

N. M. O. C. C. CO.

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

COPY 4-21
C-122

FEB 20 1975

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2-3-75	
Company Cocuina Oil Corp.		Connection None	
Pool Wildcat		Formation Cisco Canyon	
Completion Date 2-3-75		Total Depth 11,485	Perforations 9508 9478
Elevation 3459 KB		Form or Lease Name F.A.F. Federal	
Orif. Size 4 1/2	Wt. 11.60	Set At 9508	Perforations From 9382 To 9396
Tag. Size 2 3/8	Wt. 4.7	Set At 9301	Perforations From To
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At 9301	County Eddy
Producing Thru Tubing		Reservoir Temp. °F 193 @ 9389	Mean Annual Temp. °F 60°
Baro. Press. - P _a 13.2		State New Mexico	
L 9301	H 9301	G _g .65	% CO ₂ 0
		% N ₂ 0	% H ₂ S 0
Prover 3.068		Meter Run Flange	Taps

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
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
1.	3.068	1.0	340	28	92	2764	72		
2.	3.068	1.0	390	50	92	2582	74		
3.	3.068	1.0	580	72	74	2357	73		
4.	3.068	1.0	750	99	75	2145	74		
5.									

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Comp. Factor, F _{spv}	Rate of Flow Q, Mcfd
1	4.789	99.45	353.2	.9706	1.240	1.032	592
2	4.789	141.99	403.2	.9706	1.240	1.036	848
3	4.789	206.66	593.2	.9868	1.240	1.061	1285
4	4.789	274.88	763.2	.9859	1.240	1.069	1709
5							

NO.	F _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	.53	552	1.47	.930	30.82 to 1	61	.65	XXXXXX	670	375
2	.60	552	1.47	.931						
3	.89	534	1.42	.888						
4	1.24	535	1.43	.875						
5										

NO.	P _a	P _w	P _w ²	P _a ² - P _w ²
1	3937.2	1550.2	2403.2	1393
2	3756.2	1410.9	1990.6	2569
3	3596.2	1293.3	1672.6	4485
4	3319.2	1101.7	1213.8	6410
5				

(1) $\frac{P_a^2}{P_a^2 - P_w^2} = 2.4184$

(2) $\frac{P_a^2}{P_a^2 - P_w^2} = 1.998$

AOF = Q $\left[\frac{P_a^2}{P_a^2 - P_w^2} \right]^n = 3.415$

RECEIVED FEB 19 1975 U.S. GEOLOGICAL SURVEY SANTA FE, NEW MEXICO

Absolute Open Flow 3,415 Mcfd @ 15.025 Angle of Slope @ 7.837

Remarks: PW Substituted for PT - Measured with Amerada Inst. No. 34515 8500# Element

Approved By Commission: Conducted By: Calculated By: Checked By: