



DIRECTOR
JOE D. RAMEY

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. DRAWER DD - ARTESIA
88210

LAND COMMISSIONER
PHIL R. LUCERO



STATE GEOLOGIST
EMERY C. ARNOLD

September 22, 1977

Yates Petroleum Corporation
207 South 4th Street
Artesia, NM

Artesia District Office
Administrative Order No. DHC II-7

Gentlemen:

In accordance with the provisions of Commission Order No. R-5460 approval is hereby granted for the downhole commingling of the Strawn and Morrow zones within the well-bore of your Federal GC Com #1-P, Sec. 32-T17S-R25E.

Allocation of production from the well shall be on the following basis:

Eagle Creek Strawn Gas Pool = 55% of gas and no condensate
Richard Knob-Atoka-Morrow Gas Pool = 45% of gas and 100% condensate

Pursuant to said Order No. R-5460, the commingling authority granted by this order may be rescinded by the Secretary Director if, in his opinion, waste or reservoir damage is resulting thereby, or if any change of conditions render the installation no longer eligible for downhole commingling.

Sincerely yours,

W. A. Gressett
W. A. Gressett

Supervisor, District II

WAG:jw

Xc: OCC Santa Fe, NM
Attn: Mr. Stamets
Transporters TWP & NCO

AMOCG COPY

SUBMIT IN TRIPLI
(Other Instructions
verse side)Form approved,
Bridget Bureau No. 42-R1424DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.

NM 3603

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Yates Petroleum Corporation

3. ADDRESS OF OPERATOR

207 South Fourth Street - Artesia, NM 88210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)

At surface

660' FSL & 660' FEL of Section 32-17S-25E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3604' KB

12. COUNTY OR PARISH

Eddy

13. STATE

NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) Downhole commingling

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

XX

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This well was initially completed in the Morrow, then temporarily abandoned by setting a blanking plug in the Morrow packer and recompleting the well in the Strawn. We now propose to re-open the Morrow pay and commingle with the Strawn as provided for by OCC Rule R5460 dated June 14, 1976. Commingling will be achieved by replacing the blanking plug in the Morrow packer with a standing valve (see diagrammatic sketch). We propose to apportion commingled production on the basis of remaining reserves, as follows:

Eagle Creek Strawn - 55% gas, no condensate

Richard Knob Morrow - 45% gas, 100% condensate

RECEIVED

JAN 9 1978

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Engineer

DATE

8-30-77

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

JAN 9 1978

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Federal GC well, P-32-17s-2SE, Richard Knob (Morrow), ~~Edg~~

7-20-76 - Pt Morrow 8202-32, flowed 170" on 1/2" ch, S10 N, S17 P-2388"

Calc SIHP = 3111 psi. Then flowed well 2 hrs @ 170" on 1/2" ch = 97 Mcf

7-22-76 - Trtd pfs 8202-32 w/ 2500g. 7 1/2% MSA + N₂ & flowed back

50 3/4 hrs @ 245" on 1/2" ch = 3439 ~

7-27-76 - 72 hr. SIHP - 2487 psi

8-18-76 - Frac'd pfs 8202-32 w/ 24000' 27/40 in 16700g. 3% MSA + CO₂

flowed back 6 1/4 hrs @ 245" on 3/4" ch = 964 ~

8-21-76 - 49 hr SIHP - 2248 psi

4-500 Mcf

P _i	T _i	Z
462	1.68	.860
3.34	1.68	.859
0.14	1.68	.991

$$\frac{P_0}{Z_0} = \frac{3124}{0.860} = 3633$$

$$\frac{P_1}{Z_1} = \frac{2261}{0.859} = 2632$$

$$\frac{P_a}{Z_a} = \frac{93}{0.991} = 94$$

$$\text{Remaining Reserves} = 45 \frac{P_{1/2} - P_a}{P_{1/2} - P_1} = 45 \frac{2652 - 94}{3653 - 2632} = 11.4 \text{ MMcf}$$

Propose to Apportion future commingled production as follows:

Richard Knob - Morrow - 11.4 MMcf - ~~55.4~~ 45%, 100% of condensate

Eagle Creek - Strawn - $\frac{13.7}{25.1}$ MMcf - ~~54.6~~ 55%, no condensate

Commingling will extend production life of well thereby
conserving a natural resource

John

YATES PETROLEUM CORP.
Federal "GC" No. 1
660' FSL & FEL
Sec. 32, 17 S., 25 E.
Eddy County, New Mexico

29. Completed in Strawn

Elevation 3588' GR

Spudded : 6-7-76
T.D. reached : 7-8-76
Strawn compl. : 9-29-76
Morrow compl. : 7-20-76

Top of San Andres @ 712' KB
Base of Artesia Water Zone
@ 1005' KB

17 1/2" hole to 274' KB
13 3/8" 42# csg. set @ 274'
cmtd. w/ 175 sk.

