

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4-19-81		JUN 01 1981	
Company Mesa Petroleum Co.				Connection Unconnected		O. C. D.	
Pool Undesignated Abo				Formation Abo		Unit ARTESIA, OFFICE	
Completion Date 4-19-81		Total Depth 4304		Plug Back TD 4204		Elevation 3851	
Farm or Lease Name Coyote Federal		Well No. 5		Perforations: CO From 3612 To 3848		Unit Sec. Twp. Rge. H 19 7S 25E	
Csg. Size 4 1/2	Wt. 10.5	d 	Set At 4268	Perforations: From Open Ended To		County Chaves County	
Thg. Size 2 3/8	Wt. 4.7	d 	Set At 3753	Perforations: From Open Ended To		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 @ 4304		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 3753	H 3753	G _g .65	% CO ₂ 1	% N ₂ 3	% H ₂ S 	Meter Run 	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							945		950		89 hrs
1.	2" Orifice	1 1/4	1			70	920	80	930		1/2 hr
2.	Well	1 1/4	6			70	860	80	870		3/4 hr
3.	Tester	1 1/4	21			70	680	80	710		1/2 hr
4.		1 1/4	24			70	560	80	590		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	218	2" Orifice Well Tester		.9905	.9608		207
2.	561			.9905	.9608		534
3.	1300			.9905	.9608		1237
4.	1411			.9905	.9608		1343
5.							

NO.	P _t	Temp. °F	ACCEPTED FOR RECORD ROBERT L. CHAPMAN U.S. GEOLOGICAL SURVEY ROSWELL, NEW MEXICO	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
				A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
				Specific Gravity Separator Gas _____ X X X X X X X X	
				Specific Gravity Flowing Fluid _____ X X X X X	
				Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
			Critical Temperature _____ R _____ R		

P _c 950	P _c 903	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6270$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4336$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		930	865	38	
2		870	757	146	
3		710	504	399	
4		590	348	555	
5					

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,900$

Absolute Open Flow 1,900 Mcfd @ 15.025

Angle of Slope @ 53.5°

Slope, n .74

Remarks: _____

Approved By Commission:	Conducted By: James Craig	Calculated By: E. L. Buttross, Jr.	Checked By:
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