

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 6-15-82		SEP 30 1982		
Company Mesa Petroleum Co. ✓				Connection UNCONNECTED				Unit O. C. D.	
Pool PECOS SLOPE ABO ✓				Formation ABO				ARTESIA, OFFICE	
Completion Date 6-15-82		Total Depth 4450'		Plug Back TD 4406'		Elevation 3555'		Farm or Lease Name CRAWFORD FED COM	
Csg. Size 4 1/2"	Wt. 10.5#	d	Set At 4443'	Perforations: From 3669' To 4016'		Well No. 4			
Tbg. Size 2 3/8"	Wt. 4.7#	d	Set At 3411'	Perforations: From OPEN ENDED To		Unit Sec. Twp. Rge. 1 31 7S 26E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE					Packer Set At 3411'		County CHAVES		
Producing Thru TUBING		Reservoir Temp. °F 105° @ 4443		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2		State NEW MEXICO	
L	H	Gg .65	% CO ₂ 1	% N ₂ 1	% H ₂ S	Prover 2" ORIFICE WELL TESTER		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
1.	2" ORIFICE	1"	3.5			82	90	85			72 HR SI
2.	WELL										1 HR
3.	TESTER										
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.	246	2" ORIFICE WELL		.9795	.9608		232
2.		TESTER					
3.							
4.							
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 868	P _c ² 753	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0148$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0148$
NO. 1	P _w 103	P _w ² 11	P _c ² - P _w ² 742
2.			
3.			
4.			
5.			

AOF = C $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 240$

Absolute Open Flow 240	Mcfd @ 15.025	Angle of Slope @ 45°	Slope, n 1
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Remarks: UNABLE TO RUN FOUR FLOW RATES DUE TO LOW DELIVER OF WELL. ASSUMED N = 1 AND BASED CALCULATIONS ON ONE POINT TEST.

Approved By Commission:	Conducted By: JAMES CRAIG	Calculated By: <u>EBB 6-29-82</u> E. L. BUTTROSS, JR.	Checked By:
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Posted ID-2
10-1-82
Camp & BK