NSL 4/16/97

OFFCERVATION DIVISION

BURLINGTON RESOURCES

SAN JUAN DIVISION

March 26, 1997

Sent Federal Express

Mr. William LeMay New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505

Re:

San Juan 28-5 Unit #45M

1450'FNL, 1190'FWL Section 36, T-28-N, R-5-W, Rio Arriba County, New Mexico

API # 30-039-(not yet assigned)

Dear Mr. LeMay:

Burlington Resources is applying for administrative approval of a non-standard location for the above location in the Dakota formation. This well is proposed as a Mesa Verde/Dakota new drill. The acreage proposed for each formation is different as shown on the C102 Well Location and Acreage Dedication Plat. This difference makes it impossible for a standard location for both formations.

The following attachments are for your review:

- 1. Application for Permit to Drill.
- Completed C-102 at referenced location.
- 3. Offset operators/owners plat Burlington is the offset operator
- 4. 7.5 minute topographic map showing the orthodox windows, and enlargement of the map to define topographic features.

We appreciate your earliest consideration of this application.

Sincerely,

Jugar Dradkued Peggy Bradfield

Regulatory/Compliance Representative

xc:

Bureau of Land Management

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

| | APPLICATION FOR PERMIT TO | DRILL, DEEPEN, OR PLUG BACK |
|------|--|---|
| 1a. | Type of Work DRILL | 5. Lease Number SF-079522A Unit Reporting Number 891000949A-Dk 8910009490-MV |
| 1b. | Type of Well GAS | 6. If Indian, All. or Tribe |
| 2. | Operator BURLINGTON RESOURCES Oil & Gas Company | 7. Unit Agreement Name San Juan 28-5 Unit |
| 3. | Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700 | 8. Farm or Lease Name San Juan 28-5 Unit 9. Well Number 45M |
| 4. | Location of Well 1450' FNL, 1190' FWL | 10. Field, Pool, Wildcat Blanco Mesa Verde/ Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) |
| | Latitude 36° 37.3, Longitude 107° 1 | |
| 14. | Distance in Miles from Nearest Town 6.5 miles to Gobernador | 12. County 13. State Rio Arriba NM |
| 15. | Distance from Proposed Location to Nearest Pro | perty or Lease Line |
| 16. | Acres in Lease | 17. Acres Assigned to Well 345.39 Dk/ 344.74 MV |
| 18. | Distance from Proposed Location to Nearest We | II, Drlg, Compl, or Applied for on this Lease |
| 19. | Proposed Depth 8034' | 20. Rotary or Cable Tools Rotary |
| 21. | Elevations (DF, FT, GR, Etc.) 6707' GR | 22. Approx. Date Work will Start |
| 23. | Proposed Casing and Cementing Program See Operations Plan attached | |
| 24. | Authorized by: May Makhud Regulatory/Compliance A | |
| PERM | AIT NO | APPROVAL DATE |
| APPR | ROVED BY TITLE | DATE |

District i PO Box 1986, Hobbs, NM \$8241-1980 District ii PO Drawer DD, Artesia, NM \$8211-0719 District iii 1000 Klo Brams Rd., Astec, NM \$7410

PO Box 2008, Santa Fe. NM 87504-2088

District IV

State of New Mexico
Energy, Minerais & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-Revised February 21. 1

Instructions on it Submit to Appropriate District O:

State Lease - 4 Cc Fee Lease - 3 Cc

AMENDED REPO

| | P Numb | er | | ¹ Pool C | ode | 1 | | | 3 Pool No | ine | |
|-----------------------|--|----------------|--------------|-------------|-------------------------|--|-------------------------|----------|--|--|--------------|
| 30-039- | | | | 9/715 | 599 | Blan | co Mesaver | ide/R | asin | Dakota | |
| * Property Code | | | | | | Toperty N | | <u> </u> | | | Well Number |
| 7460 | | | | | San J | uan 2 | 28-5 Unit | | | | 45M |
| 'OGRID No. | | | | | | baseros y | | | | | "Eleveuse |
| 14538 | | | BURLI | NGTON | N RESOU | RCES | OIL & GAS | COM | PANY | | 6707' |
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OPERATIONS PLAN

