

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

Copy 4-5
Form C-122
Revised 9-1-65
C-122

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-3-74		RECEIVED	
Company Coquina Oil Corp.				Connection				AUG 22 1974	
Pool <i>Boyd monom</i>				Formation Morrow					
Completion Date 5-29-74		Total Depth 9370		Plug Back TD 9313		Elevation 3465 GL		Farm or Lease Name Boyd X <i>Com.</i>	
Csg. Size 5 1/2	Wt. 17	d	Set At 9370	Perforations: From 9180 To 9212		Well No. 1			
Tbg. Size 2 3/8	Wt. 47	d	Set At 9212	Perforations: From To		Unit Sec. Twp. Rge. A 16 195 25E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 9137.07		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 170° 9600		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 9212	H 9212	Gg .63	% CO ₂ None	% N ₂ None	% H ₂ S None	Prover	Meter Run 3.068	Taps Flange	

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							3009				72 hr.
1.	3.068	1.625	310	5	74	2525	74				90 60 min.
2.	3.068	1.625	315	8.7	73	2367	74				90 60 min.
3.	3.068	1.625	320	13.5	72	2128	73				90 60 min.
4.	3.068	1.625	330	19.7	71	1789	72				90 60 min.
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	13.24	40.2	328.2	.9868	1.260	1.029	681
2	13.24	53.44	328.2	.9877	1.260	1.030	907
3	13.24	67.07	333.2	.9887	1.260	1.030	1139
4	13.24	82.23	343.2	.9896	1.260	1.031	1400
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.48	534	1.45	.944	A.P.I. Gravity of Liquid Hydrocarbons _____ None made _____ Deg.
2.	.49	533	1.45	.943	Specific Gravity Separator Gas .63 _____ X X X X X X X X
3.	.49	532	1.45	.943	Specific Gravity Flowing Fluid _____ X X X X X
4.	.51	531	1.45	.941	Critical Pressure 670 _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 368 _____ R _____ R

P _c 3692.3 P _c ² 13.632				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		3141.2	9867	3765
2		2952.2	8715	4917
3		2662.2	7087	6545
4		2207.2	4872	8760
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5561$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2014$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4388$

Absolute Open Flow	2014	Mcf/d @ 15.025	Angle of Slope @	51	Slope, n	.823
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Remarks: PW substituted for PT measured with Amerada instrument No. 33252
5000 # Element.

Approved By Commission:	Conducted By: J. Spruell	Calculated By: J. Spruell	Checked By: B. Pyle
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Quina Oil Corp.

