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122
Form C-122
Revised 9-1-65

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

RECEIVED

JAN 30 1980

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 1-17-80	
Company Perry R. Bass		Connection Not connected.	
Pool Wildcat		Formation Strawn	
Completion Date Jan. 14, 1980		Total Depth 13,060'	
Casing Size 5 1/2" 17#		Set At 13,060	
Perforations: From 11,542 To 11,638		Well No. 71	
Tubing Size 2 3/8" 4.7#		Set At 11,461	
Perforations: From Open Ended To		Unit Big Eddy Unit	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 11,461	
Producing Thru Tubing		Reservoir Temp. °F 180a	
Mean Annual Temp. °F 13.2		State New Mexico	
L 11,542	H	Gg .634	% CO ₂ .71
		% N ₂ 1.25	% H ₂ S 0
Prover		Meter Run X	

FLOW DATA							TUBING DATA		CASING DATA		Duration
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	of Flow
SI							4468	61			
1.	4"	x	1"	30	43	79	3715	74			1 Hr.
2.	4"	x	1"	90	62	80	3234	73			1 Hr.
3.	4"	x	1"	90	46	75	2662	75			1 Hr.
4.	4"	x	1"	90	50	75	2322	75			1 Hr.
5.	4"	x	1 1/2"	140	4	77	334	66			4 Hrs.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super. Compens. Factor, Fpv	Rate of Flow Q, Mcf/d
1	4.753	43.100	43.2	.9822	1.256	1.004	254
2	4.753	79.990	103.2	.9813	1.256	1.008	472
3	4.753	68.900	103.2	.9859	1.256	1.009	409
4	4.753	71.833	103.2	.9859	1.256	1.009	427
5	10.84	24.755	153.2	.9840	1.256	1.013	147

NO.	P _f	Temp. °R	T _f	Z	Gas Liquidity Factor, R _g	Met/bol.
1	.064	539	1.47	.992	None Produced	
2	.153	540	1.48	.984		
3	.153	535	1.46	.983		
4	.153	535	1.46	.983		
5	.228	537	1.47	.974		

NO.	P _f ²	P _s	P _s ²	P _f ² - P _s ²	(1) $\frac{P_f^2}{P_f^2 - P_s^2} = \frac{34,600}{9,237}$	(2) $\left[\frac{P_f^2}{P_f^2 - P_s^2} \right]^n = 2.143$
1	5036.2	25,363	9,237			
2	4442.2	19,733	14,867			
3	3741.2	13,997	20,603			
4	3312.2	10,971	23,629			
5	948.2	899	33,701			

Actual Gas Flow	542	API Gravity	59.5	API Gravity	589
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Remarks:

Approved by Commission: _____ Conducted by: _____

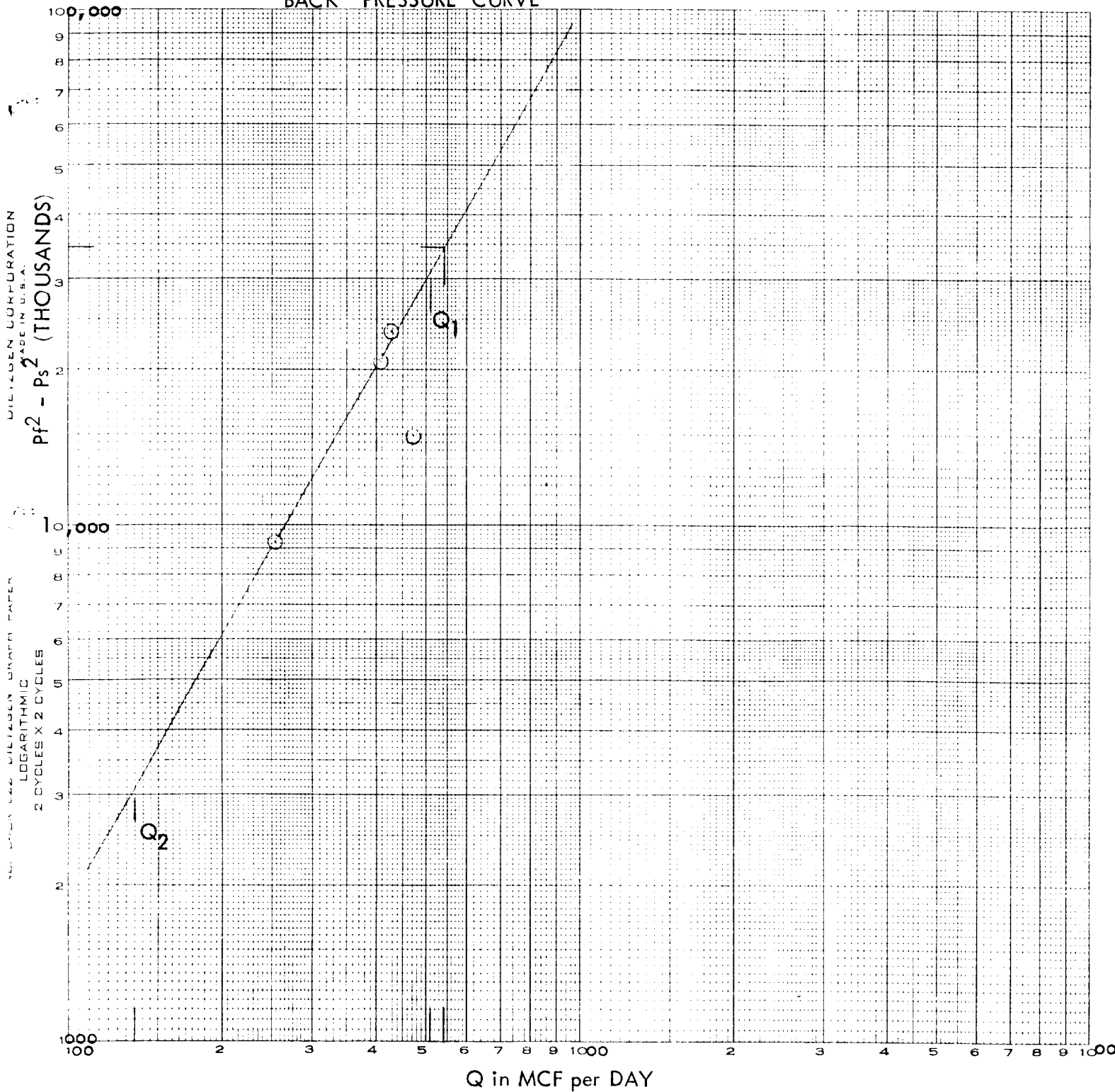
COMPANY Perry R. Bass

LEASE Big Eddy Unit WELL 71

COUNTY Eddy STATE New Mexico

DATE 1-17-80

BACK PRESSURE CURVE



$\theta = 59.5$

$n = .589$

AOF = 542 MCF/DAY

$Q_1 = 510 \text{ MCFD}; \text{Log } Q_1 = 2.70757$

$Q_2 = 135 \text{ MCFD}; \text{Log } Q_2 = 2.13033$

$n = .57724$