

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

Form O-122
 Revised 5-1-65

RECEIVED

Copy 651
Q-122

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 12-5-73		DEC 20 1973	
Company Monsanto Company			Connection <i>Transwestern</i>		O. C. C. ARTESIAL OFFICE
Well Burton Flat (Strawn)			Formation Strawn		Unit N
Completion Date 7-23-73		Total Depth 11500		Plug Back TD 11452	
Elevation 3195Gr		Form or Lease Name Burton Flat Unit			
Sec. Size 7"	26#	6.969	Set At 11499	Perforations: From 10216 To 10244	
Sec. Size 2 3/8	4.7	1.995	Set At 10041	Perforations: From To	
Type well - Single - Straddlehead - G.G. or G.O. Multiple Dual			Packer Set At 10705		County Eddy
Producing thru tubing		Reservoir Temp. °F 151 °	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2	
L 10230		H 10230	G _g .659	% CO ₂	% N ₂
				% H ₂ S	Prover
					Motor Run X

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
1.	4.0		2.750	730	12"	69	2865	60			1 hr.
2.	4.0		2.750	750	24"	69	2624	54			1 hr.
3.	4.0		2.750	770	35"	69	2507	64			1 hr.
4.	4.0		2.750	810	45"	69	2321	70			1 hr.
5.							2095	72			

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{K_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sc}	Rate of Flow Q, Vold
1.	56.63	94.43	743.2	.9915	1.2318	1.078	7041
2.	56.63	135.33	763.2	.9915	1.2318	1.090	10109
3.	56.63	165.56	783.2	.9915	1.2318	1.082	12390
4.	56.63	192.46	823.2	.9915	1.2318	1.087	14470
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Vol/Vol.
1.	1.31	529	1.40	.861	45.844	
2.	1.14	529	1.40	.857	57° @ 60°F	
3.	1.17	529	1.40	.854		
4.	1.23	529	1.40	.847		
5.						

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1.	2697.2	7275	1010		8285	1.51695
2.	2520.2	6351	1934		3840	
3.	2334.2	5446	2837			
4.	2198.2	4445	3840			
5.						

AOF = 0 $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$ 21950	
--	--

Absolute Gas Flow 21950 Vold @ 15.025 Angle of Slope 61.5 Slope .382
Remarks: Well was shut in 24 hours prior to start of this test.

Reported by Commission	Conducted by W.T. Hagler	Calculated by H.L. Hagler	Checked by
------------------------	-----------------------------	------------------------------	------------