

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

Form C-12
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9-12-74		SEP 24 1974	
Owner MOORE OIL CORPORATION		Connection		O. C. C. ARTESIA, OFFICE	
Pool BURTON FLAT		Formation FLOREAN		Unit 320	
Completion Date 8-31-74		Total Depth 11,400'		Flow Test Top -	
Elevation -		Form or Lease Name FED 12 COMPT.		Well No. 1	
Core Size 5 1/2"	WT. 15.5877	Set At 4,892'	Set At 11,400'	From 10,952'	To 11,264'
Tub. Size 2 3/8"	WT. N-80	Set At 1,995'	Set At 10,941'	From -	To -
Type Well - Single - Endhead - G.G. or G.C. Multiple SINGLE		Flow Test At 10,915'		County EDDY	
Producing Time TUBING		Reference Temp. °F 184°		State NEW MEXICO	
Flow Test Temp. °F 1108		Flow Test Temp. °F 60°		Flow Test Temp. °F 13.2	
L 10,941	H 11,108	G ₁ 0.586	% CO ₂ 0.9	% H ₂ S 2.3	Prover -
Meter Run 4"		Type 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	Duration of Flow
SI							3000	-	125	-	21.10
1.	4 x 2		4.85	3.7	5.7	30.0	60	125	-	-	1.00
2.	4 x 2		5.15	4.7	3.8	26.0	60	125	-	-	1.00
3.	4 x 2		5.30	13.0	6.0	24.0	60	150	-	-	1.00
4.	4 x 2		5.55	22.5	8.1	12.0	60	200	-	-	1.00
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 _{sc}	Rate of Flow Q, Mcfd
1	19.81	36.67	482.2	0.983	1.3063	1.0397	846
2	19.81	71.57	582.2	0.983	1.3063	1.0419	1415
3	19.81	84.03	643.2	0.983	1.3063	1.0437	2257
4	19.81	113.06	682.2	0.983	1.3063	1.0457	3043
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Def./rel.
1	0.73	527	1.49	0.85	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2	0.72	522	1.49	0.85	Specific Gravity Separator Gas	0.586
3	0.80	526	1.49	0.87	Specific Gravity Flowing Fluid	XXXXXX
4	0.84	525	1.49	0.87	Critical Pressure	675 P.S.I.A.
5					Critical Temperature	353 R

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²
1	10583	3258	10613	2156
2	7491	2793	7789	1482
3	5530	2463	6067	6121
4	2500	1403	3621	9147
5				

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 5.926$		(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 3.955$	
AOP = 0		$\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 3.878$	

Steady State Flow	Mold 9 15.025	Angle of Slope	Slope, n
3878		52.30°	0.772

Remarks:

Approved By	Conducted By	Calculated By	Checked By
	A. S. HARRINGTON	W. H. G. S.	A. S. HARRINGTON