NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 9-1-65

MULTIPOI ND ONE POINT BACK PRESSURE FOR GAS WELL

RECEIVED
APR 26 1983
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial FOUR POINT [ ] Annual [ ] Special	Test Date: 4-7-82	660 FSL	
Company: RAULT PETROLEUM CORP.	Connection: AIR NEW WELL	990 FEL	
Pool: UNDESIGNATED Abo	Formation: ABO	Unit: P	
Completion Date: 3-9-83	Total Depth: ~~4196~~ 4187	Plug Back TD: 4130	Elevation: 4094 KB
Farm or Lease Name: TOMMY FEDERAL			
Csg. Size: 4.5 / Wt.: 10.5 / d: 4.052 / Set At: 4188	Perforations: From 2870 To ~~3632~~ 3638	Well No.: 1	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 2800	Perforations: From OPEN To ENDED	Unit: P / Sec.: 24 / Twp.: 9S / Rge.: 22E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE	Packer Set At: NONE	County: CHAVES	
Producing Thru: TUBING	Reservoir Temp. °F: 82 @ 3226	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2
State: NEW MEXICO			
L: 3226 / H: 3226	Gg: .6715	% CO_2: 6.512	% N_2: 9.531
% H_2S:	Prover: 2.00	Meter Run:	Taps:

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							1062	51			72 HRS.
1.	2.00	X	.09375	920	.00	50	1015	50	1015		1
2.	2.00	X	.1875	690	.00	43	925	43	920		1
3.	2.00	X	.21875	660	.00	44	855	44	837		1
4	2.00	X	.3125	330	.00	38	720	38	765		1
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	.1410	.00	933.2	1.010	1.221	1.080	175
2	.6062	.00	703.2	1.017	1.221	1.062	562
3	.8393	.00	673.2	1.016	1.221	1.058	742
4	1.672	.00	343.2	1.022	1.221	1.031	738
5							

NO.	P_t	Temp. °R	T_r	Z
1	1.38	510	1.47	.858
2	1.04	503	1.45	.886
3	.99	504	1.46	.893
4	.51	498	1.44	.940
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 678 P.S.I.A. _____ P.S.I.A.
Critical Temperature 346 R _____ R

P_c 1073.2 P_c^2 1151.7

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1028.2	1057.2	94.5
2		933.2	879.9	280.8
3		859.2	722.8	428.9
4		778.2	605.6	546.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.6852$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.5533$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,894.5$

Post FD-2
2-4-83
Comp + BK

Absolute Open Flow 1,894.5 Mcfd @ 15.025 Angle of Slope θ 47.5 Slope, n .916

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	DON BENNETT	BENNETT-CATHEY	