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1-F

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 8/4/82			
Company DEPCO, INC.				Connection not connected					
Pool Otero				Formation Chacra				Unit	
Completion Date 7/28/82		Total Depth 4700' KB		Plug Back TD 4629' KB		Elevation 6045' GL		Farm or Lease Name Miles Federal	
Cng. Size 5.500	Wt. 15.5#	d	Set At 4685' KB	Perforations: From 3070' To 3156'		Well No. 1-A (dual)			
Tbg. Size 1.660	Wt. 2.4#	d	Set At 3128' KB	Perforations: From To		Unit Sec. Twp. Rge. F 5 26N 7W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple						Packer Set At 3203' KB		County Rio Arriba	
Producing Thru Tbg.		Reservoir Temp. °F B		Mean Annual Temp. °F		Baro. Press. - P _a		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							987#		987#		7 day SI
1.	2"	X	3/4"				68#	56	489#		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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	12.3650		80	1.0039	1.0000	1.0000	993
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 _____ 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

P _r 999 P _c ² 998,001		$(1) \frac{P_c^2}{P_r^2 - P_w^2} = 1.3360$		$(2) \left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.2427$	
NO.	P _r ²	P _w ²	P _w ²	P _c ² - P _w ²	
1	6400	501	251,001	747,000	
2					
3					
4					
5					

$AOI = Q \left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1,234$		Absolute Open Flow <u>1,234</u> Mcfd @ 15.025 Angle of Slope θ _____ Slope, n <u>.75</u>	
Remarks _____			
Approved by Commission _____		Conducted by <u>Crum</u>	
Calculated by _____		Checked by _____	