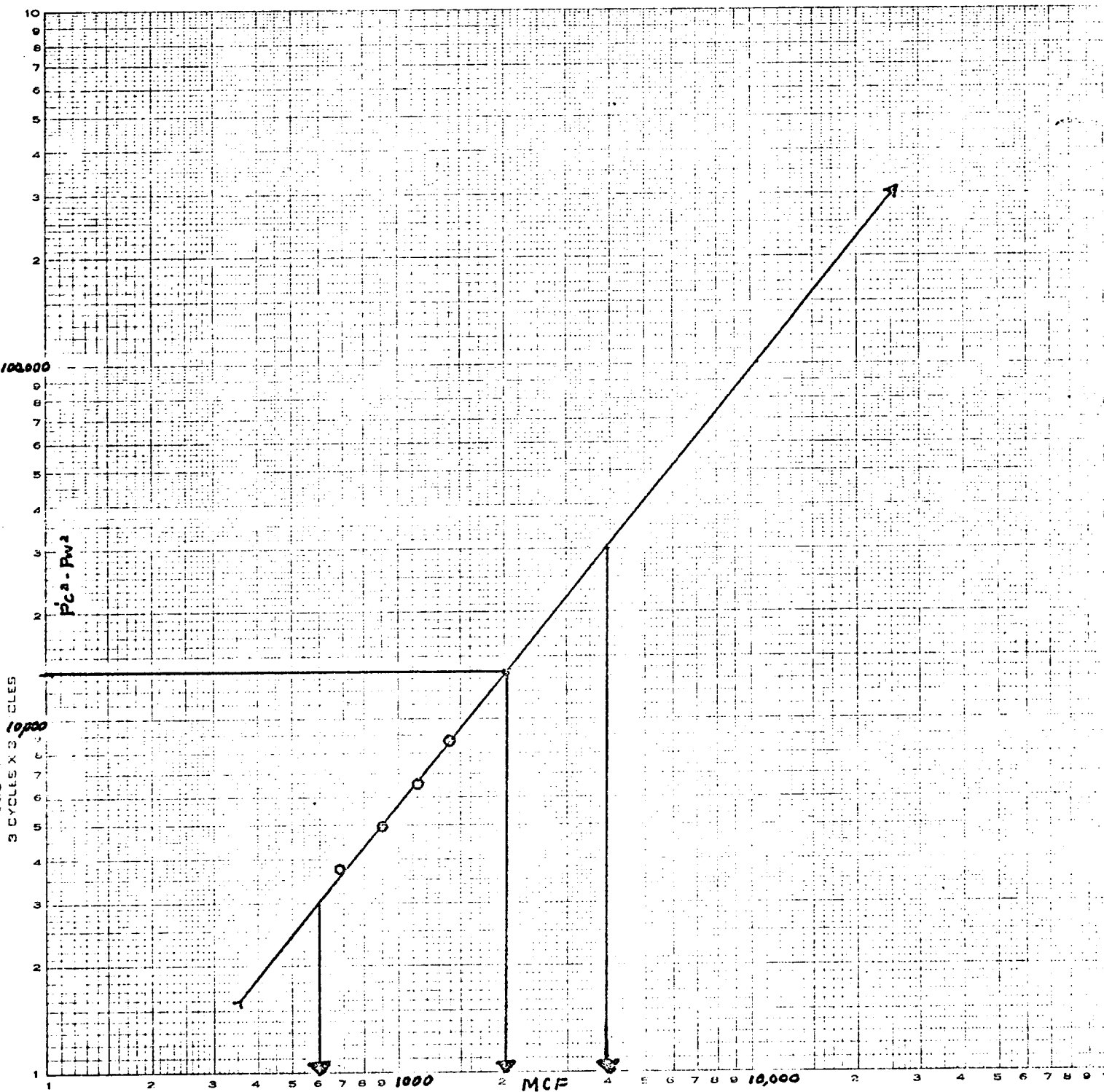
Boyd X No. I

Absolute Open Flow

June 3, 1974

BOYD X NO. I
MAY 1974

BOYD X NO. I
MAY 1974



$Q_1 = 3,920$

$\text{Log. } Q_1 = 3.59329$

$Q_2 = 590$

$\text{Log. } Q_2 = 2.77075$

$N = .82254$

$Q = 2014$



JOHN KUYKENDALL WIRELINE SERVICE Co., Inc.
P. O. Box 184 / A/C 915 337-5241 / ODESSA, TEXAS 79760

STATIC-FLOWING-B. H. PRESSURES

COMPANY Goquina Oil Corp. Well & No. Lease: Boyd X No. 1
FIELD Wildcat Date 6-3-74 Instrument No. 33252

DATE	STATUS	SERV. TIME	ELAPSED TIME		D. W. T. TP	BHP PSIG @	
			HRS.	MIN		9000	9146
6-3-74	On well	9:30			3009		
	Instrument @ 9000	10:10				3669	3679
	Opened to heater	10:15				3573	3583
	Opened on 7/64	10:30		00		3606	3616
		10:45		15	2732	3404	3414
		11:00		30	2615	3223	3233
		11:15		45	2560	3156	3166
		11:30	1	00	2535	3131	3141
		11:45	1	15	2524	3118	3128
		12:00	1	30	2525	3118	3128
	Opened on 9/64	12:00		00	2525		
		12:15		15	2432	2974	2984
		12:30		30	2397	2929	2939
		12:45		45	2380	2921	2931
		13:00	1	00	2361	2926	2936
		13:15	1	15	2366	2929	2939
		13:30	1	30	2367	2929	2939
	Opened on 11/64	13:30		00	2367		
		13:45		15	2192	2751	2761
		14:00		30	2157	2682	2692
		14:15		45	2143	2664	2674
		14:30	1	00	2131	2651	2661
		14:45	1	15	2129	2646	2656
		15:00	1	30	2128	2639	2649
	Opened on 13/64	15:00		00	2128		
		15:15		15	1879	2387	2397

