

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 10-9-81		MAR 15 1982	
Company Mesa Petroleum Co. ✓			Connection UNCONNECTED		O. C. D.	
Well UNDESIGNATED ABO			Formation ABO		ARTESIA, OFFICE	
Completion Date 10-9-81		Total Depth 3303		Plug Back TD 3246	Elevation 4023	Farm or Lease Name SALT FEDERAL
Perforations: From 3025 To 3048	Set At 3300	Well No. 5		Unit Sec. Twp. Rge. N 4 8S 23E		
Perforations: From OPEN ENDED	Set At 2832	County CHAVES		State NEW MEXICO		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE			Packer Set At NONE		Prover 2" ORIFICE WELL TESTER	
Producing Thru TUBING		Reservoir Temp. °F 100# 3303	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2		Meter Run Taps
L 2832	H 2832	G _g .65	% CO ₂ 1	% N ₂ 1	% H ₂ S	

FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow
Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F		
2" ORIFICE	1	2		70	970	945	72 hr.	
					80	160	1 hr.	
1.								
2.								
3.								
4.								
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	183	2" ORIFICE WELL		9905	9608		174
2.		TESTER					
3.							
4.							
5.							

NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deq.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²
1	958	173	30	888
2.				
3.				
4.				
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0337$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 180$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0337$$

Absolute Open Flow	180	Mcf/d @ 15.025	Angle of Slope @ 45°	Slope, n 1
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Remarks: Unable to run four flow rates due to low delivery of well. Assumed N=1 and based calculations on one point test.

Approved By Commission:	Conducted By: JAMES CRAIG	Calculated By: E.L. BUTTROSS, JR.	Checked By:
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