

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPlicate
(Other Instructions on
reverse side)Form approved
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 0219603

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal BZ Com.

9. WELL NO.

12

10. FIELD AND POOL, OR WILDCAT

Eagle Creek Permo Penn. Twp

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

Unit K, Sec. 21-17S-25E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)1. OIL WELL ☐ GAS WELL ☒ OTHER ☐ MAY 31 1979

2. NAME OF OPERATOR

Yates Petroleum Corporation

O. C. C.

ARTESIA, OFFICE

3. ADDRESS OF OPERATOR

207 S. 4th Street, Artesia, New Mexico 88210

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

At surface

1980' FSL 1980' FWL of Sec. 21-17S-25E

14. PERMIT NO.

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

3587 KB

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 Commingle

X

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 is marginal in the Eagle Creek Strawn and Eagle Creek Permo Penn. The Strawn completion has been temporarily abandoned since December 1978. We propose now to re-open the Strawn completion and commingle with the Permo-Penn by pulling tubing and packer from 6367, retrieve bridge plug from 6897, rerun tubing with sliding sleeve in open position and tie into the Strawn packer @ 7568, swap out blanking plug for standing valve and swab well in. Future commingled production would be allocated on basis of remaining recoverable reserves as follows: (Effective June 1, 1979).

Eagle Creek Strawn - 85% Gas and Condensate
Eagle Creek Permo Penn -15% Gas and Condensate

Downhole Commingling in these pools permitted under NMO Case No. 5910, June 14 1977.

MAY 31 1979

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED

Eddie L. Stall

TITLE

Engineer

DATE

5/30/79

(This space for Federal or State office use)

(Orig. Sgd.) ALBERT R. STALL

ACTING DISTRICT ENGINEER

APPROVED BY

TITLE

DATE MAY 31 1979

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Calculations for Remaining Reserves in Federal BZ No 12

Eagle Creek Strawn

Pfs 7639-7645; Cum Prod: 15031 mcf

Orig BHP = 2772.7 psia BHT = 591°R, $P_c = 672$, $T_c = 368$, $Z_o = .8225$

4/78 BHP = 1298.2 psia

$P_R = 1.932$ $T_R = 161.6$
 $Z_1 = .867$

Abn BHP = 8%(2772.7) = 221.8 psia

$P_R = .33$ $T_R = 16.6$
 $Z_a = .974$

$$\text{Remaining Reserves} = \frac{P_{1/2} - P_{a/2a}}{P_{d/2} - P_{1/2}} N_p = \frac{1298.2/.867 - 221.8/.974}{2772.7/.8225 - 1298.2/.867} (15031) \text{ mcf}$$

$$= \frac{1497.3 - 255.8}{3371.1 - 1497.3} (15031) \text{ mcf} = 9960 \text{ mcf}$$

Eagle Creek Permian

Pfs 6392-96, 6680-92, 6812-36; Cum Prod to 4/1/79 = 1562 mcf

Orig BHP = 1994.2 psia, BHT = 588°R, $P_c = 678$, $T_c = 377$; $P_R = 2.94$, $T_R = 1.546$, $Z_o = .801$

4/79 BHP = 1196.2 psia

$P_R = 1.764$, $T_R = 1.54$, $Z_1 = .8545$

Abn BHP = 199.4 psia

$P_R = .294$, $T_R = 1.546$, $Z_a = .973$

$$\text{Remaining Reserves} = \frac{P_{1/2} - P_{a/2a}}{P_{d/2} - P_{1/2}} N_p = \frac{1196.2 - 199.4}{1994.2 - 1196.2} (1562) \text{ mcf}$$

$$= \frac{1399.9 - 204.9}{2489.6 - 1399.9} (1562) \text{ mcf} = 1713 \text{ mcf}$$

Suggested Proportion of Future Production, Commingling effective 6-1-79 is:

Eagle Creek Strawn: 9960 mcf or 85% Gas (and Condensate)

Eagle Creek Permian: 1713 mcf or 15% Gas (and Condensate)

Yates Petroleum Corp
By Eddie McManis
5-24-79

[illegible]

YPC - Federal 12 No. 12 (NM 0219603), -21-17s-2SE, Eddy Co., N.M.
 Diagrammatic Sketch of Proposed Dual Completion, & Downhole Commingling

