

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

Form C-122
Revised 9-1-65

APR 11 1977

File
122 file
CPI

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-6-77		O. C. C. ARTES A. OFFICE	
Company Yates Petroleum Corp.		Connection Transwestern Pipeline Company			
Pool Eagle Creek (Permo-Penn)		Formation Wolfcamp - Cisco		Unit K-6701	
Completion Date 12-18-73		Total Depth 8330' KB		Plug Back TD 7723' KB	
Csg. Size 4 1/2"		Wt. 10.5- 11.6#		Elevation 3620' KB	
Thg. Size 2-3/8"		Wt. 4.7#		Farm or Lease Name State "CY"	
Set At 8216'		Perforations: From 6380' To 6643'		Well No. 1	
Set At 7725'		Perforations: From X-Over Tool @ 6330'		Unit Sec. Twp. Rge. K 32-17S-25E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - G. G.		Packer Set At 7723' & 6330' KB		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 123		Mean Annual Temp. °F 62	
Baro. Press. - P _a 13.2		State New Mexico			
L 6440	H 6440	G _g	% CO ₂ 0.46	% N ₂ 0.99	% H ₂ S Nil
Prover		Meter Run 2"		Taps Flange	
FLOW DATA			TUBING DATA		CASING DATA
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
SI					
1.	2.067 X 0.500		300	27	63
2.			303	41	63
3.			305	66	63
4.			310	94	64
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
1	1.189	91.96	313.2	.9971	1.220
2		113.86	316.2	.9971	1.220
3		144.92	318.2	.9971	1.220
4		174.30	323.2	.9962	1.220
5					
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio
1	.467	523	1.376	.9365	270.9 Mcf/bbl.
2	.472	523	1.376	.936	A.P.I. Gravity of Liquid Hydrocarbons 58
3	.475	523	1.376	.935	Specific Gravity Separator Gas 0.672
4	.482	524	1.379	.934	Specific Gravity Flowing Fluid .683
5					Critical Pressure 670 P.S.I.A.
					Critical Temperature 380 R
P _c 2203.4 P _c ² 4855					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.6669$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.6458$
1			4302	553	
2			4112	743	
3			3850	1005	
4			3531	1324	
5					
Absolute Open Flow 690 Mcfd @ 15.025					Angle of Slope 53° 10'
Slope, n .7488					
Remarks: Pressures by Dead Weight Tester. Calculations worksheet C-122D attached.					
Approved By Commission:		Conducted By: Don Weaver		Calculated By: Eddie Mahfood	
				Checked By:	