NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT A... ONE POINT BACK PRESSURE TEST ...R GAS WELL

Form C-122
Revised 9-1-65

PUBCO PETRO... CORP.
MERGED INTO ...

EFFECTIVE MAY 1, 1973

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 3/16/73
Company: Pubco Petroleum Corporation	Connection: None		
Pool: Undesignated	Formation: Morrow (Pennsylvanian)		Unit: --
Completion Date: 3/16/73	Total Depth: 13,200	Plug Back TD: 11,990	Elevation: 3987 KB
Farm or Lease Name: Skelly-State			
Csg. Size: 5-1/2 / Wt.: 17# / d: 4.892 / Set At: 12,150	Perforations: From 11,864 To 11,884		Well No.: 1
Tbg. Size: 2-7/8 / Wt.: 6.5# / d: 2.441 / Set At: 11,787	Perforations: From None To		Unit: I / Sec.: 14 / Twp.: 16S / Rge.: 35E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Multiple: Morrow Gas, Wolfcamp Oil	Packer Set At: 11,787		County: Lea
Producing Thru: 2-7/8" EUE	Reservoir Temp. °F: 160 @ 11,874	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
11,787	11,787	0.723	0	2.47	0	-	3"	flange

	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						2895.0				64.50 hr.
1.		0.75	700	20	70	2605.0	60	pkr.		1 hr.
2.		0.75	700	33	70	2605.0	60			1 hr.
3.		0.75	700	44	70	2595.0	60			1 hr.
4.		0.75	700	74	70	2445.0	60			1 hr.
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	2.695	119.4	713.2	0.9905	1.176	1.083	405.9
2.	2.695	153.4	713.2	0.9905	1.176	1.083	439.2
3	2.695	177.1	713.2	0.9905	1.176	1.083	507.0
4.	2.695	229.7	713.2	0.9905	1.176	1.083	657.6
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	1.074	530	1.354	0.8535
2.	1.074	530	1.354	0.8535
3.	1.074	530	1.354	0.8535
4.	1.074	530	1.354	0.8535
5.				

Gas Liquid Hydrocarbon Ratio 10.96 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 52.3 Deg.
Specific Gravity Separator Gas 0.723 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.9794
Critical Pressure 664 P.S.I.A. 655 P.S.I.A.
Critical Temperature 391.5 R 476.5 R

P_c 4883.2 P_c^2 23845.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		4416.2	19502.8	
2		4346.2	18889.5	
3		4206.2	17692.1	
4		4027.2	16218.3	
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.126$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.024$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1989$

Absolute Open Flow 1989 Mcfd @ 15.025 Angle of Slope θ 45.84° Slope, n 0.9710

Remarks: All calculations based on measured bottom hole pressures at 11,874, mid-point of Morrow perforations.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	J. Archer		

Charles Sanders
Area Production Mgr.