

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

Form C-122
Revised 9-1-65

RECEIVED

C/SF
C-122

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-27-82		APR 2 1982			
Company MESA PETROLEUM CO. /						Connection Unconnected				O. C. D.	
Pool <u>Pecos Slope</u> Undesignated ABO						Formation ABO				Unit ARTESIA, OFFICE	
Completion Date 2-27-82			Total Depth 4300'		Plug Back TD 4233'		Elevation 3861'		Farm or Lease Name Lodewick Federal Com		
Csg. Size 4 1/2"	Wt. 10.5#	d	Set At 4292'	Perforations: From 3647' To 3797'				Well No. 1			
Tub. Size 2 3/8"	Wt. 4.7#	d	Set At 3557'	Perforations: From open ended To				Unit Sec. Twp. Rge. I 8 5S 25E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single						Packer Set At none		County Chaves			
Producing Thru tubing		Reservoir Temp. °F 102 @ 4300'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico			
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover		Meter Run	Turns		
		.65	1	1				2" ORIFICE 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	
5!							900		835		72 hr. SI
1.	2" ORIFICE	1 1/4		11		36	780	63	755		1 hr.
2.	WELL	1 1/4		20		50	690	65	670		1 hr.
3.	TESTER	1 1/4		24		52	560	68	570		1 hr.
4.		1 1/4		25		51	405	70	460		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	797	2" ORIFICE WELL		1.0239	.9608		784
2	1160	TESTER		1.0098	.9608		1125
3	1390			1.0078	.9608		1346
4	1441			1.0088	.9608		1397
5							

NO.	P _t	Temp. °R	T _t	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 848	P _c ² 719	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8971$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3774$
NO.	P _t ²	P _w	P _w ²
1		768	590
2		683	466
3		583	340
4		473	224
5			

Absolute Open Flow 1900 Mcfd @ 15.025		Angle of Slope @ 63.5°	Slope, n .5
Remarks:			
Approved By Commission:	Conducted By: James Craig	Calculated By: E. L. Buttross, Jr.	Checked By: