Permit Comments

Operator: RB OPERATING COMPANY, 227588

CANDELARIO 24 #002

30-015-33698

| User Name | Comment | 3 | Comment Date |
|--------------|--|------------|-----------------|
| BARRANT | Opeartor to submit h2s contingecy plan per NMOCD Rule 118. Submit letter of stament if conditions in a warrant plan. | rea do not | 8/30/2004 |
| BARRANT | Operator to submit mud program and detailed casing and cementing program. | | 8/30/2004 |
| VBARTON | Operator must submit documentation to satisfy Rule 50. | | 9/7/2004 |

DRILLING PROGRAM

WELL:

RB Production Company, Candelario 24-2

FIELD:

East Loving Delaware

CATEGORY:

Development

STATE:

New Mexico

COUNTY:

Eddy

LOCATION:

330' FNL & 330' FWL, Sec. 24, T-23-S, R-28-E

ELEVATION (G.L.):

3006'

1. ESTIMATED FORMATION TOPS:

| Salt | 570' |
|---------------|-------|
| Delaware | 2640' |
| Cherry Canyon | 3510' |
| Brushy Canyon | 4705' |
| Bone Springs | 6265' |
| Total Depth | 6500' |

There are no potential drilling problems.

Estimate Time to Drill and Evaluate: 10 days

Hole Size:

0' - 570' ----- 12-1/4" 570'- 6500' ----- 7-7/8"

2. ESTIMATED DEPTH AT WHICH WATER, OIL OR GAS ARE **EXPECTED TO BE ENCOUNTERED:**

Water:

160' to 180'

Oil, Gas:

Delaware

Cherry Canyon

2640'

3700'

Lower Brushy Canyon

5965'

3. BOP & ACCESSORY EQUIPMENT:

0 - 570': None 570'- 6500'

1 set-10" double ram 3000# W.P. BOP's 3000# W.P. choke manifold

Wellhead Equipment:

8-5/8" sow X 11" 2000 psi casing head Larkin Model 92 or equivalent 5-1/2" sow X 2-7/8" 2000 psi tubing head Larkin Model R or equivalent 5000# single master valve

4. CASING PROGRAM:

Conductor Casing:

No conductor pipe will be used

Surface Casing:

0' - 570' ----- 8-5/8", 24#, J-55, ST&C

Production Casing:

0' - 6500' ----- 5-1/2", 15.5# & 17#, J-55, LT&C

ACCESSORY EQUIPMENT:

Surface Casing:

1-8-5/8" Texas Pattern Shoe

1-8-5/8" Insert Float Collar

1-8-5/8" x 12-1/4" Centralizer 3-5' above slips

1-8-5/8" x 12-1/4" Centralizer next two joints

1-8-5/8" Stop Ring

Note: Run shoe and insert collar 1 joint apart

Production Casing:

1-5-1/2" Float Shoe

1-5-1/2" Float Collar

2-5-1/2" Stop Rings

1-5-1/2" x 7-7/8" Centralizer 3 - 5' above shoe

1-5-1/2" x 7-7/8" Centralizer around next collar

1-5-1/2" x 7-7/8" Centralizer immediately below float collar

1-5-1/2" x 7-7/8" Centralizer around next 2 collars

1-5-1/2" x 7-7/8" Centralizer alternating collars for next 10 joints (5 centralizers)

Note: Run float shoe and float collar 2 joints apart

1-5-1/2" x 7-7/8" DV Tool @ 3350'

1-5-1/2" x 7-7/8" Centralizer 1 joint above and below DV Tool

5. **CEMENTING PROGRAM**:

Surfing Casing: (based on 100% excess) (circulated to surface)

Spacer: 10 bbls water

Lead Slurry:

350 sx. Class "C" + .25 pps Cello-Seal

Slurry Weight -----14.81 ppg

Slurry Yield ----- 1.33 cu. ft. /sx.

Water Ratio ---- 6.32 gal/sx.

Production Casing:

1st Stage

Lead Slurry:

600 sx 50:50 POZ (Base "C") + 2% Gel + 0.40% TF-4 +

57% water + 0.3% CF-2 + 10 pps Gilsonite

Slurry Weight ---- 13.62 ppg

Slurry Yield ----- 1.33 cu. ft. /sx.

Water Ratio ----- 5.75 gal/sx.

Tail Slurry:

150 sx. Class "C" + 0.2% TF-4 + .3% CF-14 + 56% water

Slurry Weight ----- 14.78 ppg

Slurry Yield ----- 1.33 cu. ft. /sx

Water Ratio ---- 6.32 gal/sx.

2nd Stage (DV Tool @ 3350') (based on 100% excess)

Lead Slurry:

820 sx. 35:65 Poz "C" + 6 % Gel + 10 % salt + 105% water Slurry Weight ----- 12.67 ppg Slurry Yield ----- 2.03 cu. ft. /sx. Water Ratio ----- 10.97 gal/sx.

Tail Slurry:

100 sx. Class "C" + 0.2% CaCl2 + 56% water Slurry Weight ----- 14.78 ppg Slurry Yield ----- 1.33 cu.ft./sx Water Ratio ----- 6.32 gal/sx.

