STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: 4POINT [XX] Initial [ ] Annual [ ] Special			Test Date: 4-27-87	
Company: MC CLELLAN OIL COMPANY	Connection: TO AIR			Unit
Pool: LITTLE LUCKY LAKE	Formation: MORROW			
Completion Date: 4-20-87	Total Depth: 10,220	Plug Back TD: 10,160	Elevation: 3919	Farm or Lease Name: LITTLE LUCKY LAKE
Csg. Size: 5.500 / Wt.: 17.00 / d: 4.892 / Set At: 10,220		Perforations: From 9942 To 9966		Well No.: COMM FED 1
Tbg. Size: 2.375 / Wt.: 4.70 / d: 1.995 / Set At: 9867		Perforations: From OPEN To ENDED		Unit: 30 / Sec.: 15S / Twp.: 30E / Rge.
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 9867		County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F: 165 @ 9867	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9954	9954	0.798	0.51	2.03	Ø	Ø	4.026	FLG

	FLOW DATA					TUBING DATA		BHP DATA		
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	Duration of Flow
SI						2003	65			48HRS
1.	4.026	1.000	395	6.5	90	1678	65			60MIN
2.	4.026	1.000	405	14.5	88	1617	65			60MIN
3.	4.026	1.000	410	31.0	84	1565	65			60MIN
4.	4.026	1.000	410	64.0	83	1418	65			60MIN
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	4.753	51.51	408.2	0.9723	1.1194	1.0511	280
2.	4.753	77.87	418.2	0.9741	1.1194	1.0531	425
3	4.753	114.54	423.2	0.9777	1.1194	1.0550	629
4.	4.753	164.57	423.2	0.9786	1.1194	1.0553	904
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.62	550	1.33	0.905
2.	0.63	548	1.32	0.902
3.	0.64	544	1.31	0.898
4.	0.64	543	1.31	0.898
5				

Gas Liquid Hydrocarbon Ratio: 7.573 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 58.7 Deg.
Specific Gravity Separator Gas: 0.798 / xxxxxxxxx
Specific Gravity Flowing Fluid: xxxxx / 1.088
Critical Pressure: 661 P.S.I.A. / 647 P.S.I.A.
Critical Temperature: 414 R / 505 R

P_c 2008.3 P_c^2 4033

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1682	2829	1204
2		1621	2629	1404
3		1571	2467	1566
4		1426	2032	2001
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0159$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.0159$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1823$

Absolute Open Flow: 1823 Mcfd @ 15.025 | Angle of Slope θ: 45° | Slope, n: 1.000

Remarks: PRODUCED 12.3 BBLS CONDENSATE API 58.7 @ 60°F

Approved By Division	Conducted By:	Calculated By:	Checked By:
	RICHARD TOWNLEY	RICHARD TOWNLEY	