

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

Form C-122
Revised 9/1/66

AUG 20 1980

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-14-80		O. C. D.	
Company Mesa Petroleum Co.				Connection To be determined			ARTESIA, OFFICE	
Pool Wildcat				Formation Abo			Unit	
Completion Date 8-9-80		Total Depth 4900'		Plug Back TD 4855		Elevation		Farm or Lease Name Acme
Csg. Size 4 1/2"	Wt. 10.5#	d 	Set At 4900	Perforations: From 4634 To 4652		Well No. 1		
Tbg. Size 2 3/8"	Wt. 4.7#	d 	Set At 4632	Perforations: From Open ended		Unit Sec. Twp. Rge. 29 8S 26E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Chaves County		
Producing Thru Tubing		Reservoir Temp. °F 104 @ 4900		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico
L 4632	H 4632	Gg .615	% CO ₂ 2	% N ₂ 2	% H ₂ S	Prover 2"	Meter Run Orifice well tester	Taps

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	2" orifice						1000		1000		72 hrs SI
1.	Well	1 1/4	1 1/2	--	70		931	--	940	--	1 hr
2.	Tester	1 1/4	3	--	70		895	--	911	--	1/2 hr
3.		1 1/4	12	--	70		820	--	840	--	3/4 hr
4.		1 1/4	16	--	70		536	--	565	--	3/4 hr
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	311	2" orifice	well	.9905	.9877	1	304
2.	385	tester		.9905	.9877	1	377
3.	840			.9905	.9877	1	822
4.	1004			.9905	.9877	1	982
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 1000	P _c ² 1000				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.468$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.308$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1		940	884	116		
2		911	830	170		
3		840	706	294		
4		565	319	681		
5						

AOFF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,284$

John L. Buttruss
8-22-80

Absolute Open Flow <u>1,284</u> Mcfd @ 15.025	Angle of Slope θ <u>58.5</u>	Slope, n <u>7</u>
Remarks: _____		

Approved By Commission:	Conducted By: <i>E. L. Buttruss, Jr.</i>	Calculated By: <i>E. L. Buttruss, Jr.</i>	Checked By:
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