

CLSP
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED BY

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4/28/87		JUL 15 1987	
Company McClellan Oil Corp.		Connection Air		O. C. D.	
Pool Pecos Slope <i>Ado</i>		Formation Abo		UNITED STATES OFFICE	
Completion Date 4/7/87		Total Depth 4420'		Plug Back TD 4392'	
Elevation 3617' G.L.		Form or Lease Name MM Fed.			
Csq. Size 4 1/2"	Wt. 9.5	Set At 4392'	Perforations: From 4128' To 4223	Well No. 5	
Thq. Size 2-3/8"	Wt. 4.7	Set At 4120'	Perforations: From To	Unit Sec. Twp. Rge. E 25 9S 25E	
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Single			Packer Set At None		County Chaves
Producing Thru Tubing		Reservoir Temp. °F 99 @ 4000	Mean Annual Temp. °F 60	Baro. Press. - P _a 15.025	State NM
L	H	G _g .650	% CO ₂ .12	% N ₂ .721	% H ₂ S -
Prover 2"		Meter Run		Taps None	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI				902.2	-		902.2	60	917.23		
1.	2	X	.3750	762.6	-	52	762.6	52	756.13		.25
2.	"		"	610.0	-	51	610.0	51	667.73		1
3.	"		"	477.7	-	50	477.7	50	553.73		2
4.	"		"	421.0	-	"	421.0	50	517.13		3
5.	"		"	225.1	0	"	225.1	50	349.23		24

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	2.378	-		1.008	1.240	1.074	2482.4
2.	"	-		1.009	"	1.059	1969.3
3.	"	-		1.010	"	1.046	1534.9
4.	"	-		"	"	1.041	1351.8
5.	"	-		"	"	1.024	732.3

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcfd/Lbl.
1.	1.182	355	1.44	.867	A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.	.950	355	1.44	.892	Specific Gravity Separator Gas	X X X X X X X X
3.	.749	355	1.44	.914	Specific Gravity Flowing Fluid	X X X X X
4.	.663	355	1.44	.923	Critical Pressure	P.S.I.A.
5.	.365	355	1.44	.954	Critical Temperature	R

NO.	P _i ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.85$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.857$
1		777	604	269		
2		625	390	395		
3		492	242	534		
4		436	190	573		
5		240	57	719		

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 850$$

Absolute Open Flow 850 Mcfd @ 15.025 Angle of Slope 45

Remarks:

Approved By Division Conducted By Enron Calculated By J. Rowe

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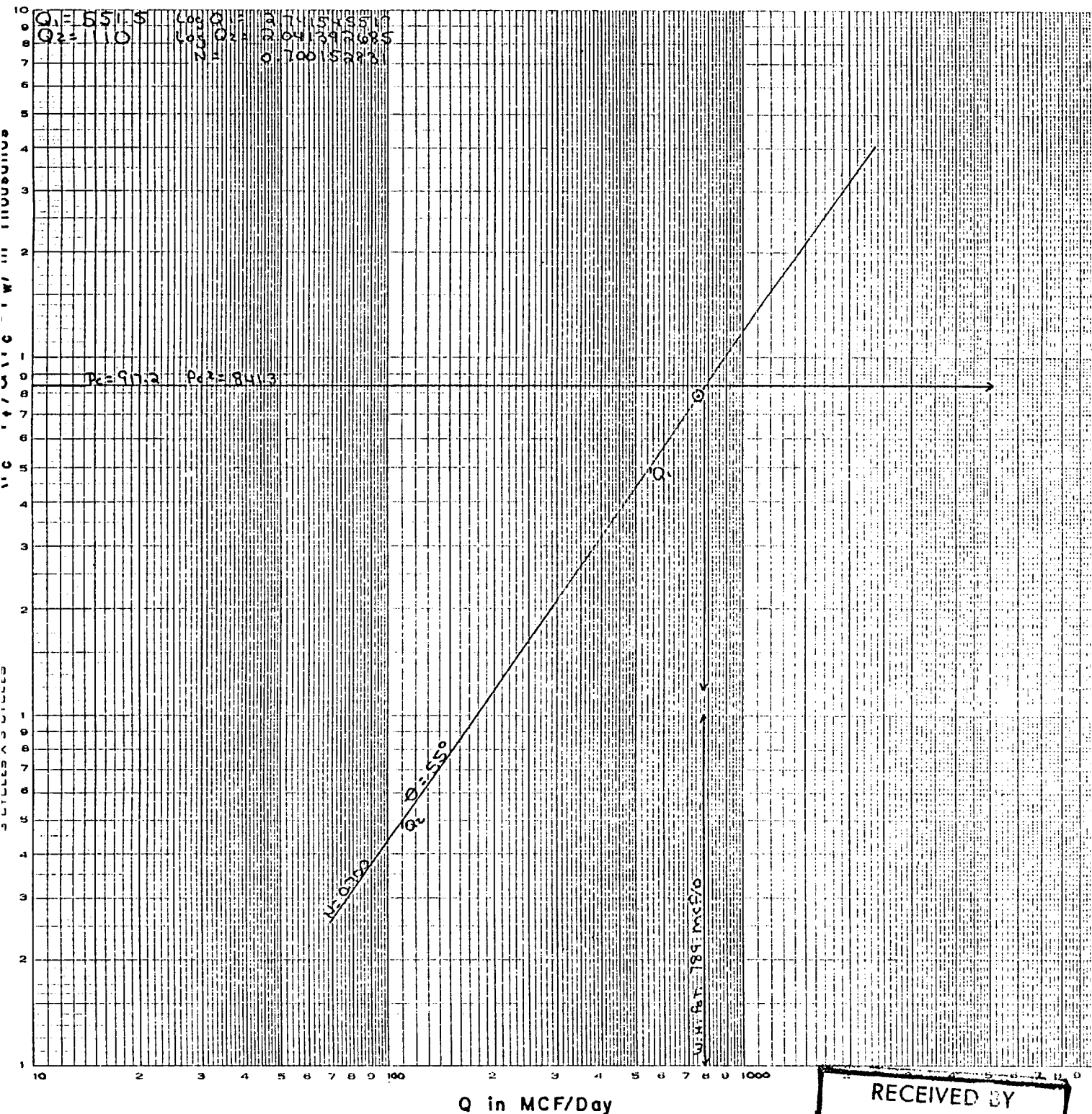
BACK PRESSURE CURVE

Operator McClellan Oil Corp Lease M Ann M. Fed. Well No. F5

County Chaves Field Pecos Slope Location _____

Date of Test _____ Slope "n" 0.700 W.H. 0.700 Abs.

Calc. W.H. Potential 789.2 MCF/D Calc. Abs. Potential _____ MCF/D



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