

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Date 8-18-81		SEP 3 1981	
Company PERRY R. BASS		Location air		O. C. D. ARTESIA, OFFICE	
Pool GOLDEN LANE		Formation Middle Morrow		Unit or Lease Name Big Eddy Unit	
Completion Date 8-14-81		Total Depth 12800		Elevation 3384 KB	
Csg. Size 5 1/2		Set At 12800		Perforations From 12465 To 12516	
Wt. 17#		Set At 12279		Perforations From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 12279		Well No. 85	
Producing Thru Tbg.		Reservoir Temp. °F 199° 12490		Mean Annual Temp. °F 60°	
Bore. Press. - P _a 13.2		State N.M.		County Eddy	
L 12490		H 12490		G _g .6155	
% CO ₂ 1.493		% N ₂ 2.683		% H ₂ S	
Prover 4"		Meter Run 4"		Taps Flg.	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
51							3890				48 hrs.
1.	4	X	1.000	475	2.5	100	3450				30 min.
2.	4	X	1.000	475	13.0	108	3160				1 hr.
3.	4	X	1.000	480	27.0	104	2760				1 hr.
4.	4	X	1.000	480	36.0	94	2480				1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	4.753	34.94	488.2	.9636	1.274	1.031	210
2	4.753	79.67	488.2	.9568	1.274	1.030	475
3	4.753	115.40	493.2	.9602	1.274	1.031	692
4	4.753	133.25	493.2	.9688	1.274	1.033	807
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio dry Mcf/lbl.	A.P.I. Gravity of Liquid Hydrocarbons Deg.
1	.73	560	1.58	.940	Specific Gravity Separator Gas .6155	X X X X X X X X
2	.73	568	1.60	.943	Specific Gravity Flowing Fluid X X X X X	
3	.73	564	1.59	.941	Critical Pressure 672	P.S.I.A.
4	.73	554	1.56	.937	Critical Temperature 354	R
5						

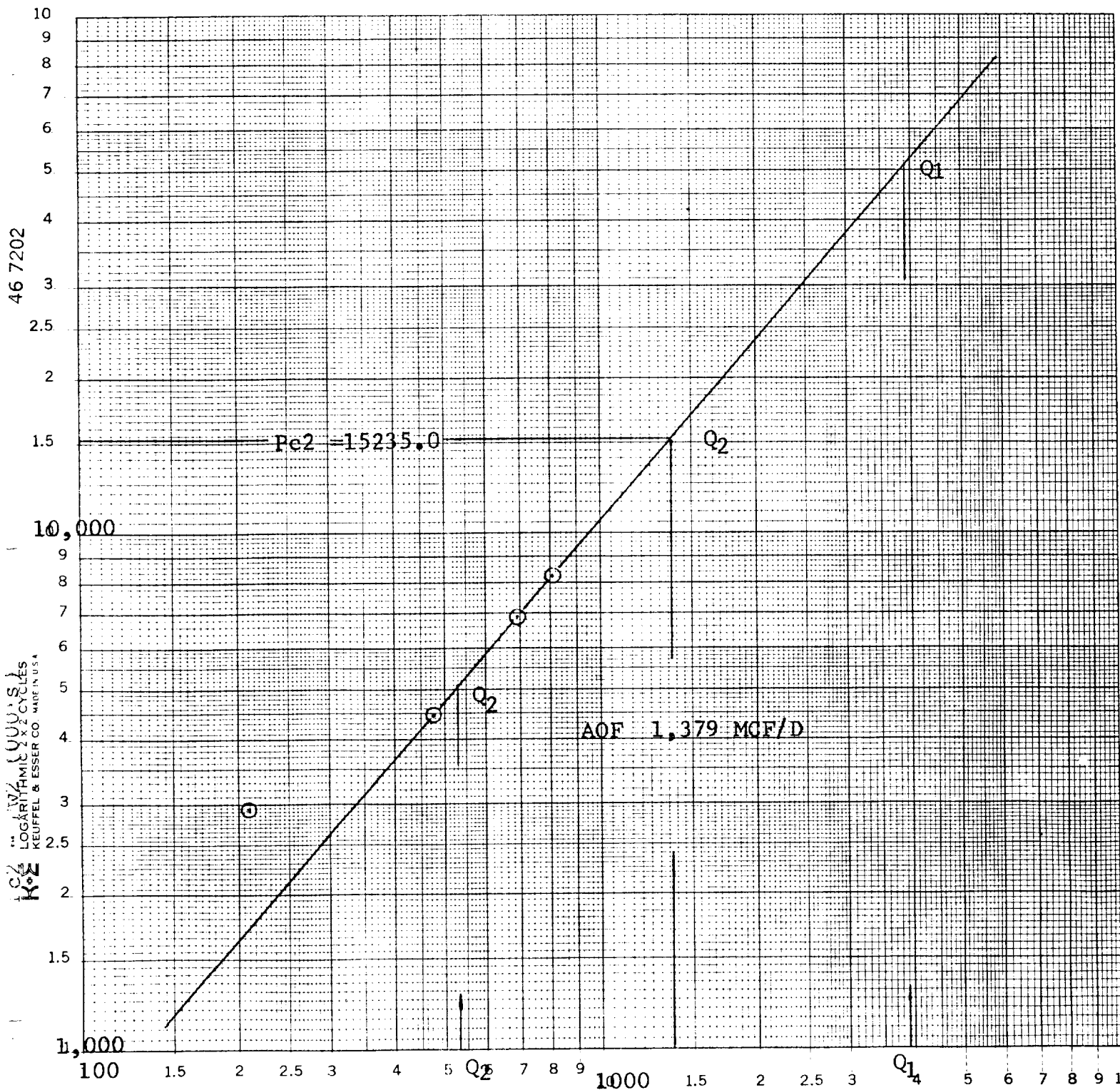
P _c 3903.2 P _c ² 15235.0				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.854$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.708$	
NO.	*BHP	P _w	P _w ²	P _c ² - P _w ²			
1	4561.2	3506.5	12295.5	2939.5			
2	4283.2	3276.5	10735.6	4499.4			
3	3806.2	2891.3	8359.5	6875.5			
4	3501.2	2649.5	7019.8	8215.2			
5							

