

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

Copy to SF
 Form C-122
 Revised 1-1-65
 C-122

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 12-4-73		DEC 20 1973	
Company Monsanto Company			Connection TWP + SK		G. G. G.
Well Burton Flat (Morrow) La			Formation Morrow		Unit G
Completion Date 5-1-73		Total Depth 11,510	Plug Back TD 11,432	Elevation 3199 DF	Form or Lease Name Miller Federal
Case Size 5 1/2	Wt. 17#	d 4.892	Set At 11,510	Perforations: From 11,304 To 11,310	Well No. 1
Test Size 2 7/8 EUE	Wt. 6.5	d 2.441	Set At 11,137	Perforations: From To	Unit / Sec. Twp. Rgn. G 3 21-S 27-E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual			Packer Set At 11,126		County Eddy
Producing thru Tubing		Reservoir Temp. °F 161 @ 11,307	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2	State New Mexico
L 11,307	H 11,307	G _g .594	% CO ₂	% N ₂	% H ₂ S
				Prover	Motor Run X
FLOW DATA			TUBING DATA		CASING DATA
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
1.	4.0	1.25	760	7	63
2.	4.0	1.25	760	16	68
3.	4.0	1.25	760	21	69
4.	4.0	1.25	760	38	69
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
1.	7.469	73.57	773.2	.9971	1.2975
2.	7.469	111.23	773.2	.9924	1.2975
3.	7.469	127.42	773.2	.9915	1.2975
4.	7.469	171.41	773.2	.9915	1.2975
5.					
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio
1.	1.15	523	1.48	.883	490.18 Mcf/bbl.
2.	1.15	528	1.49	.886	A.P.I. Gravity of Liquid Hydrocarbons 50.2 @ 60°
3.	1.15	529	1.49	.886	Specific Gravity Separator Gas .594
4.	1.15	529	1.49	.886	Specific Gravity Flowing Fluid XXXXX
5.					Critical Pressure 672 P.S.I.A.
					Critical Temperature 354 °R
P _r	3001.2	P _c ²	9007		
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	
1.	2940.2	8645	362		
2.	2877.5	8280	727		
3.	2819.9	7952	1055		
4.	2767.0	7656	1351		
5.					
$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{9007}{1351}$					$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,6607$
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6403$					
Absolute Open Flow 6403			Mcf @ 15.025	Angle of Slope @ 55.6	Slope, n .684
Remarks: Well Shut-In 24 Hours Prior to Start of This Test.					
Approved by Corporation		Conducted by: W T Hagler		Calculated by: H L Hagler	
		West Texas Consulting Service, Inc.			