Elevation 3572' = 3587' KB

Spudded 9-12-75

Init Compl 10-18-75 (Strawn)

Re-Complete 11-28-78 (Permo Penn)

Top of San Andres - 749

Base of Artesian Water - 990

Top of Wolfcamp @ 5700' KB

Eagle Creek Permo Penn

Wolfcamp perfs

Cisco Perfs

Cl. Canyon Perfs

IPF - 162 mcfpd on 1/4" Choke

L. Canyon Perfs

Flowed Gas TSTM

Eagle Creek Strawn

IPF - 770 mcfpd on 1/2" Ck.

17 1/2" hole to 200' KB

13 1/2" 48" JSS Csg set @ 200' KB, cement'd w/ 200 sx Cl C, circulated.

12 1/4" hole to 1102' KB

8 5/8" 24" JSS Csg set @ 1102' KB, cement'd w/ 500 sx Cl C, circulated.

Note: Strawn is presently TA w/ blanking plug in Per @ 7568', RSP @ 6892'. Proposed - load hole, pull Permo Penn Per from 5362', pull KBP from 6892', run tbg w/ open sliding sleeve to Strawn Per @ 7568', replace BP w/ SV, Swab in.

Top of cement @ 5720' KB by CBL

Perf: 6392-98' KB w/ 8 0.34" shots
 Ttd: 1000g. 15% DS-30

Perf: 6680-92' KB w/ 13 0.34" shots
 Ttd: 1000g. 15% DS-30

Perf: 6817-20' KB, 6822-27', 6833-36' KB w/ 14 0.36" shots, Ttd 1000g. 15% DS-30.

Perf 7153-62' w/ 36 0.45" shots
 Ttd 1000g. 15% DS-30 & Nitrogen.

Guiberson UNI-5 Per w/ On/Off Tool & Standing Valve @ 7568' KB, sliding sleeve open 30' up.

Perf 7639-45' w/ 24 0.34" shots
 Ttd 1000g. 15% DS-30 & Nitrogen
 S/Frac w/ 8700 @ 20/40 in 5000g. 32 gel Acid.

PBTD 7866' KB

4 1/2" 10.5-116" KSS Csg set @ 7912' KB, cement'd w/ 300sx Cl H + 250sx Howco Lite. Cement TD 8180' KB

DATE 12/15/68

COMPANY 1234567890

WELL FORD 82" #12

HEAD 12345678

TOOL 12345678

STATE N/A

DATE 12/15/68

TIME 12:30

BY 12345678

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COMPANY Yates Petroleum Corp.

WELL FORD 82" #12

HEAD 12345678

TOOL 12345678

STATE N/A

DATE 12/15/68

TIME 12:30

BY 12345678

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12345678

6400

6700

6800

7200

7600

3014 125 123 2440
2432 124 123 2372
P 6332-56 18 34"
N/A 1000g 15% 2530

P 1130-92/13 34"
N/A 1000g 15% 2530

P 6812-37/16 0.34"
P 6812-37/16 0.34"
P 6833-34/14 0.34"
N/A 1000g 15% 2530

P 1130-92/13 34"
N/A 1000g 15% 2530

P 7634-47/24
N/A 1000g 15% 2530
Flowed 75" in 10"
Sump 8' 0" 120 m
Sump 32' 234 m 45"
Flowed 110" in 10"



207 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 746-3558

S. P. YATES
PRESIDENT
MARTIN YATES, III
VICE PRES DENT
JOHN A. YATES
VICE PRES DENT
B. W. HARPER
SEC. TREAS.

May 31, 1979

Atlantic Richfield Company
P. O. Box 1610
Midland, Texas 79701

Re: Downhole Commingling, Yates Petroleum Corp.
Federal BZ No. 12, K-21-17S-25E,
Eddy County, New Mexico

Gentlemen:

Please be advised that subject well will be downhole commingled in the Eagle Creek Permo Penn and the Eagle Creek Strawn, both zones being marginal, as permitted under NMOC Rule R-5460, Case No. 5910, dtd June 14, 1977.

Yours very truly,

YATES PETROLEUM CORPORATION

Eddie M. Mahfood
Eddie M. Mahfood
Engineer

EMM/ob