12 1/4" hole to 1110' KB
8 5/8" 24# csg. set @ 1110'
cmtd. w/ 800 sk.

Top of Strawn @ 7517' KB

STRAWN ZONE
flowed 400 MCF/D 1/4" ck.

Top of cement @ 5950' KB
From Temp. Survey

2 3/8" tbg. set on pkr. @ 7805' KB

7 7/8" hole to 8400' KB
5 1/2" 17 1/2 15.5# csg. set @ 8334' KB
cmtd. w/ 500 sk.

Perf'd. 7854-7864 w/ 60 .32 shots
Treated w/ 1000 gal. 7 1/2% acid
w/ nitrogen, 100000 gal. 3% gelled
acid & CO₂, 10000# 20-40 sd.

Set Blanking Plug in on/off tool
@ 8166' KB

Top of Morrow @ 8183' KB

MORROW ZONE
flowed 3700 MCF/D 3/4" ck.

{ Propose to replace blanking plug with
a standing valve & commingle Richard Wells
Morrow with Eagle Creek Strawn

Perf'd. 8202-8232 w/ 4 SPF .32
Treated w/ 2500 gal. 7 1/2% MSA
w/ nitrogen ReT: w/ 16700 gal. 3%
MSA & CO₂, 24000# 20-40 sd.

PBTD 8292' KB

Schubert

WELL FEDERAL "GC" #1

FIELD WILDCAT - RICHARD'S KNOB AREA

COUNTY Eddy STATE New Mexico

660' ESC & 660' FEE	11
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Other Services:
DCL/MSFL

COUNTY _____
 FIELD _____
 LOCATION _____
 WELL _____

 COMPANY _____

AP	SERIAL NO	SEC	TWP	RANGE
	32		17-S	25-E

Permanent Datum: S.L.; Elev.: 3588
 Log Measured From K.B., 16 Ft. Above Perm. Datum
 Drilling Measured From K.B.

Elev.: K.B. 3609
D.F. 3603
G.I. 3588

7-7-76

Senior-Driver	8402
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3-1-1361-10-1	8370
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1100	1100
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STUDY FILE	E10301
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ET	Field loss	10.5
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2025-10-21

