

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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|--|--|
| 1a. Type of Work DRILL | 5. Lease Number SF-081155 Unit Reporting Number |
| 1b. Type of Well GAS | 6. If Indian, All. or Tribe |
| 2. Operator BURLINGTON RESOURCES Oil & Gas Company | 7. Unit Agreement Name Allison Unit |
| 3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700 | 8. Farm or Lease Name Allison Unit 9. Well Number #75 |
| 4. Location of Well 995' FSL, 1040' FWL Latitude 36° 57.7, Longitude 107° 30.3 | 10. Field, Pool, Wildcat S. Los Pinos Fruitland sd PC 11. Sec., Twn, Rge, Mer. (NMPM) M Sec. 19, T-32-N, R-6-W API # 30-045- 30207 |
| 14. Distance in Miles from Nearest Town 5 mi from Allison | 12. County San Juan 13. State NM |
| 15. Distance from Proposed Location to Nearest Property or Lease Line 995' | |
| 16. Acres in Lease | 17. Acres Assigned to Well 158.03 SW/4 |
| 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 75' | |
| 19. Proposed Depth 3650' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4. | 20. Rotary or Cable Tools Rotary |
| 21. Elevations (DF, FT, GR, Etc.) 6429' GL | 22. Approx. Date Work will Start |
| 23. Proposed Casing and Cementing Program See Operations Plan attached | DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS" |
| 24. Authorized by: <u>Regina Cole</u> Regulatory/Compliance Administrator | <u>1-25-00</u> Date |

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY /s/ Charlie Beechan TITLE _____ DATE MAR 31 2000

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.

NMOCD

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

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 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 30-045-30207 | | *Pool Code 80690 | *Pool Name South Los Pinos Fruitland sd Pict.Cliffs |
| *Property Code 6784 | *Property Name ALLISON UNIT | | *Well Number 75 |
| *OGRID No. 14538 | *Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY | | *Elevation 6429' |

¹⁰ Surface Location

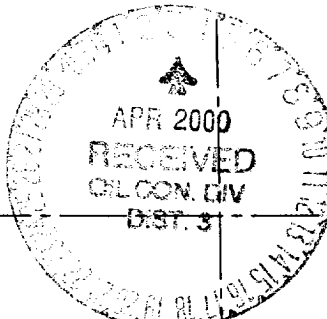
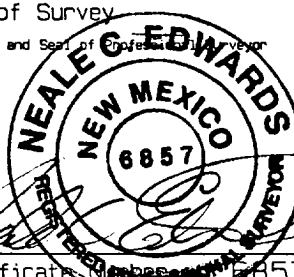
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| M | 19 | 32N | 6W | | 995 | SOUTH | 1040 | WEST | SAN JUAN |

¹¹ 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |

| | | | |
|---|-------------------------------|----------------------------------|-------------------------|
| ¹² Dedicated Acres 158.03 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. |
|---|-------------------------------|----------------------------------|-------------------------|

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

| | | |
|---|---|---|
| ¹⁶ 1312.08' LOT 1 2654.52' LOT 2 2661.78' LOT 3 USA SF-081155 LOT 4 1040' 1275.12' 19 1314.06' 2657.82' |  2650.56' 2772.66' | ¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Peggy Cole Printed Name Regulatory Administrator Title Date NOVEMBER 4, 1999 Date of Survey Signature and Seal of Professional Surveyor  Certificate Number 6857 |
|---|---|---|

OPERATIONS PLAN

Well Name: Allison Unit #75
Location: 995'FSL, 1040'FWL, Section 19, T-32-N, R-6-W
San Juan County, New Mexico
Latitude 36° 57.7, Longitude 107° 30.3
Formation: South Los Pinos Fruitland Sand Pictured Cliffs
Elevation: 6429'GL

| Formation: | Top | Bottom | Contents |
|-------------------|------------|---------------|-----------------|
| Surface | San Jose | 2260' | |
| Ojo Alamo | 2260' | 2370' | aquifer |
| Kirtland | 2370' | 2890' | gas |
| Fruitland | 2890' | 3105' | gas |
| Pictured Cliffs | 3105' | 3390' | gas |
| Lewis | 3390' | | gas |
| Total Depth | 3650' | | |

Logging Program: 2650' to TD - GR-SP-IND-NEU-DEN-CAL
Surface to TD - GR-SP-IND-CAL

Coring Program: none

Mud Program:

| <u>Interval</u> | <u>Type</u> | <u>Weight</u> | <u>Vis.</u> | <u>Fluid Loss</u> |
|-----------------|-------------|---------------|-------------|-------------------|
| 0- 200' | Spud | 8.4-9.0 | 40-50 | no control |
| 200-3650' | LSND | 8.4-9.0 | 40-60 | no control |

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

| <u>Hole Size</u> | <u>Depth Interval</u> | <u>Csq.Size</u> | <u>Wt.</u> | <u>Grade</u> |
|------------------|-----------------------|-----------------|------------|--------------|
| 12 1/4" | 0 - 200' | 8 5/8" | 24.0# | K-55 |
| 7 7/8" | 0 - 3650' | 4 1/2" | 10.5# | K-55 |

Tubing Program: 2 3/8" 4.7# J-55 to TD

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.
Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Seven centralizers run every 3rd joint to the base of the Ojo Alamo @ 2370'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2370'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 4 1/2" 2000 psi screw on independent wellhead.

