

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

RECEIVED

Form C-122
Revised 9-1-65

APR 10 1970

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2-14-70		B.E.C. ARTESIA, OFFICE	
Company Yates Petroleum Corp.				Connection Natural Gas Pipeline Co.				
Pool Dagger Draw Wolfcamp Gas				Formation Upper Wolfcamp				Unit
Completion Date 2-27-60		Total Depth 8240		Plug Back TD 5940		Elevation 3624		Farm or Lease Name Loyd Foster "AN"
Csq. Size 7" OD	Wt. 23#	d	Set At 7873	Perforations: From 5750 To 5770		Well No. 1		
Tbg. Size 2-7/8	Wt. 6.5#	d	Set At 5740	Perforations: From To		Unit Sec. Twp. Rge. D 1 20 24		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 5740		County Eddy	
Producing Thru Tbg		Reservoir Temp. °F @ 114		Mean Annual Temp. °F		Baro. Press. - P _g 13.2		State New Mexico
L 5740	H 5760	Gg 0.650	% CO ₂ 0.31	% N ₂ 1.41	% H ₂ S 0.29	Prover X	Meter Run	Taps

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							1894	63			SI-10 mo.
1.	2	0.3125		900		65	1225	65			2 hr.
2.	2	0.3750		720		61	1160	65			1 hr.
3.	2	0.3750		797		65	1022	68			1 hr.
4.	2	0.3750		867		66	867	68			2 hr.
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, Mcfd
1	1.672		913	0.9952	1.240	1.089	2051
2	2.378		733	0.9990	1.240	1.073	2318
3	2.378		810	0.9952	1.240	1.078	2562
4	2.378		880	0.9943	1.240	1.084	2796
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	1.357	525	1.427	841	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	1.090	521	1.415	871	Specific Gravity Separator Gas .65 XXXXXXXXXX
3.	1.203	525	1.427	857	Specific Gravity Flowing Fluid XXXXXX
4.	1.307	526	1.430	846	Critical Pressure 672.4 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 367.7 R _____ R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	1533		1559	2078
2	1376		1409	2228
3	1071		1113	2524
4	774		825	2812
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____

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

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.63$ MMCFPD

Absolute Open Flow	3630	Mcfd @ 15.025	Angle of Slope θ	45	Slope, n	1.000
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Remarks:

Approved By Commission:	Conducted By: Marshall Morris	Calculated By: Eddie Mahfood	Checked By:
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