

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 15664

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

SEP 13 1977

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Yates Petroleum Corporation

O. C. C.

3. ADDRESS OF OPERATOR

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 & 1980' FEL of Section 6-18S-25E

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal "EF" Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

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

Unit 0 Sec 6-18S-25E

14. PERMIT NO.

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

3645' 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

X

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 is a dual completion with a rapid decline and limited reserves in both zones. Commingling the Morrow and Cisco zones will conserve a natural resource, and is permitted under OCC Rule 5460 dated June 14, 1976. Commingling will be achieved by setting a standing valve in the Morrow packer at 8181' KB and opening the sliding sleeve at 8146', both by wireline. We propose to apportion the commingled production as follows:

Eagle Creek Permo-Penn - 60% for gas, 47% for condensate

Richard Knob^{stopa} Morrow - 40% for gas, 53% for 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 EF Conn #1 SWSE Sec 6-185-25E

Eagle Creek Perm Penn

Cum. Prod. to 8-1-77 = 25732 mcf

Avg Prod. Rate at 8-1-77 = 160 mcfpd.

Decline Rate = 34% per month or 0.5% per day.

$$\text{Remaining Reserves} = 160 \text{ mcfpd} \left(\frac{.995^{540 \text{ days}} - 1}{.995 - 1} \right) \\ = 29500 \text{ mcf.}$$

Richard Knob Morrow

Cum Prod. to 8-1-77 = 19274 mcf

Avg Prod Rate at 8-1-77 = 136 mcfpd.

Decline Rate = 18.1% per month or 0.6% per day.

$$\text{Remaining Reserves} = 136 \text{ mcfpd} \left(\frac{.9934^{540} - 1}{.9934 - 1} \right) \\ = 20000 \text{ mcf.}$$

We propose to commingle the Eagle Creek Perm Penn and the Richard Knob Morrow, and to apportion the commingled production as follows:

$$\begin{array}{l} \text{Gas: Eagle Creek Perm Penn} = 29500 \text{ mcf} = \frac{59.6\%}{60\%} \\ \text{Richard Knob Morrow} = 20000 \text{ mcf} = \frac{40.4\%}{40\%} \\ \text{Total} = 49500 \end{array}$$

$$\begin{array}{l} \text{Condensate: Perm Penn} = 29500 / 405 \text{ mcf/bbl} = 69.4 \text{ b.} = \frac{47.2\%}{47\%} \\ \text{Morrow} = 20000 / 258 = 77.5 \text{ b.} = \frac{53.8\%}{53\%} \\ \text{Total} = 146.9 \end{array}$$

Commingling will release excess facility, save 50 percent fuel, reduce evaporation losses, extend production by 8 or 10 months thereby conserving a natural resource.

Jim.
8-22-77

IAGRAMMATIC SKETCH OF PROPOSED DUAL COMPLETION

YATES PETROLEUM CORP.

Federal "EF" Com. No. 1

660' FSL 1980' FEL Sec 6-18S-25E

Spudded 4-23-75

TD reached 5-16-75

Morrow Compl. 5-28-75

U. Penn. Compl. 7-11-75

Top San Andres @ 646' KB

Base Artesian Zone @ 932' KB

Top of Penn @ 6410' KB

GAS ZONE

Flowed 1600 mcfpd

Blast Joints @ 6407-6579

Sliding Sleeve @ 8146

Standing Valve

Top of Morrow @ 8185' KB

GAS ZONE

Flowed 900 mcfpd

2098' of 4 1/2" 11.6# K-55 LT & C and

6205' of 4 1/2" 10.5# K-55 LT & C csg.

Cmtd w/ 560 sx. CI H + 0.5% CFR-2 + 5% KCl

Tbg. Completed in Morrow

Csg. Completed in Atoka

17 1/2" hole to 205' KB

12 3/4" 34# Csg set @ 200' KB

Cmtd. w/ 125 sx. circ. to surface

12" hole to 1040' KB.

8 5/8" 24# set @ 1037' KB.

Cmtd. w/ 450 sx. circ. to surface

Top of cement @ 6020' KB

4 1/2" x 2" Guiberson UNI VI Packer
w/ Cross-Over (Profile 1-87) @ 6372' KB.

Perf 6412-16/8 jets, 6443-47/8 jets,
6487-91/8 jets, 6553-63/30 jets.

Trtd w/ 19500 g. 15% DS-30 & CO₂

2 3/8" EUE Tubing on Guiberson UNI VI

Packer @ 8181 KB w/ On-Off Tool @ 8179
(Profile 1-81" BP. Receptacle).

