 1981

OIL CON. COM.

DIST. 3

Actual Open Flow	5232	Mhd @ 15.0%	Angle of Slope @	Slope, n	.75
Remarks: Flowed dry.					

Approved By: JJE	Conducted By: JJE	Calculated By: J. J. BARNETT	Checked By:
------------------	-------------------	------------------------------	-------------