

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

Form C-122
Revised 9-1-55

RECEIVED C-122
file

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-14-80		AUG 20 1980	
Company Mesa Petroleum Co. ✓				Connection To be determined				O. C. D. ARTESIA, OFFICE	
Pool Wildcat				Formation Abo				Unit	
Completion Date 8-9-80		Total Depth 4440'		Plug Back TD 4007'		Elevation		Farm or Lease Name Bestwall	
Csg. Size 4 1/2"	Wt. 10.5#	d	Set At 4100'	Perforations: From 3846' To 3864'		Well No. 1			
Tbg. Size 2 3/8"	Wt. 4.7#	d	Set At 3781'	Perforations: From Open ended To		Unit Sec. Twp. Rge. I 29 9S 25E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 3781'		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 92 @ 4100		Mean Annual Temp. °F 60		Baro. Press. - P _a 3.2		State New Mexico	
L 3781'	H 3781'	Gg .631	% CO ₂ 1	% N ₂ 3	% H ₂ S --	Prover 2"	Meter Run Office Well	Tester	

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
SI							400	--	Packer	--	72 hrs SI
1.	2" Orifice	1/2	1	--	70	140	--	--	--	--	1 hr
2.	well tester										
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	31	2" orifice	well	.9905	.9759	1	30
2.		tester					
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
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	

P _c 400 P _c ² 160			
NO.	P _t ²	P _w	P _w ²
1	20	140	20
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.143$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 34$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.143$$

8-22-80
54

Absolute Open Flow _____ 34 _____ Mcfd @ 15.025	Angle of Slope @ 45°	Slope, n _____ 1 _____
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Remarks: Unable to run four flows due to low delivery of well. Assumed N=1 and based calculations on one point test.

Approved By Commission:	Conducted By: E. L. Buttross, Jr.	Calculated By: E. L. Buttross, Jr.	Checked By:
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Mesa Petroleum Co.
 Bestwall #1
 Sec 29, T9S, R25E
 Chaves County, New Mexico
 8-14-80

