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ARTESIA, OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 7/22/82	
Company: McCLELLAN OIL CORP		Connection: Air			
Pool: Pecos Slope Abo		Formation: Abo		Unit: I	
Completion Date: 7/16/82	Total Depth: 4175	Plug Back TD: 4042	Elevation: 3829...	Farm or Lease Name: MOC	
Csg. Size: 4 1/2 / Wt.: 10.5 / d: 4.05 / Set At: 4095		Perforations: From 3674 To 3865		Well No.: 2	
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 3612		Perforations: From Open To Ended		Unit: O / Sec.: 30 / Twp.: 5S / Rge.: 25E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None		County: Chaves	
Producing Thru: Tubing	Reservoir Temp. °F: 99 @ 3670	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	
L	H	Gg: .895	% CO_2	% N_2	% H_2S
				Prover: 2	Meter Run:	Taps:

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							1001	89	1020		
1.	2	X	1		10		979		995		1 hr
2.	2	X	1		61		853		870		"
3.	2	X	1		96		644		670		"
4.	2	X	1.5		30		102		360		"
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	316			.972	.853	1.161	304
2	950			.972	.853	1.135	894
3	1314			.927	.853	1.096	1194
4	1608			.972	.853	1.013	1350
5							

NO.	P_t	Temp. °R	T_r	Z
1				
2				
3				
4				
5				

P_c 1102 P_c^2 1214

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure 670 P.S.I.A. _____ P.S.I.A.
Critical Temperature 373 R _____ R

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1059	1121	93
2		916	839	375
3		713	508	706
4		372	138	1076
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.72$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.423$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1700$

Absolute Open Flow 1700 Mcfd @ 15.025 Angle of Slope θ 33 Slope, n .65

Remarks: Bottom hole pressures recorded with Amerada Type gauge

Approved By Commission:	Conducted By: KELTIC SERVICES	Calculated By: Kelly	Checked By:

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McCLELLAN OIL CORP

MOC #2