

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

RECEIVED

123456
Revised 9-1-65
Epi

Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date: APR 6 1977				
Company: Yates Petroleum Corp.					Connection: Transwestern Pipeline Co. ARTERIA, OFFICE				
Pool: Eagle Creek Permian (Undesignated or) Wildcat					Formation: Wolfcamp				
Completion Date: 6-13-75		Total Depth: 8740' KB		Plug Back TD: 8561' KB		Elevation: 3507' KB		Farm or Lease Name: Powell "DG" Com	
Csg. Size: 4 1/2"	Wt.: 11.6#	d: 4.000	Set At: 8561' KB	Perforations: From 6539 To 6683'		Well No.: 1			
Thg. Size: 2-3/8"	Wt.: 4.7#	d: 1.995	Set At: 8312	Perforations: From 6508 To 6510		Unit Sec. Twp. Rge.: 0 35 - 17S-25E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Dual - G. G.					Packer Set At: 6500' & 8312'		County: Eddy		
Producing Thru: tubing		Reservoir Temp. °F: 122		Mean Annual Temp. °F: 62		Baro. Press. - P _a : 13.2		State: New Mexico	
L: 6600	H: 6600	G _g :	% CO ₂ : 0.63	% N ₂ : 0.89	% 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. P _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1910	66			Months
1.	2.067 X 1.000			315	11	75	1812	67			1 hr.
2.				317	24	75	1726	66			1
3.				320	40	75	1643	65			1
4.				322	72	75	1495	64			1
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	4.946	60.085	328.2	.9859	1.225	1.0320	370
2		89.021	330.2	.9859	1.225	1.0320	549
3		115.447	333.2	.9859	1.225	1.0325	712
4		155.353	335.2	.9859	1.225	1.0325	958
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	60.24	Mcf/bbl.
					A.P.I. Gravity of Liquid Hydrocarbons	50.6	Deg.
1.	.489	535	1.412	.939	Specific Gravity Separator Gas	0.666	XXXXXXX
2.	.492	535	1.412	.939	Specific Gravity Flowing Fluid	XXXXX	0.717
3.	.497	535	1.412	.938	Critical Pressure	671	P.S.I.A. 670
4.	.500	535	1.412	.938	Critical Temperature	379	R 394 R
5.							

P _c 2437.6 P _c ² 5942				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.5914$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.0376$	
NO.	P _t ²	P _w	R _w ²	P _c ² - R _w ²		
1			5344	598		
2			4858	1084		
3			4411	1531		
4			3649	2293		
5						

Absolute Open Flow: 1952 Mcfd @ 15.025			Angle of Slope: 53 1/4°	Slope, n: .7475
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Remarks: Pressures by Dead Weight Tester. Calculations worksheet C-122D attached.	
Approved By Commission:	Conducted By: Don Weaver
Calculated By: Eddie Mahfood	Checked By: