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THE PETROLEUM CORP.
OF DELAWARE

NEW MEXICO OIL CONSERVATION COMMSSION

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 7-17-85	
Company: The Petroleum corp. of Delaware		Connection: To Air			
Pool		Formation		Unit	
Completion Date	Total Depth: 9300'	Plug Back TD: 9282'	Elevation	Farm or Lease Name: Tenneco Fed.	
Csg. Size: 4½" / Wt. / d / Set At		Perforations: From 9126 To 9246		Well No.: 3	
Tbg. Size: 2 3/8" / Wt. / d / Set At		Perforations: From To		Unit: J / Sec.: 12 / Twp.: 26S / Rge.: 37E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 8999'		County: Lea	
Producing Thru: Tubing	Reservoir Temp. °F: 147° @ 9186'	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
9186	9186	9186	.6858	0.803	0.927	2.000		

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
									PKR.	CHOKE	72 Hrs.
SI										4/64	1 Hr.
1.	2.000	x	.750		16#	84°	2110	88°		5/64	1 Hr.
2.	2.000	x	.750		32	90	1940	89		7/64	1 Hr.
3.	2.000	x	.750		47	94	1770	90		9/64	1 Hr.
4.	2.000	x	.750		64	98	1500	91			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	9.453	29.2		.9741	1.207	NIL	324
2	9.453	45.2		.9732	1.207	NIL	502
3	9.453	60.2		.9723	1.207	NIL	668
4	9.453	77.2		.9715	1.207	NIL	856
5							

NO.	P_t	Temp. °R	T_f	Z
1	.04	548	1.43	NIL
2.	.07	549	1.43	NIL
3.	.09	550	1.43	NIL
4.	.11	551	1.43	NIL
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons dry Deg.
Specific Gravity Separator Gas .6858 XXXXXXXXX
Specific Gravity Flowing Fluid dry XXXXX
Critical Pressure 672 P.S.I.A. _____ P.S.I.A.
Critical Temperature 384 R _____ R

P_c 3050 P_c^2 9302.5

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2756	7595.5	1707
2		2586	6687.4	2615.1
3		2362	5579	3723.5
4		2025	4100.6	5201.9
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.498$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.498$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1668.8$

Absolute Open Flow 1669 Mcfd @ 15.025 Angle of Slope θ 45° Slope, n 1.000

Remarks: Calculated from known bottom hole pressures using a Kuster gauge.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	J.D.	John Davis	J.D.