

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

SR
FV
1-122-226
Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 7-14-80		SEP 12 1980	
Company Yates Petroleum Corp.					Connection Transwestern Pipeline Co.		O. C. D. ARTESIA, OFFICE	
Pool <i>Pecos Slope - Abo Gas</i> <i>Wildcat Abo</i>					Formation Abo		Unit LG 567	
Completion Date 11-29-79		Total Depth 5096' KB		Plug Back TD 5049' KB		Elevation 3878' KB		Farm or Lease Name Grynberg "LZ" State
Csg. Size 5-1/2"	Wt. 14#	d 5.012	Set At 5096'	Perforations: From 3910 To 3946'		Well No. 1		
Thy. Size 2-7/8"	Wt. 6.5#	d 2.441	Set At 3873'	Perforations: From To		Unit Soc. Twp. Rge. I 36 5S 24E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 3873'		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 97 @ 3928'		Mean Annual Temp. °F 62		Boro. Press. - P _d 13.2		State New Mexico
L 3923	H 3923	Gg 0.677	% CO ₂ 3.46	% N ₂ 5.12	% H ₂ S Nil	Prover	Meter Run 2"	Taps Flange

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							1011	88			Months
1.	2.067 x 0.750			650	13	95	990	78			1 hour
2.				652	24	95	975	80			1 hour
3.				654	46	95	947	81			1 hour
4.				655	91	95	898	82			1 hour
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	1.866	92.85	663.2	0.9680	1.215	1.0499	214
2	1.866	126.35	665.2	0.9680	1.215	1.0500	291
3	1.866	175.19	667.2	0.9680	1.215	1.0501	404
4	1.866	246.59	668.2	0.9680	1.215	1.0503	568
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.983	555	1.5205	.9072	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.985	555	1.5205	.9070	Specific Gravity Separator Gas _____ 0.677
3.	.988	555	1.5205	.9067	Specific Gravity Flowing Fluid _____ 0.677
4.	.990	555	1.5205	.9065	Critical Pressure _____ 675 P.S.I.A.
5.					Critical Temperature _____ 365 R

P _c 1149.2 P _c ² 1321					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.6154$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.5950$	
NO.	P _r ²	P _w ²	P _w ²	P _c ² - P _w ²	$AOG = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1474$			
1			1260	61				
2			1221	100				
3			1152	169				
4			1035	286				
5								

Absolute Open Flow 1474 Mcfd @ 15.025			Angle of Slope θ 58. deg		Slope, n .6235	
---------------------------------------	--	--	---------------------------------	--	----------------	--

Remarks: Static pressures by Bennett Wireline; Flowing pressures by DWT.
Calculations worksheet C-122D attached.

Approved By Consultant:	Conducted By: Bob Gary	Calculated By: Eddie Mahfood	Checked By:
-------------------------	---------------------------	---------------------------------	-------------