

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

Form C-122
Revision 9-1-63

File

FEB 24 1983

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-16-83	
Company STEVENS OPERATING ✓				Connection AIR NEW WELL	
Pool PECOS SLOPE U.D. <i>12/16</i>				Formation ABO	
Completion Date 1-3-83 1-16-83		Total Depth 4224. <i>4250</i>		Plug Hole 1 4224. <i>4250</i>	
Well Size 4.500		Well ID 10.5		Elevation 3586.	
Form or Lease Name COBIE EBEID				Well No. 2	
Perforations: From 3872. To 4192.		Perforations: From 0. To 0.		Unit Sec. Top. Age. H 13 8S 25E	
Type Well - Single - (Nodenshead - O.O. or O.O. Multiple) SINGLE				Packer Set At 3517.	
Producing Thru TUBING		Reservoir Temp. °F 110. 4032.		Mean Annual Temp. °F 60.0	
Base. Press. - P _g 13.2		State NEW MEXICO		County CHAVES	
L 4032.	H 4032.	O _g 0.672	% CO ₂ 0.08	% N ₂ 10.80	% H ₂ S 0.
Proven		Water Run 2.0		Tape 0.	

FLOW DATA						TUBING DATA		B.H.P. DATA		Duration of Flow	
NO.	Proven Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		CHOKE
51							771.	62.			24.5
1	2.00 X 0.188			150.	0.	54.	762.	66.	0.	6/64	1.0
2	2.00 X 0.188			320.	0.	58.	739.	65.	0.	8.5/64	1.0
3	2.00 X 0.188			650.	0.	59.	689.	58.	0.	12/64	1.0
4	2.00 X 0.188			400.	0.	50.	590.	53.	0.	15/64	1.0
5											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{V_{NP}}$	Pressure P _g	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Factor F _{sp}	Area of Flow O. Mchd
1	0.61	0.	163.2	1.0058	1.2199	1.0146	123.
2	0.61	0.	333.2	1.0019	1.2199	1.0295	254.
3	0.61	0.	663.2	1.0010	1.2199	1.0575	520.
4	1.67	0.	413.1	1.0098	1.2199	1.0386	881.
5							

NO.	R	Temp. °R	T	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.25	514.	1.46	0.971	0.	0.	0.672	XXXXXXX	651.	351.
2	0.51	518.	1.47	0.944	0.	0.	0.672	XXXXXX	651.	351.
3	1.02	519.	1.48	0.894	0.	0.	0.672	XXXXXX	651.	351.
4	0.64	510.	1.45	0.927	0.	0.	0.672	XXXXXX	651.	351.
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NO.	P ₁	P ₂	R ₁	R ₂	(1) $\frac{P_1^2}{R_1^2 - R_2^2} = 2.5570$	(2) $\left[\frac{R_1^2}{R_1^2 - R_2^2} \right]^n = 1.9461$
1	601.	775.	600.	15.		
2	566.	752.	566.	49.		
3	492.	704.	496.	119.		
4	364.	612.	374.	241.		
5						

Post ID-2
3-4-83
Bennett & BK

Absolute Open Flow	1715.	Mchd @ 15.025	Angle of Slope °	54.7	Slope, n	0.709
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Remarks:

