

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

State of New Mexico
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

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- 60788	Pool Name Pecos Slope Abo	Pool Code 82730
Property Code 12448	Property Name Kuykendall OP	Well Number 1

II. Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
A	11	6S	25E		660	N	660	E	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
Log 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	2786410	O	Unit A Section 11-T6S-R25E
147831	Agave Energy Co. 105 S. 4th St. Artesia, NM 88210	2786430	G	Unit A - Section 11-T6S-R25E

IV. Produced Water

POD	POD ULSTR Location and Description
2786450	Unit A - Section 11-T6S-R25E

V. Well Completion Data

Spud Date	Ready Date	TD	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: <i>Rusty Klein</i>		OIL CONSERVATION DIVISION Approved by: ORIGINAL SIGNED BY TIM W. GUM DISTRICT II SUPERVISOR	
Printed name: Rusty Klein		Title: JUN 10 1996	
Title: Production Clerk		Approval Date:	
Date: 4-12-96	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

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

Form C-122
Revised 9-1-63

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 1-26-81		MAR 25 1981		
Company Yates Petroleum Corporation			Connection Transwestern Pipeline Co.			
Pool <i>Pecos Slope - Abo Gas</i> Indesignated Abo			Formation Abo			
Completion Date 11-20-80		Total Depth 4400 KB		Plug Back TD 4240 KB		
Casing Size 5 1/2		Well 14#		Set At 5.012# 4260		
Tubing Size 2 7/8		Well 6.5#		Set At 2.441# 3920		
Type Well - Single - Noddenhead - G.O. or G.O. Multiple Single			Packer Set At 3920 KB		Farm or Lease Name Kuykendall "OP" Com	
Producing Thru Tubing			Reservoir Temp. °F 101 @ 3977 KB		Mean Annual Temp. °F 62	
Baro. Press. - P _a 13.2			State New Mexico			
L 3972		H 3972		Cg 0.660		
% CO ₂ 1.87		% N ₂ 4.44		% H ₂ S N.7		
Prover ----		Meter Run 2"		Taps Flanged		

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							1005	68			Days
1.	2.016 X 1.125			570	13	66	974	71			16 hrs.
2.	2.016 X 1.125			560	24	66	950	73			24 hrs.
3.	2.016 X 1.125			500	46	70	910	74			24 hrs.
4.	2.016 X 1.125			500	72	66	855	75			24 hrs.
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, Mcfd
1	6.393	87.07	583.2	.9943	1.232	1.0523	718
2	6.393	117.29	573.2	.9943	1.232	1.0514	966
3	6.393	153.65	513.2	.9905	1.232	1.0446	1252
4	6.393	192.22	513.2	.9943	1.232	1.0457	1574
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	0.871	5.26	1.451	.9031	2188.5	59.3	0.659	XXXXXX	669.5	362.5
2	0.856	5.26	1.451	.9046				XXXXXX	669.5	363
3	0.767	5.30	1.462	.9165				XXXXXX		
4	0.767	5.26	1.451	.9145						
5										

NO.	P _r ²	P _w ²	R _w ²	P _c ² - R _w ²
1			1206	76
2			1148	134
3			1056	226
4			937	345
5				

