

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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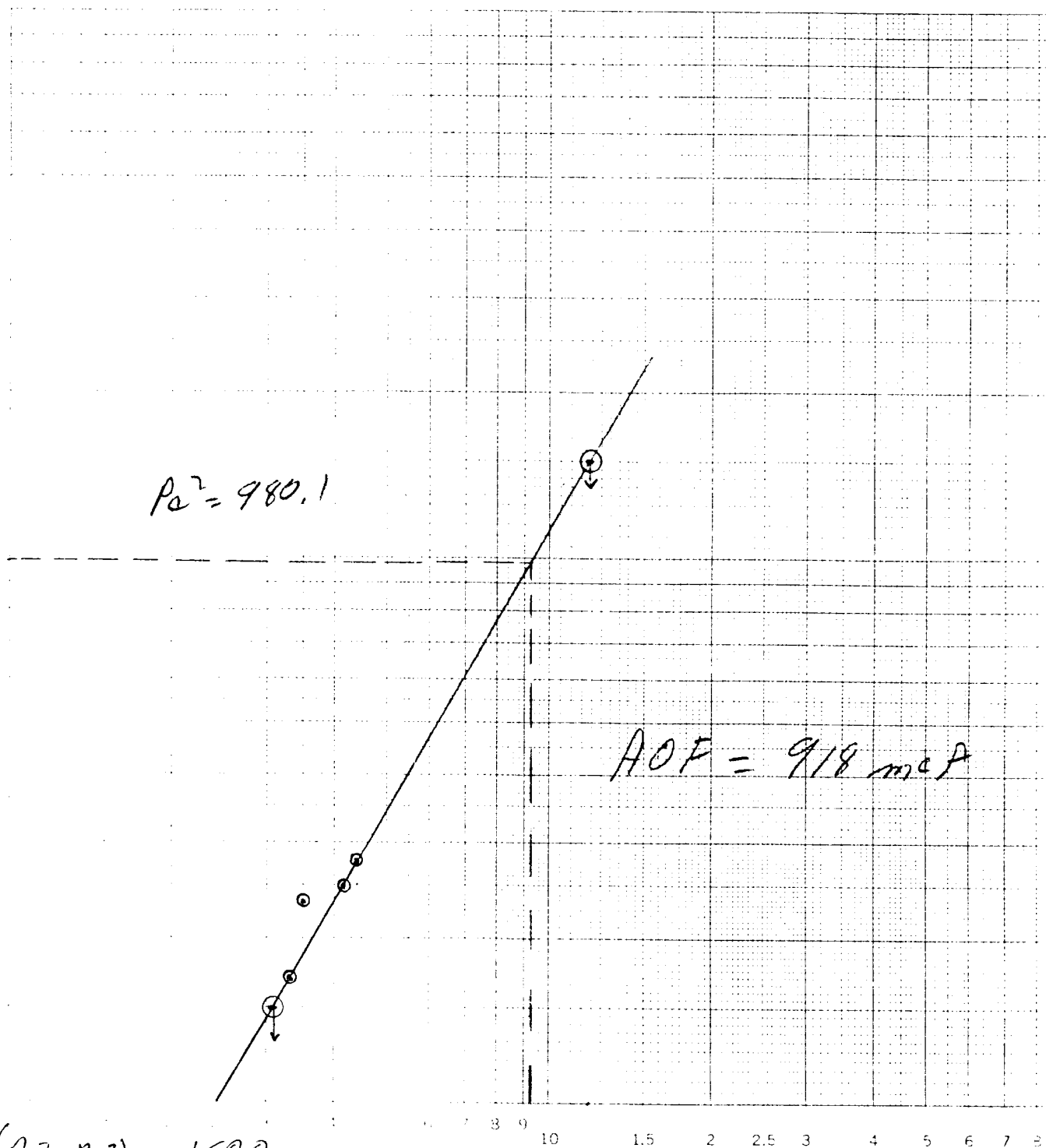
JUL 28 1982

O. C. D.
ARTESIA, OFFICE

Form or Lease Name
Coffman NY Federal

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-31-82	
Company Yates Petroleum Corporation		Connection Transwestern Pipeline Company	
Pool Pecos Slope Abo		Formation Abo	
Completion Date 3-25-82		Total Depth 4200'	Plug Back TD 4093'
Elevation 3625.7' GR		Well No. 2	
Casing Size 4-1/2"	WT. 9.5#	d 4.090	Set At 4190'
Perforations: From 3695 To 3891	Well No. 2		
Tubg. Size 2-3/8"	WT. 4.7#	d 1.995	Set At 3654
Perforations: From - To -	Unit Sec. Twp. Rge. A 25 7S 25E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At -	County Chaves
Producing Thru tubing	Reservoir Temp. °F 100 @ 3654	Mean Annual Temp. °F 62	Buro. Press. - P _c 13.2
State New Mexico		Prover -	
L 3654	H 3654	G _g .665	% CO ₂ 2.25
% N ₂ 5.56	% H ₂ S -	Meter Run 2"	Taps Flanged
FLOW DATA			
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.
SI			
1.	2.067 x .875		195
2.	2.067 x .875		195
3.	2.067 x .875		200
4.	2.067 x .875		200
5.			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	3.729	67.7	208.2
2	3.729	75.3	208.2
3	3.729	88.3	213.2
4	3.279	94.7	213.2
5			
NO.	P _t	Temp. °R	T _r
1	.31	520	1.47
2	.31	520	1.47
3	.32	522	1.47
4	.32	522	1.47
5			
Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
Specific Gravity Separator Gas .665		X X X X X X X X	
Specific Gravity Flowing Fluid X X X X X			
Critical Pressure 667		P.S.I.A. 667	
Critical Temperature 355		R 355	
P _c 990 P _c ² 980.1			
NO.	P _w	P _w ²	P _c ² - P _w ²
1	811.6	812.8	167.5
2	745.6	747.1	233.0
3	728.0	730.1	250.0
4	702.6	705	275.1
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.563$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.087$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 918$ mcf			
Absolute Open Flow 918		Mcf @ 15.025	
Angle of Slope		Slope, n .579	
Remarks:			
Approved By Division			
Conducted By: David Weaver		Calculated By: Brent Mulliniks	
Checked By:			

