

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYAMOCC COPY
SUBMIT IN TRIPlicate
(Other instructions
verse side)3*
re-Form approved.
Budget Bureau No. 42-R1424.

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 a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐ SEP 13 1977

2. NAME OF OPERATOR
Yates Petroleum Corporation

3. ADDRESS OF OPERATOR
B.C.C.
ARTESIA, OFFICE
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

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal "GC"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Unit P Sec 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 ☐PULL OR ALTER CASING ☐FRACTURE TREAT ☐MULTIPLE COMPLETE ☐SHOOT OR ACIDIZE ☐ABANDON* ☐REPAIR WELL ☐CHANGE PLANS ☐

(Other) Downhole commingling

XX

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐REPAIRING WELL ☐FRACTURE TREATMENT ☐ALTERING CASING ☐SHOOTING OR ACIDIZING ☐ABANDONMENT* ☐(Other) ☐(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

AUG 31 1977

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

CONDITIONS OF APPROVAL, IF ANY:

Federal GC No. 1, P-32-175-2SE, Richard Knob (Morrow) ~~Edley~~

7-20-76 - Pf Morrow 8202-32, flowed 170" m 1/2" ck, S10 N, S1E P-2388"

Calc 8HP = 3111 psi. Then flowed well 2 hrs @ 170" m 1/2" ck = 92 mcf

7-22-76 - Trtd pfs 8202-32 w/ 2500g. 7 1/2% MSA + N₂ & flowed back
50 3/4 hrs @ 245" m 1/2" ck = 3439 ✓

7-27-76 - 72 hr SIBHP - 2487 psi

8-18-76 - Frac'd pfs 8202-32 w/ 24000" 2 3/4" in 16700g. 3% MSA + CO₂
flowed back 6 1/4 hrs @ 245" m 3/4" ck = 964 -
8-21-76 49 hr SIBHP - 2248 psi 4500 mcf

P _i	T _r	Z
462	1.68	.860
334	1.68	.859
814	1.68	.941

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

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

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

$$\text{Remaining Reserves} = 45 \left(\frac{P_{1/2} - P_a}{\frac{P_0}{Z_0} - \frac{P_1}{Z_1}} \right) = 45 \left(\frac{2632 - 94}{3633 - 2632} \right) = 11.4 \text{ MMcf}$$

Propose to Appartion future commingled production as follows:

Richard Knob - Morrow - 11.4 MMcf - - ~~54%~~ 45%, 100% of condensate

Eagle Creek - Strawn - 13.7 MMcf - - 54.6% 55%, no condensate
25.1

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

Edley

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

log. 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

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

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

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

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# csg. set @ 8334' KB
cmt'd. w/ 500 sx.

Perf'd. 7854-7864 w/ 60 .32 shots
Treated w/ 1000 gal. 7 1/2% acid
w/ nitrogen, 10000 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 & commingled Richard/Lind
Morrow with Eagle Creek Strawn

Perf'd. 8202-8232 w/ 45PF .32
Treated w/ 2500 gal. 7 1/2% MSA
w/ nitrogen ReT: w/ 16700 gal. 3%
MSA & CO₂, 24000# 20-40 sd.

