

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

Form C-122
 Revised 9-1-65
File

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7/30/87		OCT 15 '87	
Company McClellan Oil Corp.				Connection		O. C. D.	
Pool Pecos Slope <i>ABO</i>				Formation Abo		Unit ARTESIA, OFFICE	
Completion Date 7/30/87		Total Depth 4450'		Plug Back TD 4410'		Elevation 3646' GL	
Casing Size 4 1/2"		Set At 4410'		Perforations: From 4164' To 4298'		Farm or Lease Name MM Federal	
Tubing Size 2-3/8"		Set At 4180'		Perforations: From To		Well No. 7	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Chaves	
Producing Thru tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		State NM	
L		H		Gg		Prover	
				.648		2"	
				% CO ₂ .07		% H ₂ S	
				7.21			
						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							934		934		
1.	2	X	.375		-		594		636	72	1/2 hour
2.	2	X	.375				554		522	72	1/2 hour
3.	2	X	.375				431		456	73	1 hour
4.	2	X	.375				191		292	74	18 hours
5.	2	X	.375				180		275	81	23 hours

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	2.378		609	.99	1.240	1.03	1831
2	2.378		569	.99	1.240	1.03	1710
3	2.378		446	.99	1.240	1.03	1341
4	2.378		206	.99	1.240	1.03	619
5	2.378		195	.99	1.240	1.03	586

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

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.045$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 598$
1	934	872	609	370	502	
2			569	323	549	
3			446	199	673	
4			206	42.4	829	
5			195	38.0	834	

Absolute Open Flow _____ 598 _____ Mcfd @ 15.025		Angle of Slope ϕ _____ 55 _____	Slope, n _____ 1 _____
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Remarks:			
Approved By: _____	Conducted By: _____	Calculated By: _____	Checked By: _____
Enron		Rodney Barnes	

BACK PRESSURE CURVE

Operator McClellan Oil Lease M&M Federal Well No. 7
 County Chaves Field Pecos Slope Abo Location 25-98-25 E
 Date of Test 7-30-87 Slope "n" .700 W.H. .700 Abs.
 Calc. W.H. Potential 599 MCF/D Calc. Abs. Potential 622 MCF/D

EUGENE DIETZGEN CO.
 MADE IN U.S.A.
 (P_c - P_i)² / (P_c - P_w) in Thousands
 NO. 341-L22 DIETZGEN GRAPH PAPER
 LOGARITHMIC
 2 CYCLES X 2 CYCLES