Propose to set standing valve in pkr @ 8181
and open sliding sleeve @ 8146 to commingl
Eagle Creek Permo Penn & Richard Knob Morrow

Perf 8202-12/40 jets

Trtd w/ 1000 g. 7 1/2% MSA & N₂

SF 12000" 2 3/4 in 10000 g. MSA w/ CO₂

PBTD @ 8287' KB (Float Collar)

Guide shoe @ 8320' KB

TD 8413 KB

LOGGING AND INFORMATION SYSTEM

LAZES PETROLEUM CORP

DEAL "EF" No. 1 Core

STATE New Mexico

LA 1980 FEL

SDLL KSL

6 1/2-5 25-E

Elev: 3632

Elev: K.B. 3645

DF 3632

17 ft. Above Perm. Datum

mi

mi

mi

mi

mi

mi

mi

mi

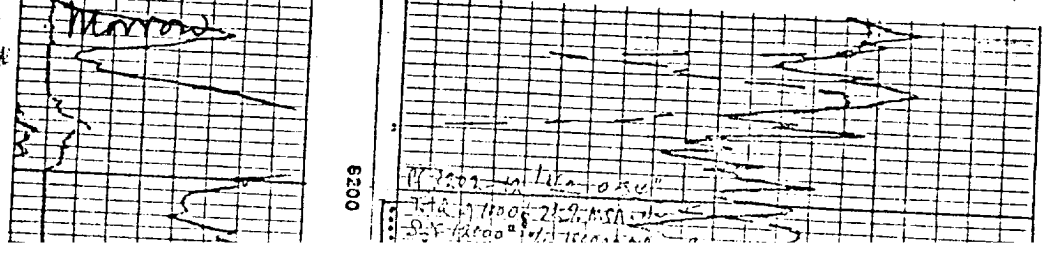
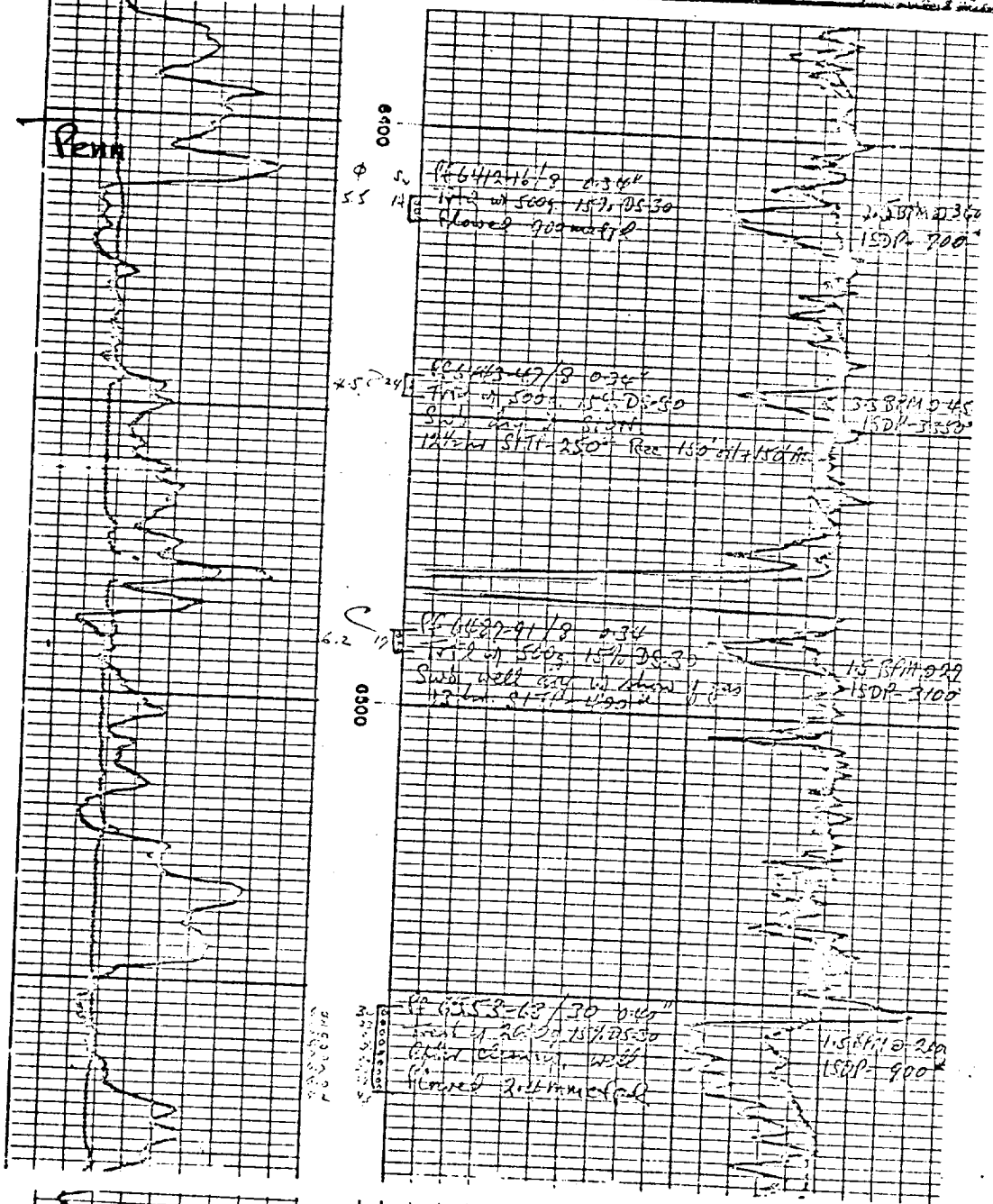
