

NMOCC COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP
(Other Instructions
verse side)

E*
re-

Copy 255

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.)

1.

OIL WELL GAS WELL OTHER

JAN 11 1978

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 & 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, CR, 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

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 Re-completion 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 Morrow - 40% for gas, 53% for condensate

RECEIVED

JAN 9 1978

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Sent to U.S.G.S. Artesia, NM
1-6-78

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

SIGNED

E. J. ...

TITLE Engineer

DATE 8-30-77

(This space for Federal or State office use)

APPROVED BY

[Signature]

TITLE

DATE JAN 9 1978

CONDITIONS OF APPROVAL, IF ANY:

Federal 2F Com #1 SWSE Sec 6-135-25E

Eagle Creek Perm Perm

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.

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

$$= 29500 \text{ mcf.}$$

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 0.61% 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 Perm and the Richard Knob Morrow, and to apportion the commingled production as follows:

Gas: Eagle Creek Perm Perm = 29500 mcf = ~~59.6%~~ 60%

Richard Knob Morrow = 20000 mcf = ~~40.4%~~ 40%

Total = 49500

Condensate: Perm Perm = 29500/405 mcf/bbl = 69.4 b. = ~~47.2%~~

Morrow = 20000/258 = 77.5 b. = ~~53.2%~~

Total = 146.9

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

SYNTHETIC 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

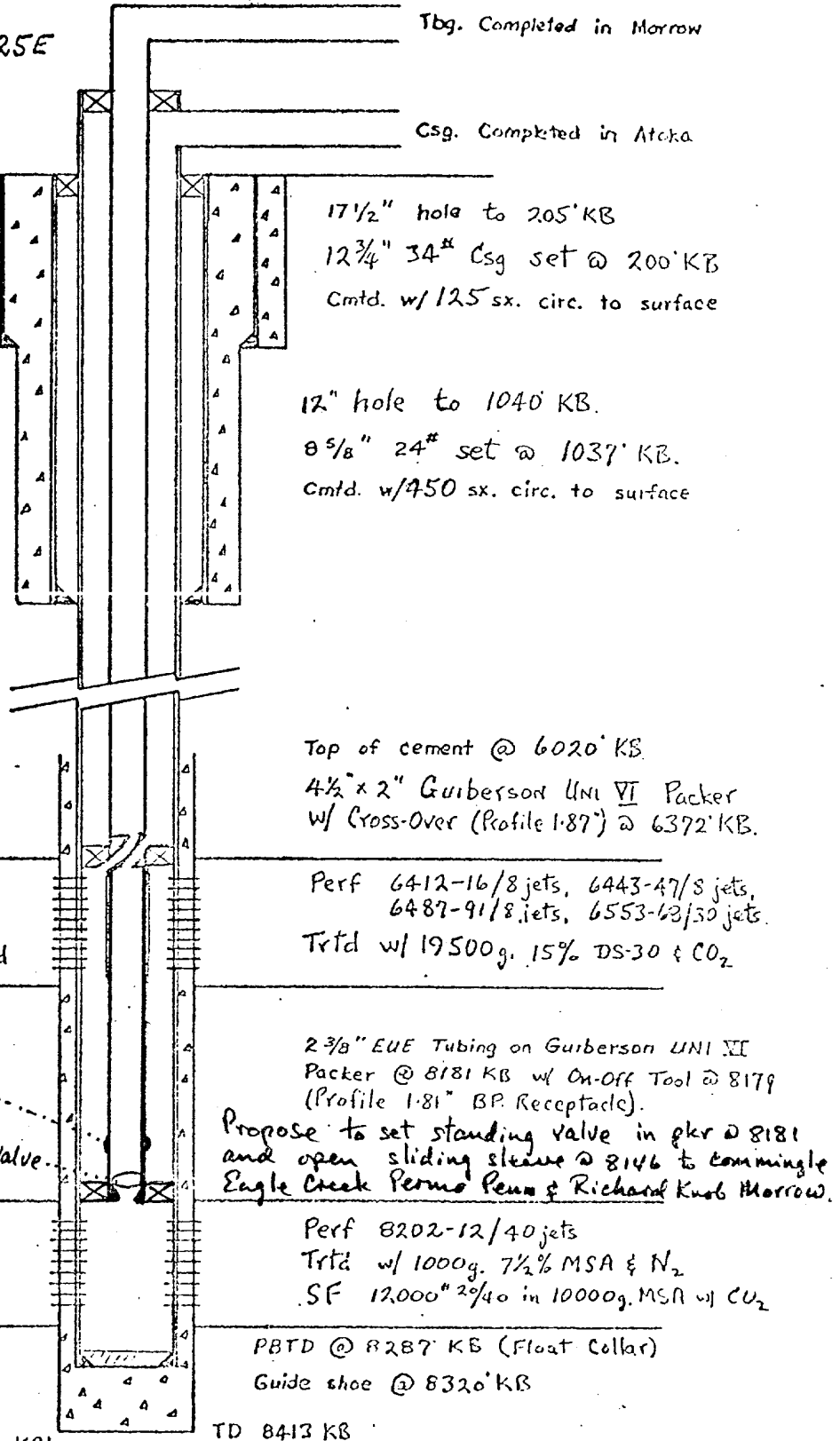
Standing Valve

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% KCI



Tbg. Completed in Morrow

Csg. Completed in Atoka

Elev. 3649 GR

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/ 19500g. 15% DS-30 & CO₂

2 3/8" EUE Tubing on Guiberson UNI VII
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 commingle
Eagle Creek Permian Penn & Richard Knob Morrow.

Perf 8202-12/40 jets
Trtd w/ 1000g. 7 1/2% MSA & N₂
SF 12,000# 2/40 in 10000g. MSA w/ CU₂

PBD @ 8287 KB (Float Collar)

