

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

Form C-122
Revised 6-1-66

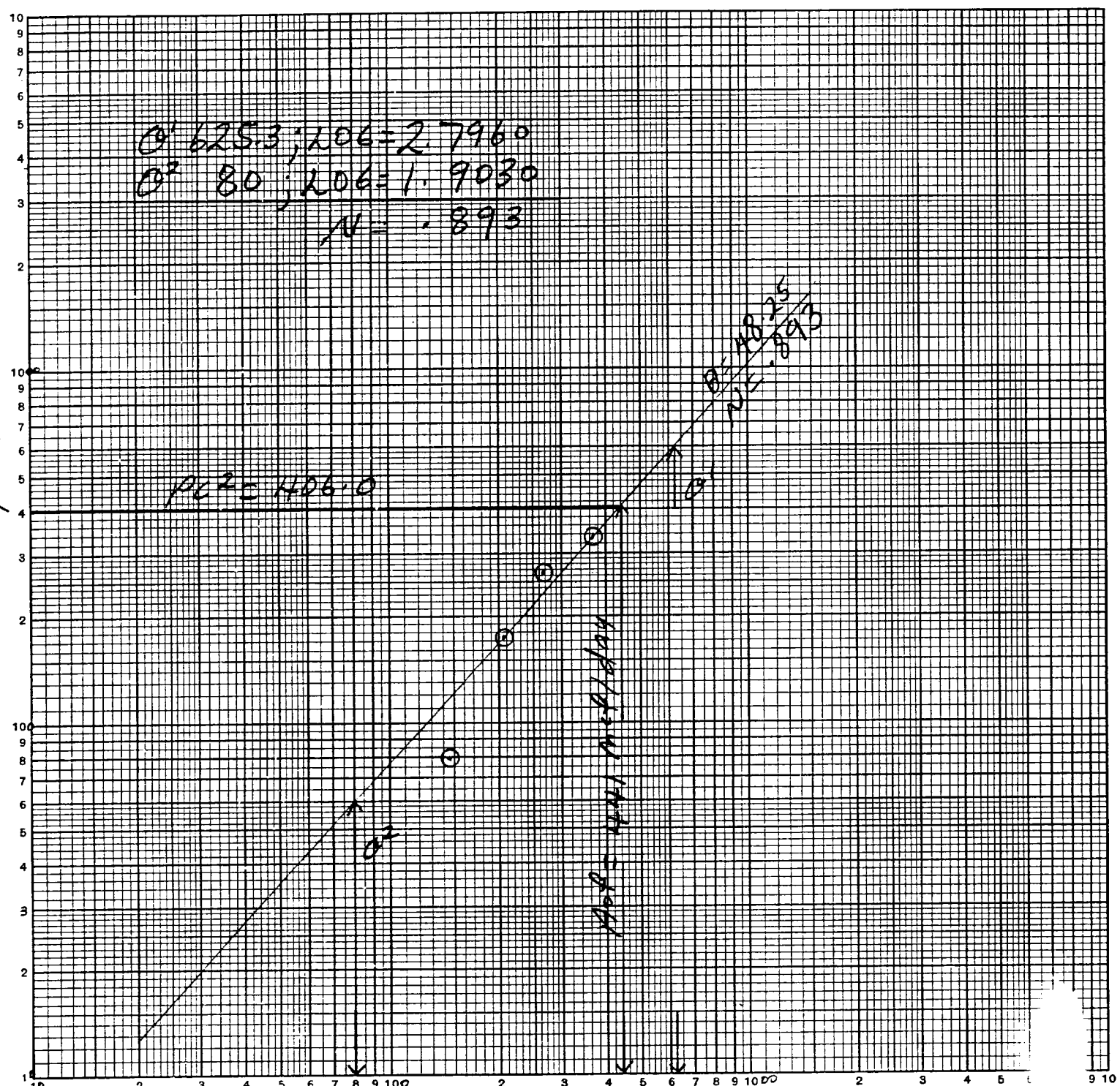
Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2-28-80		SPUD DATE: 1-13-80																																																																																															
Company Amerada Hess Company			Connection None																																																																																																
Field Eumont			Formation Seven Rivers Queen																																																																																																
Completion Date 2-26-80		Total Depth 3359'		Flag back TD 3326'																																																																																															
Casing Size 5 1/2"		Set At 14.0		Elevation N/A																																																																																															
Tubing Size 2 3/8		Set At 4.7		Perforations: From 3160 To 3359																																																																																															
				Perforations: From open To ended																																																																																															
Type well - Single - Packerhead - G.G. or G.O. Multiple Single				Packer Set At None																																																																																															
Producing thru Tbg.		Reservoir Temp. °F 107 @ 3259.5		Mean Annual Temp. °F 60																																																																																															
				Baro. Press. - P _a 13.2																																																																																															
L 3259.5		H 3259.5		Prover 4"																																																																																															
Gg .662		% CO ₂ .01		% N ₂ 3.26																																																																																															
				% H ₂ S 0																																																																																															
				Meter Run 4"																																																																																															
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RATE OF FLOW CALCULATIONS																																																																																																			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf/d																																																																																												
1	7.469	16.27	88.2	.9786	1.229	Nil	146																																																																																												
2	7.469	23.00	88.2	.9804	1.229	Nil	207																																																																																												
3	7.469	29.70	88.2	.9795	1.229	Nil	267																																																																																												
4	7.469	40.94	88.2	.9777	1.229	Nil	367																																																																																												
5																																																																																																			
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ None _____ Mscf/Lbl.																																																																																														
1	.13	543	1.43	Nil	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.																																																																																														
2	.13	541	1.43	Nil	Specific Gravity Separator Gas .662 X X X X X X X X																																																																																														
3	.13	542	1.43	Nil	Specific Gravity Flowing Fluid X X X X X																																																																																														
4	.13	544	1.44	Nil	Critical Pressure 670 P.S.I.A. P.S.I.A.																																																																																														
5					Critical Temperature 378 R R																																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>NO.</td> <td>P_r²</td> <td>P_w²</td> <td>P_w²</td> <td>P_r² - P_w²</td> <td>(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.229$</td> <td>(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.202$</td> </tr> <tr> <td>1</td> <td></td> <td>571.2</td> <td>326.3</td> <td>79.7</td> <td rowspan="5">AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = .441$</td> <td rowspan="5"></td> </tr> <tr> <td>2</td> <td></td> <td>483.2</td> <td>233.5</td> <td>172.5</td> </tr> <tr> <td>3</td> <td></td> <td>378.2</td> <td>143.0</td> <td>263.0</td> </tr> <tr> <td>4</td> <td></td> <td>275.2</td> <td>75.7</td> <td>330.3</td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>								NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.229$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.202$	1		571.2	326.3	79.7	AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = .441$		2		483.2	233.5	172.5	3		378.2	143.0	263.0	4		275.2	75.7	330.3	5																																																														
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5																																																																																																			
Absolute Open Flow 441 Mscf @ 15.025				Angle of Slope 48.25		Slope .893																																																																																													
Remarks: No fluid during test.																																																																																																			
Approved by Company (Signature)		Conducted By: Bob McMurrian		Calculated by: Bob McMurrian		Checked By: Henry R. Holcomb																																																																																													

AMERADA HESS COMPANY

State W.E.B. No. 6
 C-F-1-21-35
 Lea County, New Mexico
 February 28, 1980

pc²-pw² (000's)

46 7400
 LOGARITHMIC
 3 X 3 CYCLES
 KEUFFEL & ESSER CO.



$Q = \text{mcf/day}$