

UNITED STATES COPY
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLE
(Other instructions
verse side)Form approved 7-2-77
Budget Bureau No. 42 R1424

5. LEASE DESIGNATION AND SERIAL NO.

NM 0471842

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal CZ

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Richard Knob (Atoka Morrow)

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

Unit B, 8-18S-25E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

1. OIL
WELL ☐ GAS
WELL ☒ OTHER

JAN 11 1978

2. NAME OF OPERATOR

Yates Petroleum Corporation

3. ADDRESS OF OPERATOR

207 South 4th 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/N 1980/E Sec 8-18S-25E

14. PERMIT NO.

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

3612 KB

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

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

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

SUBSEQUENT REPORT OF:

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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.)*

We propose to downhole commingle the Richard Knob Atoka Morrow with the Eagle Creek Permo Penn and to apportion future production as follows:

Gas-Eagle Creek Permo Penn -	162.6 MM	=	0.575
Richard Knob Atoka Morrow -	<u>120.0</u> MM	=	0.425
	282.6		

Liquids - Eagle Creek Permo Penn -	968b.	=	.862
Richard Knob Atoka Morrow -	<u>155 b.</u>	=	.138
	1123		

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

SIGNED

TITLE Engineer

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE JAN 9 1978

*See Instructions on Reverse Side

YATES PETROLEUM CORPORATION

Diagrammatic Sketch of Proposed Dual Completion/ & Commingled Downhole
Federal "CZ" #1, 660' FNL, 1980" FEL, Section 8-T18S-R25E
Eddy County, New Mexico

Tubing Completion - Cisco & Morrow

Casing - Blanked-off

Elevation 3595 GR-3612 KB

Spudded 12-29-73

Morrow Completion 3-24-74

Cisco Completion 5-4-74

Cmt circ on surface & intermediate csg. 17½" hole to 257' KB
12 3/4" 30# csg set at 257' KB
cmtd w/200 sx

Top of San Andres at 636'

Base of Artesian at 1010'

12¼" hole to 1111' KB
29 jts 8 5/8" 28# J-55 csg set at 1111' KB, cmtd w/950 sx,
Centralizers at 990 & 674,
Basket at 642'

Top of cmt behind 4½" csg at 5850'
4½" Baker Model AR-1 Pkr w/cross-over
(profile 1.87) at approx 6500'

Cisco at 6437'

IPF 1.15 MMCFPD on 3/4" ck
last production 350 MCFPD

Cisco

Pf 6554-6576'
Treated w/11000 g 15% DS-30 and CO2
Eagle Creek (Permo-Penn)

Canyon at 7327'

4½" DV tool at 6704' KB, cmtd w/250 sx
CLh, 3/4% CFR2, 5% salt

2 3/8" EUE 4.7# J-55 Tubing (8223')
landed in On-Off tool

Strawn at 7833'

4½" Baker Lok-set Pkr at 8245' KB
w/Baker Model FL On-Off tool at
8241' KB (profile 1.8)

Morrow Clastics at 8328'

IPF 6.51 MMCFPD w/38.4 BO
on 3/4" ck at 450# TP
last production 800 MCFPD

Morrow

Pf 8338-59' Treated w/3000 g 7½% MSA & CO2
Pf 8363-76' SF w/37000# 20/40 in 20000 g
Pf 8381-88' 5% MSA and CO2

Richard Knob (Atoka-Morrow)

Chester at 8513'

Miss Ls at 8639'

PBTD 8503' (Top of float collar)
268 jts 4½" 10.5-11.6# K-55 csg set at
8535' cmtd w/200 sx CL h 3/4% CFR2, 5%
salt

