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: 12/14/72	
Company: Pubco Petroleum Corporation			Connection: El Paso Natural Gas		
Pool: Otero Chacra			Formation: Otero Chacra Est.		Unit: M
Completion Date: 11/27/72	Total Depth: 4040'		Plug Back TD: 4004	Elevation: 6682' GL	Farm or Lease Name: Scott Federal
Csg. Size: 3-1/2" / Wt.: 9.2# / d: 2.992 / Set At: 4039.5			Perforations: From 3788 To 3887		Well No.: 5
Tbg. Size: 1-1/4" / Wt.: 2.30 / d: 1.380 / Set At: 3778.96			Perforations: From To		Unit: M / Sec.: 21 / Twp.: 26N / Rge.: 6W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: None		County: Rio Arriba
Producing Thru: Tubing	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.00		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		0.60						

	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					852		852		7 days
1.	1.995 x 0.75				45	46	340		1 hr.
2.	1.995 x 0.75				38	47	328		2 hrs.
3.	1.995 x 0.75				37	47	320		3 hrs.
4.									
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							
2.							
3.	9.604		49	1.013	1.291	1.013	623
4.			470.60	476.71	615.44	623.44	
5.							

NO.	P_r	Temp. °R	T_r	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

RECEIVED
DEC 22 1972
OIL CON. COM.
DIST. 3

P_c 864 P_c^2 746,496

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		332	110,224	636,272
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1732$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1455$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 714$

Absolute Open Flow 714 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 0.85

Remarks: _____

RECEIVED
DEC 21 1972
U. S. GEOLOGICAL SURVEY

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	R. J. Flaker	J. C. Johnson	