

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 2-26-81 3-9-81	
Company Cotton Petroleum Corp.		Connection EPNG	
Pool So. Blanco		Formation Pictured Cliff	
Completion Date 2-17-81		Total Depth 4070	Plug Back TD 3794
		Elevation 6964 GL	Farm or Lease Name Apache
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 4070
Perforations: From 2974 To 3032		Well No. 28	
Csg. Size 2.375	Wt. 4.7	d 1.995	Set At 3063
Perforations: From Open To Ended		Unit Sec. Twp. Rge. K 24 24 4	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F 6	Mean Annual Temp. °F 11.5 est.
Baro. Press. - P _a 11.5 est.		State New Mexico	
L	H	G _g .650	% 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
-26-81	9 days								938		No Flow
-9-81	11 days						893		906		3 hours
1.	2 inch	.750					171	52	596		
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd
1	12.3650		183	1.0078	.9608	1.018	2230
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	Deq.
2.					Specific Gravity Separator Gas	
3.					Specific Gravity Flowing Fluid	
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 918	P _c ² 842724	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7814$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.63362$
NO.	P _w	P _w ²	P _c ² - P _w ²
1	608	369664	473060
2			
3			
4			
5			

$AOI = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3643$

Absolute Open Flow	3643	Mcf @ 15.025	Angle of Slope	Slope, n .85
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Remarks: Revised test after tubing ran into hole.

Approved By Commission	Conducted By Joe Elledge	Calculated By Joe Elledge	Checked By Mr. Butch Cummins
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