Well Name: San Juan 28-5 Unit #45M

Location: 1450'FNL, 1190'FWL Sec 36, T-28-N, R-5-W

Rio Arriba County, NM

Latitude 36° 37.3′, Longitude 107° 18.9′

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6707'GL

| Formation Tops: | Top | Bottom | <u>Contents</u> |
|-----------------------|---------------|---------------|-----------------|
| Surface | San Jose | 2939' | |
| Ojo Alamo | 2939 ' | 3179 ' | aquifer |
| Fruitland | 3179' | 3594 ' | gas |
| Pictured Cliffs | 3594' | 3684' | gas |
| Lewis | 3684' | 4379' | gas |
| Intermediate TD | 3734' | | |
| Mesa Verde | 4379' | 4559 ′ | gas |
| Chacra | 4559 ′ | 5269 ′ | |
| Massive Cliff House | 5269 ' | 5419 ' | gas |
| Menefee | 5419' | 5719 ′ | gas |
| Massive Point Lookout | 5719' | 6934 ′ | gas |
| Gallup | 6934 ′ | 7689 ' | gas |
| Greenhorn | 7689' | 7796' | gas |
| Graneros | 7796 ' | 7894' | gas |
| Dakota | 7894 ′ | | gas |
| TD | 8034' | | |

Logging Program:

Cased hole -Gamma Ray/Neutron

Mud Program:

| Interval | Type | Weight | Vis. | Fluid Loss |
|------------|------|---------|-------|------------|
| 0- 200' | Spud | 8.4-9.0 | 40-50 | no control |
| 200-3734' | LSND | 8.4-9.0 | 30-60 | no control |
| 3734-8034' | Gas | 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):

| Hole Size | Depth Interval | Csg.Size | Wt. | Grade |
|-----------|----------------|----------|-------|-------|
| 12 1/4" | 0' - 200' | 9 5/8" | 32.3# | H-40 |
| 8 3/4" | .0' - 3734' | 7" | 20.0# | J-55 |
| 6 1/4" | 3634' - 6855' | 4 1/2" | 10.5# | J-55 |
| 6 1/4" | 6855' - 8034' | 4 1/2" | 11.6# | J-55 |

Tubing Program:

0' - 8034' 2 3/8" 4.70# EUE

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.

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 3000 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 drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

 $\overline{9}$ 5/8" surface casing - cement with 163 sx Class "B" cement with 1/4# flocele/sx and 2% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 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/352 sx Class "B" w/3% medisilicate, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% calcium chloride (1124 cu.ft. of slurry, 75% excess to circulate to surface.) WOC minimum of 12 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

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 3179'. Two turbolating centralizers at the base of the Ojo Alamo at 3179'. 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. Lead with 115 sx 65/35 Class "B" poz with 6% gel, 5# gilsonite/sx and 1/4# flocele/sx. Tail with 299 sx 50/50 Class "B" For with 1/4# flocele/sx, 5# gilsonite/sx, and 0.3% fluid loss additive (610 cu.ft., 35% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

Cement float shoe on bottom with float collar spaced on top of shoe joint.

Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and demented with a minimum of 100' of dement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of dement in the 4 1/2" x 7" overlap. The 4 1/2" dasing will then be backed off above the top of dement in the 4 1/2" x 7" overlap and laid down. The liner top can then be pressure tested to ensure a seal between the liner top and the "" dasing has been achieved. The test pressure shall be the maximum anticipated pressure to which the seal will be exposed (700 psi for the Mesa Verde and 2500 psi for the Dakota). The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.

- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.
- The pipe will be rotated and/or reciprocated, if hole conditions permit.

