

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

RECEIVED
Form O-422
Revised 9-1-65

MAR 01 '88

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2/27/88		S. C. D. PRESS. OFFICE	
Company Bass Enterprises Production Co.				Connection Natural Gas Pipeline Co. of America					
Pool Indian Flats				Formation Atoka				Unit Big Eddy Unit	
Completion Date 2/25/88		Total Depth 12,700'		Plug Back TD 11,960'		Elevation 3217' GL		Farm or Lease Name Big Eddy Unit	
Csg. Size 5-1/2	Wt. 17	d	Set At 12,700'	Perforations: From 11,650' To 11,658'				Well No. 66	
Tbg. Size 2-3/8	Wt. 4.7	d	Set At 11,550'	Perforations: From 11,661' To 11,666'				Unit Sec. Twp. Rge. K 25 21S 28E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Well Gas Well						Packer Set At 11,550'		County Eddy	
Producing Thru Tbg		Reservoir Temp. °F 167°F @ 11,658'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 11,658'	H 11,658'	Gg 0.603	% CO ₂ 0.38	% N ₂ 1.09	% H ₂ S 0	Prover 0	Meter Run 3	Type 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							6756	167	0	0	72.0
1.	3.00 x 1.750			218	9.6	70	6128	167	0	0	2.5
2.	3.00 x 1.750			232	41.0	84	5906	167	0	0	2.5
3.	3.00 x 1.750			232	59.3	101	5414	167	0	0	2.5
4.	3.00 x 1.750			246	90.2	91	5149	167	0	0	5.0
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf/d
1	15.71	47.14	231.2	0.9905	1.2878	1.0186	962
2	15.71	100.18	245.0	0.9777	1.2878	1.0179	2016
3	15.71	120.52	245.0	0.9628	1.2878	1.0159	2384
4	15.71	152.95	259.2	0.9715	1.2878	1.0181	3059
5							

NO.	P _r	Temp. °R	T _r	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	0.34	530	1.49	0.964			0.603			
2	0.36	544	1.53	0.965						
3	0.36	561	1.58	0.969						
4	0.39	551	1.55	0.965						
5										

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²
1	37714	4895	23964	5834
2	35037	4698	22068	7730
3	29455	4264	18184	11614
4	26648	4034	16273	13525
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.2032$

