Copy to SF
Form C-122 C-122.2
Revised 9-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT A... ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
SEP 27 1974
O. C. C.
ARTESIA, OFFICE

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 9-16-74	
Company: MOBIL OIL CORPORATION		Connection: LLANO INC.			
Pool: BURTON FLAT ...		Formation: MORROW		Unit: 29891	
Completion Date: 12-18-73	Total Depth: 11600'	Plug Back TD: 11599	Elevation: 3203 KB	Farm or Lease Name: FED 4 COMM.	
Csg. Size: 5½" / Wt.: 17 #/Ft / d: 4.892" / Set At: 11600'		Perforations: From 11272' To 11290		Well No.: 1	
Tbg. Size: 2⅜" / Wt.: 4.7 #/Ft / d: 1.995" / Set At: 11269'		Perforations: From — To O.E		Unit: I / Sec.: 4 / Twp.: 21S / Rge.: 27E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 11256'		County: EDDY	
Producing Thru: TUBING	Reservoir Temp. °F: 181 @ 11599'	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
11269	11272	0.6126	0.87	2.25	—	—	4"	FLANGE

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					3825		2120	—	152 DAYS
1.	4 X 1.250	725	48	75°	2560	60	2120	—	24 HRS
2.	4 X 2.000	728	11.5	63°	2200	60	2120	—	24 HRS
3.	4 X 2.000	723	18	69°	1750	60	2120	—	24 HRS
4.	4 X 2.000	718	25	60°	1180	60	2120	—	24 HRS
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	7.469	188.24	738.2	.9859	1.277	1.058	1873
2	19.81	92.33	741.2	.9971	1.277	1.064	2478
3	19.81	115.12	736.2	.9915	1.277	1.060	3061
4	19.81	135.20	731.2	1.0000	1.277	1.064	3639
5							

NO.	P_t	Temp. °R	T_r	Z
1	1.10	535	1.50	0.893
2	1.11	523	1.47	0.883
3	1.10	529	1.49	0.890
4	1.09	520	1.46	0.883
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.6126 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 670 P.S.I.A. _____ P.S.I.A.
Critical Temperature 355 R _____ R

P_c 3838.2 P_c^2 14731.8

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	6621	2594	6729	8003
2	4898	2254	5079	9652
3	3109	1840	3324	11347
4	1424	1353	1829	12902
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.141$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.192$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4337$

Absolute Open Flow 4337 Mcfd @ 15.025 Angle of Slope θ 37.019 Slope, n 1.326

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	A.R. ALAMEDDINE	K.W. LEWIS	A.R. ALAMEDDINE