

C/SF

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT, AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2-11-81		FEB 23 1981			
Company Gardiner Oil Corp.		Connection None		O.C.D.			
Pool Lubian Rock No. 1		Formation MORROW		Unit ARTESIA, OFFICE			
Completion Date 2-11-81		Total Depth 12,700		Plug Back TD 12,614			
Elevation 513		Form or Lease Name NEHEAN, Rm. 1		Well No. 1			
Dis. Size 5 1/2		WI. 18 #		Set At 11,879			
Perforations: From 11,879 To 12,654		Perforations: From To		Unit Sec. Twp. Rye. J 28 22S 28E			
Type Well - Single - Prudenthead - G.G. or G.O. Multiple Single		Packer Set At 11,879		County EDDY			
Producing Thru Tubing		Reservoir Temp. °F 194 11,879		Mean Annual Temp. °F 68			
Baro. Press. - P _a 13.2		State New Mexico		Taps flange			
L 11,879 H 11,879		G _g 5917		% CO ₂ NO			
% N ₂ NO		% H ₂ S 2.0		Prover			
Meter Run		X		Taps			
FLOW DATA							
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw		
SI							
1.	4"	X	1.250	405	9		
2.	4"	X	1.250	410	20		
3.	4"	X	1.250	415	49		
4.	4"	X	1.500	420	42		
5.							
TUBING DATA							
	Press. p.s.i.g.	Temp. °F					
	3203	22					
	3722	45					
	3530	55					
	3132	58					
	2542	58					
CASING DATA							
	Press. p.s.i.g.	Temp. °F					
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	7.469	61.3408	412.2	1.001	1.300	1.038	619
2	7.469	92.000	423.2	.9759	1.300	1.033	901
3	7.469	144.8509	428.2	.9759	1.300	1.034	1419
4	10.234	134.2866	433.2	.9777	1.300	1.034	1722
5.							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcf/bbl.		
1	.622	519	1.47	.429	A.P.I. Gravity of Liquid Hydrocarbons 47.6		
2	.630	546	1.54	.437	Specific Gravity Separator Gas .5917		
3	.637	546	1.54	.436	Specific Gravity Flowing Fluid .X X X X X		
4	.645	546	1.54	.436	Critical Pressure 672 P.S.I.A.		
5.					Critical Temperature 354 R		
P _c 4994.2 P _c 20442				(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 2.032$			
				(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.076$			
NO.	P _r	P _w	P _r	P _r - P _w	AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2837$		
1		4810.2	23437	1505			
2		4532.2	21457	2085			
3		4258.2	19132	6812			
4		3558.2	12665	12274			
5							
Absolute Open Flow 2837				Mcfd @ 15.025		Angle of Slope 61.5	
						Slope, n 549	
Remarks: P.W. Sustained for 10 min. - 35745 0.63005 2.072							
Approved By Commission: Conducted By: Richburg Calculated By: Checked By:							