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N. MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 9-1-65

JAN 24 1966

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

O. C. C.

RECEIVED

Type Test: ARTESIA, OFFICE		☒ Initial ☐ Annual ☐ Special		Test Date: 1-9-66		Date: JAN 11 1966	
Company: Union Oil Co.				Connection: -			
Pool: San Juan Basin				Formation: Alamo Canyon Reef			
Completion Date: 12-2-65		Total Depth: 7500		Plug Back TD: 7464		Elevation: 4146'	
Csg. Size: 4 1/2		Wt.: 9.5		Set At: 4.090		Perforations: From 6951 To 7208	
Tbg. Size: 2-3/8		Wt.: 4.7		Set At: 1.995		Perforations: From 6951 To ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 6900		County: dry	
Producing Thru: 1-9-66		Reservoir Temp. °F: 129 @ 7450		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2	
L: 6951		H: 6900		G _g : .635		% CO ₂ : -	
				% N ₂ : .29		% H ₂ S: .9	
				Prover: -		Meter Run: 4	
						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							2342		13.2	-	17.5 hr
1.			2.50"	920	21.5	83	2201	73	"	-	1 hr
2.			2.50"	935	31	81	2132	76	"	-	1 hr
3.			2.50"	965	41.5	81	2057	77	"	-	1 hr
4.			2.50"	990	54	84	1961	78	"	-	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.	32.64	141.7	933.2	.9726	1.255	1.078	5,123
2.	32.64	171.4	948.2	.9804	1.255	1.081	7,440
3.	32.64	201.5	976.2	.9894	1.255	1.083	8,763
4.	32.64	232.8	1003.2	.9977	1.255	1.083	10,100
5.							

NO.	P _f	Temp. °R	T _f	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.	1.373	543	1.496	.850	136.174	60.1	.635	X X X X X X X X	670	375
2.	1.415	541	1.470	.856				X X X X X		
3.	1.460	541	1.470	.852						
4.	1.497	544	1.478	.852						
5.										

NO.	P _f ²	P _w ²	P _f ² - P _w ²	P _f ² - P _w ² (1)	P _f ² - P _w ² (2)	AOF = Q	RECEIVED
1.	2214.2	4903	644				
2.	2145.2	4602	945				
3.	2070.2	4286	1261				
4.	1974.2	3897	1650				
5.							

Absolute Open Flow: 20,106 Mcfd @ 15.025		Angle of Slope: 60.2°		Slope, n: 5618	
Remarks: The AOF was calculated by method in Manual and method would not work. The results were obtained.					
Approved By Commission: <i>Michael R. L.</i>		Conducted By: <i>C. L. Thomson</i>		Checked By: <i>C. L. Thomson</i>	

The 75% draw-down could not be achieved due to well's inability to produce.