

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 7/2/82		SEP 7 1982 O. C. D. ARTESIA, OFFICE	
Company Yates Petroleum Corp ✓				Connection Transwestern Pipeline					
Pool Pecos Slope - Abo Gas				Formation Abo					
Completion Date 3/18/82		Total Depth 4037		Plug Back TO 4005		Elevation 3758 GR		Farm or Lease Name George QJ	
Flow Size 4 1/2"	Wt. 9.5#	d 4.090	Set At 4037	Perforations: From 3636 To 3895				Well No. 2-Y	
Flow Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 3820	Perforations: From To				Unit Sec. Twp. Rge. P 27 6S 25#	
Type Well - Single - Blindhead - G.G. or G.O. Multiple Single						Packer Set At None		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 104° 3820		Mean Annual Temp. °F 62°		Baro. Press. - P _g 13.2 PSI		State New Mexico	
L 3820	H 3820	Cg .650	% CO ₂ 0.98	% N ₂ 5.37	% H ₂ S 0	Prover --	Motor Run 4"	Taps Flanged	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1	4.026 x 1.250			190	14.0	73°	897	62°			24 hr
2	4.026 x 1.250			190	20.1	73°	880	62°			24 hr
3	4.026 x 1.250			190	23.6	75°	861	62°			24 hr
4	4.026 x 1.250			190	42.0	75°	840	62°			24 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, Mcf/d
1	6.031	53.2	203.2	0.9877	1.240	1.017	400
2	6.031	63.9	203.2	0.9877	1.240	1.017	480
3	6.031	69.2	203.2	0.9859	1.240	1.017	519
4	6.031	92.4	203.2	0.9859	1.240	1.017	693
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Dry _____ Mcf/bbl.		A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
1	.31	533	1.48	.966	Specific Gravity Separator Gas .650		XXXXXX .650	
2	.31	533	1.48	.966	Specific Gravity Flowing Fluid XXXXX			
3	.31	535	1.49	.967	Critical Pressure 665 P.S.I.A.		665 P.S.I.A.	
4	.31	535	1.49	.967	Critical Temperature 360 °R		360 °R	
5								

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²
1	828.5		830.2	126.7
2	797.8		801.8	155.1
3	764.2		767.1	189.8
4	728.0		734.4	222.5
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 4.301$

AOI = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2739$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3.952$

Absolute Open Flow	2739	Mcf/d @ 15.025	Angle of Slope @	Slope, n .942
Remarks:				

Approved By Commission	Conducted By David Weaver	Calculated By Andie Alderson	Checked By
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