UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

DECRIVED

| | APPLICATION | ON FOR PERMIT TO DRILL, DE | EPEN, OR PLUG BACK |
|--------|---------------------------------|------------------------------------|----------------------------------|
| la. | Type of Work | | 5. Lease Number 755 AR 24 |
| | DRILL | | SF-080674 Unit Reporting Number |
| | | | MV-8910010510 Farmingto |
| | | | DK-891001051B |
| b. | Type of Well | | 6. If Indian, All. or Tribe |
| | GAS | | |
| | | had Brown | , <u>c.</u> |
| • | Operator | <i>[∂ k, h ∈ ??</i> ? | -7. Unit Agreement Name |
| | BURLINGTON | 00 | |
| | RESCURCES Oil & | Gas Company (1) | San Juan 27-4 Unit |
| | Address & Phone No. of O | | 8. Farm or Lease Name |
| | PO Box 4289, Farm | ington, NM 87499 | San Juan 27-4 Unit |
| | 4505) 204 0700 | | 9. Well Number |
| | (505) 326-9700 | | #99M |
| | Location of Well | | 10. Field, Pool, Wildcat |
| • | 1660' FNL, 70' FWL | | Blanco Mesaverde/Basin Dakot |
| | · | | 11. Sec., Twn, Rge, Mer. (NMPM) |
| ati | tude 36° 34.5515'N, I | ongitude 107° 15.8538'W | Sec. 16, T27N, R04W |
| | | | API# 30-039- 27634 |
| ļ | Distance in Miles from Nea | rest Town | 12. County 13. State |
| | 18 miles to Goberna | dor | Rio Arriba (NM |
| | | | |
| 5. | Distance from Proposed Le | ocation to Nearest Property or Lea | se Line |
| 6. | Acres in Lease | | 17. Acres Assigned to Well |
| | | | MV-320 W/2 |
| | | | DK-320 W/2 |
| 3. | Distance from Proposed L | ocation to Nearest Well, Drlg, Com | pl, or Applied for on this Lease |
| | 900' | | |
| 9. | Proposed Depth | | 20. Rotary or Cable Tools |
| | 8269 ' | | Rotary |
| 1. | Elevations (DF, FT, GR, Etc | -1 | 22. Approx. Date Work will Start |
| •• | 6947' GR | ~, | ee. Approx. Date Work will Staft |
| | 33 1, 31 | | |
| 3. | Proposed Casing and Cem | enting Program | |
| | See Operations Pl | an attached | |
| | | | |
| | | . 0 . | |
| | | ori (Och | 1/2/24 |
| 4. | Authorized by: | han Canadaldat | 4/2/07 |
| | Regulat | pry Specialist | Date |
| | | | |
| 'ERN | IIT NO. | APPROVA | AL DATE |
| 4PPR | OVED BY | STITLE A | EM DATE /-3/-0 |
| | · · · · · · · · · · · · · · · · | | |
| | | | |
| cha | eological Report attached | | |

Threatened and Endangered Species Report attached

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

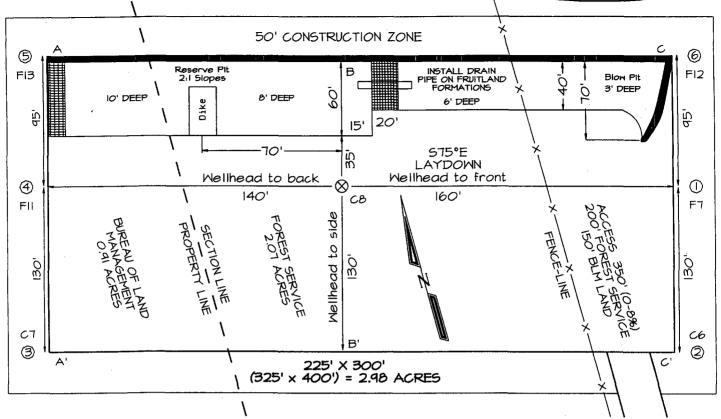
District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease – 4 Copies
Fee Lease – 3 Copies