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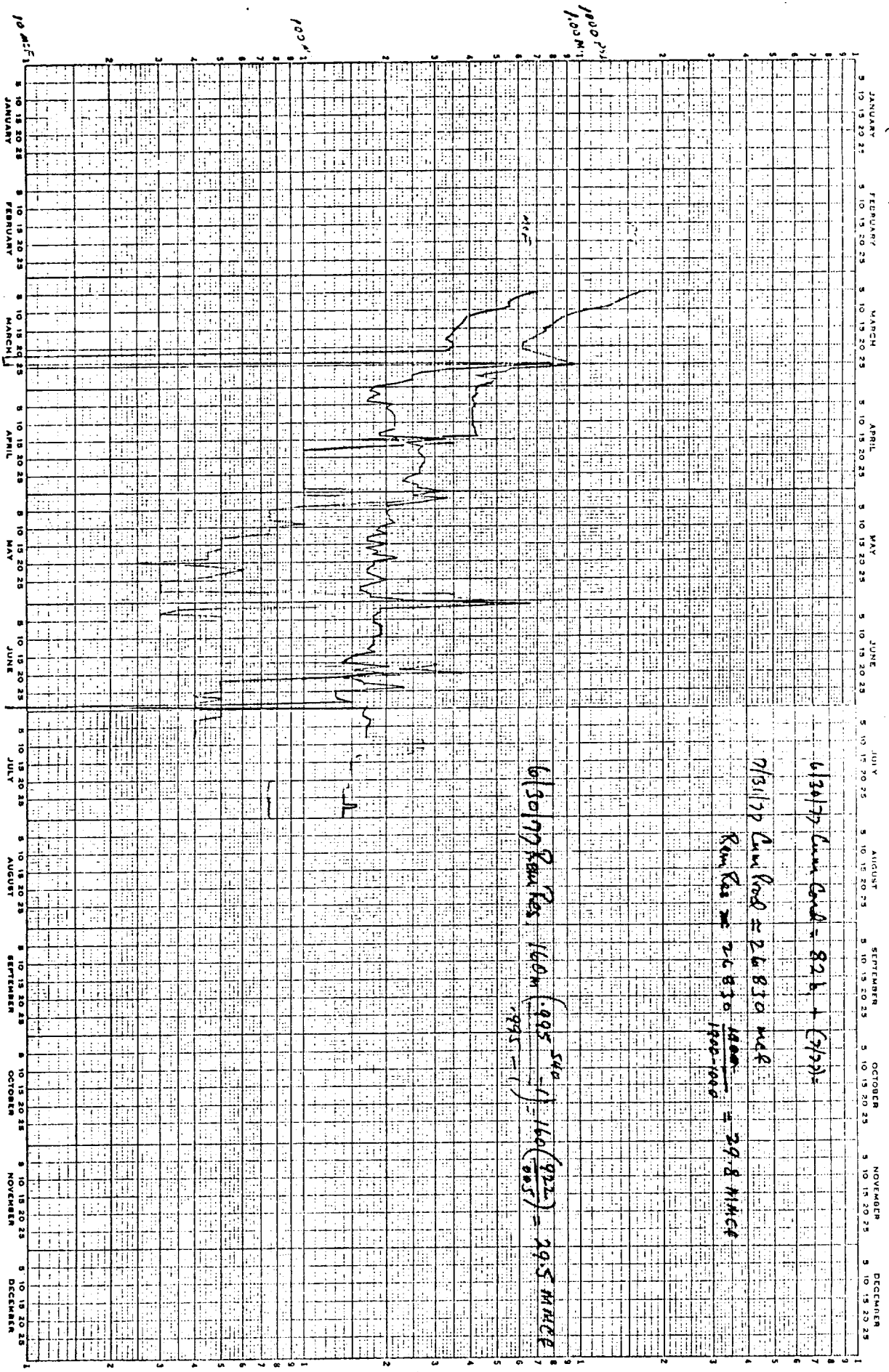
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Federal EF-4, 5/2 6-18-25E, Upper Penn



1977-60

$$6/30/77 \text{ Cum. Cond.} = 82.6 + (7/7) =$$

$$7/31/77 \text{ Cum. Cond.} = 26.830 \text{ m.e.}$$

$$\text{Run Rate} = \frac{76.830}{1900-1000} = 29.8 \text{ m.e.}$$

$$6/30/77 \text{ Run Rate} = \frac{160 \text{ m.} \left(\frac{995}{995} - 1 \right) = 160 \left(\frac{992}{995} \right) = 29.5 \text{ m.e.}$$

Federal EF#1, S/2 6-185-25E Morton

1977 - 60 Day Scale

