

District I
PO Box 1900, Hobbs, NM 88241-1900
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Bruma Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-104
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210		OGRID Number 025575
		Reason for Filing Code CG - effective 10-1-95
API Number 30-0 05-61011	Pool Name Pecos Slope Abo	Pool Code 82730
Property Code 12168	Property Name Curtis QR Com	Well Number 1

II. Surface Location

UL or lot no. A	Section 26	Township 5S	Range 24E	Lot Ida	Feet from the 660	North/South Line North	Feet from the 660	East/West Line East	County Chaves
--------------------	---------------	----------------	--------------	---------	----------------------	---------------------------	----------------------	------------------------	------------------

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South Line	Feet from the	East/West Line	County
Lee Code P	Producing Method Code F	Gas Connection Date		C-129 Permit Number		C-129 Effective Date		C-129 Expiration Date	

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
015694	Navajo Refining Co. P.O. Drawer 159 Artesia, NM 88210	2741210	O	Unit A - Section 26-T5S-R24E
147831	Agave Energy Co. 105 S. 4th St. Artesia, NM 88210	2741230	G	Unit A - Section 26-T5S-R24E
				RECEIVED
				VAR 2 8 1996
				OIL CON. DIV.

IV. Produced Water

POD 2741250	POD ULSTR Location and Description Unit A - Section 26-T5S-R24E
----------------	--

V. Well Completion Data

Spud Date	Ready Date	TD	PBTD	Perforations
Hole Size	Casing & Tubing Size	Depth Set	Sacks Cement	

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Csg. Pressure
Choke Size	Oil	Water	Gas	AOF	Test Method

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Rusty Klein		OIL CONSERVATION DIVISION Approved by: CRISTINA L. GUN DISTRICT SUPERVISOR	
Printed name: Rusty Klein		Title:	
Title: Production Clerk		Approval Date: MAR 2 1996	
Date: 3-26-96	Phone: 505-748-1471		
If this is a change of operator fill in the OGRID number and name of the previous operator			
Previous Operator Signature		Printed Name	Title Date

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-7-81		DEC 30 1981	
Company YATES PETROLEUM				Connection TRANSWESTERN			
Well Pecos Slope - Abo Gas UNDESIGNATED				Formation ABO		Unit O. C. D. A ARTESIA, OFFICE	
Completion Date 9-4-81		Total Length 4300		Plug Back TD 4164		Elevation 3951 KB	
Casing Size 4.500		Set At 9.5 5.090 4210		Perforations: From 3674 To 3946		Well No. 1	
Tubing Size 2.375		Set At 4.7 1.995 3906		Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. A 26 5S 24E	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE				Packer Set At NONE		County CHAVES	
Producing thru TUBING		Reservoir Temp. °F 107° 3810		Mean Annual Temp. °F 60		Baro. Press. - P ₀ 13.2	
L 3810		H 3810		G _g 655		Prover 2"	
				% CO ₂ .42		% H ₂ S 6.36	
						Meter Run 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
1	2.00	X	1.375	365	42	68	820	70			72 HRS.
2	2.00	X	1.375	375	47	68	765	71			24
3	2.00	X	1.375	390	47	68	755	71			24
4	2.00	X	1.375	400	54	71	665	74			24
5											

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	10.4600	126.03	378.2	.9924	1.2356	1.0320	1668
2	10.4600	135.08	388.2	.9924	1.2356	1.0331	1790
3	10.4600	137.66	403.2	.9924	1.2356	1.0342	1826
4	10.4600	149.37	413.2	.9896	1.2356	1.0336	1975
5							

NO.	P ₀	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	.57	528	1.48	.939			.6550		661	356
2	.59	528	1.48	.937						
3	.61	528	648	.935						
4	.62	531	1.49	.936						
5										

$P_c = 1122.4$ $P_w^2 = 1259.8$				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.9623$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4008$	
NO.	P _w	P _w ²	P _c ² - P _w ²				
1	941.3	886.0	374.				
2	885.7	784.5	475				
3	876.1	767.6	492				
4	786.2	618.2	642				
5							

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2766.6$			
Absolute Open Flow		2766.6 Mcfd @ 15.025	
Angle of Slope		63.4	
Slope, n		.5000	

Remarks: STATIC PRESSURE BY BENNETT WIRELINE, FLOWING PRESSURE BY DWT CALCULATIONS.
WOHLFORD & JENKINS COMPUTER PROGRAM CALCULATIONS ATTACHED IN LIEU OF WORKSHEET C 122D

Approved By Division	Conducted By: DAVID WEAVER	Calculated By: WOHLFORD & JENKINS	Checked By: RAY STALL
----------------------	-------------------------------	--------------------------------------	--------------------------

YATES PETROLEUM CORP.