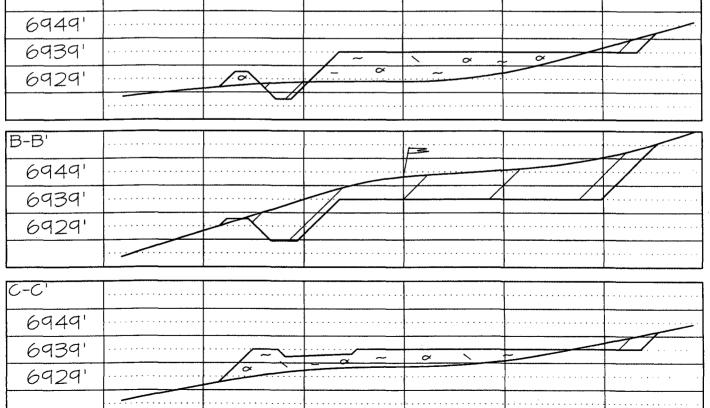
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

AMENDED REPORT

| | | | WELL | LOCAT | ION AND A | CREAGE DEDI | CAT | ION PL | ΑT | | |
|--|------------|-----------------|--------------------|---|----------------------------------|----------------------------------|---------------------|---|---|--|--|
| A. | PI Number | 21 | | *Pool Coo | de e | | | ³ Pool Name | 3 | | |
| 'Property Code | | | 9/71599 | 99 Blanco Mesaverde/Basin Dakota Property Name Well Number SAN JUAN 27-4 UNIT 99M | | | | | | | |
| 7452 70GRID No. 14538 BURLING | | | NGTON F | *Operator RESOURCES (| Name . DIL & GAS CO | MPA1 | NY, ĻP | | | levation 1947 | |
| | | | | ···· | ¹⁰ Surface | Location | | - | | | · |
| UL or lot no. | Section 16 | Township 27N | Range 4W | Lot Idn | Feet from the | North/South line NORTH | Feet | from the | | ST | County RIO ARRIBA |
| | | | Bottom | Hole L | ocation I | | | m Surf | ace | | |
| UL or let no. | Section | Township | Range | Lot Ion | Feet from the | North/South line | Feet | t from the | East/W | est line | County |
| ¹² Dedicated Acres MV-W/32 | | | | | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ²⁵ Order | No. | <u> </u> | | |
| NO ALLOW | | ILL BE A | ASSIGNE(NON-ST | D TO TH ANDARD | L IS COMPLETIO UNIT HAS BE | ON UNTIL ALL EN APPROVED | INTE BY T | RESTS H | IAVE BE | EEN CON | SOLIDATED |
| LONG: 107 DATUM 10' | : NAD27 | SF-080 | | 16 - | WIN 'UO;6u | | 5280.00 | I hereby contained to the base Signature Signature Frinted Regarded Title Date 18 SURVE I hereby shown on notes of amy supervised Correct Survey Signature | e Cla Name gulato EYOR certify the this plate issue, and Seal CON And Seal | that the ir is true and knowledge rk rk ry Special CERTIF at the well was plotte that the special that the special control of Profess C. EDWA MEXICO 5269 | cialist CATION 1 location of from field by me or undersame is true belief. R 13, 2003 ional Surveyor |
| | | | 52 | 58.22 ' | CEALED | | | UAS _C | ficate | | 15269 |



Reserve Pit Dike: to be 8' above Deep side (overflow — 3' wide and 1' above shallow side). Blow Pit: overflow pipe halfway between top and bottom and to extend over plastic liner and into blow pit.



Note: Contractor should call One–Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

