

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

Form C-122
Revised 9-1-65

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Type Test ☒ Initial DEC 11 1979 ☐ Annual ☐ Special		Test Date 11-28-79 DEC 11 1979	
Company Perry R. Bass — O.C.C.		Connection ARTERIA, OFFICE NYC - WOPL	
Pool Wildcat		Formation Morrow	
Completion Date Nov. 28, 1979		Total Depth 12,622'	
Casing Size 5 1/2"		Well No. 76	
Perforations: From 12,093 To 12,305		Elevation 3301' KB	
Perforations: From Open Ended To		Form or Lease Name Big Eddy Unit	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 12,050	
Producing Thru Tubing		State New Mexico	
Reservoir Temp. °F 181 ° 12,065		Mean Annual Temp. °F —	
Baro. Press. - P _a 13.2		County Eddy	
L 12,093		H .591	
% CO ₂ 1.18		% N ₂ .39	
% H ₂ S Trace		Prover	
Meter Run X		Taps 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	of Flow
1.	4" x 1.000"			510	8	86	3390	51			1 Hr.
2.	4" x 1.000"			525	20	98	3150	54			1 Hr.
3.	4" x 1.000"			540	32	98	2865	58			1 Hr.
4.	4" x 1.000"			660	49	103	2373	56			1 Hr.

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	64.696	523.2	.9759	1.301	1.038	405
2	4.753	103.750	538.2	.9653	1.301	1.035	641
3	4.753	133.050	553.2	.9653	1.301	1.035	822
4	4.753	181.623	673.2	.9610	1.301	1.043	1126

NO.	P _f	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.778	546	1.542	.929	A.P.I. Gravity of Liquid Hydrocarbons	None Produced
2	.801	558	1.576	.934	Specific Gravity Separator Gas	.591
3	.823	561	1.576	.933	Specific Gravity Flowing Fluid	X X X X X
4	.802	563	1.590	.920	Critical Pressure	672
5					Critical Temperature	354

NO.	P _f ²	P _g ²	P _s ²	P _f ² - P _g ²	(1) $\frac{P_f^2}{P_f^2 - P_g^2} =$	(2) $\left[\frac{P_f^2}{P_f^2 - P_g^2} \right]^n =$
1	4466.2	19947	4419		1.711	1.606
2	4154.2	17257	7109			
3	3301.2	14449	9917			
4	3182.2	10126	14240			

Absolute Open Flow			Angle of Slope		Store, n	
1,810			48.4°		.882	

Remarks: P_f & P_s Recorded with an Amerada RPG - 3 Instrument @ 12,065

Approved by Commission:	Conducted by:	Checked by:	Drawn by:
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LEASE E Eddy Unit WELL #76

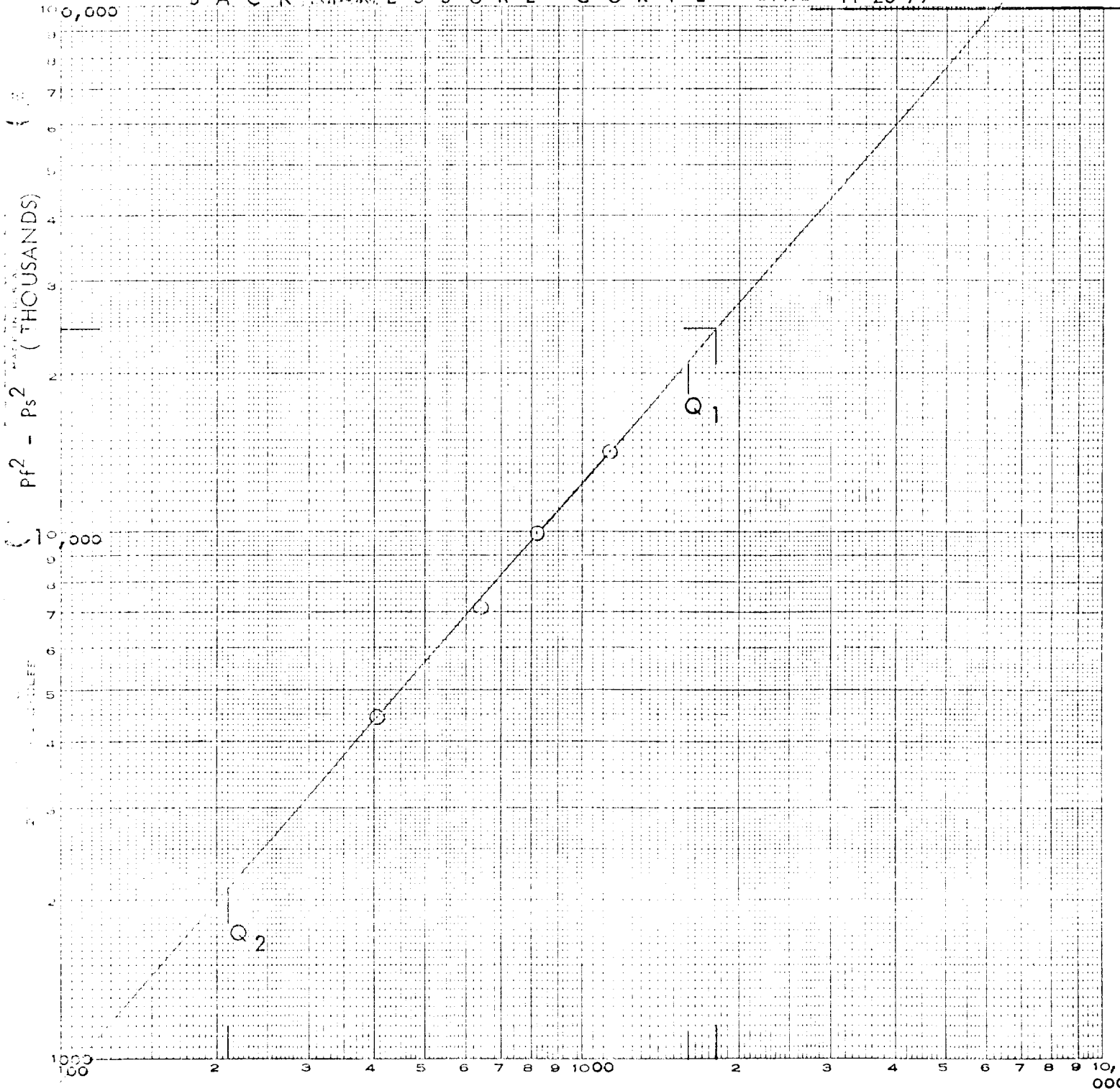
FORMATION Morrow

DEC 11 1979

COUNTY Eddy STATE New Mexico

U.S. GEOLOGICAL SURVEY

3 A C K I N P O R T E S S U R E C U R V E DATE 11-28-79



Q In MCF per DAY

0 = 43 1/2 °
n = .882
AOF = 1,810

Q₁ = 1,600 ; Log Q₁ = 3.20412

Q₂ = 210 ; Log Q₂ = 2.32222

n = .88190