

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

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Form C-122
Revised 6-1-65

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DEC 31 1974

Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date: 12-17-74	
Company: Monsanto Company				Connection: None		
Pool: Burton Flat				Formation: Morrow		
Completion Date: 12-17-74		Total Depth: 11,410		Plug Back TD: 11,374		
Elevation: 3200 KB		Farm or Lease Name: Avalon Hills				
Well No.: 2	Well Name: 2					
Well Size: 5 1/2	Wt.: 17#	d: 4.892	Set At: 11,410	Perforations: From 11,167 To 11,176		
Well Size: 2 7/8 EUE	Wt.: 6.50	d: 2.441	Set At: 10,906	Perforations: 11,298-11,301 From 11,350 To 11,358		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 10,906		
Producing Thru Tubing		Reservoir Temp. °F: 168 @ 11,410		Mean Annual Temp. °F: 60		
Baro. Press. - P _a : 13.2		State: New Mexico				
L: 11,251	H: 11,251	G _g : .604	% CO ₂	% N ₂ : .98%	% H ₂ S: .91%	
Prover		Meter Run: X		Taps		

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		2.25	600	17	77	3589	68			1 Hr
2	4.0		2.25	600	29	76	3522	71			1 Hr
3	4.0		2.25	600	42	69	3455	74			1 Hr
4	4.0		2.25	600	59	64	3365	74			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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mscf/d
1	25.64	102.10	613.2	.9840	1.2867	1.046	3467
2	25.64	133.35	613.2	.9850	1.2867	1.047	4537
3	25.64	160.48	613.2	.9915	1.2867	1.050	5512
4	25.64	190.20	613.2	.9962	1.2867	1.051	6570
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	.91	537	1.52	.914			XXXXXXX	XXXXX	674	354
2	.91	536	1.51	.912						
3	.91	529	1.49	.907						
4	.91	524	1.48	.905						
5										

NO.	P _c ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{14086}{2144}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.89651$
1	3622.2	13120	966		
2	3571.5	12756	1330		
3	3526.8	12438	1648		
4	3459.8	11970	2116		
5					

Absolute Open Flow			Angle of Slope		Slope, n	
32170 Mscf @ 15.025			50° 2'		.834	

Remarks: Well was Shut-In 24 Hours prior to starting this test. Choke sizes 10/64"; 12/64"; 14/64"; 16/64"/

Approved By Commission:	Conducted By: J N Casparis	Calculated By: H L Hagler	Checked By:
WEST TEXAS CONSULTING SERVICE, INC.			