Guide shoe @ 8320' KB

TD 8413 KB

COMPASS RECORDING CORPORATION
 INTERNATIONAL CENTER

PANY STATES PETROLEUM CORP

FEDERAL "EE" No. 1 Core

Blindcat

NY SDNY STATE New Mexico

2' EST. 1980 FEL

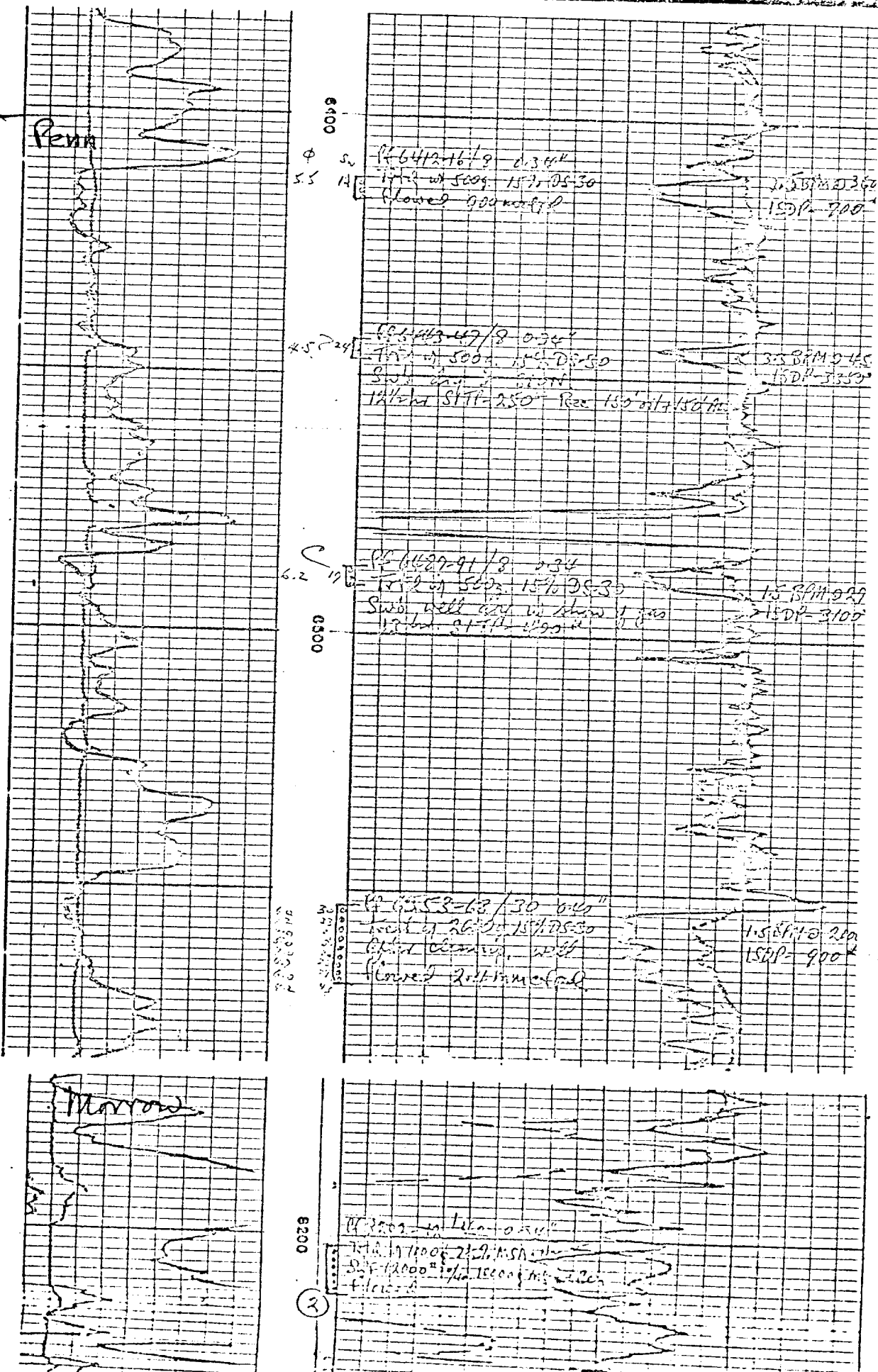
6 18-5 25-E

Rev: 3632 12th Above Perm. Dolom

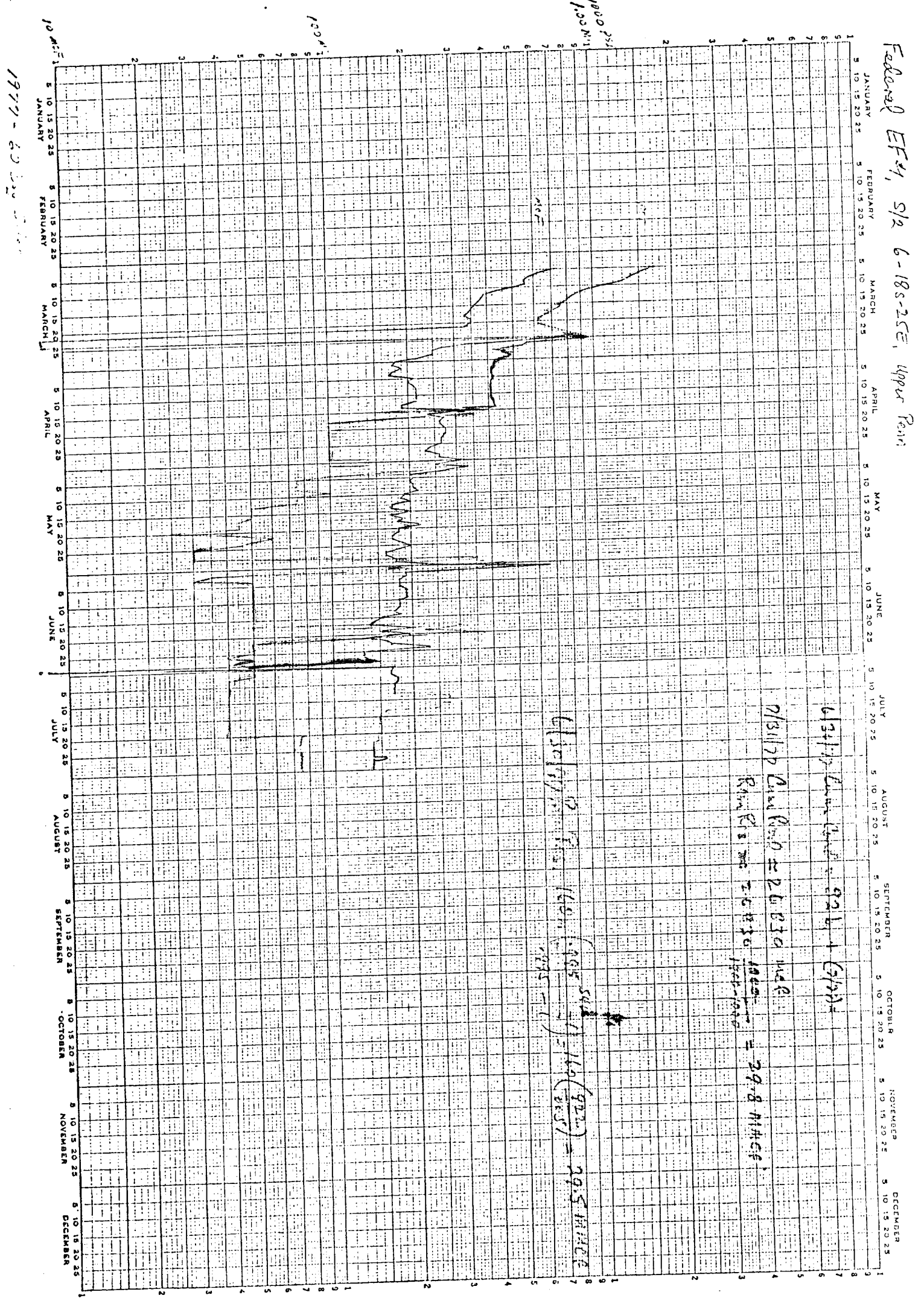
Elev: K.B. 3245
 D.F. 3632

Other Services:
 SDDL
 KSEFL

0-10	0	0	0	0	0
10-20	0	0	0	0	0
20-30	0	0	0	0	0
30-40	0	0	0	0	0
40-50	0	0	0	0	0
50-60	0	0	0	0	0
60-70	0	0	0	0	0
70-80	0	0	0	0	0
80-90	0	0	0	0	0
90-100	0	0	0	0	0
100-110	0	0	0	0	0
110-120	0	0	0	0	0
120-130	0	0	0	0	0
130-140	0	0	0	0	0
140-150	0	0	0	0	0
150-160	0	0	0	0	0
160-170	0	0	0	0	0
170-180	0	0	0	0	0
180-190	0	0	0	0	0
190-200	0	0	0	0	0



