UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

| la. | Type of Work DRILL | 5. Lease Number SF-078580 | | | |
|-------|--|---|--|--|--|
| | | Unit Reporting Number | | | |
| ib. | Type of Well GAS — | 6. If Indian, All. or Tribe | | | |
| 2. | Operator BURLINGTON RESOURCES Oil & Gas Company | 7. Unit Agreement Name | | | |
| 3. | Address & Phone No. of Operator PO Box 4289, Farmington, NM 83499RECEVED | Farm or Lease Name Howell C | | | |
| | (505) 326-9700 OIL CON. DIV | 9: Well Number #3B | | | |
| 4. | Location of Well 1560'FNL, 1105'FEL | 10. Field, Pool, Wildcat Blanco PC/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) | | | |
| | Latitude 36 ⁰ 49.7, Longitude 107 ⁰ 42.7 | /- Sec. 7, T-30-N, R-8-W API # 30-045-30325 | | | |
| 14. | Distance in Miles from Nearest Town 8 miles from Navajo Dam Post Office | 12. County 13. State San Juan NM | | | |
| 15. | Distance from Proposed Location to Nearest Property or Lease Lin | е | | | |
| 16. | Acres in Lease | 17. Acres Assigned to Well PC: NE/160 MV: E/320 | | | |
| 18. | Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1200' This section is subject to technical and | | | | |
| 19. | Proposed Depth procedural neview pursuant to 43 CFR 3 and appeal pursuant to 43 CFR 3165.4 | Rotary or Cable Tools Rotary | | | |
| 21. | Elevations (DF, FT, GR, Etc.) 6282'~GL | 22. Approx. Date Work will Start | | | |
| 23. | Proposed Casing and Cementing Program See Operations Plan attached | DRILLING OPERATIONS AUTHORIZED AR SUBJECT TO COMPLIANCE WITH ATTACH "GLHERAL REQUIREMENTS". | | | |
| 24. | Authorized by: Régulatory/Compliance Supervisor | 8-1-00 Date | | | |
| | AIT NO. APPROVAL D | ATF | | | |
| PERIV | ROVED BY /S/ Jim Lovato TITLE | | | | |

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

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

District II PO Drawer DD, Artesia, NM 88211-0719

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

District IV PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office State Lease - 4 Copies OIL CONSERVATION DIVISION

Fee Lease - 3 Copies

Santa Fe, NM 87504-2088 -3 Al 1:19 PO Box 2088

AMENDED REPORT

UN Walling on the

WELL LOCATION AND ACREAGE DEDICATION PLAT

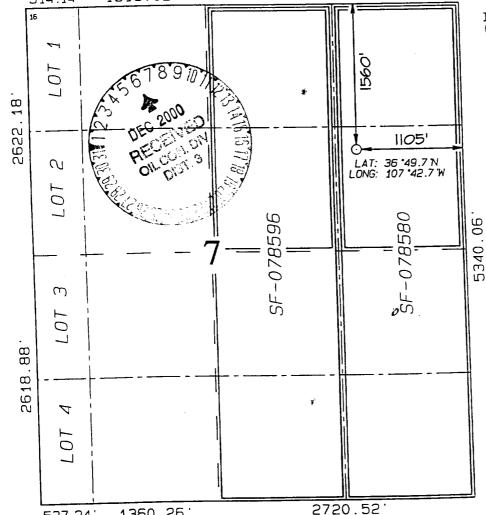
| 'API Number 30-045- 30375 | | Pool Code 72359/72319 Blanco Pictured Cliffs/Blanco | | |) Mesaverde | |
|------------------------------|---|--|---------------|----------------|---------------------|--|
| 'Property Code | ³Pı | Poperty Name OWELL C | | , M6 | 11 Number 38 | |
| 70GRID No. 14538 | *Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY | | | | 'Elevation 6282- | |
| U or lot no. Section Tow | 10 SUR f | ace Location whithe North/South line | Feet from the | East/West line | County | |

FAST SAN JUAN NORTH 1105 30N 8W 1560 Different From Surface 11 Bottom Hole Location If North/South line Feet from the East/West line County Lat Idn Feet from the Township Section UL or lot no. 13 Joint or Infill 14 Consolidation Code 15 Order No. PC: NE/160

MV: E/3202636.70 1318.02 514.14

1360 261

E27 24'



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

" OPERATOR CERTIFICATION I hereby centify that the information contained herein is true and complete to the best of my knowledge and belief

