

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

Form C-122
Revised 9-1-65

RECEIVED

271
C-122 file

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-10-79		JAN 19 1979	
Company Mc CLELLAN OIL CORP.				Connection AIR		O. C. C. ARTESIA, OFFICE		
Pool WILDCAT also UNDESIGNATED				Formation ABO		Unit F		
Completion Date 12-9-78		Total Depth 7618 4610		Plug Back TD 4552		Elevation		
Csg. Size 4 1/2		Wt. 9.5		Set At 4606		Perforations: From 4386 To 4456		
Tbg. Size 2 3/8		Wt. 4.7		Set At 4338		Perforations: From To		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 4338		Well No. # 1		
Producing Thru TBG.		Reservoir Temp. °F 117 @ 4338		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Farm or Lease Name STATE " A R "
L 4338		H 4338		G _g .645		% CO ₂ .156		% N ₂ 1.226
						% H ₂ S		Prover 2 "
						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							980				72 HRS.
1.	2	X	.250	62		32	930				1 HR.
2.	2	X	.250	70		24	862				1 HR.
3.	2	X	.250	150		28	800				1 HR.
4.	2	X	.250	200		25	660				1 HR.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	1.087		75.2	1.028	1.227	nil	103
2	1.087		83.2	1.037	1.227	nil	115
3	1.087		163.2	1.032	1.227	1.020	229
4	1.087		213.2	1.035	1.227	1.028	303
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	.11	492	1.30	nil	DRY			
2.	.12	484	1.28	nil				
3.	.24	488	1.29	.961				
4.	.32	485	1.28	.946				
5.								

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1		943.3	889.8	96.6	1.855	1.482
2		875.3	766.2	220.2		
3		813.7	662.1	324.3		
4		674.3	454.7	531.7		
5						

Absolute Open Flow <u>449</u> Mcfd @ 15.025		Angle of Slope Θ <u>57.5</u>		Slope, n <u>.637</u>	
Remarks:					
Approved By Commission:					
Conducted By: JOHN DAVIS		Calculated By: LARRY DAVIS		Checked By:	