

**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 7-24-81	
Company So. Union Exploration Co.		Connection Gas Co. of New Mexico	
Pool Blanco		Formation Mesaverde	
Completion Date 6-25-81		Total Depth 7430	Plug Back TD 5449
Casing Size 4.500		Well 10.5#	Set At 4.052
Perforations: From 5168 To 5339		Well No. 12-E	
Casing Size 2.375		Well 4.7#	Set At 1.995
Perforations: From Open To Ended		Unit M	Sec. 2
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At None	County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F #	Mean Annual Temp. °F
Baro. Press. - P _a 12 psia est.		State New Mexico	
L	H	G _g .650 est.	% 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
1	29 days						1272		1279		3 hours
2	2 inch		.750	47			47	52°	326		
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 _{pv}	Rate of Flow Q, Mcfd
1	12.3650		59	1.0078	.9608	1.007	711
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2										
3										
4										
5										

P _r 1291	P _c 1,666.681					
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.0681$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.05065$
1		326	106276	156040		
2						
3						
4						
5						

Absolute Open Flow 747 Mcfd @ 15.025 Angle of Slope 7.75

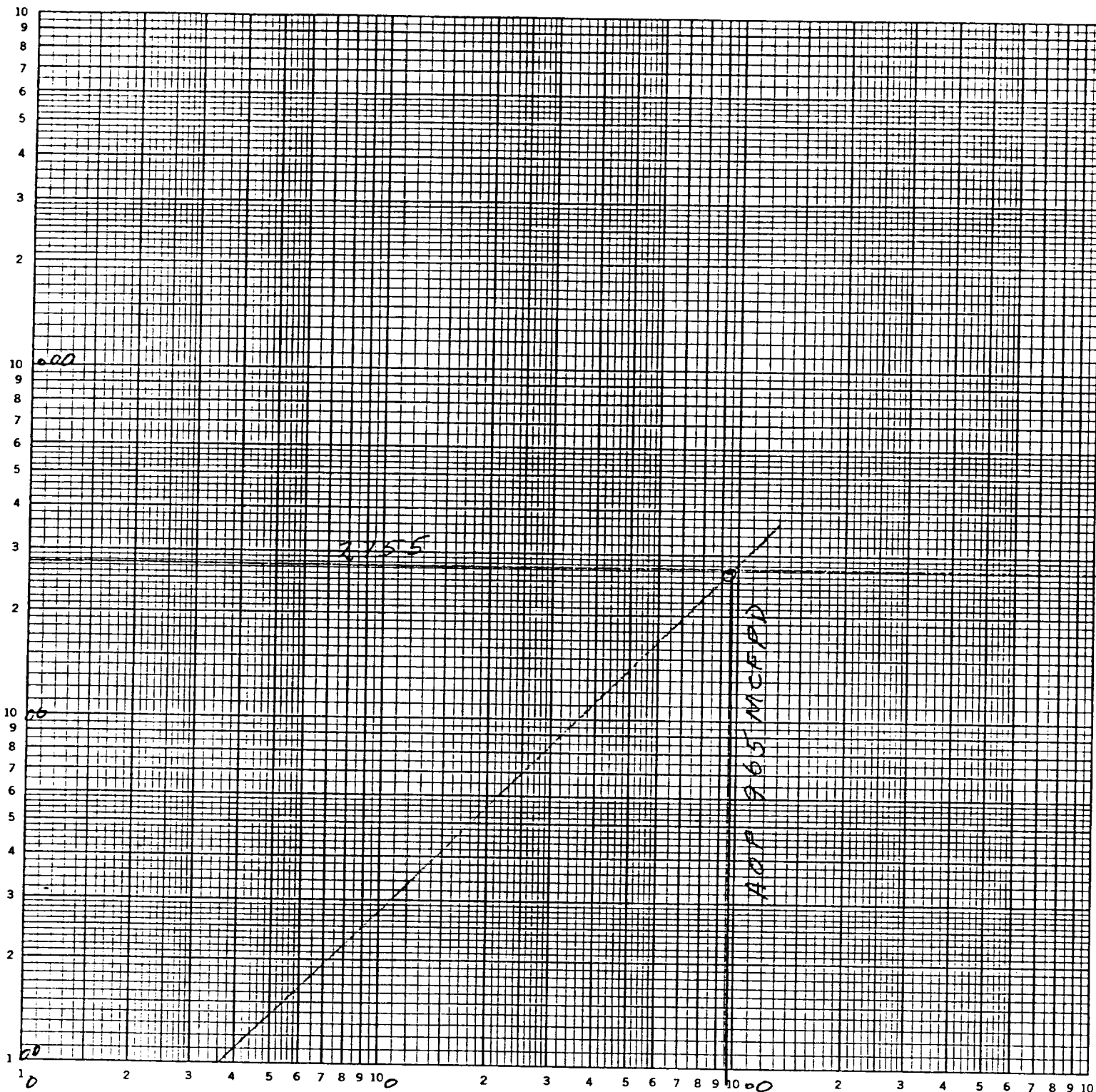
Remarks: Dry gas for 30 minutes. Heavy spray of water and oil for the remainder of test.

Approved By Commission	Conducted By Joe Elledge	Calculated By Joe Elledge	Checked By Mr. Ron Sentz
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Jicarilla "K" - 15E

467400

LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



P_c/P_T
1660
212

P_c^2/P_T^2
2755
4110

$P_c^2 - P_T^2$
—
2710

Q

Q - MCFPD