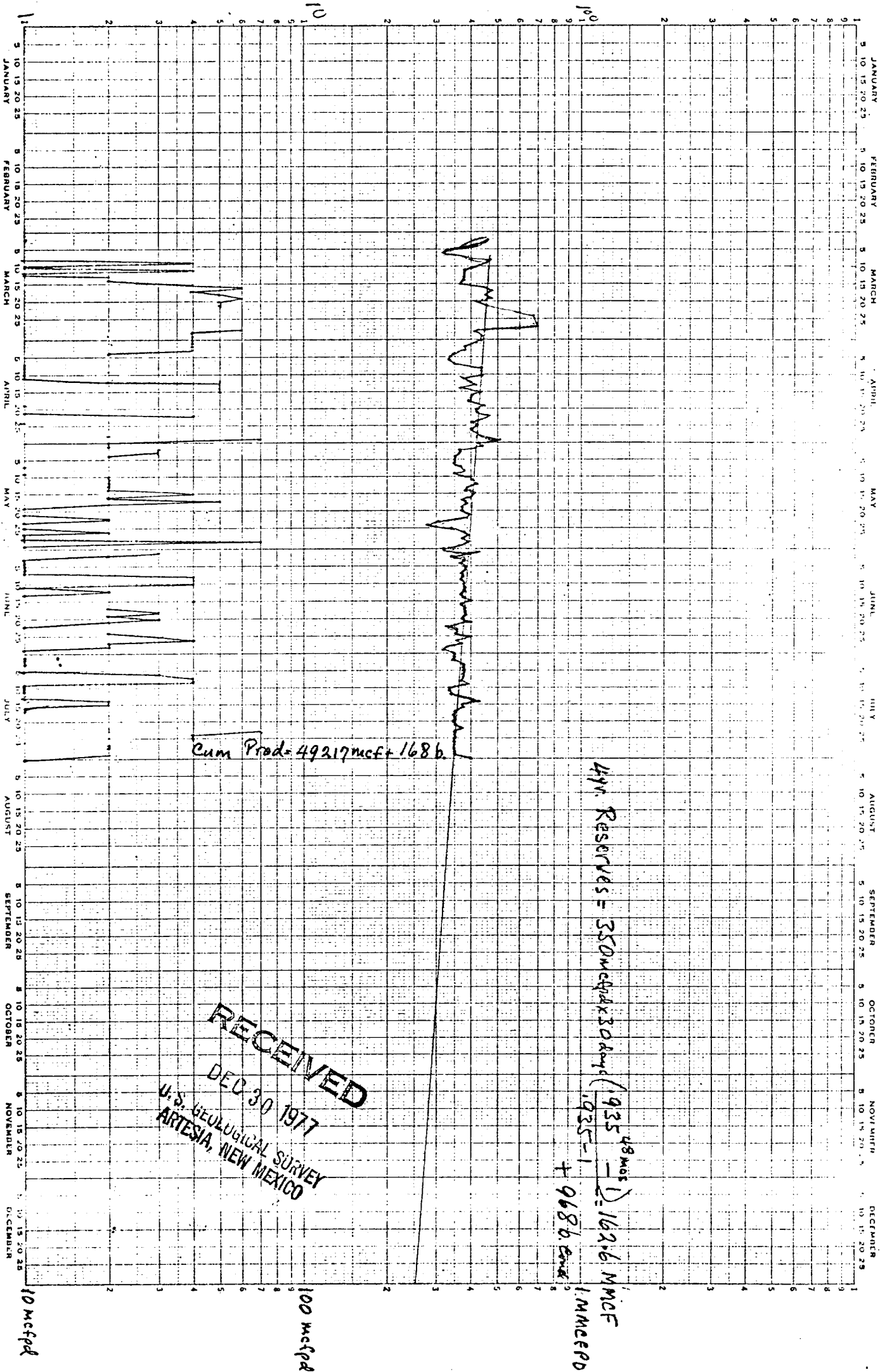
TD 8671'