Federal Effy, S/2 6-18S-25E, Upper Penn



6/31/79 Daily Rain = 92.6 + (5/24) =

7/31/79 Daily Rain = 26.8 + 3.0 = 29.8 inches

Rain for 7/1-7/31 = 29.8 inches

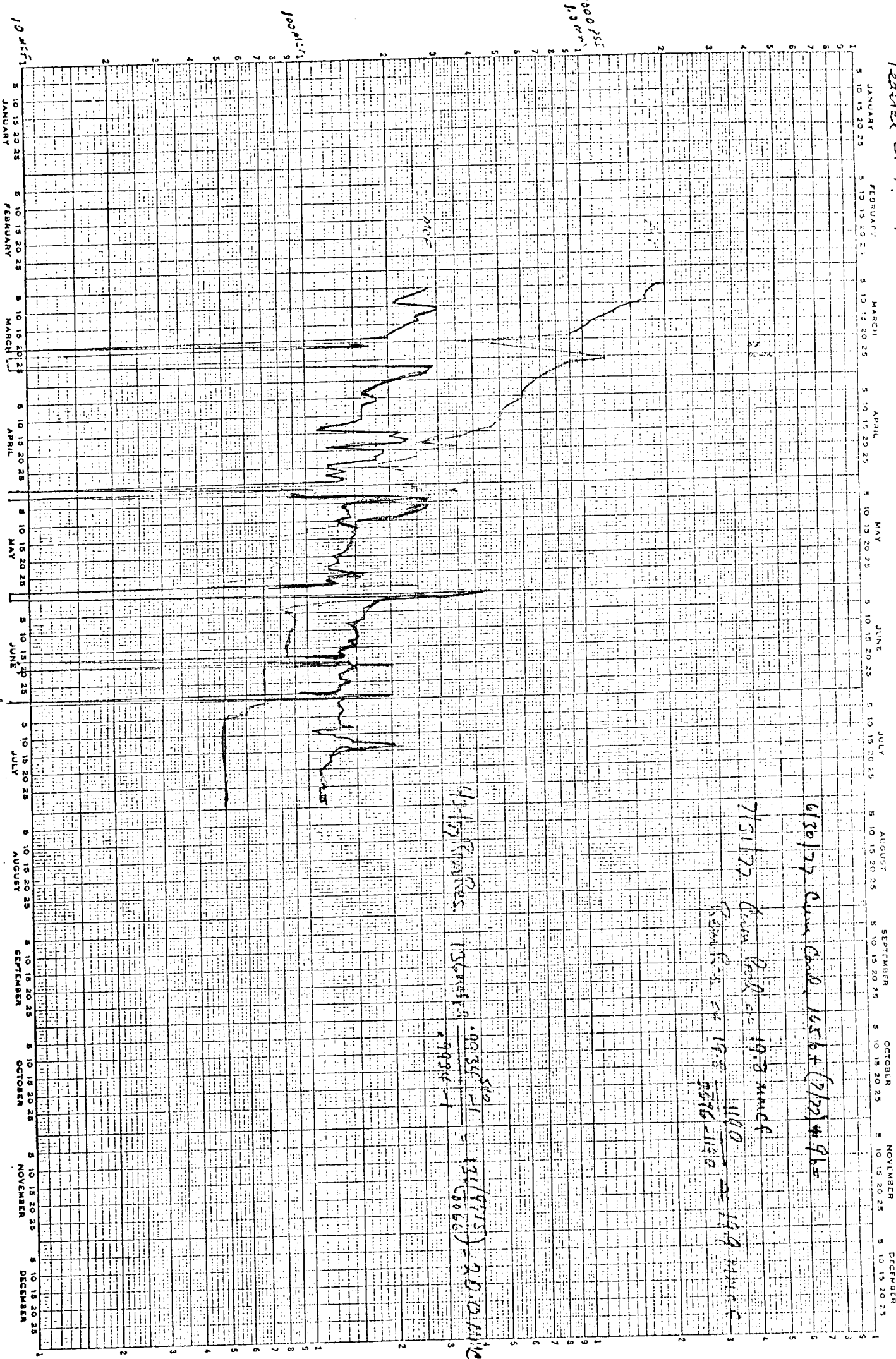
$$6/30/79 \text{ Rain } 16.0 \text{ (92.5)} - 1.0 \text{ (92.5)} = 29.5 \text{ inches}$$

1979-80

1000 PSI
 1000 N.I.

1000 PSI

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



1977 - 60 Day Scale

6/30/77 Cum Cond. 1656 + (2/20) * 96 =

7/31/77 Cum Cond. 19.8 mV

7/31/77 Cum Cond. 19.8 mV
 1100
 2576 - 1100 = 1476 mV

4/1/77 Cum Cond. 136 mV
 136 mV
 9994 - 1 = 134 (9993) = 9993 mV



OIL CONSERVATION COMMISSION

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



STATE GEOLOGIST
EMERY C. ARNOLD

DIRECTOR
JOE D. RAMEY

LAND COMMISSIONER
PHIL R. LUCERO

September 22, 1977

Yates Petroleum Corporation
207 South 4th Street
Artesia, NM

Artesia District Office
Administrative Order No. DHC II-6

Gentlemen:

In accordance with the provisions of Commission Order No. R-5460 approval is hereby granted for the downhole commingling of the Upper Penn and Morrow zones within the well-bore of your Federal EF Com #1-O, Sec. 6-T18S-R25E.

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

Eagle Creek Permo-Penn Gas Pool = 60% of gas and 47% of condensate
Richard Knob Atoka-Morrow Gas Pool = 40% of gas and 53% of 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