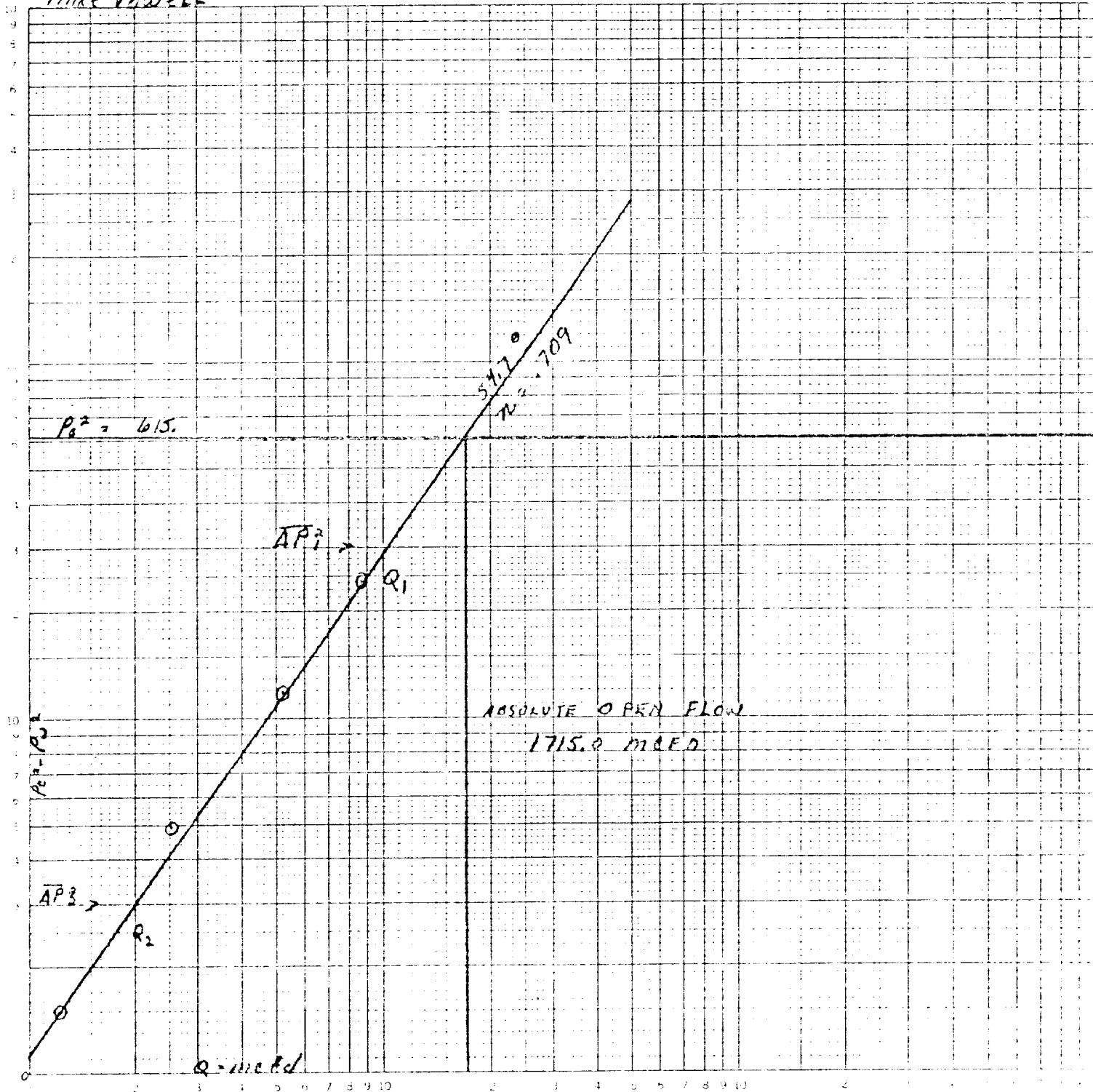
COBIE EBEID
WELL No. 2
Unit H, S13, T8S, R25E
Chase County

2-16-83

Mire Vowell

467400

LOGARITHMIC 3 X 3 CYCLES



$$\overline{\Delta P_1^2} P_0^2 - P_w^2 = 300$$

$$\overline{\Delta P_2^2} P_0^2 - P_w^2 = 30$$

$$Q_1 = 1023.3 \text{ mcf/d}$$

$$Q_2 = 200.0 \text{ mcf/d}$$

$$\log Q_1 = 3.010$$

$$\log Q_2 = 2.301$$

$$n = .709$$