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Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

+ C/SF
OP
GT
LT

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator YATES PETROLEUM CORPORATION		Well API No. 30-015-23272
Address 105 South 4th St., Artesia, NM 88210		
Reason(s) for Filing (Check proper box) New Well ☐ Change in Transporter of: ☒ Other (Please explain) Recompletion ☐ Oil ☒ Dry Gas ☐ EFFECTIVE DATE January 1, 1991 Change in Operator ☐ Casinghead Gas ☐ Condensate ☐		
If change of operator give name and address of previous operator		

II. DESCRIPTION OF WELL AND LEASE

Lease Name Dixon Yates LM Fed,	Well No. 1	Pool Name, Including Formation Loco Hills Wolfcamp	Kind of Lease State, <u>Federal</u> or Fee	Lease No. LC-067348
Location Unit Letter <u>G</u> : <u>1680</u> Feet From The <u>North</u> Line and <u>1980</u> Feet From The <u>East</u> Line Section <u>28</u> Township <u>18S</u> Range <u>29E</u> , NMPM, Chaves County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ Amoco Pipeline Intercorporate Trucking	Address (Give address to which approved copy of this form is to be sent) PO Box 702068, Tulsa, OK 74170-2068	
Name of Authorized Transporter of Casinghead Gas ☒ or Dry Gas ☐	Address (Give address to which approved copy of this form is to be sent)	
If well produces oil or liquids, give location of tanks.	Unit G	Sec. 28
	Twp. 18S	Rge. 29E
	Is gas actually connected? NO	
When ?		

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

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations					Depth Casing Shoe DEC 14 '90			
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
					ARTESIA, OFFICE			
					PO BOX 703			
					12-21-90			
					C/SF: NRC			

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load 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 Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing 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/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR 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.

Juanita Goodlett JLG
Signature
Juanita Goodlett - Production Supvr.
Printed Name
12-14-90
Date
(505) 748-1471
Telephone No.

OIL CONSERVATION DIVISION

Date Approved

DEC 14 1990

By

Mike Williams

Title

SUPERVISOR, DISTRICT II

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

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

Form C-122

RECEIVED

SEP 18 '90

Type Test [x] Initial [] Annual [] Special					Test Date 11-11-85			
Company Yates Petroleum Corporation					Connection Transwestern Pipeline Company		O. C. D. ARTESIA, OFFICE	
Pool North Turkey Track					Formation Cisco		Unit	
Completion Date 10-12-88		Total Depth 11500.0'		Plug Back TD 10415.0'		Elevation 3451.0'		Farm or Lease Name Dixon-Yates LM Fed
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 11423.0'	Perforations: From 9792.0' To 9810.0'			Well No. 1	
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 9740.0'	Perforations: From 0.0' To 0.0'			Unit Sec Twp Rge G 28 18 29	
Type Well Single					Packer Set At 9740.0'		County Eddy	
Producing Thru Tubing		Resv. Temp. °F 180 @ 10655'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico
L 9740.0'	H 9740.0'	Gg .733	%CO2 .37	%N2 1.41	%H2S 0.00	Prover 0.000"	Meter Run 2.000"	Taps Flange

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO	Prover Orifice Size X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	
SI	0.000 X 0.000	0	0.0	51	540	0	0	0	0 hrs.
1.	2.067 X .750	440	4.0	52	460	62	0	0	24 hrs.
2.	2.067 X .750	445	10.0	50	442	62	0	0	24 hrs.
3.	2.067 X .750	450	12.9	51	303	62	0	0	24 hrs.
4.	2.067 X .750	460	20.4	49	95	62	0	0	24 hrs.
5.	0.000 X 0.000	0	0.0	0	0	0	0	0	0 hrs.

RATE OF FLOW CALCULATIONS

NO	Coefficient (24 HOUR)	/hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	2.709	42.58	453.20	1.008	1.168	1.060	144
2.	2.709	67.69	458.20	1.010	1.168	1.062	230
3.	2.709	77.30	463.20	1.009	1.168	1.062	262
4.	2.709	98.25	473.20	1.011	1.168	1.065	335
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.	Specific Gravity Separator Gas .733	Specific Gravity Flowing Fluid .733	Critical Pressure 666.6 PSIA	Critical Temperature 395.3°R
1.	.68	512	1.30	.889						
2.	.69	510	1.29	.886						
3.	.69	511	1.29	.886						
4.	.71	509	1.29	.882						
5.	0.00	0	0.00	0.000						

Pc	553.2	Pc ²	306.0								
NO	Pt ²	Pw	Pw ²	Pc ² -Pw ²	(1)	$\frac{Pc^2}{Pc^2-Pw^2} = \frac{1.0487}{}$	(2)	$\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = \frac{1.0319}{}$			
1.	223.9	474.0	224.7	81.4							
2.	207.2	457.3	209.1	96.9							
3.	100.0	320.2	102.5	203.5							
4.	11.7	126.6	16.0	290.0							
5.	0.0	0.0	0.0	0.0							

ROF = 0 $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = \underline{\underline{345 \text{ Mcfd}}}$

$$ROF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 345 \text{ Mcfd}$$

Absolute Open Flow 345 Mcfd @ 15.025 Angle of Slope, 0 33 Slope, n .662
Remarks:

Approved By:	Conducted By: David Weaver	Calculated By: Priscilla Sanchez	Checked By:
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WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (Pw) C-122D

Adopted 9-1-65

DATE 08-16-90

COMPANY Yates Petroleum Corporation LEASE Dixon-Yates LM Fed WELL NO. 1

LOCATION: Unit G Section 28 Township 18 Range 29

L 9740.0 H 9740.0 L/H 1.000 G .733 %O2 .37 %N2 1.41 %H2S 0.00

d 1.995 Fr .017777 GH 7139.4 Pcr 666.6 Tcr 395.3

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.144	.230	.262	.335	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	640.0	640.0	640.0	640.0	0.0
4 T=(Tw+Ts)/2	581.0	581.0	581.0	581.0	0.0
5 Z(Est.)	.915	.918	.943	.981	0.000
6 TZ	531.8	533.6	548.2	570.0	0.0
7 GH/TZ	13.425	13.379	13.024	12.525	0.000
8 e ^s (Table XIV)	1.654	1.652	1.630	1.599	0.000
9 1-e ^{-s} (Table XIV)	.396	.395	.386	.375	0.000
10 Pt	473.2	455.2	316.2	108.2	0.0
11 Pt ² /1000	223.9	207.2	100.0	11.7	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	9.454	9.486	9.745	10.134	0.000
14 FcQm	1.361	2.179	2.555	3.391	0.000
15 L/H(FcQm) ²	1.853	4.749	6.526	11.500	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	.733	1.873	2.521	4.310	0.000
17 Pw ² =Pt ² +Fw	224.7	209.1	102.5	16.0	0.0
18 Ps ² =e ^s Pw ²	371.7	345.3	167.1	25.6	0.0
19 Ps	609.6	587.6	408.7	160.1	0.0
20 P=(Pt+Ps)/2	541.4	521.4	362.5	134.1	0.0
21 Pr=(P/Pcr)	.81	.78	.54	.20	0.00
22 Tr=(T/Tcr)	1.47	1.47	1.47	1.47	0.00
23 Z(Table XI)	.915	.918	.943	.981	0.000

Company	Yates Petroleum Corporation
Well	Dixon-Yates LM Fed No. 1
Location	G, 28-18-29
County	Eddy
Date	08-16-98

