

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

SF
Form C-122
Revised 9-1-63

RECEIVED

DEC 7 1981

Type Test ☒ Initial ☐ Annual ☐ Date 10-6-81										O. C. D. ARTESIA, OFFICE	
Company Yates Petroleum Corporation ✓					Transwestern Pipeline Company						
Pool West Hoag Strawn					Formation Strawn					Unit	
Completion Date 8-9-81			Total Depth 8690 KB		Plug back 11 8657 KB		3779 KB		Form of Lease Frame Hogback Headback PO St. Com		
Cas. Size 4 1/2"	Wt. 11.6#	d 4.000	Set At 8690 KB	Perforations: From 8064 To 8069 KB		Well No. 1		Unit Sec. Twp. Rge.			
Tub. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 8022 KB	Perforations: From To		Unit C		20		19s 24e	
Type Well - Single - Brodenhead - G.C. or G.O. Multiple single					Perfor Set At 8022 KB		County Eddy				
Producing Thru tubing		Reservoir Temp. °F 140		Mean Annual Temp. °F 62		Bar. Press 13.2		State N.M.			
L 8057	R 8057	Cs 0.58	% CO ₂ 0.75	% N ₂ 0.70	% H ₂ S N.7	Prover --	Water Run 2"	Taps flanged			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. psia	Diff. in. H ₂ O	Temp. °F	Press. psia	Temp. °F	Press. psia	Temp. °F	
51							2112	74			Weeks 46 hrs.
1.	2.067	X	0.500	635	3	76	640	78			
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor G	Super. Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	1.189	44.10	648.2	0.9850	1.312	1.0463	71
2							
3							
4							
5							

NO.	P _i	Temp °F	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.959	536	1.54	.9135	A.P.G. Gravity of Liquid Hydrocarbons	Deg.
2					Specific Gravity Separator Gas 0.581	XXXXXX
3					Specific Gravity Flowing Liquid 0.582	XXXXXX
4					Critical Pressure 676	P.S.I.A. 750
5					Critical Temperature 348	R 375

P _i 2795.2		P _c 7813	
NO.	P _i ²	P _w ²	P _c ² - P _w ²
1		1000.9	1002
2			
3			
4			
5			

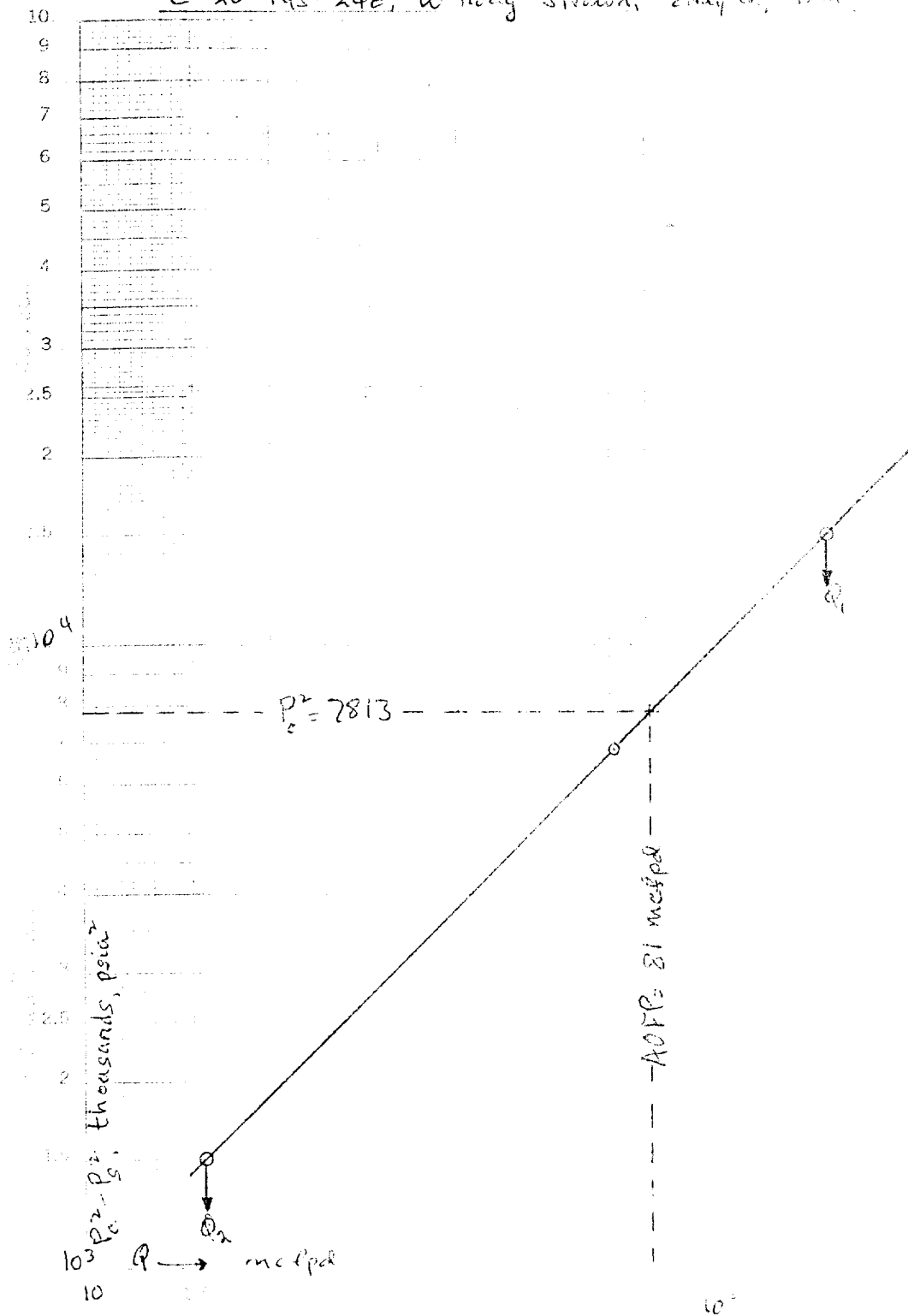
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.147$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.147$	

Absolute Open Flow 81		Well # 45 deg.		Slope, n 1.000	
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Remarks: Static pressures by Bennett Wirleline, flowing pressures by DWT. Low volume well unable to clean out all treating fluid. Calculations worksheet C122D attached.

Approved by Commission:	Checked by:	Checked by:	Checked by:
Danny Matthews	Eddie Mahfood		

YPC - Hogback PC State Camp No. 1
 C-20-19S-24E, W Hoag Strawn, Emery Co., NM.



$$Q_1 = 156 \text{ mcfpd}$$

$$Q_2 = 15.6 \text{ mcfpd}$$

$$\log Q_1 = 2.193$$

$$\log Q_2 = 1.193$$

$$\eta = 1000$$

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