

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-29-68			
Company Monsanto Company				Connection None				
Pool Undesignated				Formation Upper Morrow			Unit D	
Completion Date 1-23-68		Total Depth 11,026		Plug Back TD 10,335		Elevation 3961		Farm or Lease Name Rock Tank Unit
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 10,472	Perforations: From 9965 To 9978		Well No. 1-C		
Trq. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10,204	Perforations: From 10,290 To 10,324		Unit D	Sec. 27	Twp. 23-S
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G.				Packer Set At 10,200		County Eddy		
Producing Thru Casing		Reservoir Temp. °F 170° 9971.5		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico
L 9971.5	H 9971.5	G _g .589	% CO ₂ .60	% N ₂ .72	% H ₂ S 0	Prover	Meter Run X	Taps Flange

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									3117	58	7 days
1.	4.027 x 1.000			450	98	94			2962	62	60 Mins
2.	4.027 x 1.750			410	34	77			2704	66	60 Mins
3.	4.027 x 1.750			430	55	76			2536	68	60 Mins
4.	4.027 x 1.750			430	77	76			2364	69	60 Mins
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.753	210	4632	.9688	1.303	1.030	1297
2	14.93	118	423.2	.9842	1.303	1.031	2325
3	14.93	154	443.2	.9850	1.303	1.033	3048
4	14.93	181	443.2	.9850	1.303	1.033	3562
5.							

NO. 1					Gas Liquid Hydrocarbon Ratio None Produced		Mcf/bbl.	
NO. 2					A.P.I. Gravity of Liquid Hydrocarbons		Deg.	
NO. 3					Specific Gravity Separator Gas		XXXXXXX	
NO. 4					Specific Gravity Flowing Fluid		XXXXX	
NO. 5					Critical Pressure by Analysis		673.08 P.S.I.A.	
					Critical Temperature		345.06 °R	

P _c 3130.2 P _c ² 9793.1				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.377$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3701$	
NO.	P _w	P _w ²	P _w ² - P _w ²				
1	From 2973.6	8842	956				
2	step 2714.9	7371	2427				
3	wise 2553.2	6519	3279				
4	calc. 2382.6	5676	4122				
5							

Absolute Open Flow 6698			Mcf @ 15.025		Angle of Slope 54°		Slope, n .723	
Remarks: Computations made with Electronic Calculator using 7 Decimal Places.								
Approved By Commission:			Conducted By: D. F. Jones			Calculated By: H. L. Hooper		Checked By: