

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

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41802
Form C-122
Revised 9-1-65

APR 21 1976

Type Test ☐ Initial ☐ Annual ☒ Special		Recompletion Test Date 4-7-76	
Company PERRY R. BAS Bass Enterprises Production Co.		Connection Natural Gas Pipeline Co.	
Pool Quadaha Ridge		Formation Morrow	
Completion Date Mar. 10, 1976		Total Depth 13,335'	
Perforations: From 12,754 To 12,899		Elevation 3426.5' GL	
Well No. 38		Farm or Lease Name Big Eddy Unit	
Coq. Size 5 1/2"	Wt. 17#	d 4.892	Set At 13,335'
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 12,620
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 12,620	
Producing Thru Tubing		Reservoir Temp. °F 200 @ 13,086'	
Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico		County Eddy	
L 12,826	H 12,826	Gg .592	% CO ₂ .46
% N ₂ .45	% H ₂ S Nil	Prover X	Meter Run Flange

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	
SI							3608.2	77			
1.	3	x	1.375	8.7	5.7	87	2592.2	82			2 hrs.
2.	3	x	1.375	8.7	6.7	87	2130.2	79			2 hrs.
3.	3	x	1.375	8.7	7.5	87	1715.2	67			2 hrs.
4.	3	x	1.375	8.7	8.0	89	1360.2	65			2 hrs.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	200 psi x 50" Meter Factor	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9.249	2.4494		.9750	1.300	1.063	1,514
2	9.249	2.4494		.9750	1.300	1.063	1,779
3	9.249	2.4494		.9750	1.300	1.063	1,992
4	9.249	2.4494		.9732	1.300	1.063	2,121
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcft/bbl.
1.	1.35	547	1.55	.885	A.P.I. Gravity of Liquid Hydrocarbons	592
2.	1.35	547	1.55	.885	Specific Gravity Separator Gas	X X X X X X X X
3.	1.35	547	1.55	.885	Specific Gravity Flowing Fluid	X X X X X
4.	1.35	549	1.55	.885	Critical Pressure	672 P.S.I.A.
5.					Critical Temperature	354 °R

NO.	P _t ²	P _s ²	P _s ²	P _t ² - P _s ²	(1) $\frac{P_t^2}{P_t^2 - P_s^2} = \frac{22,956}{19,417}$	(2) $\left[\frac{P_t^2}{P_t^2 - P_s^2} \right]^n = 1.1038$
1	3502.2	12,265	10,691			
2	2913.2	8,487	14,469			
3	2352.2	5,533	17,423			
4	1881.2	3,539	19,417			
5						

Absolute Open Flow		2,350 Mcfd @ 15.025	Angle of Slope °	59.5	Slope, n	.590
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Remarks: Bottom Hole Pressure was recorded @ 12,826' with an Amerada RPG-3 Instrument, Serial # 38146 (0-6600 PSI Range)	
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Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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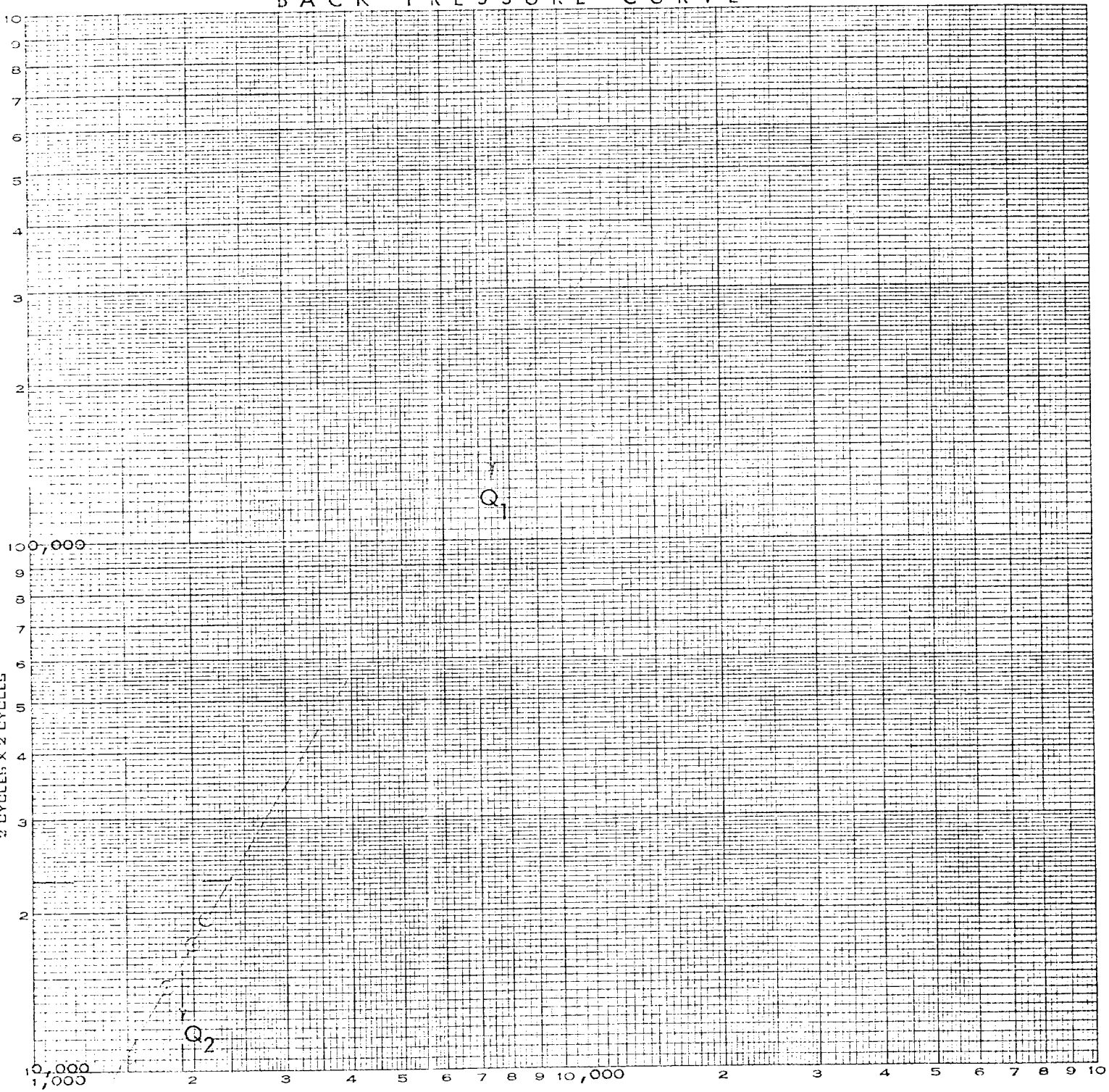
COMPANY Big Eddy Production Co.
 FIELD _____
 COUNTY Eddy STATE New Mexico
 LEASE Big Eddy "38"

DATE 4-07-76

BACK PRESSURE CURVE

DIETZGEN CORPORATION
MADE IN U.S.A.

NO. 340-L22 DIETZGEN GRAPH PAPER
LOGARITHMIC
2 CYCLES X 2 CYCLES



$$Q_1 = 7,400$$

$$Q_2 = 1,900$$

$$\text{Log } Q_1 = 3.86923$$

$$\text{Log } Q_2 = 3.27875$$

$$n = .59048$$

Company Boss Enterprises Production Co. Lease Big Eddy Well No. 38
Field _____ County Eddy State New Mexico
Test Date 4-07-76 Time _____ Status of Well Shut In Shut In _____

