

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 30-059-20303				
Company ARMED PRODUCTION COMPANY					Connection				
Pool BRAND DOME CARBON DIOXIDE GAS UNIT					Formation TUBB				
Completion Date 7/3/93		Total Depth 2296		Plug Back TD 2296		Elevation 4781		Farm or Lease Name L-6244	
Csg. Size 4.5" FG	Wt. 4.49	d 3.95	Set At 2158	Perforations: OPEN HOLE From 2158 To 2296			Well No. 2233-271F		
Thq. Size -	Wt. -	d -	Set At -	Perforations: From To			Unit F	Sec. 27	Twp. 22
Type well - Single - Broadhead - G.G. or G.O. Multiple SINGLE					Packer Set At		County UNION		
Producing Thru CASING-		Reservoir Temp. °F 95		Mean Annual Temp. °F 50		Baro. Press. - P _a 12.2		State NEW MEXICO	
-	H 2296	G _a 1.529	% CO ₂ 100	% N ₂ 0	% H ₂ S 0	Prover	Meter Run	Taps FLANGE	

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				270							
1.	4.026	x	0.250	238							0.45 HR
2.	4.026	x	0.375	209							0.66 HR
3.	4.026	x	0.500	169							0.62 HR
4.	4.026	x	0.750	111							1.78 HR
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor. F _{pv}	Rate of Flow Q, Mcfd
1.							236
2.							477
3.							721
4.							1590
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>DRY</u> Mcf/mbbl.	A.P.I. Gravity of Liquid Hydrocarbons <u>DRY</u> Deg.	Specific Gravity Separator Gas <u>1.529</u> XXXXXXXXXX	Specific Gravity Flowing Fluid <u>XXXXXX</u>	Critical Pressure <u>1072</u> P.S.I.A. P.S.I.A.	Critical Temperature <u>547</u> °R °R
1.										
2.										
3.										
4.										
5.										

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1.	282.2	79.637			
1.	250.2	62.601	17.035		
2.	221.2	48.929	30.707		
3.	181.2	32.833	46.803		
4.	123.2	15.178	64.489		
5.					

$$(1) \frac{P_r^2}{P_r^2 - P_w^2} = 4.675$$

$$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.0$$

$$(2) \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.898$$

Absolute Open Flow <u>2.0</u> Mcfd @ 15.025	Angle of Slope @ <u>0.69</u>
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