

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-101

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address Doyle Hartman P.O. Box 10426 Midland, Tx 79702-7426 915-684-4011		OGRID Number 6473
		API Number 30 - 025-11969
Property Code 13411	Property Name C. T. Bates	Well No. 1

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
L	10	26S	37E		660	West	1980	South	Lea

Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
Proposed Pool 1 Rhodes (Yates-7Rivers)					Proposed Pool 2				

Work Type Code E	Well Type Code G	Cable/Rotary	Lease Type Code P	Ground Level Elevation
Multiple No	Proposed Depth 3600	Formation Queen	Contractor Lucky	Spud Date 01-10-02

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	9 5/8"	36#	1022'	600 sx	Circulated
6 3/4"	5 1/2"		2698'	350 sx	1400 (CBL)
4 3/4" to 6"	4 1/2"	11.6#	2600'-3600'	1600 sx	2600'

22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

In an attempt to avoid encountering a 15,000 BPD to 30,000 BPD waterflow, we propose to re-enter Bates No. 1 well, and return well to beneficial use, so as to recover remaining Yates reserves underlying the subject Rhodes (Yates-7R) proration unit.

Permit Expires 1 Year From Approval

Date Unless Drilling Underway

Re-Entry

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

Signature:

Printed name: Loretta Crawford

Title: Production Analyst

Date: 12-17-01

Phone: 915-684-4011

OIL CONSERVATION DIVISION

Approved By:

Title:

Approval Date: DEC 19 2001

Conditions of Approval:

Attached: ☐

ORIGINAL SIGNED BY
PAUL F. KAUTZ
PETROLEUM ENGINEER

Expiration Date:

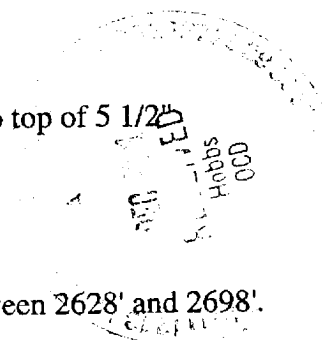
cc: Bates

DEC 21 2001

Page 2 of 3
NMOCD Form C-113 dated 12-17-01
Doyle Hartman
Bates 1
L-10-26S-37E
API No. 30-025-11969

Description of Proposed Well Work

1. Move in and rig up well service unit.
2. Drill out cement to top of 5 1/2" retainer, at 961'.
3. Pressure test 5 1/2" O.D. casing, from 0' to 961', to 2000 psi.
4. Drill 5 1/2" retainer, and cement below retainer. Bottom of cement should be encountered at or about 1061'.
5. Pressure test 5 1/2" O.D. casing.
6. Run 5 1/2" Model "C" packer. Spot acid from 1000' to 1250'. Establish an injection rate into Rustler formation, between 1011' and 1230'.
7. Perform squeeze job through squeeze holes, at 1061', and through any corrosion holes, with 800 sx of API Class "C" cement containing 3% CaCl₂, followed by 200 sx of API Class "C" cement containing 2% CaCl₂.
8. Drill out cement. Pressure test 5 1/2" O.D. casing.
9. Clean out wellbore, to 2627' (top of 5 1/2" CIBP).
10. Drill 5 1/2" CIBP, until slips relax. Push remainder of 5 1/2" CIBP to top of 5 1/2" packer. Pull bottom-hole drilling assembly.
11. Run wash pipe. Recover remainder of 5 1/2" CIBP.
12. Run bottom-hole fishing assembly. Recover 5 1/2" O.D. packer, between 2628' and 2698'.
13. Run bottom-hole drilling and clean out assembly. Clean out open hole, from 2698' to 3150'.
14. Deepen well to approximately 3600'.
15. Run under-reamer assembly. Ream porosity intervals, as necessary, to 6" diameter hole.
16. Thoroughly circulate and clean up wellbore.



Page 3 of 3

NMOCD Form C-113 dated 12-17-01

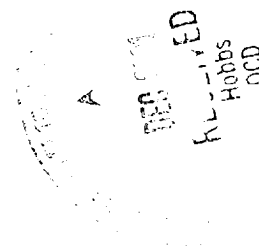
Doyle Hartman

Bates 1

L-10-26S-37E

API No. 30-025-11969

17. Run 4 1/2" O.D., 11.6 lb/ft, J-55, ST-L flush-joint liner, from 2600' to 3600'. Pull liner setting tool.
18. Run and set 5 1/2" Model "C" packer, at 2550'.
19. Squeeze cement 4 1/2" O.D. flush-joint liner, at a cementing rate of 12 BPM to 14 BPM, with 1500 sx of API Class "C" cement containing 2.5 % CaCl_2 , followed by 100 sx of API Class "C" Neat cement. Pull packer.
20. Run bottom-hole drilling assembly. Drill out cement, to bottom of 4 1/2" O.D. flush-joint liner.
21. Displace wellbore with clean 2 % KCL water.
22. Rig up Schlumberger. Log wellbore with VDCBL-GR-CCL log and DS-CNL-GR-CCL log.
23. Perforate, acidize, and frac well.
24. Return well to active producing status, as Rhodes Pool producer.



District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-11969		Pool Code 83810	Pool Name Rhodes (Yates-7Rivers)
Property Code 13411	Property Name C. T. Bates		Well Number 1
OGRID No. 6473	Operator Name Doyle Hartman P.O. Box 10426, Midland, Tx 79702-7426		Elevation 2993

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
L	10	26S	37E		1980	South	660	West	Lea

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
Dedicated Acres 160	Joint or Infill Y	Consolidation Code O	Order No. NSP-12952-A (1/11/91)						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>16</p> <p>Re-entry Rhodes Pool (Yates-Upper 7R) Gas Well C.T. Bates No. 1 1980' FSL & 660' FWL (L) Sec. 10, T-26-S, R-37-E</p>	<p>Blowout Well (P&A'd 1/22/91) C.T. Bates No. 2 1980' FSL & 760' FWL (L) Sec. 10, T-26-S, R-37-E</p>	<p>OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Loretta Crawford</i> Signature Loretta Crawford Printed Name Production Analyst Title 12-18-01 Date</p>
		<p>SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Date of Survey Signature and Seal of Professional Surveyer:</p>
		<p>Existing Rhodes Pool (Lower 7R - Upper Queen) Gas Well C.T. Bates No. 3 1980' FSL & 1980' FWL (K) Sec. 10, T-26-S, R-37-E</p>

Diagram showing well locations and acreage dedication. The diagram includes a grid with sections 10, 26-S, and 37-E. Well locations are marked with stars and labeled: 1 (Re-entry Rhodes Pool), 2 (Blowout Well), and 3 (Existing Rhodes Pool). Arrows indicate distances: 1980' from the surface to the bottom hole location. The diagram also shows the P&A 1/22/91 and P&A 2/26/88 boundaries.

* 100% OF LEASEHOLD OWNED BY DOYLE HARTMAN