Absolute Open Flow 1,379		Mcfd @ 14.655		Angle of Slope α 49°		Slope, n .867	
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Remarks: *Bottom-hole pressures taken at 12490 ft.

Approved By Construction:	Conducted By:	Calculated By:	Checked By:
	Davis Services, Inc.	Rick Pagan	

Company : *PERRY R. BASS*
 Lease : Big Eddy
 Well # : 85
 Unit : Sec. 8/Twsp. 21 S/Rge. 29 E
 County : Eddy
 State : New Mexico
 Date : August 18, 1981



Q = MCF/DAY
 Q₁ = 3900 Log of Q₁ = 3.591065
 Q₂ = 530 Log of Q₂ = 2.724276
 N = .867
 O = 49°

NEW-TEX LAB

P. O. BOX 1161
HOBBS, N.M. 88240

No. 5453
Run No. _____
Date of Run 8-19-81
Date Secured 8-18-81

CERTIFICATE OF ANALYSIS

A Sample of Bass Enterprises Big Eddy Unit #85
Secured from Davis Services, Inc.
At Box 2033 Secured by _____
Hobbs, NM 88240 Time _____ Date _____
Sampling conditions _____ Press _____
Temp. _____

FRACTIONAL ANALYSIS

Percentage Composition

MOL % LIQ. % G.P.M.

Carbon Dioxide	1.493		
Air			
Nitrogen	2.683		
Oxygen			
Hydrogen sulfide			
Hydrogen			
Methane	90.422		
Ethane	4.247		1.133
Propane	.691		.190
Butanes			
Iso-Butane	.100		.033
N-Butane	.116		.036
Pentanes			
Iso-Pentane	.054		.020
N-Pentane	.036		.013
Hexanes	.028		.011
Heptanes	.130		.060
Octanes			
TOTAL	100.000		1.496

Calc. Sp. Gr. — 0.6155
Calc. A.P.I. — _____
Calc. Vapor Press. — _____ PSIA
Sp. Gr. _____
Mol. Wt. 17.85

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M. .190
Butanes Calc. G.P.M. .069
Pentanes Plus. G.P.M. .104
Ethane Calc. G.P.M. 1.133
* RVP Gasoline G.P.M. _____
B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
Dry Basis 1025
Wet Basis 1007
Sulfur Analysis by Titration
Gr./100 Cu. Ft. _____
Hydrogen Sulfide _____
Mercaptans _____
Sulfides _____
Residual Sulfur _____
Total Sulfur _____

Run by R.H. Hamilton Checked by Deane Simpson Approved by Deane Simpson

Additional Data and Remarks