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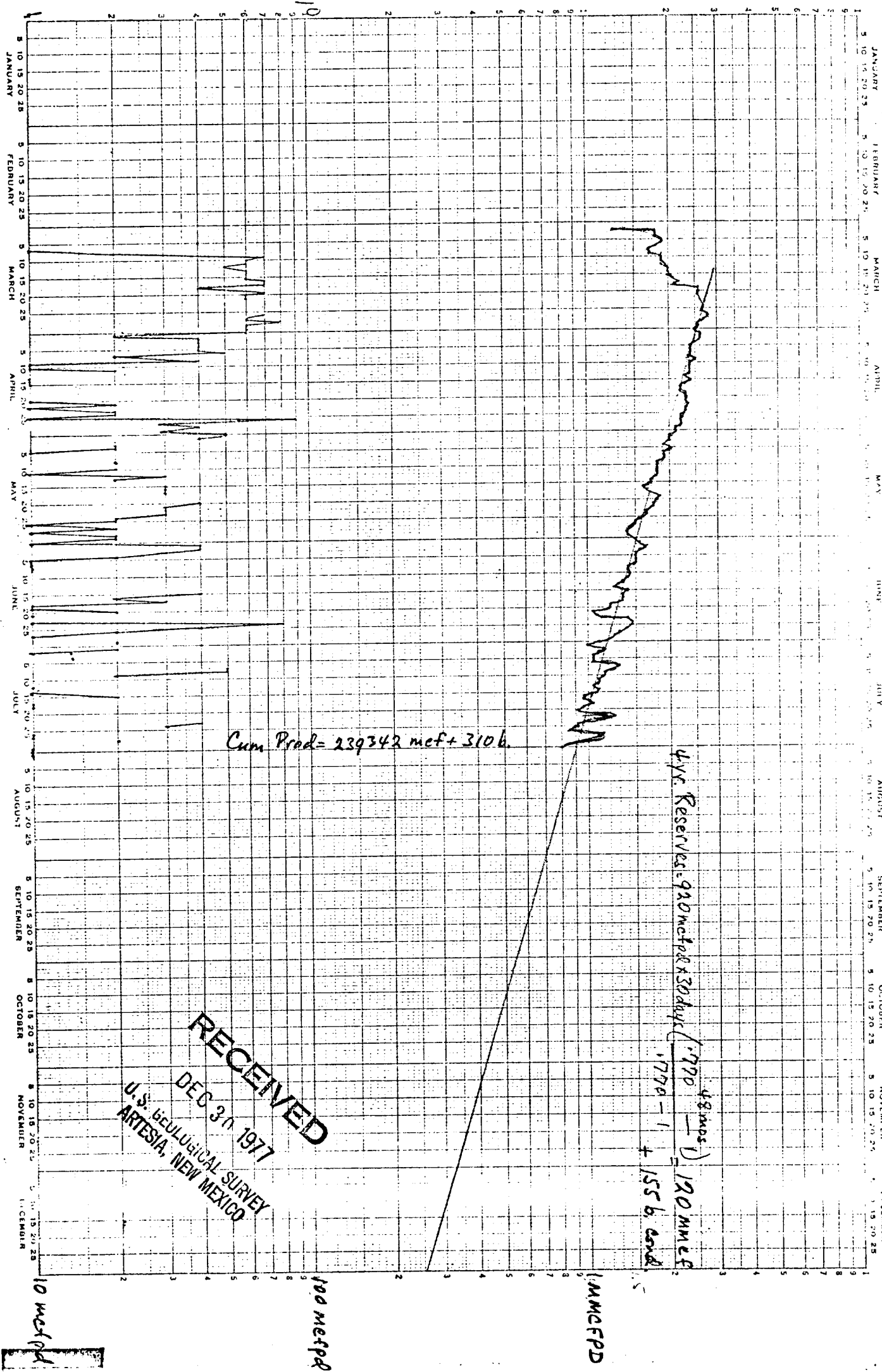
17	24	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Black - Oil
 Red - Gas

FEDERAL OZ (GASCO)
 Yates Pet. Corp.
 1 B 8-18-25 -



Black - Oil
 Red - Gas

FEDERAL CZ (MOTLOW)
 Yates Pet. Corp.
 1 B 8-18-25-Richard Knob

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Federal CZ



207 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 746-3558

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

December 30, 1977

Joe D. Ramey, Secretary Director
New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

Re: Downhole Commingling
Federal CZ #1, B-8-18S-25E

Dear Sir:

Yates Petroleum Corporation seeks administrative approval to downhole commingle the Richard Knob Morrow and Eagle Creek Permo-Penn as provided for in OCC order No. R-5460 dated June 14, 1977. In compliance with Rule 2 of this order, the following information is submitted:

- (a) Operator: Yates Petroleum Corporation, 207 South 4th Street, Artesia, New Mexico.
- (b) Lease: Federal CZ #1, 660/N 1980/E Sec 8-18S-25E.
- (c) Attached: Lease Ownership map showing N/2 dedication and Yates Petroleum Corporation is sole offset operator.
- (d) Attached: Mechanical log of the well
- (e) Attached: Diagrammatic sketch of well with dual packers, one tubing. To commingle, pull X-over tool in upper packer thereby allowing gas from the Morrow and Cisco completions to flow into the same tubing.
- (f) Attached: Decline curves or production history of each zone showing established rates of decline and calculated reserves.
- (g) Formula for allocation of production is based on direct proportion of remaining gas reserves and GOR history.
- (h) Produced fluids are gas and condensate only and, therefore, incompatibility is no problem. However, because of the sensitivity of the Morrow Sands, a standing valve will be installed in the on-off tool at the Morrow packer.

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- (i) Well is on a federal lease and the USGS is notified of this proposal by copy of this application and a sundry report.

Commingling will enhance the ultimate recovery of hydrocarbons from both zones, thereby conserving a natural resource and will not interfere with the correlative rights of owners since owners of each zone are the same.

Yours very truly,

YATES PETROLEUM CORPORATION

Eddie M. Mahfood
Eddie M. Mahfood
Engineer

EMM/ob
Enclosures

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