OPERATIONS PLAN

Well Name: San Juan 27-4 Unit #99M

Location: 1660'FNL, 70'FWL, Sec 16, T-27-N, R-4-W

Rio Arriba County, NM

Latitude 36° 34.5'N Longitude 107° 15.8'W

Formation: Blanco Mesaverde/Basin Dakota

| Formation Tops: | Top | Bottom Contents | | |
|----------------------|---------------|-----------------|--------------|--|
| Surface | San Jose | 3204' | | |
| Ojo Alamo | 3204' | 3434' | aquifer | |
| Kirtland | 3434' | 3649' | gas | |
| Fruitland | 3649' | 3814' | | |
| Pictured Cliffs | 3814' | 3909' | gas | |
| Lewis | 3909′ | 4327′ | gas | |
| Intermediate TD | 4009' | | Ū | |
| Huerfanito Bentonite | 4327' | 4791' | gas | |
| Chacra | 4791' | 5404' | gas | |
| Upper Cliff House | 5404′ | 5514' | - | |
| Massive Cliff House | 5514' | 5649' | | |
| Menefee | 5649′ | 6001' | gas | |
| Point Lookout | 6001' | 6519 ′ | gas | |
| Mancos | 6519′ | 7157′ | gas | |
| Gallup | 715 7′ | 7941′ | gas | |
| Greenhorn | 7941' | 8008' | gas | |
| Graneros | 8008 | 8046' | gas | |
| Dakota | 8046′ | 8162′ | gas | |
| Upper Cubero | 8162' | 8206′ | gas | |
| Lower Cubero | 8206′ | 8254' | gas | |
| Oak Canyon | 8254' | | _ | |
| TD | 8269′ | | | |

Logging Program:

Mud Logs/Coring/DST -

Mud logs - none
Coring - none
DST - none
Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

Mud Program:

| au rrogram. | | | |
|-------------|-----------------------|---------|------------------|
| Interval | Type | Weight | Vis. Fluid Loss |
| 0- 200' | Spud MUD/Air/Air Mist | 8.4-9.0 | 40-50 no control |
| 200- 4009' | LSND | 8.4-9.0 | 30-60 no control |
| 4009- 8269' | Air/Air Mist/Nitrogen | n/a | n/a n/a |

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

| Hole Size | Depth Interval | Csg.Size Wt. | Grade |
|-----------|----------------|--------------|-------|
| 12 1/4" | 0' - 200' | 9 5/8" 32.3# | H-40 |
| 8 3/4" | 0' - 4000' | 7" 20.0# | J-55 |
| 8 3/4" | 4000' - 4486' | 7" 23.0# | N-80 |
| 6 1/4" | 0' ~ 7800' | 4 1/2" 10.5# | J-55 |
| 6 4" | 7800' - 8269' | 4 ½" 11.6# | N-80 |

<u>Tubing Program:</u> 0' - 8269' 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.

Operations Plan - San Juan 27-4 Unit #99M

Page Two

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 4 ½" x 2 3/8" x 2000 psi tree assembly.

- · 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 conventionally drilled - Cement with 147 sacks Brownian 3/3/04

Cement with 147 sacks Bremium Lite cement with 0.25 pps Celloflake, 3% calcium chloride. (188 cu ft - 200% excess, bring cement to surface). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

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 with 361 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail w/90 sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (894 cu. ft.- 50% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

intermediate casing alternative two stage: Stage collar set 300' above the top of the Fruitland. First stage: Lead w/12 sacks Premium Lite cement w/ 3% calcium chloride, 0.25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% SMS. Tail w/90 sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 350 sacks with Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (894 cu. ft. - 50% 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 @ 3204'. Two turbolating centralizers at the base of the Ojo Alamo 3204'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Cement with 293 sacks Premium Lite HS w/ 0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. (580 cu.ft. - 30% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

Cement float collar stacked on top of float shoe.

If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Operations Plan - San Juan 27-4 Unit #99M Page Three 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 air/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 Mesa Verde and Dakota formation will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi Pictured Cliffs 600 psi Mesa Verde 700 psi Dakota 2500 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 west half of Section 16 is dedicated to the Mesa Verde, and the west half of Section 16 is dedicated to Dakota.
- This gas is dedicated.

Completion/Workover Rig BOP Configuration 2,000 pei System

Drilling Rig Chote Manifold Configuration 2000 pel System

Burlington Resources

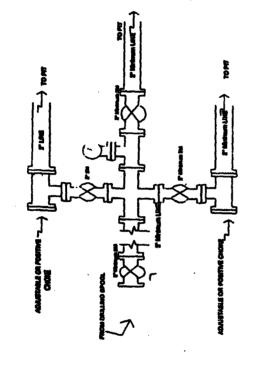
2000 pel System **Dritting Rig**

No Ploca

NOTATIVO HEAD:

SET ATTILL

BURLINGTON RESOURCES



Peht to Total Depth. 2,000psi working prace

Figure #3

4-20-01

Figure #1

5

pe rama. A stripping head to be instalted on the top of ressure or greater excluding 600 pal stripping head he BOP. All BOP equipment is 2000 pel worlds perations. 7-1/16" bors, 2000 pei minin sture double gata BOP to be equit Figure 62

4-20-01