

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

Form C-122
Revised 9-1-

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-7-89			
Company O.G.S. OPERATING CO., INC.				Connection None					
Pool Bluitt - SA Assoc				Formation San Andrés				Unit	
Completion Date 3-24-89		Total Depth 4,700		Plug Back TD 4691		Elevation 4020.5 G.L.		Farm or Lease Name Bilberry	
Csq. Size 4 1/2	Wt. d	Set At 4609	Perforations: From 4452 To 4523		Well No. 1				
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 4455	Perforations: From Open To End		Unit D	Sec. 14	Twp. 8S	Rge. 37E
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single						Packer Set At None		County Roosevelt	
Producing Thru Tbg.		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2		State NM	
L 4455	H 4455	G _g .741	% CO ₂ 0.11	% N ₂ 6.985	% H ₂ S 1375 ppm	Prover 2"	Meter Run	Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration	
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	of Flow
SI							1195		1195		72 hrs.
1.	2 X 3/16			1110		74	1110		1115		1 hr.
2.	2 X 1/4			1012		76	1012		1040		1 hr.
3.	2 X 3/8			732		79	732		800		1 hr.
4.	2 X 7/16			503		79	503		600		1 hr.
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	0.6082		1123.2	.9868	1.162	1.122	879
2.	1.087		1025.2	.9850	1.162	1.111	1,417
3.	2.378		745.2	.9822	1.162	1.080	2,184
4.	3.408		516.2	.9822	1.162	1.054	2,116
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1	1.71	534	1.38	.794	A.P.I. Gravity of Liquid Hydrocarbons	Dry	Deq.
2.	1.56	536	1.39	.810	Specific Gravity Separator Gas	.741	X X X X X X X X
3.	1.13	539	1.40	.858	Specific Gravity Flowing Fluid	X X X X X	
4.	.78	539	1.40	.901	Critical Pressure	655*	P.S.I.A.
5.					Critical Temperature	385*	R

P _c 1208.2 P _c ² 1459.7				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		1128.2	1272.8	186.9
2		1053.2	1109.2	350.5
3		813.2	661.3	798.4
4		613.2	376.0	1083.7
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.828$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.289$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.506$

Absolute Open Flow	3,289	Mcf/d @ 15.025	Angle of Slope θ	56	Slope, n	.679
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Remarks: *Corrected to 6.985% N₂
No fluid produced during test
Test calculated using CSG. pressures

Approved By: Commission: Eddie W. Seay Oil & Gas Inspector	Conducted By: JW	Calculated By: BM	Checked By: BM
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MAY

1989

RECEIVED

APR 27 1959

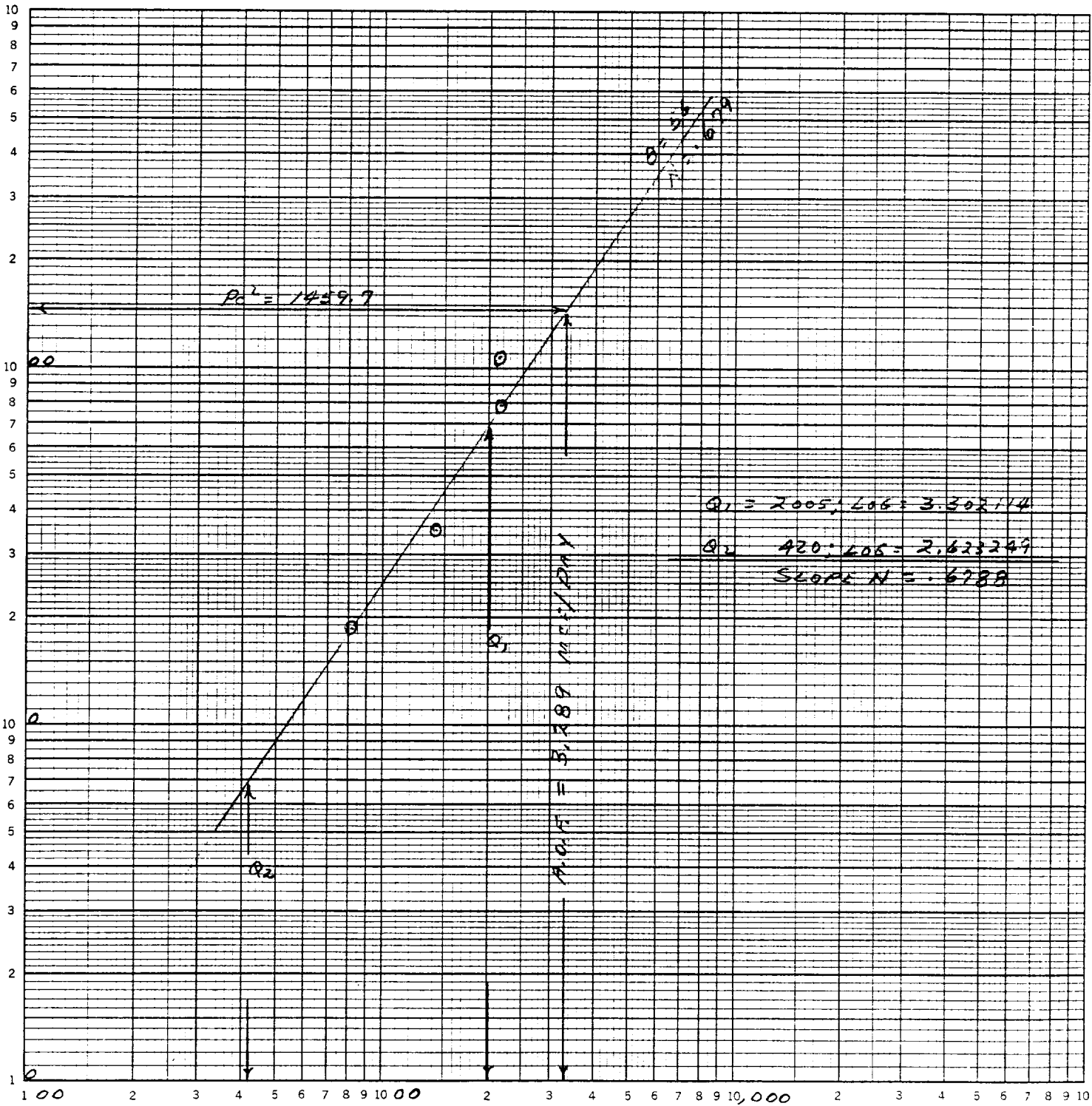
OFFICE

SUGGESTED FIELD DATA SHEET (Not Required To File)											
Type Test:	☒ Initial	☐ Annual	☐ Special	Test Date	4-7-89						
Company	O.G.S. OPERATING CO., INC.				Connection	None					
Field	BLUETT				Reservoir	SAN ANDRAS					
Completion Date	3-24-89		Total Depth	4700		Plug Back TD	4691		Elevation	4020.5 G.L.	
Csq. Size	4 1/2		Wt.	a		Set At	4609		Perforations: From	To	
Tbg. Size	2 3/8		Wt.	4.7		Set At	4455		Perforations: From	To	
Type Completion (Describe)	SINGLE				Packer Set At	NONE					
Producing Thru	T.B.A.		Reservoir Temp. F			Mean Annual Temp. F	69°		Baro. Press. - P _a	13.2	
	4455		H	4455		G _v	.741		% CO ₂	0.11	
			N ₂			% N ₂	6.985		% H ₂ S	1375 ppm	
			Prover	2"		Meter Run					
DATE	ELAP. TIME	Wellhead Working Pressure			METER OR PROVER				REMARKS		
Time of Reading	Hrs.	Tbg. Psig.	Csq. Psig.	Temp. F	Pressure Psig.	Diff.	Temp. F	Orifice	(Include liquid production data; Type—A.P.I. Gravity—Amount)		
5 PM	72	1195	1195						2" PROVER		
ST RATE	1HR	1110	1115	74	1110		74	.1875	3/16		
20 RATE	1NR	1012	1040	76	1012		76	.250	1/4		
20 RATE	1NR	732	800	79	732		79	.375	3/8		
20 RATE		503	600	79	502		79	.4375	7/16		
DRY GAS											

O.G.S. OPERATING CO., INC.
 BILBERRY NO. 1
 D-14-8S-37E
 Roosevelt County, NM
 4-7-89

Pc - Pw2 (THSND.S.)
 46 7400

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



Q - MCF/DAY