

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

Form C-122 SF
 Revised 9-1-65
RECEIVED

MAY 15 1980

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-12-80			
Company Yates Petroleum Corp. ✓				Connection Transwestern Pipeline Co.		ARTESIA OFFICE	
Pool Penjack Undesignated Abo				Formation Abo		Unit L-3086	
Completion Date 11-10-79		Total Depth 4775KB		Plug Back TD 4261KB		Elevation 3672KB	
Farm or Lease Name Erickson KY State				Well No. 1			
Csg. Size 4-1/2"	Wt. 10.5#	d 4.052	Set At 4461KB	Perforations: From 4238 To 4258		Unit Sec. Twp. Rge. H 2 10S 25E	
Tbg. Size 2-7/8"	Wt. 6.5#	d 2.441	Set At 4229KB	Perforations: From To		County Chaves	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 4229KB		State New Mexico	
Producing Thru Tubing		Reservoir Temp. °F 101#4243		Mean Annual Temp. °F 62		Baro. Press. - P _a 13.2	
L 4243	H 4243	G _g 0.659	% CO ₂ 2.09	% N ₂ 4.28	% H ₂ S N.7	Prover 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							1009	51			Days
1.	2.067	x	0.500	400	9	60	950	56			1 hr
2.	2.067	x	0.500	400	17	60	894	59			1 hr
3.	2.067	x	0.500	400	32	60	802	61			1 hr
4.	2.067	x	0.500	400	60	60	560	63			1 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	1.189	60.98	413.2	1.000	1.232	1.0386	93
2	1.189	83.81	413.2	1.000	1.323	1.0386	128
3	1.189	114.99	413.2	1.000	1.232	1.0386	175
4	1.189	157.45	413.2	1.000	1.232	1.0386	240
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	0.616	520	1.4345	.927	-	-	.0659	X X X X X X X X	670.5	362.5
2.	0.616	520	1.4345	.927				X X X X X		
3.	0.616	520	1.4345	.927						
4.	0.616	520	1.4345	.927						
5.										

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1			1172	146	1.4484	1.2135
2			1037	281		
3			834	484		
4			408	910		
5						

Absolute Open Flow <u>291</u> Mcfd @ 15.025				Angle of Slope θ <u>59.35 deg.</u>		Slope, n <u>0.5225</u>	
Remarks: Static Pressures by Bennett wireline flowing pressures by DWT.							
Calculations worksheet C122D attached							
Approved By Commission:		Conducted By: Don Weaver		Calculated By: Eddie Mahfood		Checked By:	