$P_{01} = 10$
 $P_{01} / P_{02} = 2$
 25-7-25



$$(P_c^2 - P_w^2)_1 = 1500$$

$$(P_c^2 - P_w^2)_2 = 150$$

$$Q_1 = 1175$$

$$Q_2 = 310$$

$$\log Q_1 = 3.07004$$

$$\log Q_2 = 2.49136$$

$$N = .57868 \quad N = .579$$

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

MAR 29 1982

O. C. D.

ARTESIA, OFFICE

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

WELL INFORMATION	2
LAND OFFICE	1
FILE	1
VELOS	1
LAND OFFICE	1
TRANSPORTER	1
OPERATION	1
PRODUCTION OFFICE	1
Operator	

Yates Petroleum Corporation

Address

207 South 4th St., Artesia, NM 88210

Reason(s) for filing (Check proper box)

New Well

☒

Change in Transporter of:

Recompletion

☐

Oil

☐

Dry Gas

☐

Change in Ownership

☐

Casinghead Gas

☐

Condensate

☐

Other (Please explain)

If change of ownership give name
and address of previous owner

DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Name, including Formation	Kind of Lease	Lease No.
Coffman NY Federal	2	Wildcat Abo	NM 12125 State, Federal or Fee Federal	

Location

Unit Letter: A : 660 Feet From The North Line and 660 Feet From The East

Line of Section 25 Township 7S Range 25E NADP Chaves County

IDENTIFICATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒	Address (Give address to which approved copy of this form is to be sent)
Navajo Crude Oil Purchasing Co.	Box 159, Artesia, NM 88210
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒	Address (Give address to which approved copy of this form is to be sent)
Transwestern Pipeline Co.	Box 2521, Houston, TX 77001
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
A 25 7S 25E	Yes approx 6-8 wks 5-27-82

If this production is commingled with that from any other lease or pool, give commingling order number

COMPLETION DATA

Designate Type of Completion - (X)	Oil well	Gas well	New well	Recover	Deepen	Plug Back	Same Res't	Diff. Res't
		X	X					
Date completed	Date Comp. Res't to 1 in.	Total Depth	F.B.T.D.					
2-22-82	3-25-82	4200'	4093'					
Elevations (D.F., R.L.B., R.T., G.R., etc.)	Name of Producing Formation	Top Oil/Gas Day	Tubing Depth					
3625.7' GR	Abo	3695'	3654'					
Perforations						Depth Casing Shoe		
3695-3891'						4190'		

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
24"	20"	30'	
12-1/4"	8-5/8"	850'	700
6-1/4"	4-1/2"	4190'	350
	2-3/8"	3654'	

TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of lead oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing method (Flow, pump, gas lift, etc.)	
Length of Test	Testing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
249	4 hours	-	-
Testing Method (pilot, back pr.)	Testing Procedure (shut-in)	Casing Pressure (shut-in)	Choke Size
Back Pressure	225	-	1/2"

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations 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.

Engineering Secretary

3-26-82

OIL CONSERVATION DIVISION

APPROVED

JUN 7 1982

BY

SUPERVISOR, DISTRICT II

TITLE

This form is to be filed in compliance with RULE 110.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a calculation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Section 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

NEW MEXICO OIL CONSERVATION DIVISION

P. O. DRAWER "DD"

ARTESIA, NEW MEXICO 88210

RECEIVED

JUN 4 1982

O. C. D.
ARTESIA OFFICE

NOTICE OF GAS CONNECTION

DATE June 2, 1982

This is to notify the Oil Conservation Division that connection for the
purchase of gas from the Yates Petroleum Corp.

Operator

Coffman "NY" Federal

Lease

Well #2-Unit Letter "A"

Well Unit

25-7S-25E, Chaves County

S.T.R.

Recess Slope
Wildcat (Abo)

Pool

Transwestern

Name of purchaser

was made on May 27, 1982

Transwestern Pipeline Company
Company

H. N. Aicklen

H. N. Aicklen
Representative

Supervisor Gas Purchase Contract Administration
Title

cc: Operator
Oil Conservation Division - Santa Fe