

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

Form C-122
Revised 9-1-63

RECEIVED

c/sf
File

FEB 25 1963

Type Test ☒ Initial 4 POINT ☐ Annual ☐ Special		Test Date 2-18-63	
Company DEPCO INC.		Connection AIR NEW WELL	
Pool <i>Pecos & S. Slope Abo</i>		Formation ABO	
Completion Date 1-28-63 - 2-16-63		Total Depth 4220.	
Plug Hole 1 4075 4073		Elevation 3893.	
Form or Lease Name ROSE FEDERAL		Well No. 4	
Perf. Size 4.500	Wt. 10.5	d 4.052	Set At 4117.
Perforations: From 3694. To 3869.		Well No. 4	
Thg. Size 2.375	Wt. 4.7	d 1.995	Set At 3637.
Perforations: From 0. To 0.		Unit Sec. Temp. App. C 19 55 25E	
Type Well - Single - Production - O.G. or A.O. Multiple SINGLE		Packer Set At 3637.	
Producing thru TUBING		State NEW MEXICO	
Reservoir Temp. °F 105 @ 3781.		Mean Annual Temp. °F 60.0	
Basic Press. - P _b 13.2		Country CHAVES	
L 3781.	H 3781.	Q _g 0.658	% CO ₂ 0.94
		% N ₂ 6.48	% H ₂ S 0.
		Prover 0.	Meter Run 2.1
			Type FLANGE

FLOW DATA						TUBING DATA		B.H.P. DATA		Duration of Flow
NO	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	CHOKE
51							900.		1004.	72.0
1.	2.07 X 1.500		400.	5.5	78.	872.	640.	976.	15/64	1.0
2.	2.07 X 1.500		400.	11.0	70.	840.	670.	948.	19/64	1.0
3.	2.07 X 1.500		400.	25.0	69.	796.	680.	909.	21/64	1.0
4.	2.07 X 1.500		400.	48.0	69.	718.	730.	850.	25/64	1.0
5.										

RATE OF FLOW CALCULATIONS							
NO	Coefficient (24 Hour)	$\sqrt{P_b P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow O. Mhd
1	12.76	47.67	413.2	0.9831	1.2328	1.0325	761.
2	12.76	67.42	413.2	0.9905	1.2328	1.0346	1087.
3	12.76	101.64	413.2	0.9915	1.2328	1.0349	1640.
4	12.76	140.83	413.2	0.9915	1.2328	1.0349	2273.
5							

NO	P _b	Temp. °F	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.62	538.	1.51	0.938	0.	0.	0.658	XXXXXXX	663.	357.
2	0.62	530.	1.48	0.934						
3	0.62	529.	1.48	0.934						
4	0.62	529.	1.48	0.934						
5										

NO	P ₁	P ₂	R ₁	R ₂
1	979.	896.	803.	45.
2	924.	871.	759.	90.
3	850.	836.	699.	149.
4	745.	783.	614.	235.
5				

(1) $\frac{P_b^2}{R_b^2 - R_w^2} = 3.6109$ (2) $\left[\frac{R^2}{R_b^2 - R_w^2} \right]^n = 2.3537$

AOR = 0 $\left[\frac{R^2}{R_b^2 - R_w^2} \right]^n = 5350$

Post ID-2
3-4-63
Camp + BK

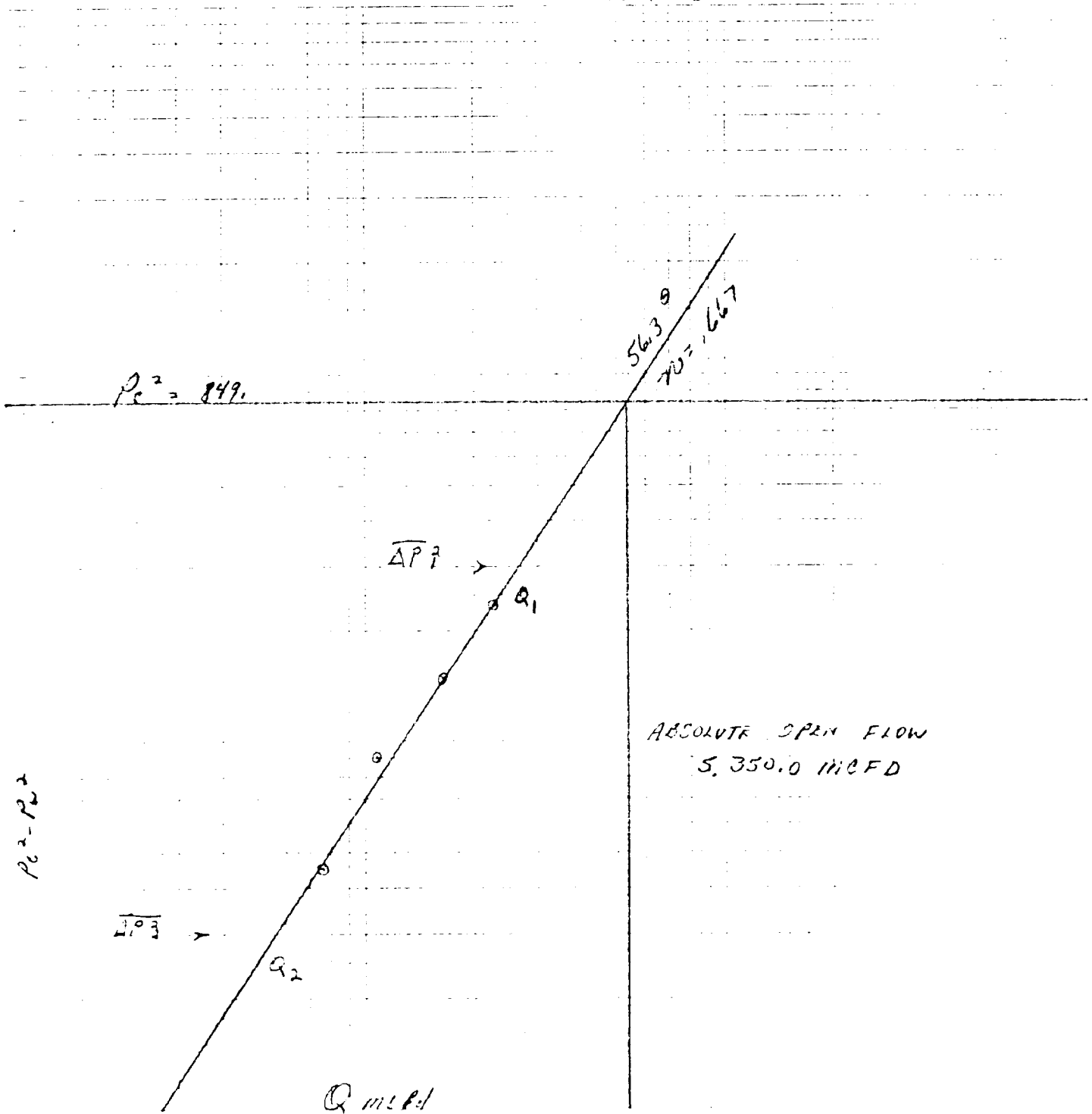
Absolute Open Flow	5350.	Mhd @ 15.025	Angle of Slope °	56.3	Block, A	0.657
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Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS

Approved By Commission	Conducted By	Calculated By	Checked By
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Note: Fedline
 Unit 4
 Unit 3, 3.1, 3.2, 3.3, 3.4, 3.5
 Range: 1000
 1000-1000

2-10-83



$\Delta P^2 = P^2 - P^2^2$
 $\Delta Q = Q - Q^2$
 2620.0
 $5.350.0$

$L_2 = 1.4 - 1$
 $L_1 = 1.61$
 $L_2 = 1.61$