

MULTIPOINT AND ONE POINT BACK PRESSURE TEST OF GAS WELL

RECEIVED
JAN 17 1984

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 1-6-84			
Company Amoco Production Company				Connection Gas Company of New Mexico			
Pool Basin				Formation Dakota		Unit DIST. 3	
Completion Date 11-27-83		Total Depth 8054		Plug Back TD 8044		Elevation 6987 GL	
Farm or Lease Name Jicarilla Apache Tribal 151		Well No. 2e					
Csq. Size 4.500	Wt. 10.5	d 4.052	Set At 8054	Perforations: From 7842 To 8048			
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 8014	Perforations: From open To ended			
Type Well - Single - Bradenhead - G.G. 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	% 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	21 Days						1550		2230		
1.	2.375		.750				50		505		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		62	1.000	.9258	1.007	715
2.							
3.							
4.							
5.							

NO.	P _t	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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		517	267289	4759275
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0562$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 745$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0448$$

Absolute Open Flow	745	Mcfd @ 15.025	Angle of Slope θ	Slope, n	75
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Remarks: 7.000 inch landed at 3851 ft
Heavy water, did not flare

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