STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

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O. C. D.
ARTESIA, OFFICE

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 2/25/83	
Company: McCLELLAN OIL CORP			Connection: Air		
Pool: ~~Undesignated~~			Formation: Abo		Unit:
Completion Date: 2/16/83	Total Depth: 4700		Plug Back TD: 4575	Elevation: 3796Gr	Farm or Lease Name: Tyrel Fed Com
Csg. Size: 4 1/2	Wt.: 10.5	d:	Set At: 4605	Perforations: From 4231 To 4411	Well No.: 1
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 4200	Perforations: From Open To Ended	Unit: C Sec.: 13 Twp.: 10S 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: 98 @ 4400		Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico
L	H	Gg: .65	% 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							935		980		
1.	2	X	1/8	904		46	921		910		1 hr
2.	2	X	1/4	307		55	732		720		"
3.	2	X	7/32	492		56	518		500		"
4.	2	X	3/16	237		51	239		210		"
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	.2648		917.2	1.0137	1.259	1.103	342
2	1.087		320.2	1.0048	1.259	1.031	454
3	.8393		505.2	1.0039	1.259	1.049	562
4	1.672		249.2	1.0068	1.259	1.075	598
5							

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

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 _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1164.2 P_c^2 1355

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1073.2	1151	204
2		863.2	745	610
3		596.2	355	1000
4		381.2	145	1210
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1198$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0492$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 627$

Absolute Open Flow 627 Mcfd @ 15.025 Angle of Slope θ 67 Slope, n .4245

Remarks: Bottom hole pressures recorded with Amerada type gauge.

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