NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

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

Type Test: ☒ Initial ☐ Annual ☐ Special			Test Date: 8-12-74	
Company: MOBIL OIL CORPORATION	Connection: LLANO INC.			Unit: 32
Pool: BURTON FLAT	Formation: MORROW			
Completion Date: 9-15-73	Total Depth: 11,640	Plug Back TD: —	Elevation: 3275' G.L.	Farm or Lease Name: FEDERAL 00
Csg. Size: 7" / Wt.: 23 & 26 #/Ft / d: 6.366 / Set At: 11,640		Perforations: From 11,234' To 11,548'		Well No.: 1
Tbg. Size: 2 3/8" / Wt.: N-80 / d: — / Set At: 11,173'		Perforations: From — To —		Unit: B / Sec.: 8 / Twp.: 21-S / Rge.: 27-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 11,150'		County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: 176° @ 11,640'	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2	State: NEW MEXICO
L: 11,173' / H: 11,391 / Gg: 0.595	% CO_2: 0.99	% N_2: 0.89	% H_2S: —	Prover: — / Meter Run: 4" / Taps: 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					3611	60°	2480	—	
1.	4 X 1.750	737	14	80	2265	60°	2480	—	24 HRS
2.	4 X 1.750	773	23.5	80	1885	60°	2480	—	24 HRS
3.	4 X 1.750	785	34	80	1495	60°	2480	—	24 HRS
4.	4 X 1.750	756	51.5	80	900	60°	2480	—	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	14.93	102.48	750.2	0.9813	1.2964	1.0531	2049.9
2.	14.93	135.92	786.2	0.9813	1.2964	1.0555	2725.1
3	14.93	164.73	798.2	0.9813	1.2964	1.0563	3305.4
4	14.93	199.03	769.2	0.9813	1.2964	1.0544	3986
5							

NO.	P_t	Temp. °R	T_r	Z
1.	1.11	540	1.54	0.901
2.	1.16	540	1.54	0.897
3.	1.18	540	1.54	0.896
4.	1.13	540	1.54	0.899
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.595 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 675 P.S.I.A. _____ P.S.I.A.
Critical Temperature 350 R _____ R

P_c 3624.2 P_c^2 13134.8

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	5190.1	2304.6	5311.5	7823.2
2	3603.1	1953.4	3815.8	9318.9
3	2274.6	1610.2	2592.8	10542.0
4	833.9	1149.7	1321.9	11812.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.678$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.303$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4721$

Absolute Open Flow 4721 Mcfd @ 15.025 Angle of Slope θ 31.843 Slope, n 1.610

Remarks: 4-Point After Pipe line connection

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