

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

SF
 File ✓
 C-172
 Form C-122
 Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5/22/79		JUN 12 1979	
Company Exxon Co. USA				Connection El Paso Natural Gas		O. C. C.	
Pool LaGuna Grande				Formation Strawn		Unit ANTONIA, OFFICE	
Completion Date 5-22-79		Total Depth 13700		Plug Back TD 2200		Elevation 3004' KB-24	
Farm or Lease Name LaGuna Grande Unit		Well No. 1		Perforations: From 11888 To 11900		Well No. 1	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At 11520		County El Paso		State New Mexico	
Producing Thru Tubing		Reservoir Temp. °F 192 @ 11894'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 11894'		H -		G _g .629		% CO ₂ .190	
				% N ₂ .660		% H ₂ S -	
Prover -		Meter Run 4 X 1.00		Turns F			

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.	4.0	10/64	1.0	240	22	40	3744		1650		Flowing	1.0
2.												
3.												
4.												
5.												

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	4.753	74.62	253.2	1.020	1.261	1.025	467.59
2.							
3.							
4.							
5.							

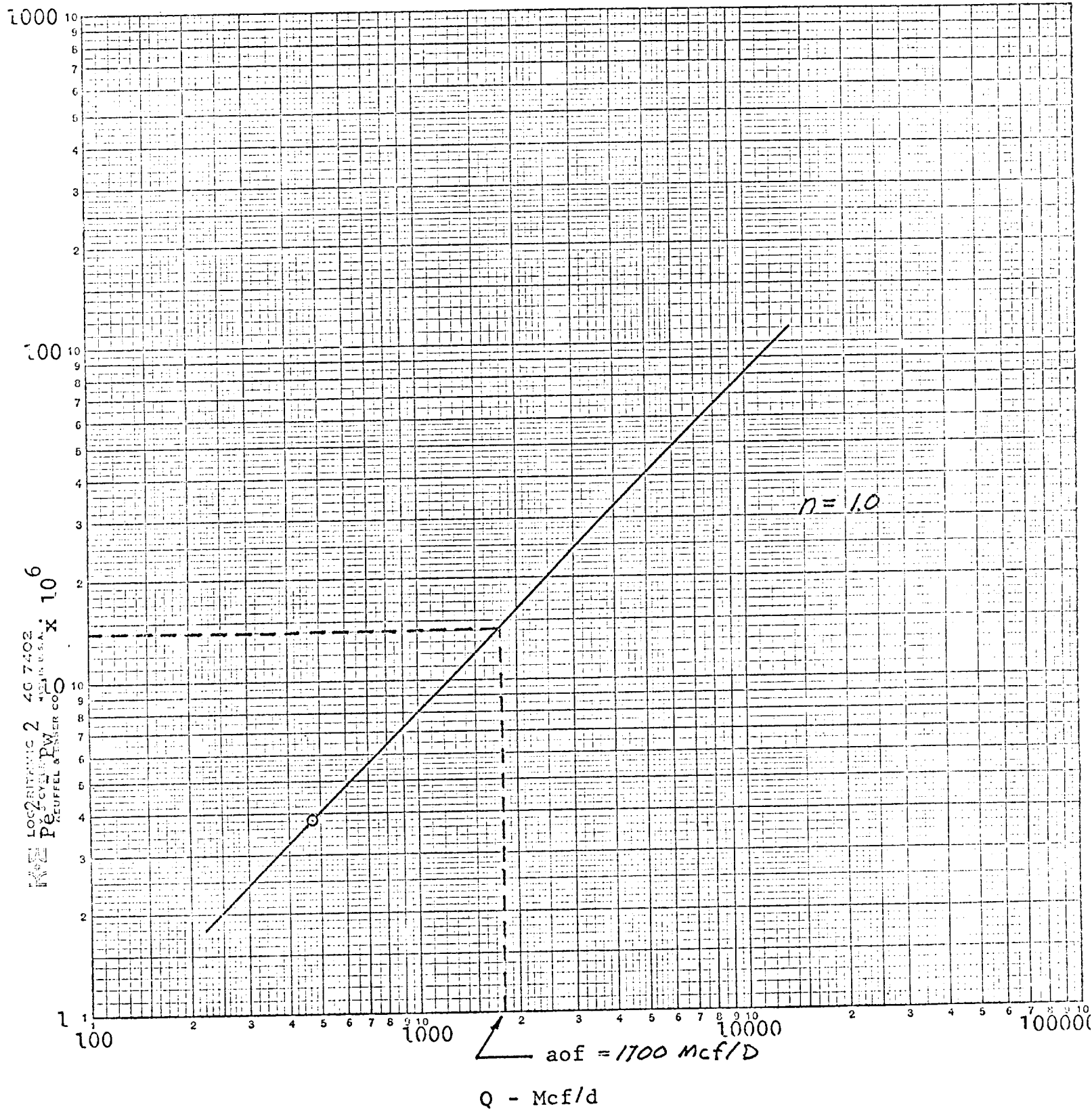
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.38	500	1.39	0.951			0.629		674	361
2.										
3.										
4.										
5.										

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1						
2						
3						
4						
5						

Absolute Open Flow 1700 Mhd @ 15.025 Assumed Angle of Slope 45° Slope, n 1

Remarks: One Rate

Approved By Commission: _____ Conducted By: _____ Calculated By: _____ Checked By: _____



107M 5-29-77

JARREL SERVICES, INC.

POST OFFICE BOX 1654

PHONE 505 393-5396

HOBBS, NEW MEXICO 88240

BOTTOM HOLE PRESSURE RECORD

OPERATOR Exxon Company USA
 FIELD LaGuna Grande
 FORMATION Strawn
 LEASE LaGuna Grande WELL # 1
 COUNTY Eddy STATE New Mexico
 DATE May 22, 1979 TIME 11:15 AM
 Status Shut in
 Test Depth 11894'
 Time S. I. - Last test date -
 Tub Pres. 3744 BHP last test -
 Cas. Pres. Flowing BHP change -
 Elev. 3004' KB-28 Fluid top 11000'
 Datum (-8890) ** Water top -
 Temp. @ 192 F Run by Weaver
 Cal. No. A 16786 N Chart No. 1

Depth	Pressure	Gradient
0	3744	-
2000	3958	.107
4000	4174	.108
6000	4390	.108
8000	4606	.108
10000	4824	.109
11000	4933	.109
11894 (-8890)	5293 **	.403
Flowing		
30 Min	.547	2431
60 Min	.633	2813

