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NEW MEXICO OIL CONSERVATION COMMISSION

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

SEP 11 1978

5a. Indicate Type of Lease	
State ☐	Fee ☒
5. State Oil & Gas Lease No.	
7. Unit Agreement Name	
8. Farm or Lease Name Armstrong CT Com	
9. Well No. 1 1	
10. Field and Pool, or Wildcat Eagle Creek-Strawn	
12. County Eddy	

SUNDY 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 S. 4th Street, Artesia, New Mexico 88210
4. Location of Well UNIT LETTER L, 1980 FEET FROM THE South LINE AND 660 FEET FROM THE West LINE, SECTION 5 TOWNSHIP 18s RANGE 26e NMPM.
15. Elevation (Show whether DF, RT, GR, etc.) 3397 KB

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	COMMENCE DRILLING OPNS. ☐
PULL OR ALTER CASING ☐	CASING TEST AND CEMENT JOB ☐
OTHER Downhole commingle ☒	OTHER ☐

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.

The well is presently producing about 260 mcfpd from Strawn perforation 8050-60, 8122-26. The Atoka-Morrow perforations were producing about 40 mcfpd, when temporarily abandoned in June 1978. We propose to commingle the Eagle Creek-Strawn with the E. Eagle Creek-Atoka-Morrow by retrieving the bridge plug at 8312'. There is already a standing valve in packer at 8312'.

It is suggested that future commingled production be allocated as follows:

E. Eagle Creek-Atoka Morrow -	Gas: 32%	Cond. 8%
Eagle Creek-Strawn -	Gas: 68%	Cond. 92%

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

SIGNED Eddie L. Hays TITLE Engineer DATE September 8, 1978

APPROVED BY W. A. Gussess TITLE SUPERVISOR, DISTRICT II DATE OCT 4 1978

CONDITIONS OF APPROVAL, IF ANY:

Calculations

Estimated remaining reserves in Armstrong CT Com #1.

Atoka-Morrow perf 8616-19, 8566-67, 8499-8503, 8455-60, 8381-87:

Orig BHP = 3541 psia, BHT = 601°R, $P_c = 672$, $T_c = 368$

4/22/78 BHP = 1328 psia, Cum Production = 215,837 mcf + 137 BO.

$$P_{R_0} = 5.27 \quad T_{R_0} = 1.633 \quad Z_0 = 0.870 \quad \text{then } P_{1/2_0} = \frac{3541}{.870} = 4070 \text{ psia}$$

$$P_{R_1} = 1.98 \quad T_{R_1} = 1.633 \quad Z_1 = 0.873 \quad \text{then } P_{1/2_1} = \frac{1328}{.873} = 1521 \text{ psia}$$

Assuming 90% Ultimate Recovery, then abandonment pressure = 407 psia

$$\text{Remaining Reserves} = \frac{1521 - 407}{4070 - 1521} \times 215,837 = 94,330 \text{ mcf.} + \frac{60}{2} \text{ BO}$$

Strawn perf 8150-56, 8123-25

Orig BHP = 3027 psia, BHT = 596°R, $P_c = 671$, $T_c = 379$

8/27/78 BHP = 2849 psia, Cum Production = 12,278 mcf + 43 BO.

$$P_{R_0} = 4.51 \quad T_{R_0} = 1.573 \quad Z_0 = .8185 \quad \text{then } P_{1/2_0} = \frac{3027}{.8185} = 3698 \text{ psia}$$

$$P_{R_1} = 4.25 \quad T_{R_1} = 1.573 \quad Z_1 = .8120 \quad \text{then } P_{1/2_1} = \frac{2849}{.8120} = 3509 \text{ psia}$$

$$\text{Abandonment pressure} = 407 \left(\frac{8132}{8500} \right) = 389 \text{ psia.}$$

$$\text{Remaining Reserves} = \frac{3509 - 389}{3698 - 3509} \times 12,278 = 202,680 \text{ mcf} + \frac{710}{2} \text{ BO.}$$

Future Commingled Production is proposed to be allocated as follows:

$$\begin{array}{lcl} \text{E. Eagle Creek - Atoka Morrow: } 94,330 - 32\% & \left. \begin{array}{c} \\ \end{array} \right\} \text{Gas} & 30 - 8\% \left. \begin{array}{c} \\ \end{array} \right\} \text{Cond.} \\ \text{Eagle Creek - Strawn: } \frac{202,680}{2,97,010} - 68\% & & \frac{355}{385} - 92\% \end{array}$$

Yates Petroleum Corp.
Edith M. Yates
9-9-78

Diagrammatic Sketch of Armstrong CI #1, L-5-18S-24B, Eddy Co.

Elevation: 3592'GL = 3612'KB

Spudded: 6-3-73

Initial Completion: 8-17-73

E. Eagle Creek Atoka Morrow

Recompletion: 6-22-78

Eagle Creek Strawn

Top of San Andres @ 900'

17 1/2" hole to 504'KB

13 3/8" eng (48" JSS) set @ 504'KB,
cemtd w/ 400 sx Cl C, circulated.

12 1/4" hole to 1318'KB

8 5/8" 24" JSS Cg set @ 1318'KB,
cemtd w/ 700 sx Cl C, circulated

Top of cement @ 7820'KB

Top of Strawn @ 7719'KB

Strawn Completion

Eag. Creek- Strawn

IPF - 130 # on 1/2" Cl = 800 mcfpd.

2 3/8" 4.7" JSS Tbg on Baker Loe Set
Pkr set @ 8088'KB

Perf 8052-56 12 3/4"

Perf 8132-36 8 3/4"

Tst pfs 8050-8126 w/ 1500g. 15% DS30

Standing valve in pkr @ 8314'KB

Top of Atoka @ 8328 KB

E. Eagle Creek Atoka Morrow

IPF - 95 # on 1/2" Cl = 1110 mcfpd

Perf 8381-87 5 } 1000g. 15% MSA + N₂
Perf 8455-60 10 } 5/7 frac 25000" 20-40
Perf 8499-8503 5 } in 25000g. MS gel
Perf 8566-67 2 }
Perf 8616-19 4 }

4 1/2" 11.6" 10.5" LSS eng set @ 8828' w/ 275 sy.
PBTD

TD = 8865'KB