

N.L. MEXICO OIL CONSERVATION COMMS. JN
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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Form C-122
Revised 9-1-65

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MAY 22 1969

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 5-6-69		O. C. C. ARTEDIA, OFFICE	
Company Monsanto Company				Connection Trans Western			
Pool Rock Tank Lower Morrow Pool				Formation Morrow		Unit K	
Completion Date 7-17-63		Total Depth 10,552		Plug Back TD 10,473		Elevation 4014 DF	
Farm or Lease Name Rock Tank Unit		Well No. 2					
Csq. Size 4 1/2	Wt. 11.6	d 1.995	Set At 10,533	Perforations: From 10,405 To 10,438		Unit Sec. Twp. Rge. K 6 23-S 25-E	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10,314	Perforations: From 02 To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,210		County Eddy	
Producing Thru Tubing		Reservoir Temp. *F 177 @ 10,405		Mean Annual Temp. *F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 10,405	H 10,405	Gg .583	% CO ₂ .73	% N ₂ .22	% H ₂ S	Prover	Meter Run X
Taps 7							

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.	
SI							3235			
1.	4		2.25	780	39	69	2569	74		
2.	4		2.25	800	45	71	2584	76		
3.	4		2.25	830	57	69	2563	77		
4.	4		2.25	840	74	69	2449	78		
5.	4		2.25	760	95	70	2297	79		

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	25.64	174.41	780	.9915	1.310	1.059	6151
2	25.64	189.74	800	.9938	1.310	1.059	6679
3	25.64	217.51	830	.9915	1.310	1.064	7707
4	25.64	249.32	840	.9915	1.310	1.064	8834
5	25.64	268.70	760	.9905	1.310	1.064	9512

NO.	P _t	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	115	541	151	1.1	1031	
2	115	541	152	1.1	54 @ 60°	
3	123	541	151	1.1	A.P.I. Gravity of Liquid Hydrocarbons	
4	124	541	151	1.1	Specific Gravity Separator Gas .583	XXXXXXX
5	111	541	151	1.1	Specific Gravity Flowing Fluid XXXXX	
					Critical Pressure 676	P.S.I.A.
					Critical Temperature 350	R

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 3.622$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 2.645$
1		3081.2	9494	1713		
2		3031.3	9188	2022		
3		3001.0	9006	2204		
4		2910.6	8472	2738		
5		2848.8	8115	3095		

Absolute Open Flow				25166	Mcf @ 15.025	Angle of Slope @ 52°	Slope, n .775
Remarks: *Meter set to read p s i a							
Approved By Commission:		Conducted By: P.F. ...		Calculated By: ...		Checked By:	