

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

Form C-122
Revised 9-1-65

DEC 9 1980

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-9-80		C. C. D.	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company		ARTEZIA, OFFICE	
Pool Wildcat Abo				Formation Abo		Unit LG 4340	
Completion Date 6-17-80		Total Depth 4050 KB		Plug Back TD 3391 KB		Elevation 3930 KB	
Farm or Lease Name Selman Draw NS State							
Cas. Size 5 1/2	Wt. 14#	d 5.012	Set At 4050	Perforations: From 3335 To 3346 KB		Well No. 1	
Tbg. Size 2 7/8	Wt. 6.5#	d 2.441	Set At 3300	Perforations: From To		Unit Sec. Twp. Rge. 5 9 7S 24E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 3300 KB		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 93 @ 3340		Mean Annual Temp. °F 62		Baro. Press. - P _g 13.2	
State New Mexico							
L 3339	H 3339	C _g 0.638	% CO ₂ 0.17	% N ₂ 8.71	% H ₂ S N.7	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							883	72			Weeks
1.	2.067	X	0.500	530	8	75	792	75			1.5 hrs
2.	2.067	X	0.500	530	15	75	745	77			1 hr.
3.	2.067	X	0.500	530	27	75	673	78			1 hr.
4.	2.067	X	0.500	530	49	75	550	79			1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super. Comp. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	1.189	65.92	543.2	.9859	1.252	1.0395	101
2	1.189	90.27	543.2	.9859	1.252	1.0395	138
3	1.189	121.10	543.2	.9859	1.252	1.0395	185
4	1.189	163.15	543.2	.9859	1.252	1.0395	249
5							

NO.	R _g	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	0.830	535	1.542'	.9255			0.638	XXXXXX	654.5	347
2	0.830	535	1.542	.9255				XXXXX		
3	0.830	535	1.542	.9255						
4	0.830	535	1.542	.9255						
5										

NO.	P ₁ ²	P _w ²	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{R_c^2 - R_w^2} =$	(2) $\left[\frac{R_c^2}{R_c^2 - R_w^2} \right]^n =$
1			767	186	1.6431	1.5131
2			679	274		
3			555	398		
4			373	580		
5						

Absolute Open Flow 377 Mcfd @ 15.025				Angle of Slope 50.2 deg.		Slope, n 0.8340	
Remarks: Static pressures by Bennett Wireline. Flowing pressures by DWT. calculations worksheet C122D attached.							
Approved By Commission:		Conducted By: Bob Gary		Calculated By: Eddie Mahfood		Checked By:	