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: [X] Initial [ ] Annual [ ] Special
Test Date: 12-22-80

Company: John L. Cox		Connection: None Designated					
Pool: Wildcat		Formation: Morrow				Unit	
Completion Date: 12-20-80	Total Depth: 11,820'	Plug Back TD: 11,400'	Elevation: 4472.6'GR			Farm or Lease Name: Proctor	
Csg. Size: 5-1/2"	Wt.: 17#	d: 4.9	Set At: 11,108'	Perforations: From 10,907' To 10,919'		Well No.: 1	
Tbg. Size: 2-7/8"	Wt.: 6.5#	d: 1.4	Set At: 10,029'	Perforations: From To		Unit: D Sec.: 7 Twp.: 11-S Rge.: 32-E	
Type Well – Single – Bradenhead – G.C. or G.O. Multiple: Single			Packer Set At: 10,029'			County: Lea	
Producing Thru: tubing	Reservoir Temp. °F: 176 @ 10,913	Mean Annual Temp. °F: 68°	Baro. Press. – P_a: 132			State: New Mexico	
L	H	Gg: .735	% CO_2	% N_2	% H_2S	Prover: 1-1/4"	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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI	2"	x	1-1/4	2795			4368	66			60 min.
1.	"			2580		56	4125	66			60 min.
2.	"			2510		63	3994	66			60 min.
3.	"			2420		67	3778	66			60 min.
4.	"			2260		52	3489	66			60 min.
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				1.000	.9066	1.030	278
2.				.9971	"	1.029	411
3				.9933	"	1.029	599
4.				1.0078	"	1.034	937
5.							

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

Gas Liquid Hydrocarbon Ratio 18,600:1 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 57° Deg.
Specific Gravity Separator Gas .735 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure ____ P.S.I.A. ____ P.S.I.A.
Critical Temperature ____ R ____ R

P_c 4381.2 P_c^2 19195

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		4138.2	17124	2071
2		4007.2	16057	3138
3		3791.2	14373	4822
4		3502.2	12265	6930
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.77$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.77$

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2531$

Absolute Open Flow 2595 Mcfd @ 15.025 Angle of Slope θ 45° Slope, n 1

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
[signature]	[signature]	[signature]	[signature]