NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 9-2-93	30-059-20307
Company: AMOCO PRODUCTION COMPANY		Connection:			
Pool: BRAVO DOME CARBON DIOXIDE GAS UNIT		Formation: TUBB			Unit: BDCDGU
Completion Date: -20-93	Total Depth: 2509	Plug Back TD: 2499	Elevation: 4950' GL		Farm or Lease Name: BDCDGU
Csg. Size: 4½" / Wt.: 4.49 / d: 3.95 / Set At: 2329		Perforations: From To			Well No.: 2233.311J
Tbg. Size: - / Wt.: - / d: - / Set At: -		Perforations: From To			Unit: J / Sec.: 31 / Twp.: 22N / Rge.: 33E
Type well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At:			County:
Producing Thru: CASING	Reservoir Temp. °F: 95 # 2	Mean Annual Temp. °F: 50	Baro. Press. – P_a: 12.2		State: NEW MEXICO
L: - / H: 2499	Gg: 1.529	% CO_2: 100	% N_2: 0	% H_2S: 0	Prover: / Meter Run: / Taps: FLANGE

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI				270							
1.	4.026	×	0.250	210							0.33 HR
2.	4.026	×	0.375	200							0.33 HR
3.	4.026	×	0.500	170							0.25 HR
4.	4.026	×	0.750	107							0.48 HR
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.							208
2.							458
3.							726
4.							1540
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio: DRY Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: 1.529 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 1072 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 547 R ____ R

P_c 282.2 P_c^2 79.637

NO.	P_w	P_w^2	$P_c^2 - P_w^2$
1	222.2	49.373	30.624
2	212.2	45.029	34.608
3	182.2	33.197	46.440
4	119.2	14.208	65.429
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.6$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.66$

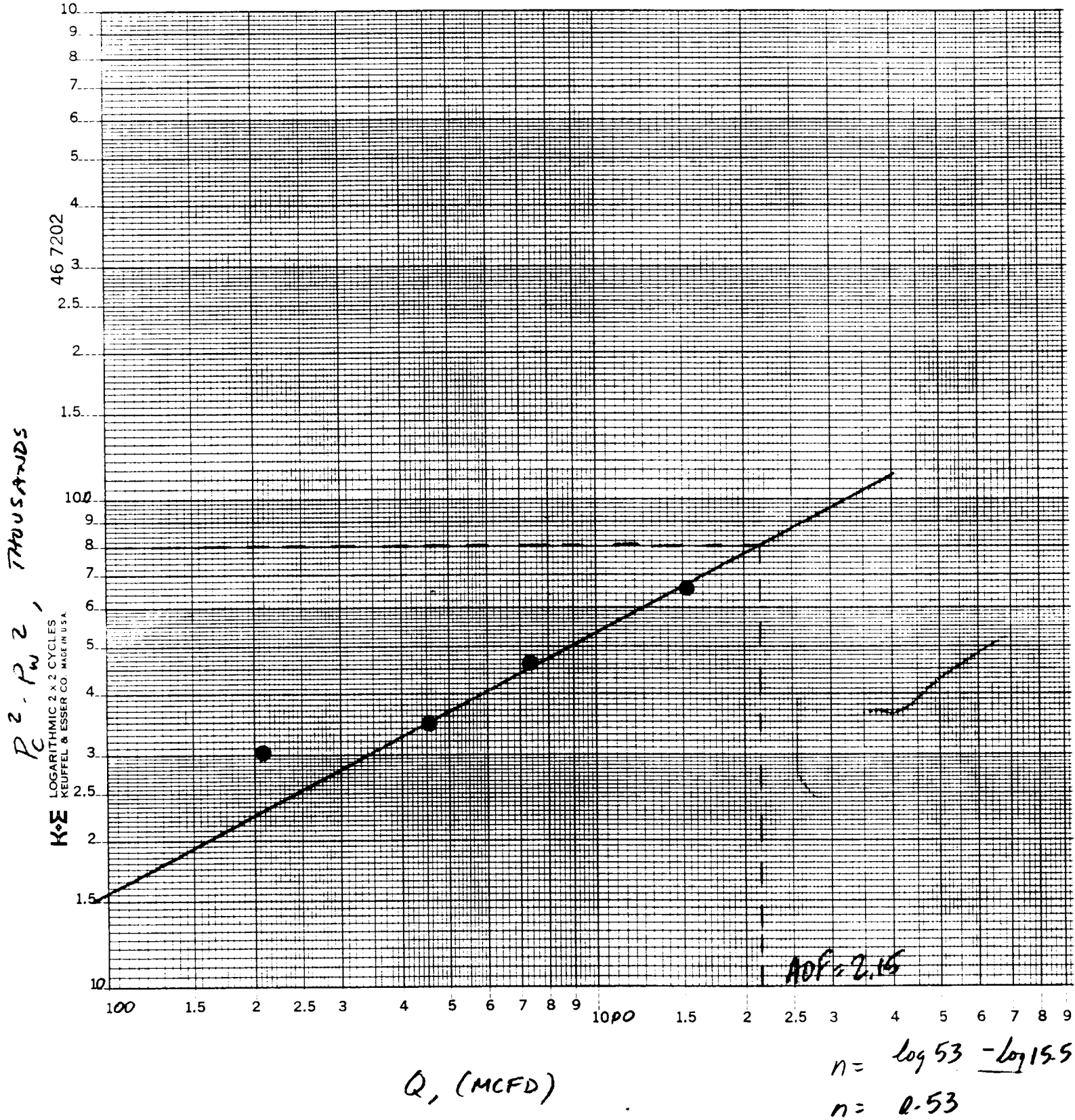
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.15$

Absolute Open Flow: 2.15 Mcfd @ 15.025 Angle of Slope θ: ____ Slope, n: 0.53

Remarks:

Calculated By: Checked By:

2233 - 3115



$n = \frac{\log 53 - \log 15.5}{}$

$n = 0.53$