STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

IL CONSERVATION DIVISIO

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

RECEIVED BY
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O. C. D.
ARTESIA, OFFICE

Form C-122
Revised 10-1-78

9SF F.le

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Type Test: ☐ Initial ☐ Annual ☐ Special				Test Date: 6-6-84	
Company: McCLELLAN OIL CORPORATION ✓			Connection:		
Pool: ~~Pen Jack~~			Formation: ABO		Unit: Fed
Completion Date: 6-~~5~~-84	Total Depth: ~~4549~~ 4545		Plug Back TD: ~~4511~~ 4505	Elevation: 3703	Farm or Lease Name: Lisa
Csg. Size: 4½ / Wt.: 10.5 / d: 9.5 / Set At: 4549			Perforations: From 4316 To 4443		Well No.: 1
Tbg. Size: 2-3/8 / Wt.: 4.7 / d: 1.995 / Set At: 3950			Perforations: From To		Unit: — 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 @ 4100	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

FLOW DATA					TUBING DATA		CASING 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						983		1000		
1.	2	.75	7		52	840		860		1 hr.
2.	2	.75	13		68	316		480		"
3.	2	.75	14		75	96		365		"
4.	2	.875	8		76	72		330		"
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	9.453		20.2	1.0078	1.2403	1.0019	239
2.	9.453		26.2	.9924	1.2403	1.0024	305
3.	9.453		27.2	.9859	1.2403	1.0024	315
4.	13.000		21.2	.9860	1.2403	1.0095	340
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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1122.2 P_c^2 1259

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		960.2	922	337
2		524.2	275	985
3		403.2	163	1096
4		362.2	131	1129
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1161$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0954$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 372$

Absolute Open Flow 372 Mcfd @ 15.025 Angle of Slope θ 50.5 Slope, n .8249

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	KELTIC	KELLY	