UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

| 1a. Type of Work | | | 5. Lease Number NM-03547 | | | | |
|------------------------------------|---------------------------------------|---|---|--|--|--|--|
| DRILL | | | NIMA 03547 | | | | |
| 1b. Type of Well | | | NM-03547 6. If Indian, Name of Allottee or Tribe | | | | |
| | GAS | | o. w maiding realities of Al- | react of Tribe | | | |
| 2. Operator | | | 7. Unit Agreement Name | | | | |
| CAULKINS OIL COMPANY 3/24 | | | | | | | |
| 3. Address & Phone No. of Operator | | | 8. Farm or Lease Name > Tyumbar | | | | |
| c/o ROBERT VERQUER | | | 2460 BREECH "F" 8M | | | | |
| | P. O. Box 340, Bloomfield, NM 87413 | | 9. Welf Number 8-M 30-039-25688 | | | | |
| | (505) 632-1544 | | | | | | |
| 4. Location of V | Vell | | 10. Filed, Pool, or Wild | | | | |
| | | | Basin Dako | cet 723/9 ota, Blanco Mesa Verde / Sun ICK | | | |
| | | | 11. Section, Township, & Range, Meridian, or Block 34-27N-6W | | | | |
| | 896' FSL & 1604' FEL | | | | | | |
| 14. Distance in | Miles from Nearest Town | - | 12. County | 13. State | | | |
| | 30 miles southeast of Blanco, NM Post | Office. | Rio Arriba | New Mexico | | | |
| 15. Distance fro | om . | 16. Acres ir | l_ease | 17. Acres Assigned to Well | | | |
| Proposed Lo | ocation | | | | | | |
| To Nearest | Property 1036' | 1600 Acres | | E - 320 Acres | | | |
| Line or Leas | | | | E/320 | | | |
| 18. Distance Fro | | 19. Proposed Depth | | 20. Rotary or Cable Tools | | | |
| Proposed Lo | ocation | | | | | | |
| To Nearest | | 7670' | | ROTARY | | | |
| Compl., Or A | `` | | | galanta di Chinade de China di Caranta da Maria | | | |
| For on Lease | | 77. | | <u> </u> | | | |
| 21. Elevations (C | - | | 22. Approximate Date Work Will Start | | | | |
| | 6610' GR | | July 15, 199 | 97 | | | |
| 23. Proposed Ca | asing and Cementing Program | | | ID) IE (C) IE II W IE IV | | | |
| 514 HD470 | | | | | | | |
| EXHIBIT 2 | attached as follows | | | uu jun 1 1 1997 🗀 | | | |
| | "A" Location and Elevation Plat | | "F" Drill Rig Layout | | | | |
| | "B" Ten-Point Compliance Program | | "G" Production Facility | | | | |
| | "C" Blowout Preventer Schematic | | "H" Acerage dedication | DIST. 3 | | | |
| | "D" Multi-Point Requirements for APD | | | | | | |
| · | "E" Vicinity Map - Access Roads | | | of the separate was | | | |
| 04 6: | Robert I Verane | | | | | | |
| 24. Signed | Robert L. Verquer | Title | Superintendent | Date <u>05/12/97</u> | | | |
| | Floor C. Verquer | *************************************** | | | | | |
| | | | | | | | |
| Permit No. | | | Approval Date | JUN 0 6 199/ | | | |
| | | | _ Applioral Date | | | | |
| Approved By | /S/ Duane W. Spencer- | Title | | Date JIN - 6 1997 | | | |
| | | | | | | | |

NOTE: THIS FORMAT IS ISSUED IN LIEU OF U.S. BLM FORM 3160-3



NNIOCD

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised Febuary 21, 1994

Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

P) Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, NM 87504-2088

97 MAY 13 ANNO: 23 □ AMENDED REPORT

RECEIVE

WELL LOCATION AND ACREAGE DEDICATION PLAN 1API Number Pool Code 30-039-25688 Basin Dakota and Blanco Mesa Verde • Well Number Property Code *Property Name BREECH "F" 2460 8M Operator Name OGRID No. Elevation CAULKINS OIL COMPANY 6610 Surface Location UL or lot no. Feet from the North/South line Section Township Range Lot Idn Feet from the East/West line County 34 27N 896 O 6W SOUTH 1604 **EAST** RIO ARRIBA 11 Bottom Hole Location If Different From Surface UL or lot no. Feet from the North/South line | Feet from the Section Township Lot Idn East/West line County B Dedicated Acres 18 Joint or Infill "Corsolidation Code | "Order No. 320 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 FD. B.C. B.L.M. 16 17 OPERATOR CERTIFICATION I hereby vertify that the information contained herein is true and complete to the best of my knowledge and bellef 36 Robert L. Verquei Superintendent Title 18 SURVEYOR CERTIFICATION OIL COM. DIV hereby certify that the well location shown on this plat as plotted from field notes of actual surveys made by m r under my supervision, and that the same is true and correct to the best of my belief. -00 66Y 1097 APRII Date of Survey Signature at 1604 889 SSIONN Certificate Numb S 89-58 W 524.2.38

EXHIBIT "H"

FD. B.C. B.L.M. 1955

EXHIBIT "B"

TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company
Breech "F" 8-M
896' FSL & 1604' FEL, Sec. 34, 27N, 6VV
Rio Arriba County, New Mexico
Lease No. NM - 03547 CAD THE THE LEGAL NAM

