NO. OF COPIES RECEIVED	6	
DISTRIBUTION		
SANTA FE	1	
FILE	1	
U.S.G.S.		
LAND OFFICE		
OPERATOR	1	

RECEIVED
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.

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-

7. Unit Agreement Name

2. Name of Operator
Yates Petroleum Corporation

8. Farm or Lease Name
Powell "DG" Com

3. Address of Operator
207 South 4th Street - Artesia, NM 88210

9. Well No.
1

4. Location of Well
UNIT LETTER O, 660 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE, SECTION 35 TOWNSHIP 17S RANGE 25E NMPM.

10. Field and Pool, or Wildcat

15. Elevation (*Show whether DF, RT, GR, etc.*)
3505' KB

12. County
Eddy

16. 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 ☐		COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	CHANGE PLANS ☐	CASING TEST AND CEMENT JOB ☐	
OTHER ☐		OTHER Downhole Commingling ☒	

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 1103.

As provided for under NMOCC Order No-5881, Case No. 6383, 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%

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

SIGNED [signature] TITLE Engineer DATE 1-11-79

APPROVED BY W. A. Gressett TITLE SUPERVISOR, DISTRICT II 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 S.BHP = 3117 psia @ 8363; $P_R = 4.645$, $T_R = 1.556$, $Z_o = 0.817$

Shut-in Csg Pres = 908 psia BHT = 537°R, GH = 5536 $P_c = 671.5$, $T_c = 377°R$

$T_{avg} = \frac{510+588}{2} = 554.5$; $\frac{GH}{T_R} = \frac{5536}{496.66} = 11.7872$; $S = 0.44202$; $e^S = 1.55535$

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; $P_R = .23$, $Z_a = .979$

$$\text{Remaining Reserves} = \frac{P_i - P_a}{P_o - P_i} N_p = \frac{1133/.863 - 156/.979}{3117/.817 - 1133/.863}(34508)$$

$$= \frac{1312.9 - 159.3}{3815.2 - 1312.9}(34508) = 15909 \text{ mcf}$$

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

Eagle Creek Permo Penn: Pfs 6539-6683 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; $P_R = .18$, $Z_A = 0.9825$

$$\text{Remaining Reserves} = \frac{1626/.814 - 122/.9825}{2438/.757 - 1626/.814}(81875)$$

$$= \frac{1997.5 - 124.2}{3220.6 - 1997.5}(81875) = \frac{1873.3}{1223.1}(81875) = 125400 \text{ mcf}$$

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

Proposed allocation of future Production (commingled):

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

Eagle Creek Permo Penn = $\frac{125400}{141309}$ = 89% $\frac{282}{358}$ = 79%.