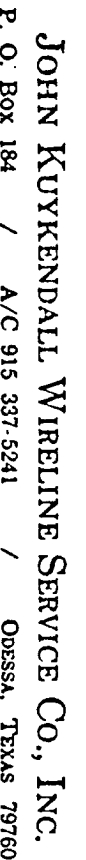


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STATIC-FLOWING-B. H. PRESSURES

COMPANY Coquina Oil Corp. Well & No. Lease: Boyd X No. I
FIELD Wildcat Date 6-3-74 Instrument No. 33252

DATE	STATUS	SERV. TIME	ELAPSED TIME		D. W. T. TP	BHP PSIG @	
			HRS.	MIN		9000	9146
		15:30		30	1777	2245	2255
		15:45		45	1768	2219	2229
		16:00	1	00	1783	2197	2207
		16:15	1	15	1788	2184	2194
		16:30	1	30	1789	2184	2194



Company	Field
Cogolina Oil Corp.	Wildcat

Well	Boyd X No. 1	Pay	Morrow	S.G. (Liquid)	S. G. (Gas)	.63
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Meter Run	3.068	Orifice Size	1.625	Coefficient of Orifice	13.24
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WELL HEAD INFO.				SEPARATOR INFO.			METER RUN			FLUID MEASUREMENTS			
Date	Time	TBG Pres.	CSG Pres.	Temp.	Temp.	Choke	Pres.	Dif.	Volume	Inches	Inches Per Hr.	BBLS Per Hr.	BBLS Per Day
6-3-74	10:30	3009			Opened on 7/64	choke first rate				0			
	11:00	2615		74	72	7/64	300	4.5	637				
	11:30	2535		74	74	7/64	310	5.0	680				
	12:00	2525		74	74	7/64	310	5.0	680				
	12:00	2525			Opened on 9/64	choke 2nd. rate.							
	12:30	2397		75	74	9/64	312	9.0	915				
	13:00	2361		75	74	9/64	310	8.5	887				
	13:30	2367		74	73	9/64	315	8.7	905	0			
	13:30	2367			Opened on 11/64	choke 3rd. rate.							
	14:00	2157		73	72	11/64	320	13	1118				
	14:30	2131		73	72	11/64	320	13.1	1122				
	15:00	2128		73	72	11/64	320	13.5	1138	0			
15:00	2128			Opened on 13/64	choke 4th. rate.								
15:30	1777		73	72	13/64	330	22	1478					
16:00	1783		72	71	13/64	330	19.7	1400	No fluid made				
16:30	1789		72	71	13/64	330	19.7	1400	0				



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BOTTOM HOLE PRESSURE REPORT

Operator Coquina Oil Corp. Lease Boyd X Well No. 1
Field Wildcat Reservoir Morrow Datum 9146 Mid. Perf.
Test Date 6-3-74 Well Status Shut in Hours Shut In 72
Tubing 2 3/8 Depth 9212 End Open Packer 9137 S. N. _____
Casing 5 1/2 Depth 9370 Perf. 9180 - 9212 Total Depth PB 9313

	Depth	Press. Lbs/Sq. In.	Δ Press.	Gradient Lbs/Ft.
Tubing Press.....	3009 DWT			
Casing Press.....	Surface	3010		
Top of Fluid.....	5000	3389	379	.076
Top of Water.....	7000	3538	149	.075
Temp. @.....	170 °F	9600		
Elev. KB.....	3465	GI	131	.066
Last Test Date.....	+146	+10	Datum	
Press. Last Test.....	9146	3679	Datum	(.066)
Change.....	Per Day			
Inst. No.....	33252	Cal. 3-74		
Tested By.....	Spruell			
Calcu. By.....	Spruell			
Prod. Index.....	Bbls/day/lb.			
Drop.....				
Cumulative prod.				

Remarks: