

**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 7-2-7	
Company City Oil Company			Connection as directed			
Pool Acmefield			Formation Permian		Unit	
Completion Date 7-2-7		Total Depth 12,000'		Plug Back TD 12,000'		Elevation 5720'
Farm or Lease Name Barrett						Well No. 1
Csg. Size 4.500	Wt. 4599.5	d 2.000	Set At 12197'	Perforations: From 12197' To 12157'		Well No.
Tbg. Size 1.900	Wt. 2.00	d 1.000	Set At 1255'	Perforations: From 0.000 To 0.000		Unit Sec. Twp. Rge. 12 29 41
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At -		County Lincoln
Producing Thru 12197'		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12
State New Mexico						
L 3.50	H 0.195	G _g 0.000	% 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							1205		1010		
1.	0.500	X	0.750				4	60	279		1
2.	2.000	X	0.750				51	60	279		1
3.	4.000	X	0.750				46	60	279		1
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.	10.00		76	1.270	1.231	1.007	1036
2.	11.00		63	1.000	1.231	1.007	59
3.	11.00		54	1.000	1.231	1.007	71
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 _c 1077	P _c 2115		
NO.	P _r ²	P _w	P _w ²
1.			
2.			
3.	3384	271	73461
4.			
5.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1077^2}{1077^2 - 271^2} = 1.0730$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1036 \times 1.0730 = 1110$

RECEIVED
JUL 12 1978
OIL CON. COM.
DIST. 3

Absolute Open Flow 1110 Mcfd @ 15.025	Angle of Slope 0	Slope, n 0.75
Remarks:		

Approved By Commission:	Conducted By: J. R. RICE	Calculated By: J. R. RICE	Checked By: J. R. RICE
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