

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

Form C-122
 Revised 9-1-65
RECEIVED

MAY 19 1981

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 01/09/81	
Company PERRY R. BASS		Connection AIR	
Pool WILDCAT UNDESIGNATED		Formation ATOKA	
Completion Date 12/19/80	Total Depth 14200	Plug back To 14110	Elevation 3161.8 GL
Csg. Size 5 1/2	Set At 14155	Perforations: From 12665 To 12672	Well No. 12
Tub. Size 2 3/8	Set At 12424	Perforations: From To	Unit Sec. Twp. Rge. G 21 22s 30e
Type Well - Single - Bradenhead - G.G. or G.O. Multiple			County EDDY
Producing Thru TUBING			State NEW MEXICO
Reservoir Temp. °F 198 @ 12424		Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2
L 12424	H 12424	G _g .606	% CO ₂ .418
		% N ₂ 1.187	% H ₂ S
		Prover 	Meter Run 4"
		Taps FLG.	

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							5862				72 hr.
1.	4 X 1.500			600	3.0	87	5250				1 hr.
2.	4 X 1.500			660	38.0	72	3705				1 hr.
3.	4 X 1.500			790	28.0	76	1925				1 hr.
4.	4 X 1.500			810	35.0	70	1150				1 hr.
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 _{spv}	Rate of Flow Q, Mcfd
1	10.84	42.89	613.2	.9750	1.285	1.047	610
2	10.84	159.94	673.2	.9887	1.285	1.058	2330
3	19.81	149.97	803.2	.9850	1.285	1.067	4012
4	19.81	169.74	823.2	.9905	1.285	1.073	4592
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons Deg.
1.	.91	547	1.51	.912	Specific Gravity Separator Gas .606	XXXXXX
2.	1.00	532	1.47	.894	Specific Gravity Flowing Fluid XXXXXX	
3.	1.20	536	1.48	.878	Critical Pressure 671 P.S.I.A.	P.S.I.A.
4.	1.23	530	1.46	.869	Critical Temperature 362 R	R
5.						

NO.	BHP _r	P _w	P _w ²	P _c ² - P _w ²
1	7054.2	5688.73	32361.6	2156.4
2	4771.2	3688.21	13602.9	20915.1
3	3248.2	2450.9	6006.9	28511.1
4	2442.2	1842.7	3395.7	31122.3
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.109$

AOI = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.093$

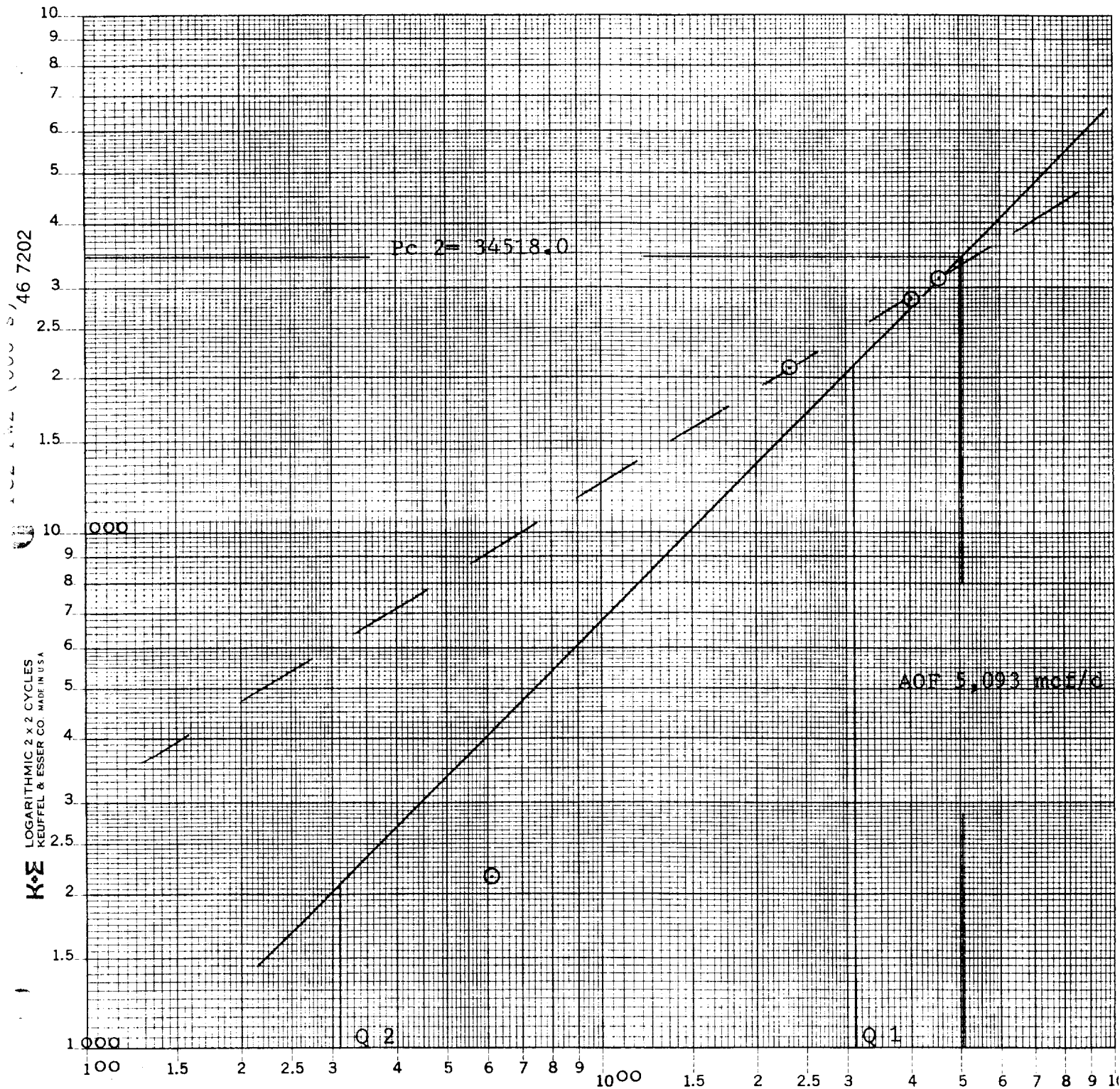
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.109$

Absolute Open Flow 5.093 Mcfd @ 15.075	Angle of Slope 45°	Slope, n 1.000
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Remarks: **THE WELL PRODUCED 22.5 BBLS. OF H₂O DURING THE TEST.**

Approved By Commission:	Conducted By: DAVIS SERVICES INC.	Calculated By: RICK PAGAN	Checked By:
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COMPANY : PERRY R. BASS
 LEASE : JAMES RANCH
 WELL NO. : # 12
 UNIT : G / sec 21/tpw 22s/rge 30e
 COUNTY : EDDY
 STATE : NEW MEXICO
 DATE : JANUARY 9, 1981



$Q = \text{MCF} / \text{DAY}$
 $Q 1 = 3100; \text{LOG OF } Q 1 = 3.491362$
 $Q 2 = 310; \text{LOG OF } Q 2 = 2.491362$
 $N = 1.000$
 $\theta = 45^\circ$