

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

Form C-122
 Revised 9-1-80

Type Test ☒ Initial ☐ Annual ☒ Special					Test Date 3/24/81	
Company Amoco Production Company				Connection Southern Union Gas Company		
Pool Ute Dome				Formation Dakota		Unit
Completion Date 03-07-81		Total Depth 2612		Plug Back TD 2575		Elevation 6141
Farm or Lease Name Ute Indians A						Well No. 16
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 2612	Perforations: From 2444 To 2542		
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 2534	Perforations: From open To ended		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At None		County San Juan
Producing Thru tubing		Reservoir Temp. °F ρ		Mean Annual Temp. °F		State New Mexico
L	H	Gg	% CO ₂	% H 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI	10 days						505		505	
1.	2.375		.750				130		278	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 _{sp}	Rate of Flow Q, Mcfd
1	12.365		142	1.000	.9258	1.016	1652
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 Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

$P_c = 517$ $P_c^2 = 267289$				
NO.	P _r	P _w	P _w ²	P _c ² - P _w ²
1		290	84100	183189
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.4591}{1.3276}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3276$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2193$$

Absolute Open Flow	2193	Mcf @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: flowed dry

Approved by Commission	Conducted By JJB	Calculated By J J BARNETT	Checked By
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