

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

Form C
Revised

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-18-83	
Company THE SUPERIOR OIL COMPANY		Connection TRANSWESTERN	
Pool Wildcat		Formation MORROW	
Completion Date 7-12-82		Total Depth 16,335'	
Plug Back TD 15499'		Elevation GL: 3369	
Farm or Lease Name Ochoa Federal		Well No. 1	
Casing Size 7 5/8" Liner		Set At 12650	
Perforations: From 15,082 To 15,236'		Unit G	
Casing Size 2 7/8" Liner		Set At 15215-16335	
Perforations: From OPENENDED		Sec. 15	
Type well - Single - Brdenhead - G.C. or G.O. Multiple SINGLE		Packer Set At 14,500'	
Producing Thru TUBING		Baro. Press. - P _a 13.2	
Reservoir Temp. °F 221° @ 15,159'		Mean Annual Temp. °F 60°	
State New Mexico		County Lea	
L 15,159		H 15,159'	
C _g .5746		% CO ₂ .721	
% N ₂ .338		% H ₂ S	
Prover		Meter Run 2"	
Type Flange		Temp.	

FLOW DATA						TUBING DATA		CASING DATA		Dur a Fl	
NO.	Flow 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							4849#		PKR		24
1.	2.00"	x	1.125"	687#	9"	87°	3450	60°			1
2.	2.00"	x	1.125"	687	13"	94	2400	60			1
3.	2.00	x	1.125	687	10"	88	1675	60			1
4.	2.00	x	1.125	687	2"	97	687	60			45
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 _{sp}	Rate of Flow Q, Mcd
1	6.393	79.38	700.2 #	.9750	1.319	1.042	680
2	6.393	95.41	700.2	.9688	1.139	1.042	812
3	6.393	83.68	700.2	.9741	1.139	1.042	716
4	6.393	37.42	700.2	.9662	1.139	1.042	318
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas
1	1.036	547	1.576	.921	A.P.I. Gravity of Liquid Hydrocarbons	
2	1.036	554	1.596	.921	Specific Gravity Separator Gas	.5746
3	1.036	548	1.570	.921	Specific Gravity Flowing Fluid	XXXXXX
4	1.036	557	1.605	.921	Critical Pressure	676 P.S.I.A.
5					Critical Temperature	347 °R

NO	P _t ²	P _w ²	P _c ²	P _c ² - P _w ²
1	11902.5	4957	24572.6	18789.6
2	5760.0	3710	13764.1	29598.1
3	2805.6	2967	8803.1	34559.1
4	472.0	2167	4695.9	38666.3
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.12$

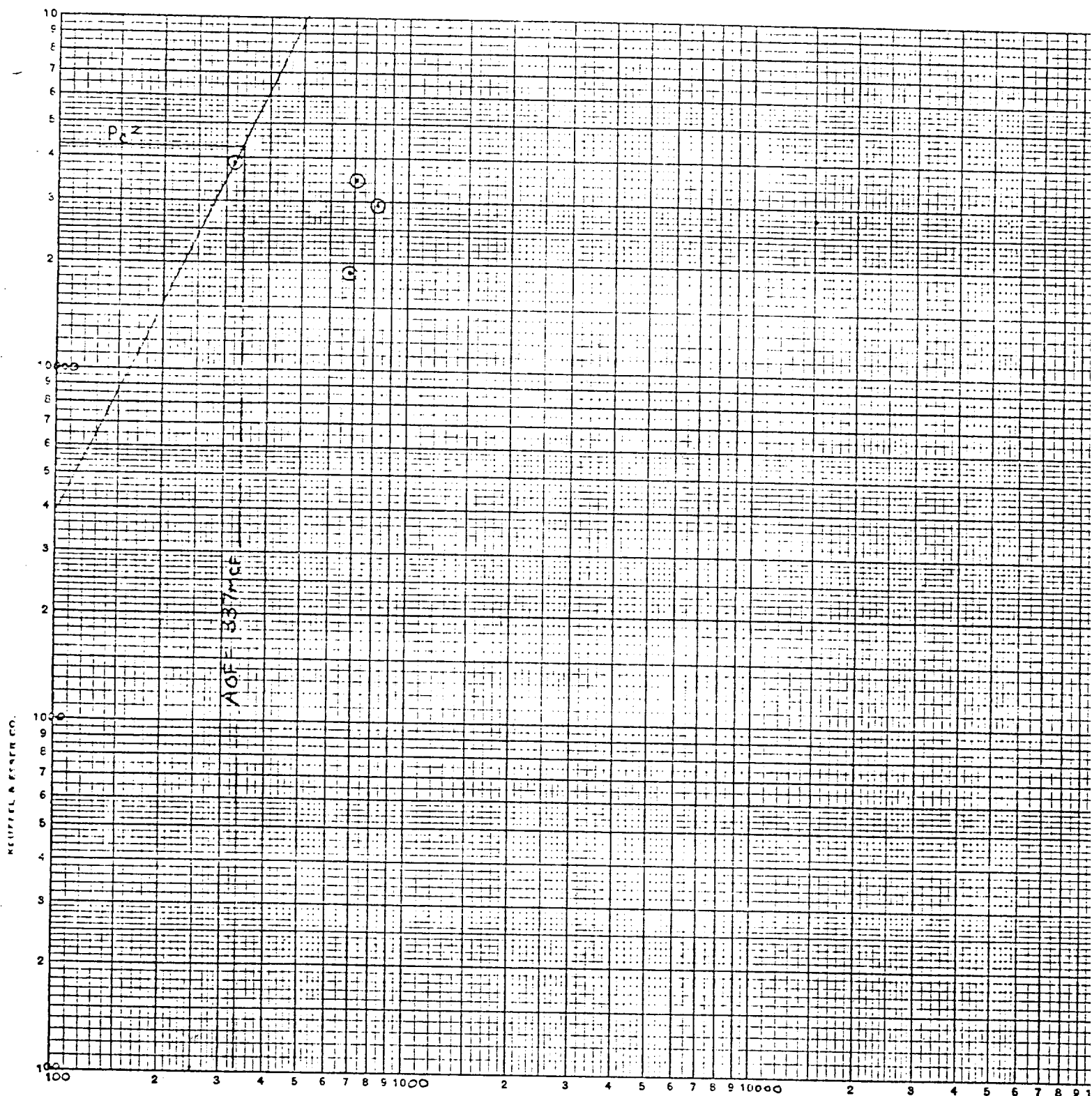
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 337$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.06$

Absolute Open Flow	337	Mcd @ 15.025	Angle of Slope @	63.5°	Slope, n	.50
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Remarks: No reasonable alignment of points. A 63.5° Angle was drawn thru low rate and .500 was used as N Slope and for all calculations.

Approved By Commission:	Conducted By: W.S. & T.B.	Calculated By: JDW	Checked By: JDW.
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A MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form G-102
Supersedes G-1
Effective 1-1-65

* All distances must be from the outer boundaries of the Section

THE SUPERIOR OIL COMPANY			Lease		OCHOA === FED.	Well No. 1
Section	15	Township	25 South	Range	33 East	County
G.				Lea		

Actual Wellbore Location of Well:

1980	feet from the	North	line and	1980	feet from the	East
Ground Level Elev.	Producing Formation		Pool	Dedicated Acreage		
3369.0	Morrow		Wildcat	320		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

G. Bannantine

G. Bannantine

Position

Regulatory Group Mgr.

Company

The Superior Oil Co.

Date

October 19, 1981

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

10/7/81

Registered Prof. Land Engineer

Surveyor

Patrick A. Romero