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C-122
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Form C-122
Revised 9-1-65

NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
NOV 8 1972
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special — Test Date: 11-4-72

Company: Monsanto Company	Connection: Not Contracted		
Pool: ~~Dottie Undesignated~~ Undesignated	Formation: Morrow		Unit: Lot 15
Completion Date: Nov. 4, 1972	Total Depth: 11,700'	Plug Back TD: 11,641	Elevation: 3196
Farm or Lease Name: Burton Flat			
Csg. Size: 5 1/2 / Wt.: 17# / d: 4.892 / Set At: 11,699	Perforations: From 11308 To 11,458		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5# / d: 2.441 / Set At: 11,030	Perforations: From Open To Ended		Unit: Lot 15 / Sec.: 3 / Twp.: 21S / Rge.: 27E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 11,025		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 168 @ 11030	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2
State: New Mexico			

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11,030	11,030	0.586	.93	Trace	0		4	Flange

NO.	FLOW DATA: Prover Line Size	x	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							3683		Pkr		
1.	4"	x	2.75	810	3	100	3651	75			60 Min.
2.	4"	x	2.75	810	9	101	3523	75			60 Min.
3.	4"	x	2.75	825	26	80	3315	75			60 Min.
4.	4"	x	2.75	850	63	60	2840	75			60 Min.
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv *	Rate of Flow Q, Mcfd
1	41.10	49.6	823.2	0.9636	1.306	1.051	2696.3
2.	41.10	86.0	823.2	0.9628	1.306	1.051	4671.1
3.	41.10	147.6	838.2	0.9813	1.306	1.057	8217.7
4.	41.10	233.2	863.2	1.0000	1.306	1.073	13431.2
5.							

NO.	P_t	Temp. °R	T_r	Z
1				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 268.7 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 51.0 Deg.
Specific Gravity Separator Gas ____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX ____
Critical Pressure 676 P.S.I.A. ____ P.S.I.A.
Critical Temperature 352 R ____ R

P_f 4642 P_f^2 21545

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		4617.5	21321	224
2		4564.6	20836	709
3		4357.2	18985	2560
4		4052.2	16420	5125
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ ____ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ ____

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ ____

Absolute Open Flow 37,500 Mcfd @ 15.025 Angle of Slope θ 54° 40' Slope, n 0.70919

Remarks: * Simplified Supercompressibility Tables

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	F. Tefteller	