

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

COPY TO 1253 file
Form C-122
Revised 4-1-65

RECEIVED

Jill

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-6-76		DEC 3 1976	
Company Yates Petroleum Corp.				Connection Transwestern Pipeline Co.		O.C.C.	
Pool Burton Flats				Formation Morrow		Unit ARTERIA OFFICE	
Completion Date 10-14-76		Total Depth 11514'		Plug Back TD 11268'		Elevation 3265' KB	
Farm or Lease Name Stonewall "DD" Com							
Coq. Size 5 1/2	Wt. 17	d 4.892	Set At 11409'	Perforations: From 11044 To 11050		Well No. 1	
Thq. Size 2-3/8"	Wt. 4.7	d 1.995	Set At 11022	Perforations: From To		Unit Sec. Twp. Rge. N 20 20S 28E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11022'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 164		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 11032	H 11032	G _g 0.773	% CO ₂ 3.18	% N ₂ 0.54	% H ₂ S Nil	Prover	Meter Run 4.026"
Tape Flange							

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							2536	62			52 hrs
1.	4 x 0.750			640	4	68	651	62			24 hrs
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	2.723	51.116	653.2	.9924	1.251	1.0591	183
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	22.7	Mcf/bbl.
1.	.955	528	1.439	.8915	A.P.I. Gravity of Liquid Hydrocarbons	49.6	Deq.
2.					Specific Gravity Separator Gas	0.639	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX	0.773
4.					Critical Pressure	684	P.S.I.A.
5.					Critical Temperature	367	R

P _c 2549.2	P _c ² 14034	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.05805$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.05805$
NO.	P _i ²	P _w	P _w ²
1		932.9	870
2			
3			
4			
5			

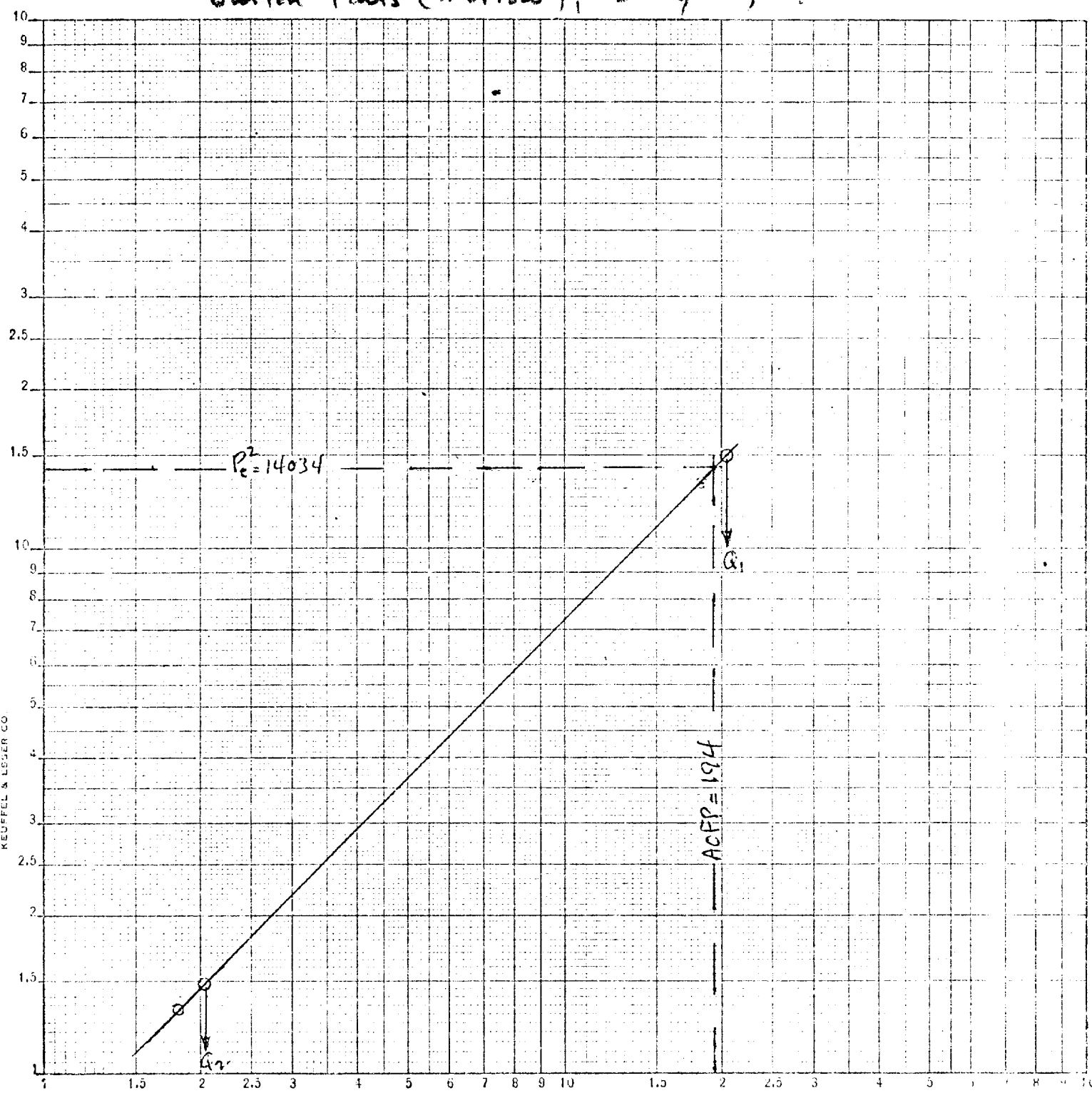
Absolute Open Flow		194	Mcf/d @ 15.025	Angle of Slope °	45	Slope, n	1.000
--------------------	--	-----	----------------	------------------	----	----------	-------

Remarks: Low capacity well - form C-122D attached

Approved By Commission:	Conducted By: Don Weaver	Calculated By: Eddie Mahfood	Checked By:
-------------------------	-----------------------------	---------------------------------	-------------

YPC-Stonewall "DD" State No.1 Corn
 660/s 1480/w Sec 20-20S-22E
 Burton Flats (Marrow), Eddy Co, N.M.

LOGARITHMIC 45 7203
 2 X 2 CYCLES
 KEUFFEL & ESSER CO.



$Q_1 = 210 \text{ metpd}$ $\log Q_1 = 2.3222$
 $Q_2 = 21 \text{ metpd}$ $\log Q_2 = 1.3222$
 $n = 1.0000$

C-122D

DATE 11-24-76

DATE 11-24-76

Two

421
TCT

[illegible]