- The Geological Surface Formation is: San Jose.
- The Estimated Tops of Important Geological Markers:

| Oio Alamo | 2576 |
|----------------|------|
| Fruitland | 3005 |
| Picture Cliffs | 3168 |
| Chacra | 4140 |
| Point Lookout | 5370 |
| Greenhorn | 7288 |
| Dakota | 7510 |
| TD | 7670 |

Estimated Depths and pressures of Anticipated Water, Oil, Gas or Minerals:

| Substance | Formation | Depth | Pressure |
|-----------|-----------------|-------|----------|
| Water | Alamo | 2672 | 0 |
| Gas | Fruit and | 3149 | 200 |
| Gas | Pictured Cliffs | 3224 | 450 |
| Gas | Chara | 4215 | 500 |
| Gas | Mesa Verde | 5476 | 1000 |
| Gas | Dakota | 7610 | 1500 |

The proposed casing program will be as follows:

| Depth | Hole Size | O.D. | Weight | Grade | Туре | New/Used |
|-----------|-----------|-------|--------|-------|------|----------|
| 0-450 | 12-1/4 | 9-5/8 | 36# | J55 | LT&C | NEW |
| 0-1000 | 7-7/8 | 5-1/2 | 17# | K55 | LT&C | NEW |
| 1000-6650 | 7-7/8 | 5-1/2 | 15.5# | K55 | LT&C | NEW |
| 6650-7670 | 7-7/8 | 5-1/2 | 17# | K55 | LT&C | NEW |

The proposed cement program will be as follows:

Surface:

197 sacks class H with 1% CaCl and 1/4# per sack cellophane flake.

VOLUME CALCULATIONS

450 ft x 0.3132 cu-ft/ft with 60% excess = 225 cu-ft YIELD 1.14

PRODUCTION:

Cement will be run in three stages with

stage tools set at approximatly 3650' and 5650'.

1st stage

Cement thru shoe at approx. 7670' with 210 sacks class B 35/65 poz + 6% gel (bentonite) + 1/4#/sk cellophane flake followed by 100 sacks class H

+ 1% CaCl + 1/4# /sk cellophane flake.

VOLUME CALCULATIONS

1361 ft x 0.1732 cu-ft/ft with 60% excess = 377 cu-ft 659 ft x 0.1732 cu-ft/ft with 0% excess = 114 cu-ftYIELD 1.79 YIELD 1.14

2nd stage

Cement thru tool at approx. 5650° with 207 sacks class B 35/65 poz + 6% gel [bentonite] + 1/4#/sk cellophane flake followed by 100 sacks class H + 1% CaCl + 1/4#/sk cellophane flake.

VOLUME CALCULATIONS

YIELD 1.79 YIELD 1.14 1341 ft x 0.1732 cu-ft/ft with 60% excess = 372 cu-ft 659 ft x 0.1732 cu-ft/ft with 0% excess = 114 cu-ft

EXHIEIT "B"

TEN POINT COMPLIANCE PROGRAM

Caulkins Oil Company Breech "F" 8-M 896' FSL & 1604' FEL, Sec. 34, 27N, 6\V Rio Arriba County, New Mexico Lease No. NM - 03547

3rd stage

Cement thru tool at approx. 3650' with 463 sacks class B 35/65 poz + 6\% gel (bentonite) + 1/4# /sk cellophane flake followed by 100 sacks Class H + 1% CaCl + 1/4# /sk cellophane flake.

VOLUME CALCULATIONS

2991 ft x 0.1732 cu-ft/ft with 60% excess = 829 cu-ft YIELD 1.79 YIELD 1.14 659 ft x 0.1732 cu-ft/ft with 0% excess = 114 cu-ft

NOTE: Cement volume will be based on information from open hole logs and will be calculated TD to surface plus 10%.

5. Operator's Minimum Specifications for Pressure Control:

EXHIBIT "C" is a schematic of a 2M blowout preventer system. The BOP's will be hydraulically tested prior to drilling out from under surface and operational checks will be made daily thereafter and recorded in the drilling tour report. Accessories to ISOP will include floor safety valve and choke manifold with pressure rating equivalent to the BOP stack.

6. The type and Characteristics of the Proposed Circulating Muds:

Mud system will be gel-chemical with adequate stocks of absorbent agents on location to handle possible spills of fuel and oil in the surface. Heavier muds will be on location to be added if pressure requires.

| Interval | Mud Wt | Vis | Fluid Loss | Ph | Additives |
|----------|--------|-------|---------------|----|-----------|
| 0- 450 | 9.0 | 50 | | 9 | Lime |
| 450-TD | 9.0 | 34-40 | 8cc | 9 | Chemicals |

- 7. Auxiliary equipment to be used is as follows:
 - a. FLoat valve above bit.
 - b. Monitoring of mud system will be visual.
 - c. A sub with a full opening valve will be on the floor when the kelly is not in use.
- 8. Testing, logging and coring will be as follows:
 - a. Cores none will be taken.

 - b. Drill stem tests none anticipated. c. Logging IEG and FDC from surface pipe to TD.
- 9. Anticipated Abnormal Pressures and Temperatures:

No abnormal pressure, temperatures or hydrogen sulfide gases are anticipated during the course of drilling to TD. The maximum bottom hole pressure to be expected is 1500 psi.

10. Anticipated Starting Date and Duration of the Operations:

The anticipated starting date is set for July 20, 1997, or as soon as possible after examination and approval cf drilling requirements. Operations should be completed within 25 days.