ADP = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 6740$

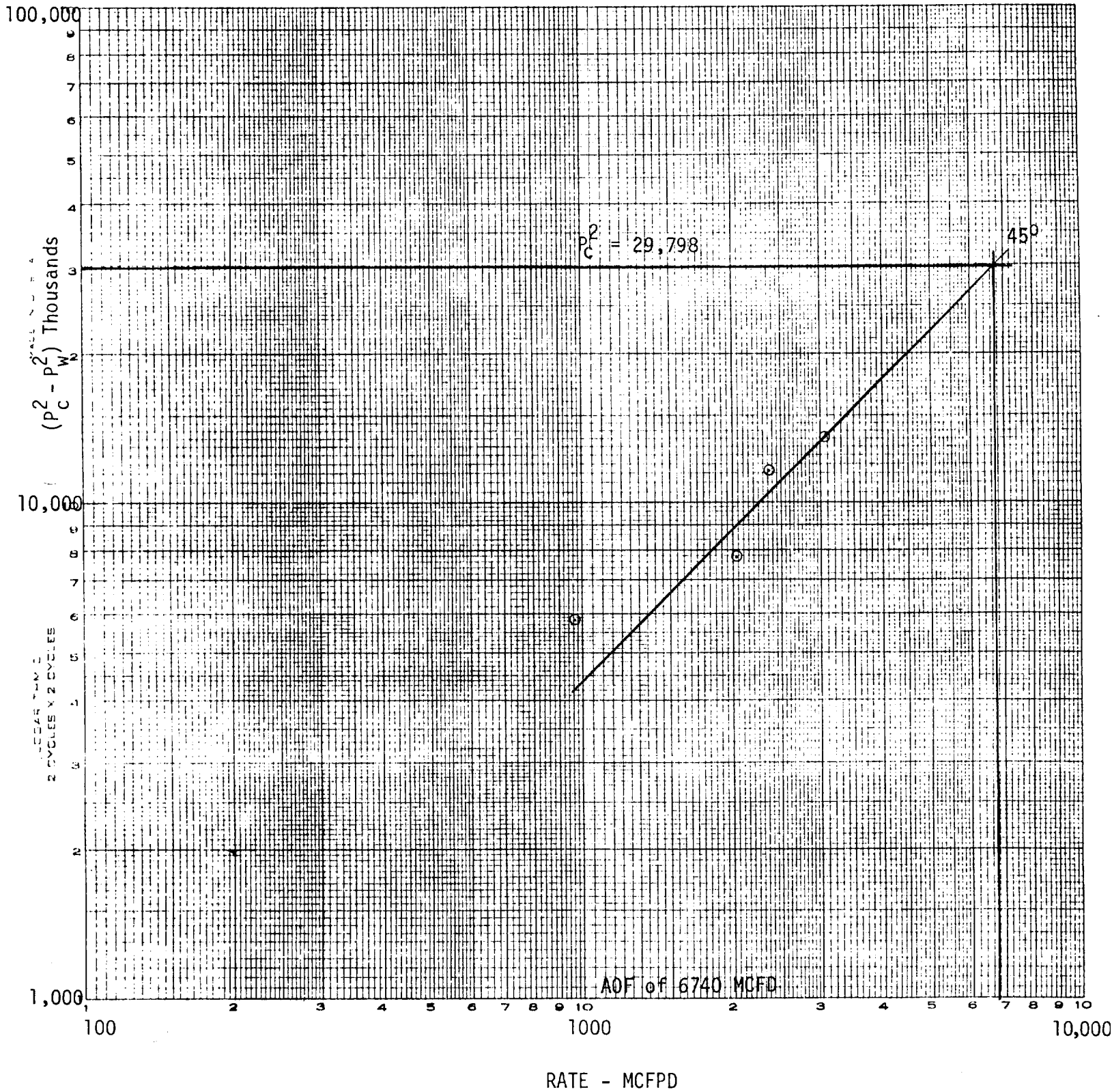
(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.2032$

Absolute Open Flow	6740	Mscf @ 15.025	Angle of Slope @	45.0	Slope, n	1.000
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Remarks: All pressures are bottom hole pressures.
Well did not produce any fluid during test.

Approved By Commission:	Conducted By: Well Testing Service	Calculated By: Ralph Viney	Checked By: Gary Morgan
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BIG EDDY UNIT NO. 66
 EDDY COUNTY, NEW MEXICO
 S25, T21S, R28E
 FEBRUARY 27, 1988



MOBILE ANALYTICAL LAB., INC.

P.O. BOX 6771

ODESSA, TEXAS

02/28/88

LAB # 22888

BASS ENTERPRISES
BIG EDDIE UNIT # 46
259 PSIG @ 103 DEG./F
GAS SAMPLE

FRACTIONAL ANALYSIS

<u>COMPONENT</u>	<u>MOLE %</u>	<u>GPM</u>
NITROGEN	1.09	0.000
METHANE	94.04	0.000
CARBON DIOXIDE	0.38	0.000
ETHANE	2.99	0.795
PROPANE	0.65	0.178
ISO-BUTANE	0.14	0.046
NORMAL BUTANE	0.13	0.041
ISO-PENTANE	0.07	0.025
NORMAL PENTANE	0.04	0.014
HEXANE PLUS	0.47	0.199
TOTALS	100.00	1.298

SPECIFIC GRAVITY	0.603	12# VAPOR PRESSURE	0.298
GROSS WET BTU	1033.9	26# VAPOR PRESSURE	0.357
GROSS DRY BTU	1052.3		

WELL TESTING
JOHN RODGERS
BUDDY JENKINS

ATOKA