

COMPANY
WELL
LOCATION
COUNTY
DATE

Continental Oil Company
Levers Federal No. 1
E, 2-21S-25E
Eddy
6/10/69

NO. 31.231 LOGARITHMIC: 2 BY 2 1/2 INCH CYCLES (BASE SHORT WAY)

CODING BOOK COMPANY, INC. NORWOOD, MASSACHUSETTS.
PRINTED IN U.S.A.

10,000

$P_c^2 - P_w$, Thousands

1,000

100
1000

10,000

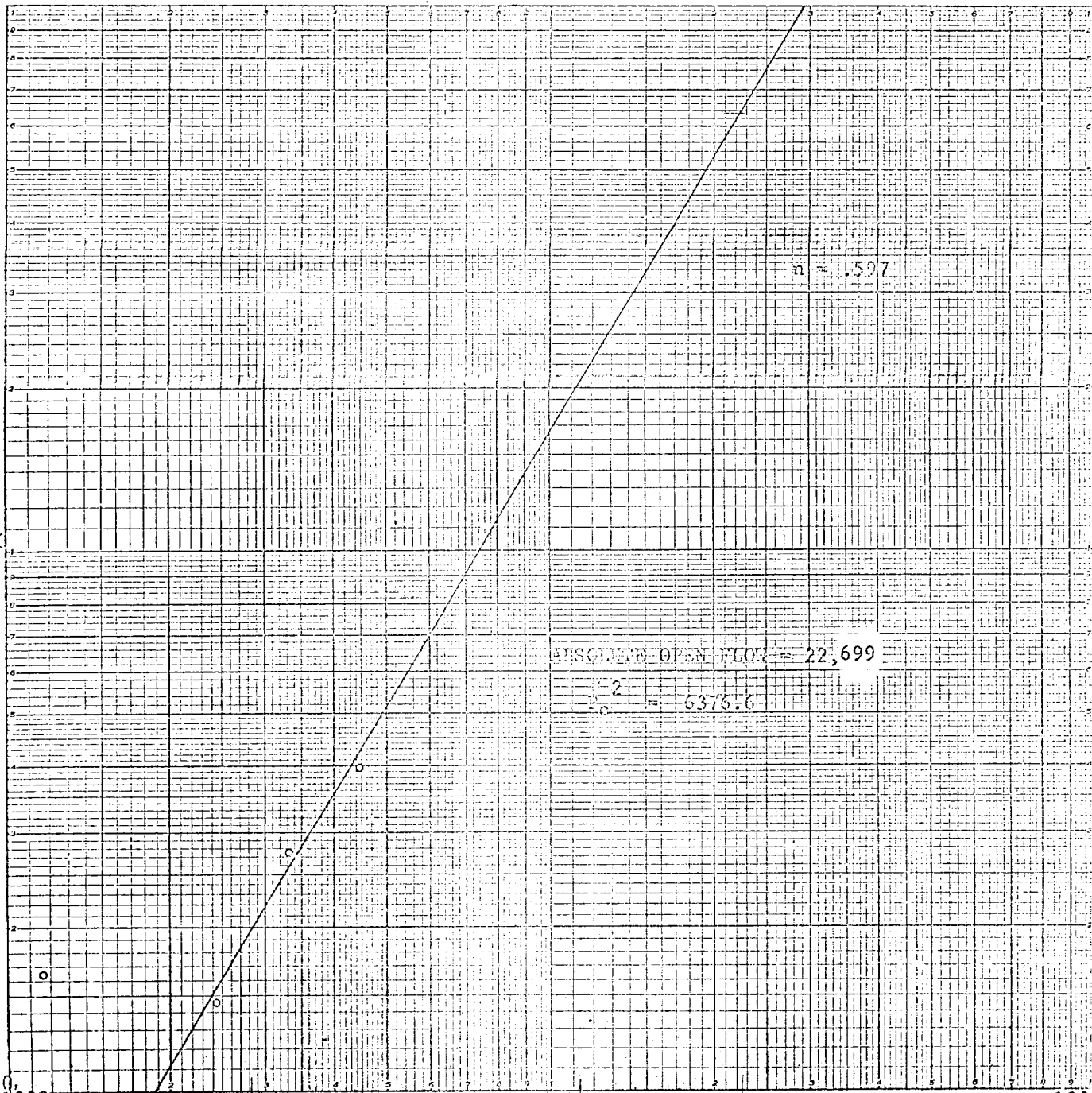
Q, MCFD

100,000

$n = .597$

ABSOLUTE OPEN FLOW = 22,699

$Q_{10} = 6376.6$



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

Form C-122
Revised 9-1-65

RECEIVED
MAY 26 1968
O.C.C.
ARTIFICIAL OFFICE

File

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12/22/68			
Company Continental Oil Company				Connection Delhi Gas Pipeline Corp.			
Pool Springs Upper Penn				Formation Cisco Canyon		Unit	
Completion Date 12/22/68		Total Depth 10,362		Plug Back TD 9,390		Elevation 3298 GL	
Farm or Lease Name Levers Federal				Well No. 1			
Csg. Size 7"	Wt. 23#	d 6.366	Set At 9495	Perforations: From 8088 To 8104			
Tbg. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 7775	Perforations: From Open To		Unit Sec. Twp. Rge. E 2 21S 25E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 7775		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 132 @ 8088		Mean Annual Temp. °F 60°F		Baro. Press. - P _a 13.2 PSIA	
State New Mexico							
L 8088	H 3038-	G _g .647	% CO ₂ .55	% N ₂ .45	% H ₂ S .45	Prover	Meter Run Taps 2

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							2500		Pkr		(Min)
1.	4		1.50	1050	24	75	2350	75			125
2.	4		1.50	1050	55	75	2180	75			130
3.	4		1.75	1050	55	75	2050	75			120
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	10.97	159.7	1063	.9859	1.243	1.096	2353
2	10.97	242.0	1063	.9859	1.243	1.096	3566
3	15.24	242.0	1063	.9859	1.243	1.096	4949 4/5
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 20.6 Mcf/bbl.
					A.P.I. Gravity of Liquid Hydrocarbons 60° @ 45° F
1.	1.59	535	1.45	.833	Specific Gravity Separator Gas .679
2.					Specific Gravity Flowing Fluid .810
3.					Critical Pressure 665 672 P.S.I.A.
4.					Critical Temperature 428 376 R
5.					

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	2394	5731.2	584			
2	2350	5525.5	728			
3	2188	4783.3	1528			
4						
5						

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 20,455 \text{ MCF}$

Absolute Open Flow 20,455 Mcfd @ 15.025	Angle of Slope 45°	Slope, n 1.000
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Remarks:

Approved By Commission:	Conducted By:	Calculated By: R. D. Turner	Checked By:
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