CURTIS GR No. 1

UNIT A SEC 26, T.5S, R.24E

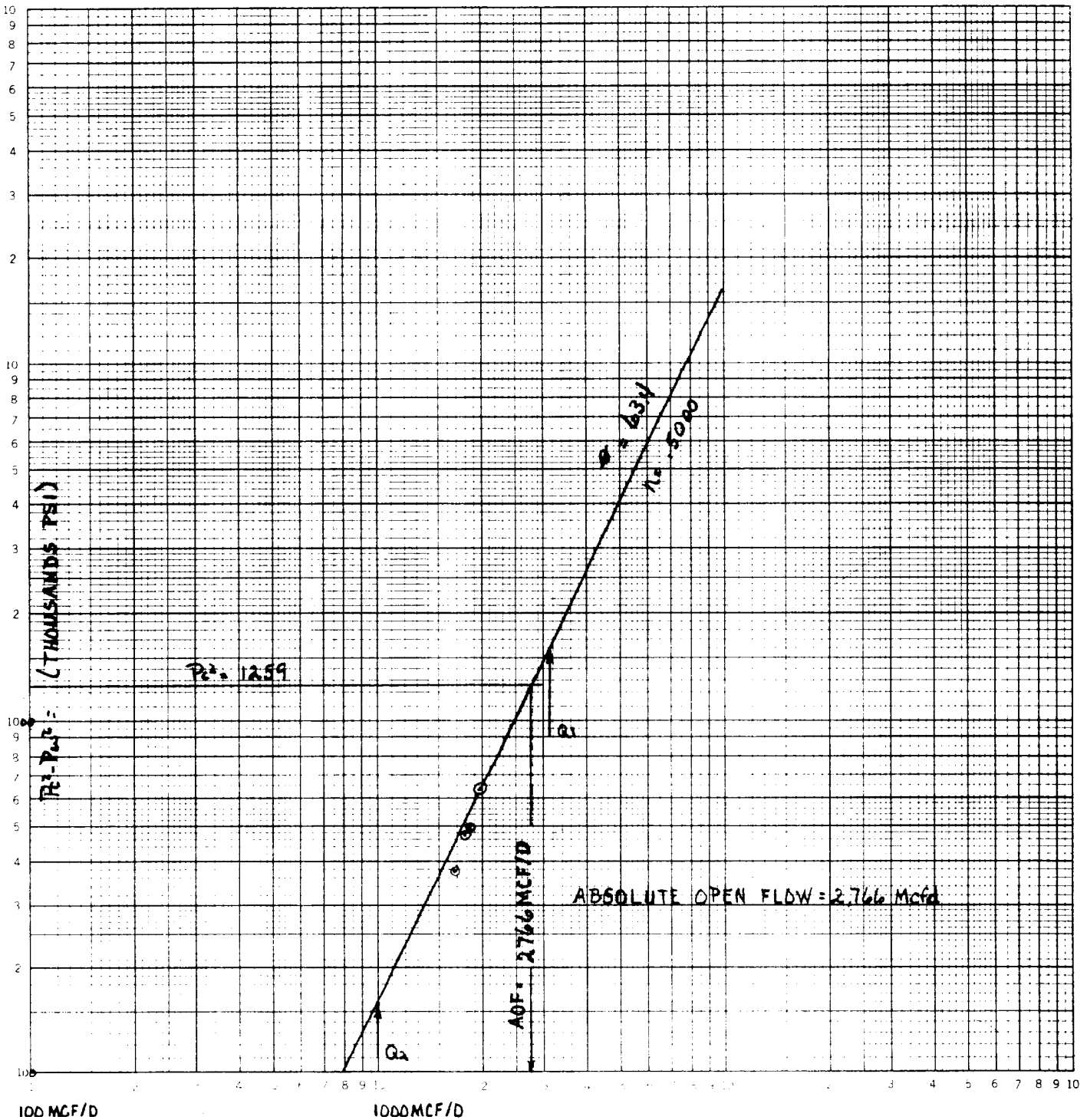
CHAVES COUNTY

NEW MEXICO

NOVEMBER 27, 1981

46 7400

LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



$$\Delta P_1 \quad P_c^2 - P_w^2 = 3163$$

Q , Mcfd

$$\Delta P_2 \quad P_c^2 - P_w^2 = 1000$$

$$Q_1 = 1600 \text{ Mcfd}$$

$$Q_2 = 160 \text{ Mcfd}$$

$$\log Q_1 = 3.50009$$

$$\log Q_2 = 3.00000$$

$$n = \frac{3.50009 - 3.00000}{0.50009} = 0.500$$

