

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

Form C-122
 Revised 9-1-55

RECEIVED

JAN 15 1974

Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date: 1-3-74				
Company: Monsanto Company				Connection:				O.C.C. ARTESIA, OFFICE	
Pool: Burton Flat				Formation: Morrow				Unit: 0	
Completion Date: 1-3-74		Total Depth: 11,460		Plug Back TD: 11,409		Elevation: 3236 KB		Farm or Lease Name: Burton Flat Deep Unit	
Coq. Size: 7	Wt. 26#	d 7.386	Set At 11,460	Perforations: From 11,002 To 11,252			Well No. 8		
Req. Size: 2 7/8 EUE	Wt. 6.50	d 2.441	Set At 10,834	Perforations: From To			Unit: 0	Sec. 27	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 10,834			County: Eddy		
Producing Thru: 11,127		Reservoir Temp. °F: 162° @ 11,460		Mean Annual Temp. °F: 60°		Baro. Press. - P _a : 13.2		State: New Mexico	
L 11,127	H 11,127	Gg .614	% CO ₂	% N ₂	% H ₂ S	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	150	33	54	2764	49			1 Hr
2.	4.0		2.25	570	36	84	1980	60			1 Hr
3.	4.0		2.25	570	38	91	1400	64			1 Hr
4.	4.0		2.25	570	54	91	1050	64			
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 _{pv}	Rate of Flow Q, Mgd
1.	25.99	73.386	163.2	1.0058	1.2762	1.016	2487
2.	25.99	144.897	583.2	.9777	1.2762	1.046	4915
3.	25.99	148.867	583.2	.9715	1.2762	1.045	5013
4.	25.99	177.462	583.2	.9715	1.2762	1.045	5976
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio: 1429 Mcf/bbl.
1.	.24	514	1.42	.969	A.P.I. Gravity of Liquid Hydrocarbons: 52.8 @ 60° Deg.
2.	.87	544	1.50	.914	Specific Gravity Separator Gas: .614
3.	.87	551	1.52	.916	Specific Gravity Flowing Fluid: .616
4.	.87	551	1.52	.916	Critical Pressure: 671 P.S.I.A.
5.					Critical Temperature: 362 °R

P _c 3557.2	P _c ² 12654	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{12654}{4846}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.611$
NO.	P _w	P _w ²	P _c ² - P _w ²
1.	2794.3	7808	4846
2.	2056.6	4230	8424
3.	1492.3	2227	10427
4.	1230.8	1515	11139
5.			

Absolute Open Flow: 6493 Mcf @ 15.025		Angle of Slope: 45°	Slope, n: 1.00
Remarks: Well was Shut-In 50 Hours prior to the start of this test.			
Approved By Commission:		Conducted By: J N Casparis	Calculated By: H L Hagler
		West Texas Consulting Service, Inc.	
		Checked By:	