

W MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-17-82		JUL 14 1982	
Company Yates Petroleum Corporation			Connection Transwestern Pipeline Company		O. C. D. ARTESIA, OFFICE
Pool Pecos Slope Abo			Formation Abo		Unit LG-6462
Completion Date 3-4-82		Total Depth 4225'		Plug Back TD 4213'	Elevation 3779.1' GR
Csg. Size 4-1/2"		Int. 9.5#	Id 4.090"	Set At 4225	Perforations: From 3672 To 3830
Tub. Size 2-3/8"		Int. 4.7#	Id 1.995"	Set At 3652	Perforations: From - To -
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Pecker Set At -	County Chaves
Producing Thru Tubing		Reservoir Temp. °F 90 @ 3652	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2	State New Mexico
L 3652	H 3652	G _g .648	% CO ₂ .31	% N ₂ 6.22	% H ₂ S 0
Prover ---		Meter Run 2"	Taps Flanged		

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
SI							993				days
1.	2.067 x 1.125			270	75	75	515	63			24 hrs
2.	2.067 x 1.125			255	44	75	666	61			24 hrs
3.	2.067 x 1.125			230	26	75	766	64			24 hrs
4.	2.067 x 1.125			230	23	75	828	60			24 hrs
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf
1	6.393	146.6	283.2	.9859	1.242	1.028	1180
2	6.393	109.5	268.2	.9859	1.242	1.027	880
3	6.393	79.9	243.2	.9859	1.242	1.023	640
4	6.393	74.9	243.2	.9859	1.242	1.023	600
5							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/LSL
1.	.423	535	1.40	.947	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.400	535	1.40	.949	Specific Gravity Separator Gas .648 X X X X X X X X
3.	.363	535	1.40	.955	Specific Gravity Flowing Fluid X X X X X
4.	.363	535	1.40	.955	Critical Pressure 670 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 372 R _____ R

P _c 1006.2 P _c ² 1012.4		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4155$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4155$	
NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²	
1	279.0		297.2	715.2	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1670$
2	462.3		472.4	540	
3	607.2		617.4	400	
4	707.8		712.4	300	
5					

Absolute Open Flow 1670 _____ Mcf @ 15.025		Angle of Slope θ _____	Slope, n 1
Remarks: Static pressure by Bennett Wireline, flowing pressure by DWT calculations, worksheet C122D attached.			
Approved By Commission:	Conducted By: David Weaver	Calculated By: Scott Yates	Checked By:

1

125

% H₂S

55

TABLE IX

[illegible]