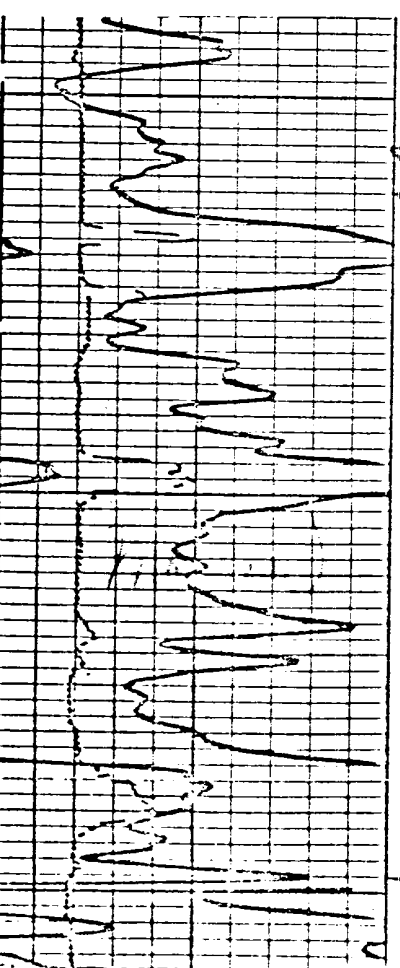
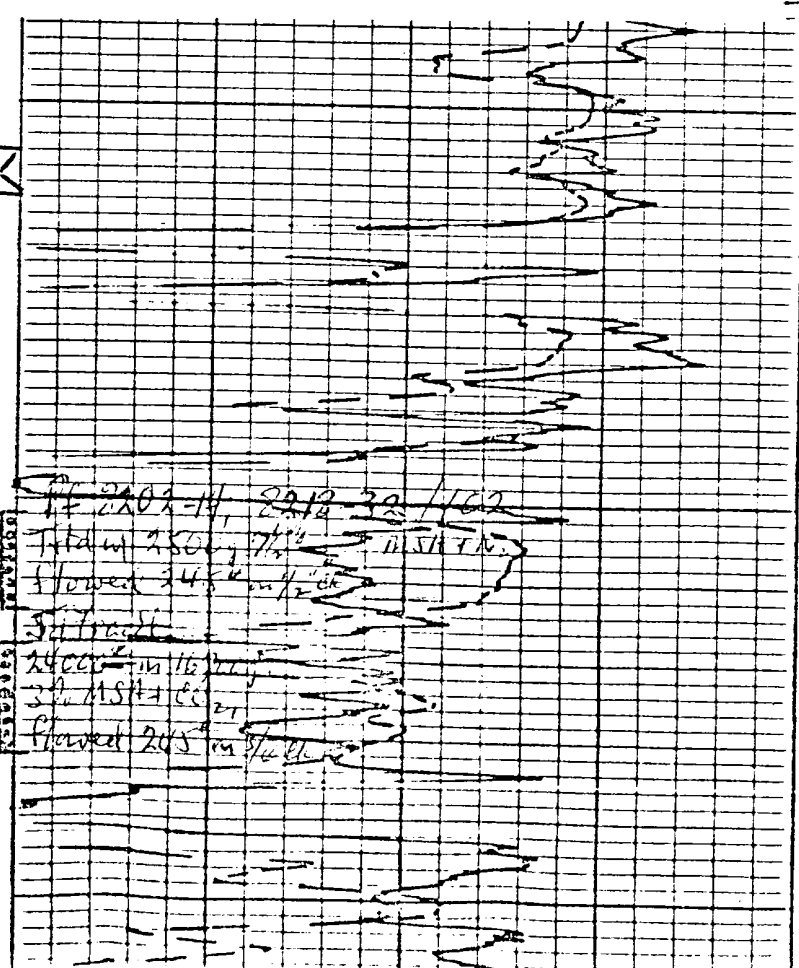
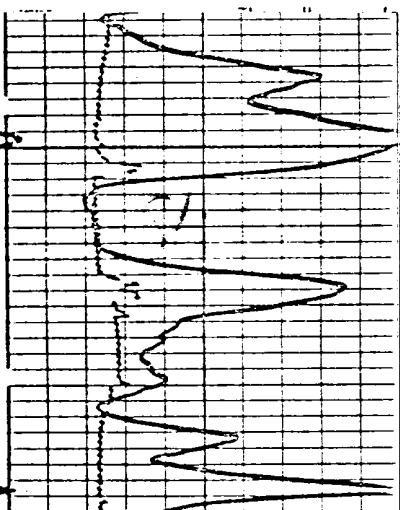
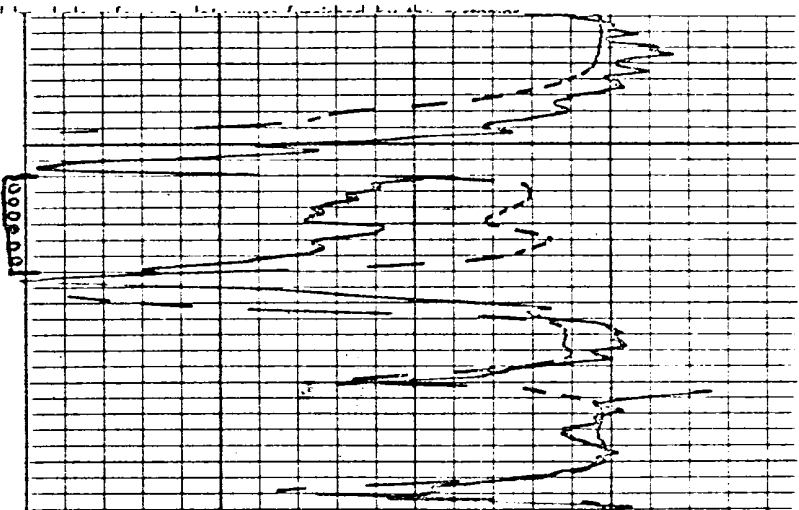
K-10	Mag. 1000	334
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2-1-11	.125
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100	100

7-22-3433y	KEB
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Dec-1



2201-14, 2212 32 / 102
 Total in 250 7 1/2% 11.5% T.N.
 Flowed 245 in 1/2" dia
 In front
 240cc in 16 1/2"
 220 11.5% T.N.
 Flowed 205 in 5/8" dia

$$= 13.92 - 5.2 \times 16.875 = 13.92 \text{ mm}^2$$