NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

C/SF C-122

RECEIVED
DEC 23 1981
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 10-26-81	
Company: Yates Petroleum Corporation	Connection: El Paso Natural Pipeline Co.		
Pool: Wildcat Strawn	Formation: Strawn		Unit
Completion Date: 10-22-81	Total Depth: 8800' KB	Plug Back TD: 8515' KB	Elevation: 3630 KB
Farm or Lease Name: Federal AB Com.			
Csg. Size: 5½ / Wt.: 15.5 / d: 4.950" / Set At: 8800	Perforations: From 8235 To 8242 KB		Well No.: 4
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441" / Set At: 8200	Perforations: From To		Unit: B / Sec.: 30 / Twp.: 18S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 8200		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 140 @ 8240 KB	Mean Annual Temp. °F: 62	Baro. Press. – P_a: 13.2
State: New Mexico			

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
8232	8232	0.6571	2.77	1.39	Nil	-----	2"	Flanged

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					1814	65			80 hrs.
1.	2.067 X 0.750	139	12	70	280	75			48 hrs.
2.									
3.									
4.									
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	2.709	42.74	152.2	0.9905	1.233	1.0132	143
2							
3							
4							
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.224	530	1.436	.9742
2				
3				
4				
5				

Gas Liquid Hydrocarbon Ratio ---------- Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons ---------- Deg.
Specific Gravity Separator Gas 0.658 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .6571
Critical Pressure 680 P.S.I.A. 758.5 P.S.I.A.
Critical Temperature 369 R 397.6 R

P_c 2680.2 P_c^2 5200

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		747.5	559	4641
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1204$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1204$

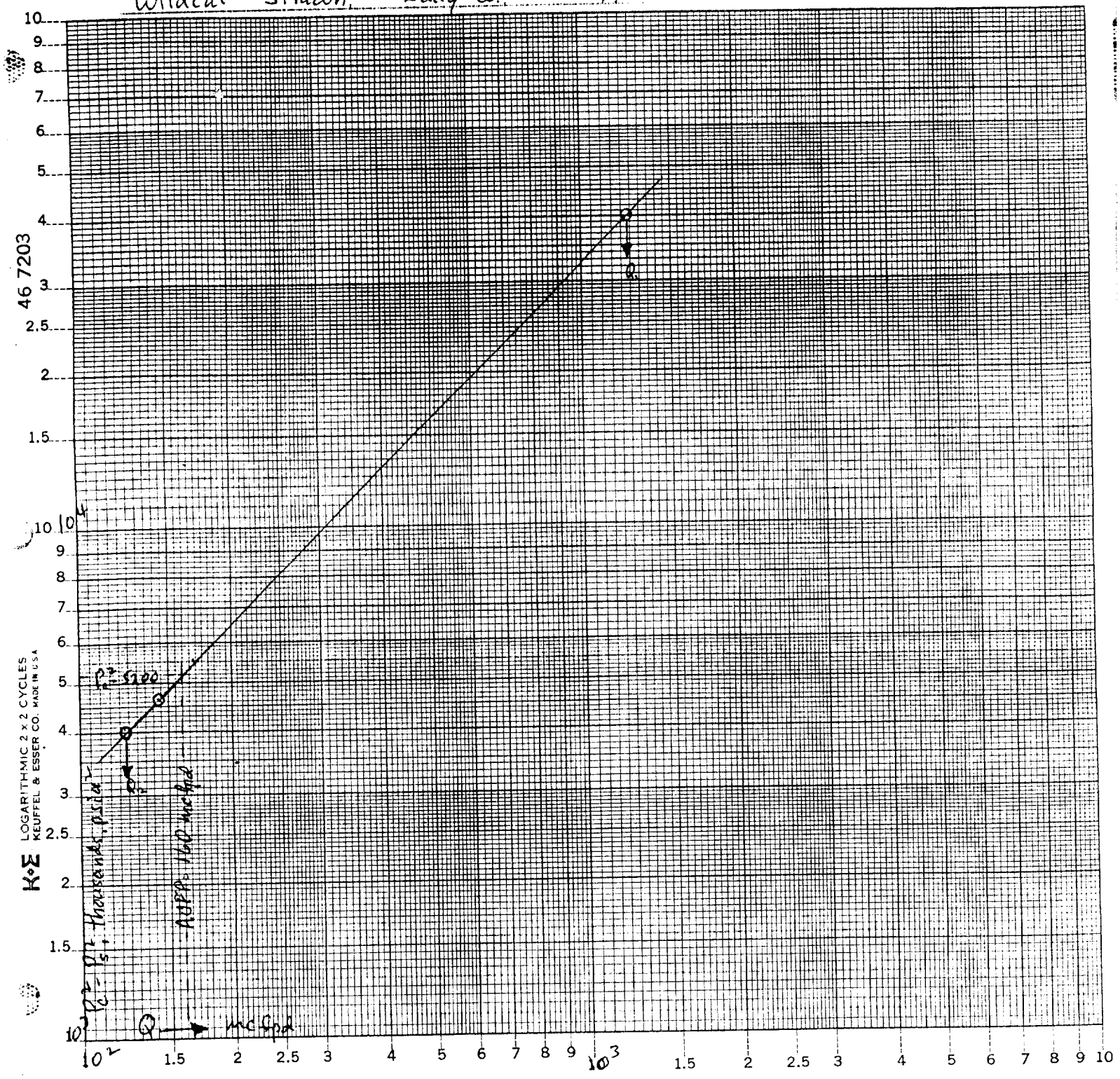
AOF = $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 160

Absolute Open Flow 160 Mcfd @ 15.025 Angle of Slope θ 45 deg. Slope, n 1.000

Remarks: Static pressures by Bennett Wireline, flowing pressures by DWT. One-point test only on account low volume well and unable to clean out all of load water C122D attached

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
	Bob Gary	Eddie Mahfood	

YPC- Federal AB Com No. 4, B-30-18S-25E
Wildcat Strawn, Eddy Co. N. Mex.



Q_1 = 1230 mcfpd $\log Q_1$ = 3.0899
Q_2 = 123 mcfpd $\log Q_2$ = 2.0899
n = 1.0000