

NEW MEXICO OIL CONSERVATION COMM. IN
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-27-74		APR 1 - 1974	
Company Monsanto Company				Connection None		C. C. C. ARTESIA, OFFICE	
Well Wildcat				Formation Morrow		Unit N	
Completion Date 3/22/74		Total Depth 11,420		Plug Back TD 11,362		Elevation 3200 KB	
Farm or Lease Name Avalon Hills							
Log. Size 5 1/2	Wt. 17#	Set At 11,420	Perforations: From 11168 To 11,354		Well No. 1		
Log. Size 2 7/8	Wt. 6.5	Set At 10,952	Perforations: From To		Unit N	Soc. 7	Twp. 21-S
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,950		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 160° @ 11,420		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
State New Mexico							
L 11,261	H 11,261	Gg .579	% CO ₂ .0102	% N ₂ .0022	% H ₂ S .08	Prover X	Meter 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	
5.							3850	56			24 Hrs.
1.	4.0		2.5	480	7	79	3811	75			1 Hr
2.	4.0		2.5	460	12	80	3787	78			1 Hr
3.	4.0		2.5	450	23	86	3733	79			1 Hr
4.	4.0		2.5	435	38	47	3653	80			1 Hr
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	33.29	58.757	493.2	.9822	1.3142	1.035	2613
2.	33.29	75.355	473.2	.9813	1.3142	1.034	3345
3.	33.29	103.216	463.2	.9759	1.3142	1.031	4543
4.	33.29	130.505	448.2	1.0127	1.3142	1.040	6014
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	None Produced	Mcft/bbl.
1.	.73	539	1.54	.933	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	.70	540	1.54	.936	Specific Gravity Separator Gas	.579	XXXXXXXXXX
3.	.69	546	1.56	.940	Specific Gravity Flowing Fluid	XXXXXX	
4.	.67	507	1.45	.924	Critical Pressure	672	P.S.I.A. 672
5.					Critical Temperature	350	R 350

NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{14924}{1037}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.22739$
1.	3835.1	14707	217			
2.	3818.4	14580	344			
3.	3779.4	14284	640			
4.	3726.5	13887	1037			
5.						

Absolute Open Flow	25423	Mcfd @ 15.025	Angle of Slope @	61° 36'	Slope, n	.540
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Remarks:

Approved by Commission:	Conducted By: JNC & RGR	Calculated By: H L Hagler	Checked By:
WEST TEXAS CONSULTING SERVICE, INC.			