

File

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

Form G-122
REVISED 9-1-65

11-15-77

Type Test: ☒ Initial ☐ Annual ☐ Special		Date: 11-15-77		O. C. C.	
Company: Texas Oil & Gas Corporation			Location: To Air		
Pool: <i>Lost Lake stream</i> Undesignated			Formation: Strawn		
Completion Date: 11-19-77		Total Depth: 9030'		Perforations: 8980' - 8979.8 GR	
Casing Size: 4 1/2"	Wt. 10.5	d 4.00	Set At: 9030'	From: 8632	To: 8952
Thq. Size: 2 3/8	Wt. 4.7	d 1.995	Set At: 8571	From:	To:
Type Well - Single - Bradenhead - G.C. or G.O. Multiple				Factor Set At: 8571	
Producing Thru: Tubing		Reservoir Temp. °F: 166 @ 8542		Mean Annual Temp. °F: 13.2	
L 8632		H 8632		Gg .743	
				% CO ₂	
				% N ₂	
				% H ₂ S	
				Prover	
				Meter Run	
				Taps	
Critical Flow					
FLOW DATA					
NO.	Prover Line Size	X	Orifice Size	Press. psia	Diff. h _w
1.	2"	x	1/16"	1892	55
2.	2"	x	3/32"	1522	56
3.	2"	x	1/8"	943	57
4.	2"	x	3/16"	154	67
5.					
RATE OF FLOW CORRELATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g
1	0.06405		1905.2	1.005	1.160
2	0.1410		1535.2	1.004	1.160
3	0.2648		956.2	1.003	1.160
4	0.6082		167.2	0.9933	1.160
5					
NO.	P _t	Temp. °R	T _f	Z	Gas/Liquid Hydrocarbon Ratio
1	2.86	515	1.27	.598	None Produced
2	2.30	516	1.27	.617	
3	1.43	517	1.28	.751	
4	.25	517	1.28	.958	
5					
A.P.I. Gravity of Liquid Hydrocarbons: .743 Specific Gravity Separator Gas: .743 Specific Gravity Flowing Fluid: .743 Critical Pressure: 667 P.S.I.A. Critical Temperature: 405 °R					
FF 2645.2 FF ² 6997 (1) $\frac{FF^2}{FF^2 - IS^2} = 17.234$ $\left[\frac{FF}{FF^2 - IS^2} \right]^n = 4.151$ $\left[\frac{FF}{FF^2 - IS^2} \right]^n = 764$					
NO.	P _t ²	P _s	P _s ²	P _t ² - P _s ²	
1		2567.2	6591	406	
2		2429.2	5901	1096	
3		2293.2	5259	1738	
4		2107.2	4440	2557	
5					
Absolute Open Flow: 764 Meter Run: 63.5° Storage: 500					
Remarks: Bottom Hole Pressure Recorded with Amerada RPG-3 Instrument No. 41379 (0-6000 psi Range)					
Approved By Commission:		Conducted By: Tom Hansen Co. Inc.		Checked By: McPherson	

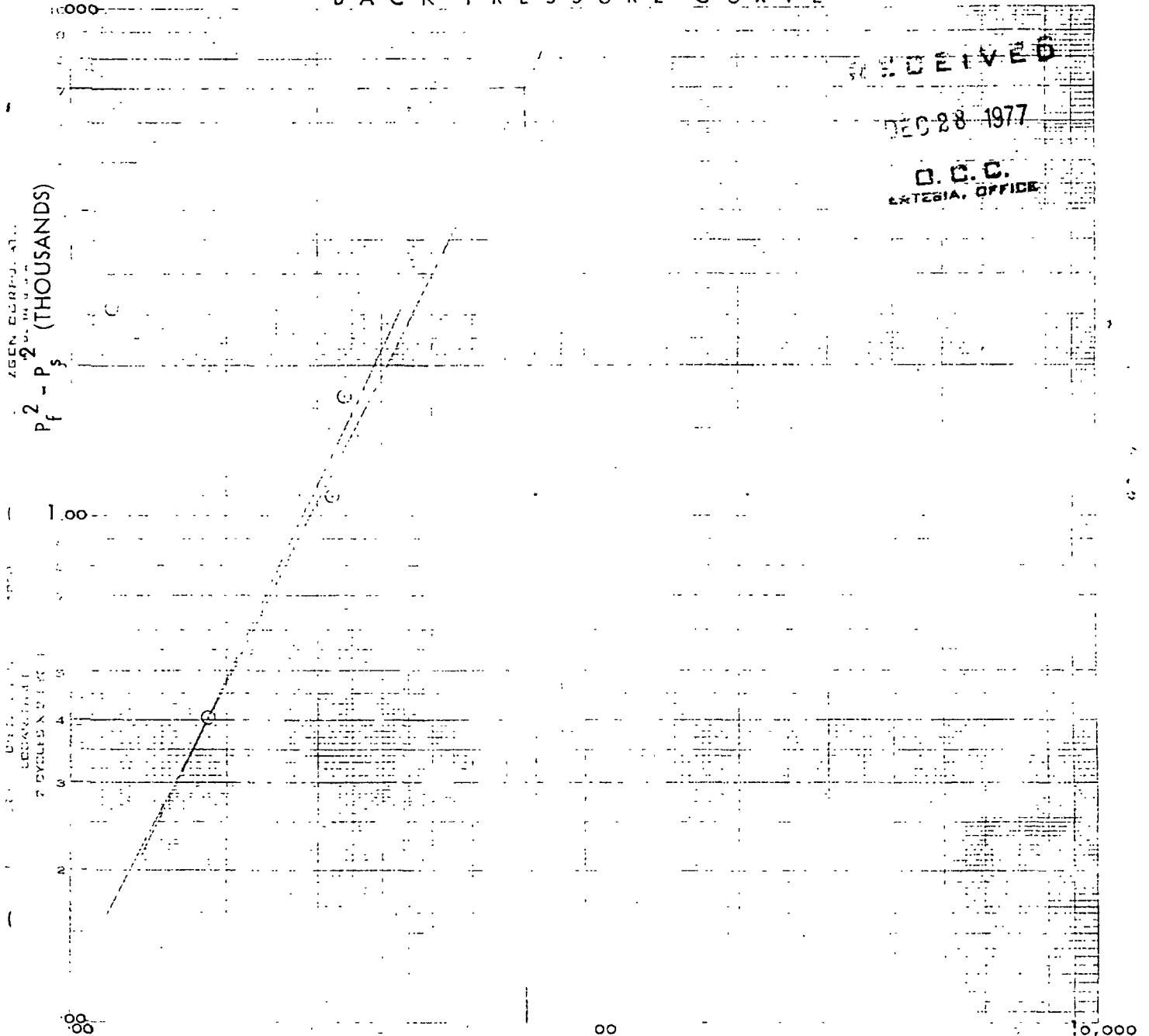
COMPANY Texas Oil & Gas Corporation

LEASE O'Brien "A" B WELL 1

COUNTY Chavez STATE New Mexico

DATE 11-15-77

BACK PRESSURE CURVE



$\theta = 63.5^\circ$
 $n = .500$
AOF = 764

Q in MCF per DAY