Peggy Cole

Printed Name

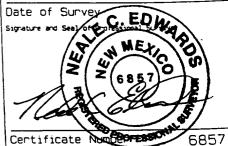
Regulatory Supervisor Title

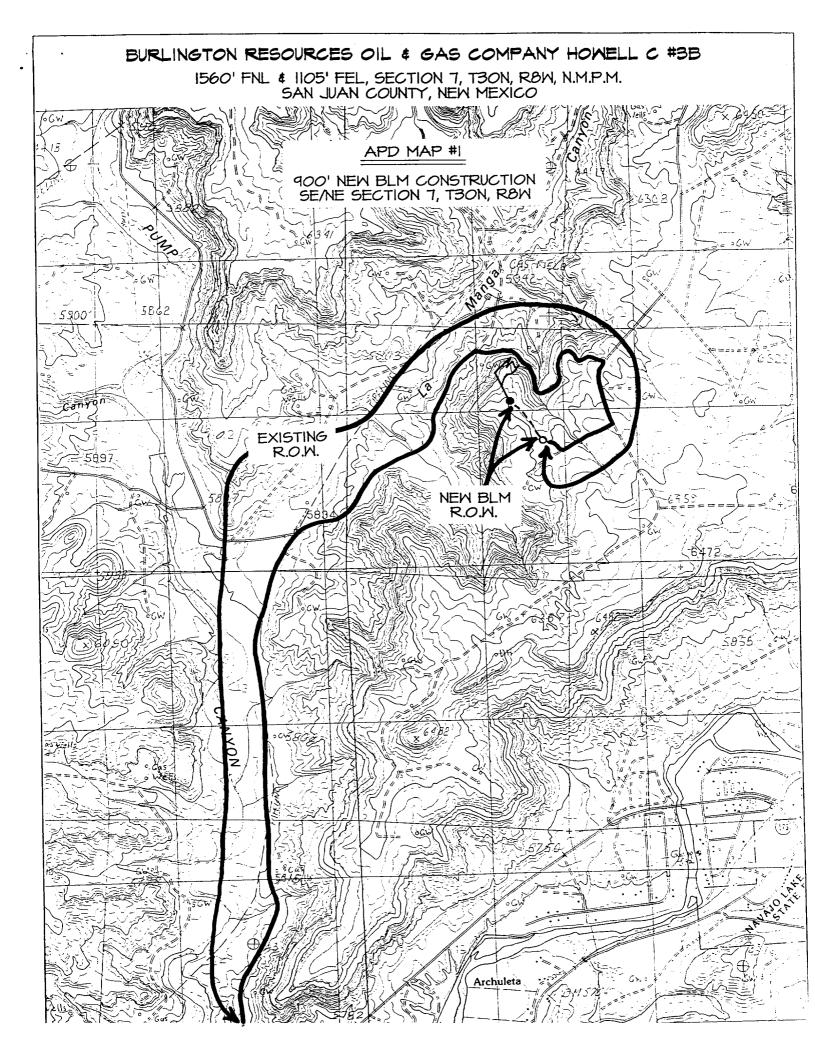
1-00

Date

18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this bla was plotted from field notes of actual surveys made by m or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 1, 2000





OPERATIONS PLAN

Well Name: Howell C #3B

Surface Location: 1560'FNL, 1105'FEL, Section 7, T-30-N, R-8-W

San Juan County, New Mexico

Latitude 36° 49.7, Longitude 107° 42.7

Formation: Blanco Pictured Cliffs/Blanco Mesaverde

Elevation: 6282' GL

| Formation Tops: | Top | <u>Bottom</u> | <u>Contents</u> |
|---------------------|----------------|---------------|-----------------|
| | San Jose | 1844' | aguifer |
| Surface | | | - |
| Ojo Alamo | 1844′ | 2000′ | aquifer |
| Kirtland | 2000′ | 2484′ | gas |
| Fruitland | 2484' | 3074' | gas |
| Pictured Cliffs | 3074' | 3174' | gas |
| Lewis | 31 74 ′ | 3780′ | gas |
| Intermediate TD | 3274' | | |
| Mesa Verde | 3780' | 4114' | gas |
| Chacra | 4114' | 4814′ | gas |
| Massive Cliff House | 4814' | 4929′ | gas |
| Menefee | 4929' | 5277' | gas |
| Point Lookout | 5277' | 5677 <i>'</i> | gas |
| Total Depth | 5677 <i>'</i> | | |

Logging Program:

Cased hole logging - Gamma Ray, Cement bond from surface to TD Open hole logging - Array Induction, Neutron-Density - intermediate TD Mud Logs/Coring/DST - none

Mud Program:

| Interval- MD | <u>Type</u> | <u>Weight</u> | <u>Vis.</u> | <u>Fluid Loss</u> |
|--------------|-------------|---------------|-------------|-------------------|
| 0- 200' | Spud | 8.4-9.0 | 40-50 | no control |
| 200- 3274' | LSND | 8.4-9.0 | 30-60 | no control |
| 3274- 5677' | Air/Mist | n/a | n/a | n/a |

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the equivalent, or better):

Measured

| Hole Size | Depth | <u>Csq Size</u> | <u>Weight</u> | <u>Grade</u> |
|-----------|---------------|-----------------|---------------|--------------|
| 12 1/4" | 0' - 200' | 9 5/8" | 32.3# | H-40 |
| 8 3/4" | 0' - 3274' | 7" | 20.0# | J-55 |
| 6 1/4" | 3174' - 5677- | 4 1/2" | 10.5# | J-55 |

Tubing Program: 0'-5677' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

BOP Specifications, Wellhead and Tests (cont'd):

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/343 sx Class "B" w/3% sodium metasilicate, 5# gilsonite/sx and 0.5# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% gel, 2% calcium chloride, 5# gilsonite/sx and 0.25# flocele/sx (994 cu.ft. of slurry, 125% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 2384'. First stage: cement with 212 sx Class "B" 50/50 poz cmt with 2% gel, 2% calcium chloride, 5 pps gilsonite, 0.25 pps flocele. Second stage: 246 sx Class "B" with 3% sodium metasilicate, 0.5 pps Flocele, 5 pps Gilsonite (984 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 2000'. Two turbolating centralizers at the base of the Ojo Alamo at 2000'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -

Cement to circulate liner top. Pump 256 sx 50/50 Class "B" Poz w/1/4# flocele/sx, 2% gel, 0.1% retardant, 5# gilsonite/sx and 0.4% fluid loss additive (360 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

• If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Air/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Pictured Cliffs/Mesaverde formations will be completed and dualled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 800 psi Pictured Cliffs 800 psi Mesa Verde 700 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The northeast quarter of Section 7 is dedicated to the Pictured Cliffs and the east half of Section 7 is dedicated to the Mesa Verde.
- This gas is dedicated.

| Leslie C. White | 8/2/00 | |
|-------------------|--------|--|
| Orilling Engineer | Date | |