NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 3-31-79	
Company: INEXCO Oil Company		Connection: TO AIR			
Pool: West Tonto Penn		Formation: Morrow			Unit: E
Completion Date: 4/2/79	Total Depth: 13,800'		Plug Back TD: 13,636	Elevation: 3659.4	Farm or Lease Name: FEDERAL COM. 7
Csg. Size: 5 1/2" / Wt.: 17 / d: / Set At: 13,800'			Perforations: From 13527 To 13536		Well No.: 2
Tbg. Size: 2 7/8" / Wt.: / d: / Set At: 13,105'			Perforations: From OPEN To ENDED		Unit: E / Sec.: 7 / Twp.: 19S / Rge.: 33E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 13,105'		County: Lea
Producing Thru: TUBING	Reservoir Temp. °F: 206° @ 13,218'	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2		State: N.M.

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
* 13.218'	* 13.218'	.700					4"	FLANGE

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size	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						4142				24 HOUR
1.	4	1.500	260	5	72	3812	78			1 HOUR
2.	4	1.500	270	21	82	3674	75			1 HOUR
3.	4	1.500	320	42	81	3485	71			1 HOUR
4.	4	1.500	385	74	66	3046	67			1 HOUR
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	10.84	36.96	273.2	.9887	1.195	1.030	488
2.	10.84	77.12	283.2	.9795	1.195	1.029	1007
3.	10.84	118.30	333.2	.9804	1.195	1.035	1555
4.	10.84	171.66	398.2	.9943	1.195	1.048	2317
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.41	532	1.36	.942
2.	.42	542	1.38	.944
3.	.50	541	1.38	.933
4.	.60	526	1.34	.910
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .700 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 668 P.S.I.A. _____ P.S.I.A.
Critical Temperature 392 R _____ R

P_c 4155.2 P_c^2 17265.7

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3826.8	14644.4	2621.3
2		3690.6	13620.5	3645.2
3		3514.9	12354.5	4911.2
4		3096.7	9589.6	7676.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.249$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.249$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5.212$

Absolute Open Flow 5,212 Mcfd @ 15.025 | Angle of Slope θ 45 | Slope, n 1.00

Remarks: * EQUIVELANT LENGTH. EST. FLUID 1.5 BBLS MADE DURING TEST

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	M.C.T.	R.R.	J.W.W.