$$(1) \frac{P_c^2}{R_w^2 - R_w^2} = 3.7159$$

$$AQF = Q \left[\frac{R_w^2}{P_c^2 - R_w^2} \right]^n = 3077$$

$$(2) \left[\frac{P_r^2}{R_w^2 - R_w^2} \right]^n = 1.9549$$

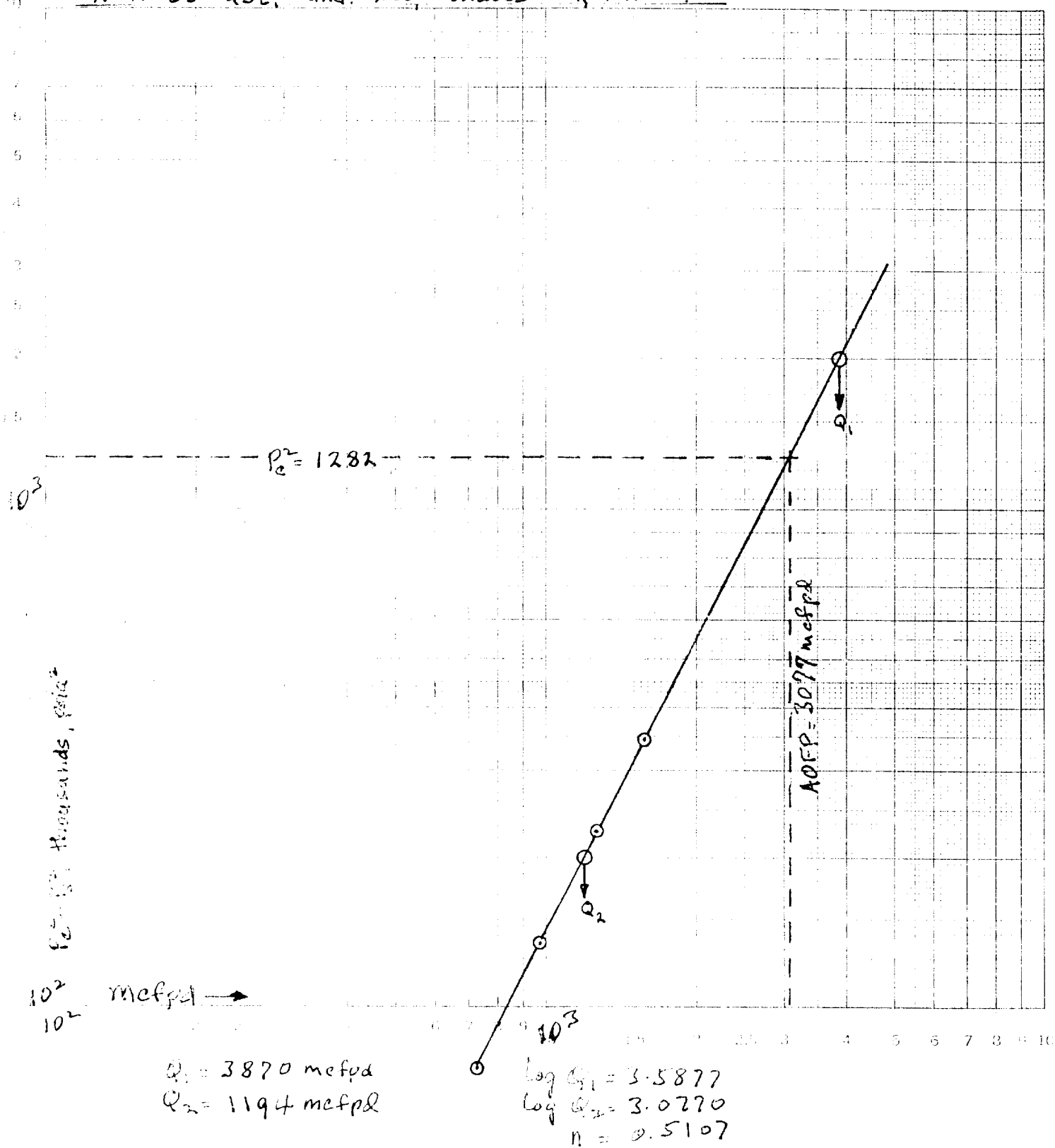
Absolute Open Flow	3077	Mcfd @ 13.025	Angle of Slope	59.94 deg.	Slope, n	0.5107
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Remarks: BHP by Bennett Wireline, tubing pressure by DWT.

Approved By Commission:	Conducted By: David Weaver	Calculated By: Eddie Mahfood	Checked By:
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YPC - Kuykendall OP Com. No.1

A-11-65-25E. Und. Abo, Chaves Co., N.Mex.



COMPANY _____ LEASE _____ WELL NO. _____ DATE _____

LOCATION: Unit _____ Section _____ Township _____ Range _____

L _____ H _____ L/H _____ % CO₂ _____ % N₂ _____ % H₂S _____
d _____ F₁ _____ GH _____ P_{Gr} _____ T_{Gr} _____

LINE	S1	1	2	3	4	5	6	7	8	9	10	11
1 Qm		0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22 Tm (H.H. PB)	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ILLEGIBLE

2 0.3505 0.0054 0.0059 0.0065 0.0072