

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

COPE 40 ST
122 DILL
Form C-122
Revised 9-1-65
RECEIVED

OCT 13 1976

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9-29-76	
Company MESA PETROLEUM CO.		Connection AIR	
Pool UNDESIGNATED WHITE CITY PEN.		Formation MORROW	
Completion Date 9-27-76		Total Depth 11681	Plug Back TD 11638
Elevation 3339-19'KB		Farm or Lease Name MOORE FED. COM	
Csg. Size 5 1/2	Wt. 15.5	d N80	Set At 11681
Perforations: From 11004 To 11377	Well No. # 1		
Tub. Size 2 7/8	Wt. 6.5	d N80	Set At 10926
Perforations: From To	Unit K		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE		Packer Set At 10926	County EDDY
Producing Thru TUBING	Reservoir Temp. °F @ 180	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
L 10926		H 10926	G _g .580
% CO ₂	% N ₂	% H ₂ S	Prover Meter Run 4"
Taps FLANGE		State NEW MEXICO	

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
1.	4	X	2.250	690	5.5	98	3660		PKR		
2.	4	X	2.250	780	15	92	3450	70			1 HR.
3.	4	X	2.250	795	28	80	3160	70			1 HR.
4.	4	X	2.250	840	39	81	2810	70			1 HR.
5.							2400	70			1 HR.

RECEIVED
OCT 14 1976

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Q _{sp} C.C. AREA OFFICE Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	31.40	62.19	703.2	.9653	1.313	1.044	2584
2.	31.40	109.10	793.2	.9706	1.313	1.051	4588
3.	31.40	150.43	808.2	.9813	1.313	1.058	6439
4.	31.40	182.41	853.2	.9804	1.313	1.059	7808
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	1.05	558	1.59	.917			.580		672	350
2.	1.17	552	1.58	.906						
3.	1.20	540	1.54	.894						
4.	1.26	541	1.55	.892						
5.										

P _c 4755.2 P _c ² 22612				
NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²
1		4528.2	20504	2108
2		4213.2	17751	4861
3		3846.2	14793	7819
4		3515.2	12357	10255
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.892$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 13168$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.045$

POSTED
30-10-76

Absolute Open Flow	13168	Mcfd @ 15.025	Angle of Slope @	35°	Slope, n	.707
--------------------	-------	---------------	------------------	-----	----------	------

Remarks: PT&PW PRESSURES-WERE TAKEN FROM AMERADA GAUGE R.P.G. 3-SERIAL NO. 38776-BOTTOMHOLE PRESSURE WERE TAKEN AT MID POINT OF CASING PERFS.

Approved By Commission:	Conducted By: LARRY DAVIS	Calculated By: LARRY DAVIS	Checked By:
-------------------------	------------------------------	-------------------------------	-------------