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appropriate district office
See Rule 401 & Rule 1122

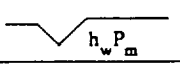
OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Naumann Oil & Gas, Inc.				Lease or Unit Name Carlsbad "7" Comm			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12/20/94		Well No. 1	
Completion Date 10/17/94		Total Depth 11,698		Plug Back TD 11,040		Elevation 3119 Gr.	
Csg. Size 5 1/2"		Wt. 20#		d 4.778		Set At 11,698	
Tbg. Size 2 3/8"		Wt. 4.7		d 1.995		Set At 10,282	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,282		Formation Strawn	
Producing Thru Tbg.		Reservoir Temp. °F 60°		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2	
* I 10380		H 10380		Gg .688		% CO ₂ .69	
				% N ₂ .40		% H ₂ S	
				Prover		Meter Run 4.026	
						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	
SI							2965		Pkr.		0
1.	4.026	X	1.5	700	7	50	2835		"		1 Hr.
2.	4.026	X	1.5	700	14	42	2685		"		1 Hr.
3.	4.026	X	1.5	700	25	37	2520		" "		1 Hr.
4.	4.026	X	1.5	700	44	32	2210		"		1 Hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	10.84	70.66	713.2	1.010	1.206	1.100	1026
2.	10.84	99.92	713.2	1.018	1.206	1.100	1463
3.	10.84	133.53	713.2	1.023	1.206	1.100	1964
4.	10.84	177.15	713.2	1.028	1.206	1.100	2619
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio			Mcf/bbl.
1.	1.066	510	1.33	.827	A.P. I. Gravity of Liquid Hydrocarbons			Deg
2.	1.066	502	1.30	.827	Specific Gravity Separator Gas .688			XXXXXXXXXX
3.	1.066	497	1.29	.827	Specific Gravity Flowing Fluid XXXXX			
4.	1.066	492	1.28	.827	Critical Pressure 669 P.S.I.A.			P.S.I.A.
5.					Critical Temperature 385 R			R

P _c	P _c ²				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1.		2906.6	8448.3	934.3	
2.		2751.8	7572.4	1810.2	
3.		2579.4	6653.3	2729.3	
4.		2306.8	5321.3	4061.3	
5.					

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.310}{\quad} \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.850}{\quad}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{4.845}{\quad}$$

Absolute Open Flow	4,845	Mcf @ 15.025	Angle of Slope θ	54	Slope, n	.73468
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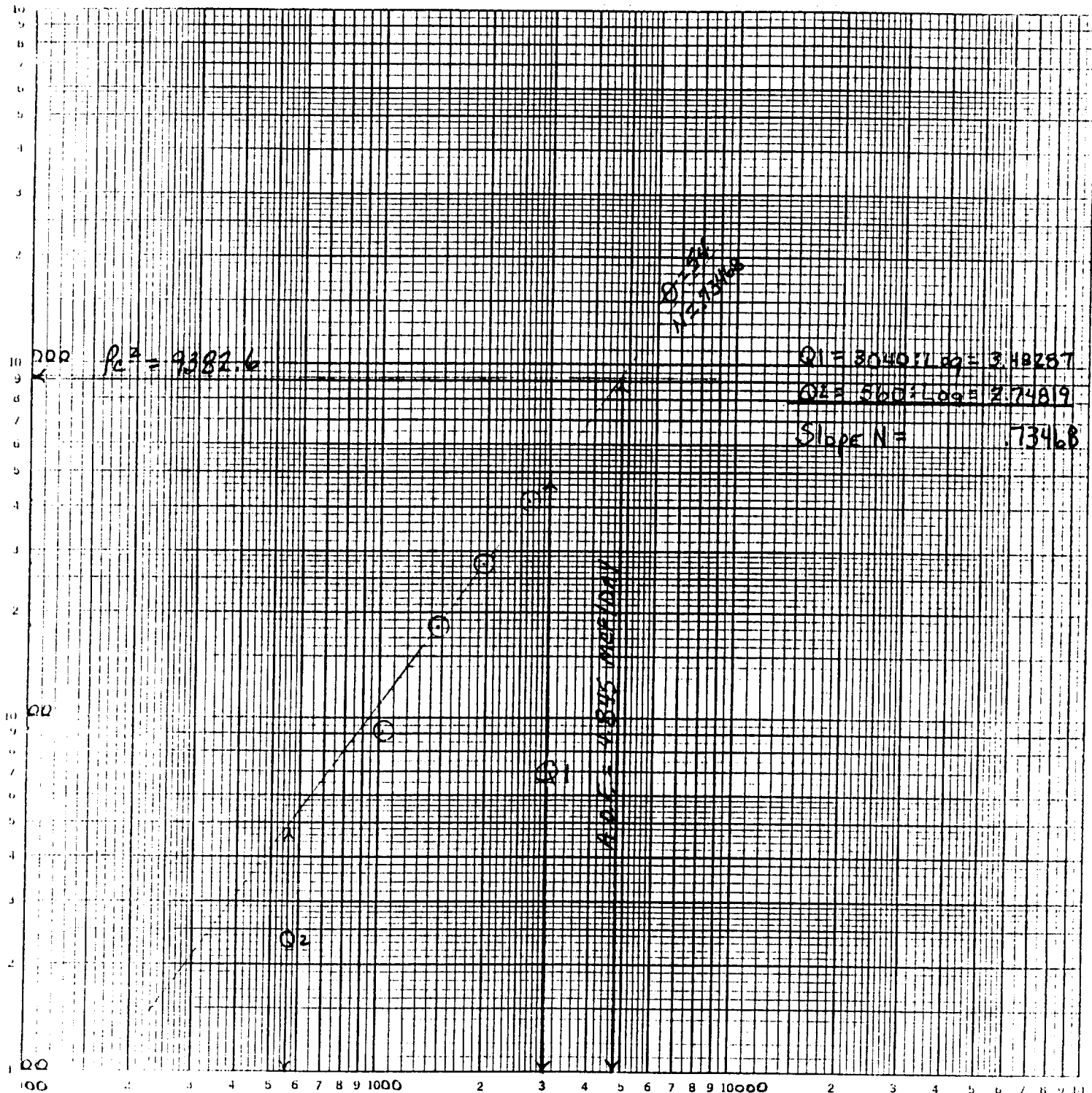
Remarks: * BHP ISNT. SET @ THIS DEPTH

Approved By Division	Conducted By: Moore & Associates	Calculated By: DM	Checked By: JN
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Naumann Oil & Gas, Inc.
 Carlsbad "7" Com., Well #1
 7, 22-S, 27-E
 Eddy County, New Mexico
 12/20/94

Pc²-Pw²(thsnds) 407400

LOGARITHMIC PLACEMENT
 REFERENCE PRESSURE
 1000



Q MCF/DAY