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NEW MEXICO OIL CONSERVATION COMMISSION

JAN 12 1979

O. C. C.
ARTESIA, OFFICE

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease State ☐ Fee ☐
5. State Oil & Gas Lease No.
7. Unit Agreement Name
8. Farm or Lease Name Powell "DG" Com
9. Well No. 1 1
10. Field and Pool, or Wildcat
12. County Eddy

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" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☐ GAS WELL ☒ OTHER-
2. Name of Operator Yates Petroleum Corporation
3. Address of Operator 207 South 4th Street - Artesia, NM 88210.
4. Location of Well UNIT LETTER <u>O</u> <u>660</u> FEET FROM THE <u>South</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE, SECTION <u>35</u> TOWNSHIP <u>17S</u> RANGE <u>25E</u> NMPM.
15. Elevation (Shows whether PP, RT, GR, etc.) 3505' KB

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPER. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOB ☐	
		OTHER <u>Downhole Commingling</u> ☒	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

As provided for under NMOCC Order No-5881, Case No. 6333, this West Atoka Morrow completion has been opened into the tubing and commingled with the Eagle Creek Permo Penn completion. It is proposed that future production be allocated as follows, calculations based on Remaining Reserves is attached:

West Atoka Morrow-----: Gas - 11%-----Condensate - 21%
Eagle Creek Permo Penn-----: Gas - 89%-----Condensate - 79%

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED E. J. Mifflin TITLE Engineer DATE 1-11-79
APPROVED BY W. A. Gussert TITLE SUPERVISOR, DISTRICT 5 DATE JAN 15 1979
CONDITIONS OF APPROVAL, IF ANY:

Estimated Remaining Reserves - Powell DG Com #1 at 1-1-79

W. Atoka Morrow: Pfs 8365-8386 KB.

Cum. Production: 34508 mcf + 330 B Cond.

Original BHP = 3117 psia @ 8363; $P_R = 4.645$, $T_R = 1.556$, $Z_o = 0.817$

Shut-in Csg Pres = 908 psia BHT = 5920 R, GH = 5536 $P_c = 671.5$, $T_c = 377^\circ R$

$$T_{avg} = \frac{510 + 592}{2} = 554.5; \quad \frac{GH}{T_2} = \frac{5536}{496.66} = 11.7872; \quad S = 0.44202; \quad c_s = 1.55585$$

Present BHP = 1133 psia @ 8363; $P_R = 1.69$, $T_R = 1.556$, $Z_i = 0.863$.

Assume Abandonment pressure @ 5% of 3117[#] = 156 psia; $P_R = .23$, $Z_u = .979$

$$\begin{aligned} \text{Remaining Reserves} &= \frac{P_i - P_a}{P_o - P_i} N_p = \frac{1133/.813 - 156/.979}{3117/.817 - 1133/.863} (24508) \\ &= \frac{1312.9 - 159.3}{3815.2 - 1312.9} (24508) = 15909 \text{ mcf} \end{aligned}$$

$$\text{Future Condensate Prod} = 330 \frac{15909(.5)}{34508} = 76 \text{ bbls.}$$

Eagle Creek Perm Perm: Pfs 6539-6633 KB.

Cum. Production: 81875 mcf + 368 B. Cond. $P_c = 674$, $T_c = 380$

Original BHP = 2438 psia @ 6600'; $P_R = 3.64$, $T_R = 1.532$, $Z_o = 0.757$

Present 1/8/79 BHP = 1626 psia @ 6600'; $P_R = 2.41$, $T_R = 1.532$, $Z_i = 0.814$

Assume Abandonment pressure @ 5% of 2438 = 122 psia; $P_R = .18$, $Z_u = 0.9825$

$$\begin{aligned} \text{Remaining Reserves} &= \frac{1626/.814 - 122/.9825}{2438/.757 - 1626/.814} (81875) \\ &= \frac{1997.5 - 124.2}{3220.6 - 1997.5} (81875) = \frac{1873.3}{1223.1} (81875) = 125400 \text{ mcf} \end{aligned}$$

$$\text{Future Condensate Prod} = 368 \frac{125400(.5)}{81875} = 282 \text{ bbls.}$$

Proposed allocation of Future Production (commingled):

$$\text{W. Atoka Morrow: Gas} = \frac{15909}{141309} = 11\% \quad \text{Cond: } \frac{76}{358} = 21\%$$

$$\text{Eagle Creek Perm Perm} = \frac{125400}{141309} = 89\% \quad \frac{282}{358} = 79\%$$