Cementing:

8 5/8" surface casing - cement with 210 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (248 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Allison Unit #75

4 ½" production casing - Lead w/519 sx Class "B" w/3% sodium metasilicate, 1/2 pps cellophane and 10 pps gilsonite. Tail w/90 sx 50/50 Class "B" Poz w/2% gel, 1/2 pps cellophane, 10 pps gilsonite and 2% calcium chloride (1663 cu.ft. of slurry, 100% excess to circulate to surface). WOC 8 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

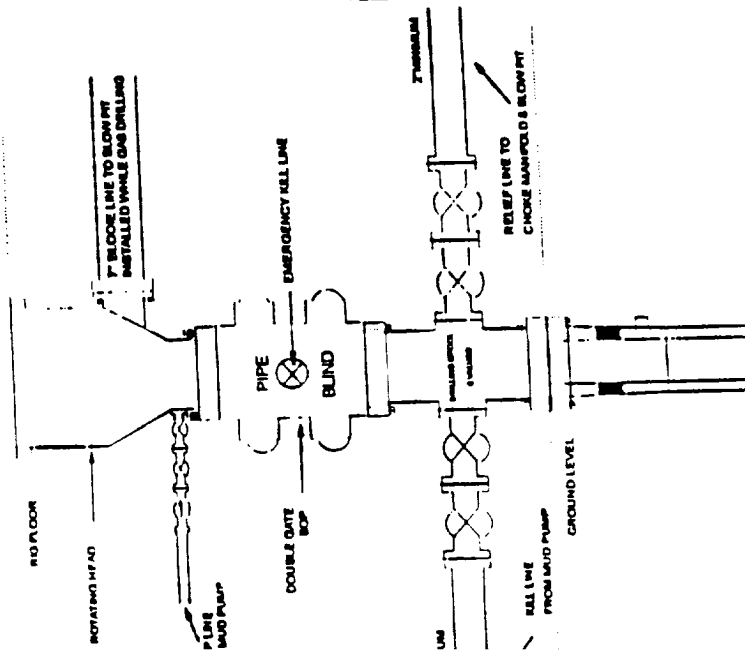
Additional information:

- * The Pictured Cliffs formation will be completed.
- * Anticipated pore pressure for the Pictured Cliffs is 600 psi.
- * This gas is dedicated.
- * The southwest quarter of section 19 is dedicated to the Pictured Cliffs.

Steve Campbell
Drilling Engineer

11/25/2000
Date

BOP Configuration 2M psi System

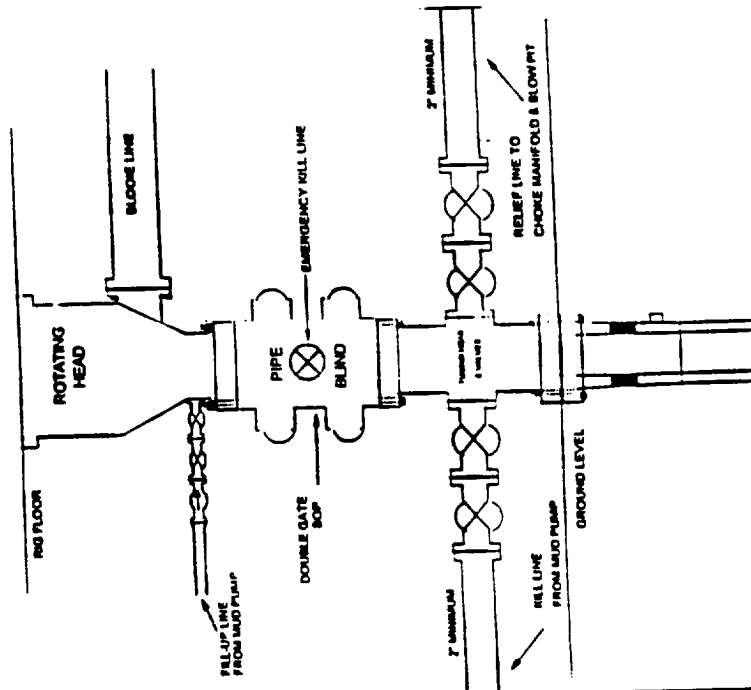


Bore, 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaeffer Type 50 or equivalent rotating head to be installed on the top of the BOP. All equipment is 2000psi working pressure or better.

FIGURE #1

BURLINGTON RESOURCES

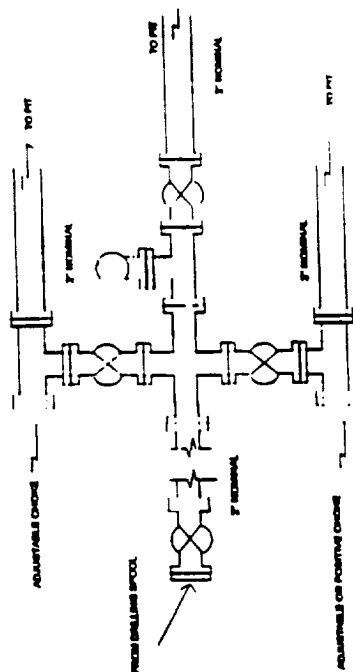
BOP Configuration 2M psi System



Minimum BOP installation for Completion operations. 7 1/16" Bore (6" Nominal). 2,000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams.

FIGURE #2

Choke Manifold Configuration 2M System



Minimum choke manifold installation from surface to Total Depth. 2" minimum, 2000psi working pressure equipment with two chokes

Figure #3

BURLINGTON RESOURCES OIL & GAS COMPANY ALLISON UNIT #75

995' FSL & 1040' FWL, SECTION 19, T32N, R6W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

APD MAP #1

NO NEW CONSTRUCTION
SWSW SECTION 19, T32N, R6W