6. **MUD PROGRAM**:

| Specifications | 0 - 570' | 570' - 6000' | 6000' - 6350' |
|----------------|-----------|--------------|---------------|
| | | | |
| Mud wt (ppg) | 8.6 - 9.0 | 9.0 - 10.0 | 10.0 |
| Vis (sec) | 36 - 45 | 28 - 31 | 34 - 38 |
| WL (ml) | N/C | N/C | 15 or less |
| Type System | Gel-Fresh | Gel-Brine | Gel-Brine |

Close Mud System:

A closed mud system will be used. Drill cuttings will be contained on site in steel tanks. They will be trucked to a commercial disposal facility for proper disposal. Water and drilling fluids will be hauled to a commercial disposal facility.

Casing Test:

Before drilling out test surface casing to 1000 psi.

- 7. No abnormal pressures or temperatures are anticipated.
- 8. Review of available geologic and production information in this pool indicate that there will be no hydrogen sulfide encountered from the surface to a TD at the base of the Delaware formation.

| Submit 3 Copies To Appropriate District | State of 1 | New Me | rico | | Form C-103 |
|--|--|------------------------|--------------------|---------------|--|
| Office District Energy, Minerals and Natural Resources | | | | | May 27, 2004 |
| 1625 N. French Dr., Hobbs, NM 88240 WEI | | | | | IPI NO. |
| District II 1301 W. Grand Ave., Artesia, NM 88210 | TO THE STATE OF CHILD SHOW A CION DIVISION AND AND ADDRESS OF THE STATE OF THE STAT | | | | |
| District III 1220 South St. Francis Dr. | | | | | Ate Type of Lease |
| 1000 Rio Brazos Rd., Aztec, NM 87410 District IV | Santa Fe | , NM 87 | 505 | | Oil & Gas Lease No. |
| 1220 S. St. Francis Dr., Santa Fe, NM | | | | | |
| 87505 SUNDRY NOT | ICES AND REPORTS ON | WELLS | | 7. Lease | Name or Unit Agreement Name |
| (DO NOT USE THIS FORM FOR PROPO | SALS TO DRILL OR TO DEEP | EN OR PLU | | | <u> </u> |
| DIFFERENT RESERVOIR. USB "APPLI PROPOSALS.) | | lelario 24 | | | |
| 1. Type of Well: Oil Well | Number 002 | | | | |
| 2. Name of Operator | | | | 9. OGR | D Number |
| RB OPERATING COMPA | INY | | | 2275 | 88 |
| 3. Address of Operator | 4 - 1 4 4 4 4 4 4 4 4 4 | | | 5 | name or Wildcat |
| | Main Street For | t Wor | th, TX 7610 | 2 Lovi | ng: Delaware, Fast |
| 4. Well Location | | | 12 | 220 | fort from the West North |
| Unit Letter D : | 330 feet from the | | line and | 330 | feet from the <u>West</u> line |
| Section 24 | Township 2: | | | NMPM | County 1973 |
| | 11. Elevation (Show who | etner DK, | KKB, KI, GK, etc., | , | |
| Pit or Below-grade Tank Application | er Closure | | | | |
| Pit type Depth to Groundw | vater Distance from near | rest fresh wa | iter well Dis | iance from n | earest surface water |
| Pit Liner Thickness: mil | Below-Grade Tank: Veh | ume | bbls; "C | estruction N | [aterial |
| ··· | Appropriate Box to Inc | ticata Na | | • | |
| 12. CHECK | appropriate box to tre | meare 14e | - | - | |
| NOTICE OF IN | VIENTION TO: | | | | NT REPORT OF: |
| PERFORM REMEDIAL WORK | | | REMEDIAL WOR | | ☐ ALTERING CASING ☐ |
| TEMPORARILY ABANDON | | | COMMENCE DR | | NS. PANDA 🗆 |
| PULL OR ALTER CASING | MULTIPLE COMPL | | CASING/CEMEN | TJOB | |
| OTHER: | | S | OTHER: | | |
| 13. Describe proposed or com | oleted operations. (Clearly | state all p | | d give pert | ment dates, including estimated date |
| of starting any proposed w | ork). SEE RULE 1103. F | or Multiple | e Completions: At | tach wellb | ore diagram of proposed completion |
| or recompletion. | | • | | | |
| •• | | | • | | |
| | | | | | osed loop mud system |
| | | | | | nd hauled to approved |
| disposal site. All | . water and drillin | g truso | s will atso | be naule | en to disposal. |
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| I hereby certify that the information | shows is true and complet | e to the be | of my knowledg | e and helie | f I further certify that any nit or helow. |
| grade tank has been/will be constructed or | r closed according to NMOCD (| midelines [| , a general permit | or an (attacl | ed) alternative OCD-approved plan |
| MANUH | | , | | • | • |
| SIGNATURE ///Y/V/ | (mas) | HEE DI | strict Engin | eer | DATE 9-8-04 |
| Time or agint name 14: -11 ** | Mariania | § R-mail add | Iraapi mmaadaad | | Telephone No.817/810-190 |
| Type or print name Michael K. For State Use Only | MCC:Innis | F-1168TT SCIC | lress: mmcginni | _ | Terebrone 1400 (1/ OTO-130) |
| NA PIRTY VIV VIIII | _وھ | | rasource | s,com | |
| APPROVED BY: | 7 | TTLE | | | DATE |
| Conditions of Approval (if any): | | | | ,, | |