

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7/23/73		AUG 2 1973	
Company Monsanto Company				Connection None		O. C. C. ARTESIA, OFFICE	
Pool Burton Flat				Formation Strawn		Unit N	
Completion Date 7/23/73		Total Depth 11,500		Plug Back TD 11,452		Elevation 3195 Gr	
Farm or Lease Name Burton Flat Unit		Well No. 4-UT		Unit Sec. Twp. Rge. N 34 20-S 28-E			
Csq. Size 7	Wt. 26	d 6.969	Set At 11,499	Perforations: From 10,216 To 10,244			
Tq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10,041	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual				Packer Set At 10,705		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 151° @ 10,229		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
State New Mexico							
L 10,230	H 10,230	G _g .659	% CO ₂ .36	% N ₂ .18	% H ₂ S 0	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.	
5.							3817	72	Packer	
1.	4		2 1/4	660	4	82	3785	76		64 hrs
2.	4		2 1/4	680	8	80	3764	78		60 Min
3.	4		2 1/4	690	14	76	3536	80		60
4.	4		2 1/4	710	28	70	3597	81		60
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	25.64	51.89	673.2	.9795	1.232	1.065	1708
2	25.64	74.47	693.2	.9813	1.232	1.068	2465
3	25.64	99.22	703.2	.9850	1.232	1.071	3306
4	25.64	142.30	723.2	.9905	1.232	1.075	4786.2
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	39.8	Mcf/bbl.
1.	1.00	542	1.44	.881	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	1.03	540	1.43	.876	Specific Gravity Separator Gas		XXXXXXX
3.	1.05	536	1.42	.872	Specific Gravity Flowing Fluid	XXXXX	
4.	1.08	530	1.40	.865	Critical Pressure	670	P.S.I.A.
5.					Critical Temperature	378	R

P _c 3830.2	P _c ² 14670		
NO.	P _t ²	P _w	P _w ²
1		3820.2	14594
2		3805.7	14483
3		3605.3	12998
4		3726.8	13889
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{14670}{781}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.334$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 20743$$

Absolute Open Flow	20743	Mcf/d @ 15.025	Angle of Slope @	63.5	Slope, n	.500
Remarks:						

Approved By Commission:	Conducted By: J. N. Casparis	Calculated By: W.T. & H.L. Hagler	Checked By:
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