

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

Copy 6SF
C-122
Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2-26-75		MAR 6 1975	
Company Monsanto Company				Connection None			O. C. C. ARTESIA, OFFICE	
Pool Rock Tank				Formation Morrow			Unit D	
Completion Date 1-28-75		Total Depth 10,405		Plug Back TD 10,342		Elevation 3780 Gr 3795 KB		Farm or Lease Name Dark Canyon
Csg. Size 5 1/2	Wt. 17#	d 5.450	Set At 10,405	Perforations: From 10,278 To 10,300			Well No. 1	
Trg. Size 2 7/8 EUE	Wt. 6.5#	d 2.441	Set At 10,040	Perforations: From To			Unit Sec. Twp. Rge. D 18 23-S 25-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 10,040		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 149 @ 10,405		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico
L 10,289	H 10,289	G _g .582	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	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
SI							1005	50			SI 670 Hr
1.	4.0		1.375	440	2.5	92	850	58			1 Hr
2.	4.0		1.375	450	5.0	72	774	60			1 Hr
3.	4.0		1.375	455	9.0	98	699	62			1 Hr
4.	4.0		1.375	460	13.5	90	610	64			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	9.071	33.66	453.2	.9706	1.3108	1.071	416
2	9.071	48.12	463.2	.9887	1.3108	1.064	602
3	9.071	64.91	468.2	.9653	1.3108	1.058	788
4	9.071	79.92	473.2	.9723	1.3108	1.049	969
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	1.28	518	1.48	.871	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	1.17	520	1.49	.884	Specific Gravity Separator Gas _____ X X X X X X X X
3	1.06	522	1.49	.893	Specific Gravity Flowing Fluid _____ X X X X X
4	.93	524	1.50	.908	Critical Pressure 672 _____ P.S.I.A. 672 _____ P.S.I.A.
5					Critical Temperature 350 _____ R 350 _____ R

P _c 1018.2	P _c ² 1037	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1037}{661}$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.56883$	
NO.	P _w	P _w ²	P _c ² - P _w ²		
1	864.2	747	290		
2	789.5	623	414		
3	699.9	490	547		
4	613.3	376	661		
5					

Absolute Open Flow 1520 _____ Mcfd @ 15.025		Angle of Slope @ 45°	Slope, n 1.00
Remarks: Shut-In 670 Hours Prior to Start of Test			
Approved By Commission: _____ Conducted By: J N Casparis Calculated By: H L Hagler Checked By: _____ WEST TEXAS CONSULTING SERVICE, INC.			