

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

C-122
Revised 9-1-65

☐ Initial ☐ Annual ☒ Special				Test Date 1-21/28-66		Meter Sta. #1-66	
Company Continental Oil Company				Connection El Paso Natural Gas Company			
Pool Blinebry				Formation Blinebry		Unit A	
Completion Date Re-Completion		Total Depth 6505		Plug Back TD 6505		Elevation	
Farm or Lease Name Lockhart A-27				Well No. 5			
Csg. Size 5 1/2"	Wt. 17#	d	Set At 6505	Perforations: From 5690 To 5900		Unit Sec. Twp. Rge. A 27 21 37	
Tbg. Size 2 1/16	Wt. 3.25	d	Set At 6350 5800	Perforations: From To		County Lea	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. O. Dual				Packer Set At 6350		State New Mexico	
Producing Thru Casing		Reservoir Temp. °F 116 @ 5800		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 5800	H 5800	Gg .630	% CO ₂ 0	% N ₂ 0	% H ₂ S 0	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									1334		72
1.	4 x 2.000			585	16.00	89		60	1257		24
2.	4 x 2.000			621	25.00	40		60	1236		24
3.	4 x 2.000			605	50.41	60		60	1194		24
4.	4 x 2.000			637	73.96	54		60	1135		24
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	19.81	97.83	598.2	.9732	1.260	1.048	2,490
2	19.81	125.92	634.2	1.020	1.260	1.074	3,442
3	19.81	176.53	618.2	1.000	1.260	1.062	4,679
4	19.81	219.29	650.2	1.006	1.260	1.067	5,875
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	.89	549	1.49	.910	248.283	61.0	.630	XXXXXX	670	372
2	.95	500	1.36	.867						
3	.92	520	1.41	.887						
4	.97	514	1.40	.879						
5										

NO.	P _c	P _w	P _c ² - P _w ²
1	1613.4	1621.3	193.6
2	1560.5	1575.6	239.3
3	1457.3	1485.4	329.5
4	1362.9	1362.9	452.0
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 7.584$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 19,107$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.551$

A. Open Flow 19,107 Mcfd @ 15.025	Angle of Slope θ 50	Slope, n .84
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Approved By Commission:	Conducted By: Jack T. Littlefield	Calculated By: Jack T. Littlefield	Checked By: Earl G. Smith
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