

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

a7 file
 Form C-122
 Revised 9-1-63

RECEIVED BY
FEB 23 1987
O. C. D.
ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-12-87	
Company MCKAY OIL CORP.				Connection TO AIR	
Pool WEST PECOS SLOPE A46				Formation ABO	
Completion Date 1-9-87		Total Depth 340		Plug Back To 3286	
Elevation 4248		Farm or Lease Name FOUR MILE DRAW FEE		Well No. 3	
Prod. Size 4.5	Wt. 9.5	Set At 3342	Perforations: From 2819.5 To 2958		Unit P
Thq. Size 2.375	Wt. 4.7	Set At 2773	Perforations: From OPEN To ENDED		Sec. 14
Type Well - Single - Blindhead - G.G. or G.O. Multiple SINGLE			Packer Set At NONE		Age 22E
Producing Thru TUBING		Reservoir Temp. °F 99.2888.75	Mean Annual Temp. °F 60.0	Baro. Press. - P _a 13.2	County CHAVES
State NEW MEXICO					
L 2888.75	H 2888.75	G _g .619	% CO ₂ .188	% N ₂ 5.899	% H ₂ O 0
Prover 2.00		Motor Run 0		Taps 0	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. In. W	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							841		837	
1.	2.000	.09375		825	0.00	59	825	59	823	59
2.	2.000	.1875		804	0.00	58	804	58	804	58
3.	2.000	.250		753	0.00	58	759	58	764	58
4.	2.000	.375		615	0.00	50	621	50	647	50
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super. Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	0.1410	0.00	838.2	1.001	1.271	1.069	161
2	0.6082	0.00	817.2	1.002	1.271	1.069	677
3	1.087	0.00	766.2	1.002	1.271	1.064	1129
4	2.378	0.00	628.2	1.010	1.271	1.056	2025
5							

NO.	P _r	Temp. °R	T _r	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	1.27	519	1.49	.875	0	0	.619	XXXXXX	660	348
2	1.24	518	1.48	.875				XXXXXX		
3	1.16	518	1.48	.883						
4	.95	510	1.46	.897						
5										

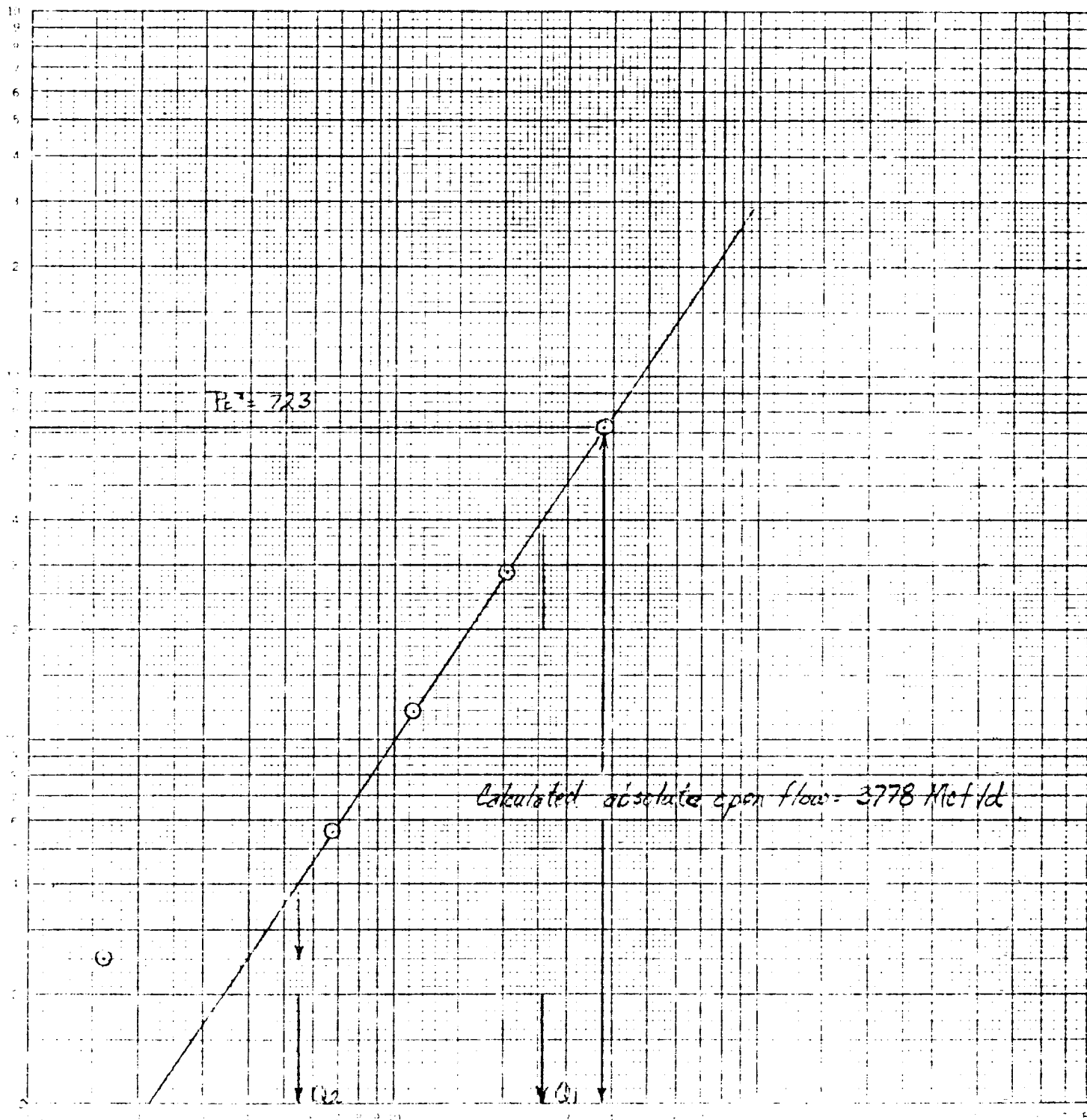
NO.	P _r ²	P _w ²	P _w ² - P _r ²	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 2.5192$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.8657$
1	835.2	698	25		
2	817.2	668	55		
3	777.2	604	119		
4	660.2	436	287		
5					

Absolute Open Flow		3778	Mcfd @ 15.025	Angle of Slope @	56°	Slope, n	67
Remarks							
Approved By Commission		Conducted By BENNETT & CATHEY		Calculated By RICHARD TOWNLEY		Checked By	

Four M. Drain Fed 3
 P 14 65 22E
 Charles County
 1-12-67

46.7400

LOG COEFFICIENT OF 3 CYCLES



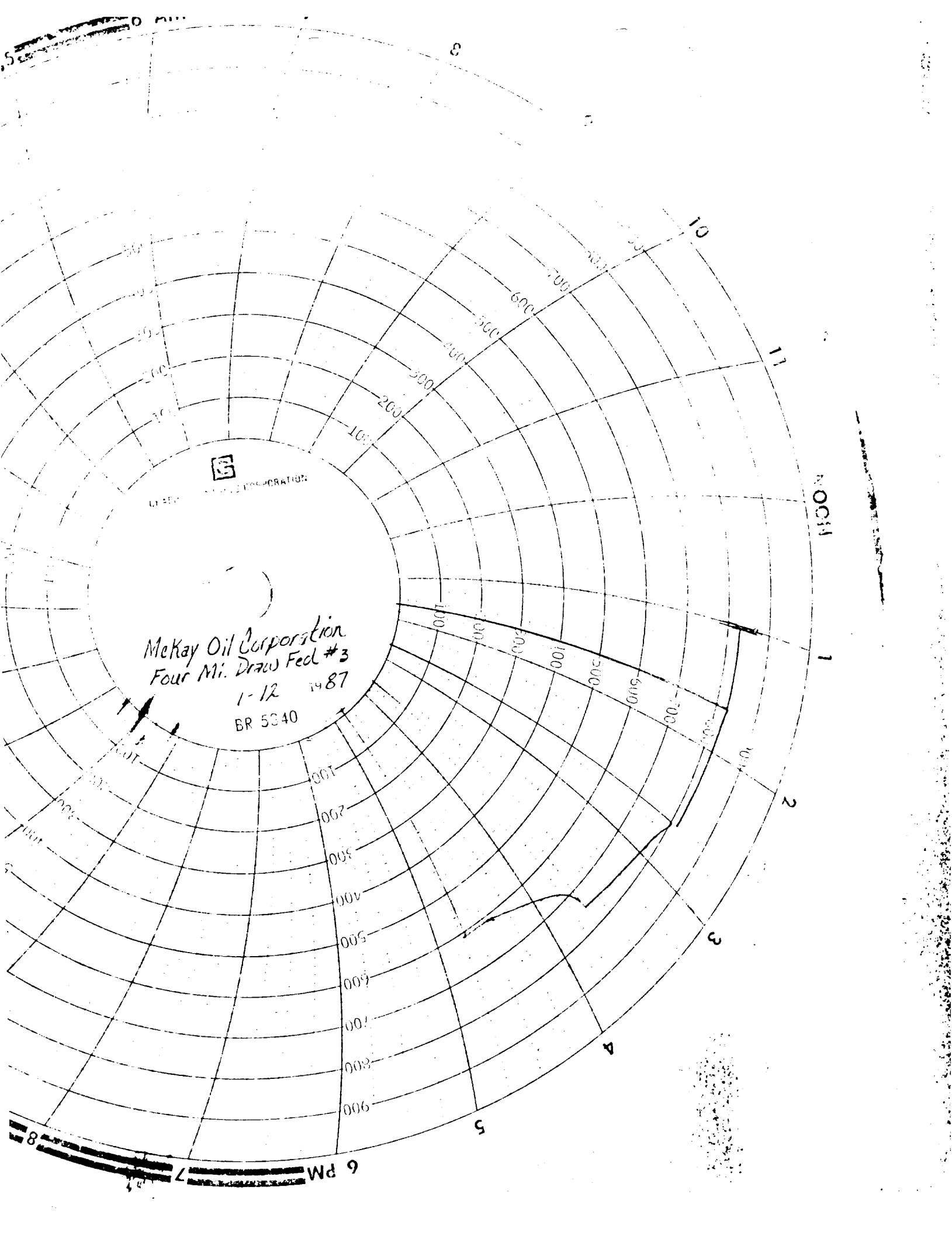
$$Q_1 = 2579$$

$$Q_2 = 645$$

$$\log Q_1 = 3.4114$$

$$\log Q_2 = 2.7364$$

$$n = 0.6750$$



McKay Oil Corporation
Four Mi. Draw Fed #3
1-12 1987
BR 5340

NOCIA

1

2

3

4

5

6 PM

8