Special Drilling Operations (Gas/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.
- Deduster equipment will be utilized.
- 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 Dakota and Mesa Verde formations will be completed and commingled.
- 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 Dakota 2500 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The dedication to the Mesa Verde and Dakota in this well is as shown on the C102 plat attached.

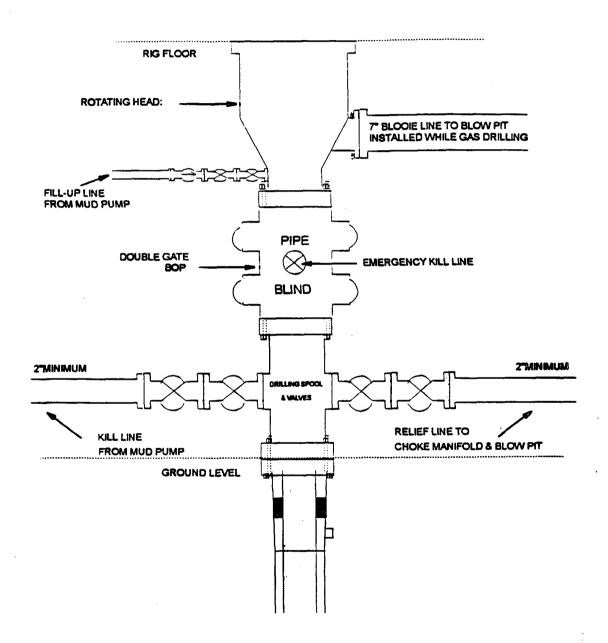
• This gas is dedicated.

Drilling Engineer

Date

BURLINGTON RESOURCES

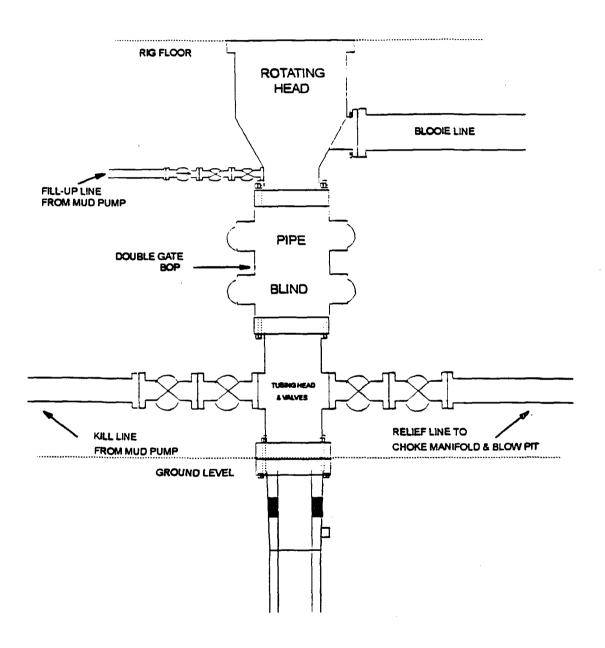
BOP Configuration 2M psi System



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

BURLINGTON RESOURCES

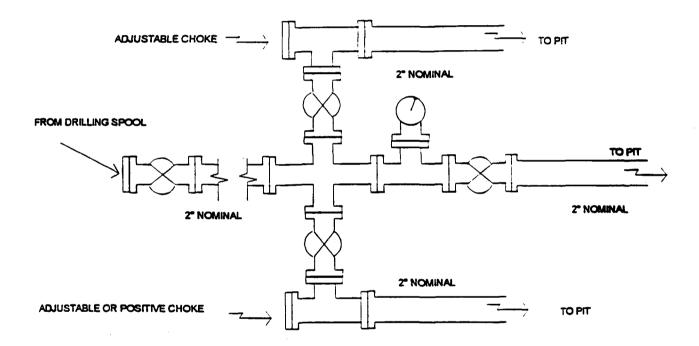
BOP Configuration 2M psi System



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.

BURLINGTON RESOURCES

Choke Manifold Configuration 2M System



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



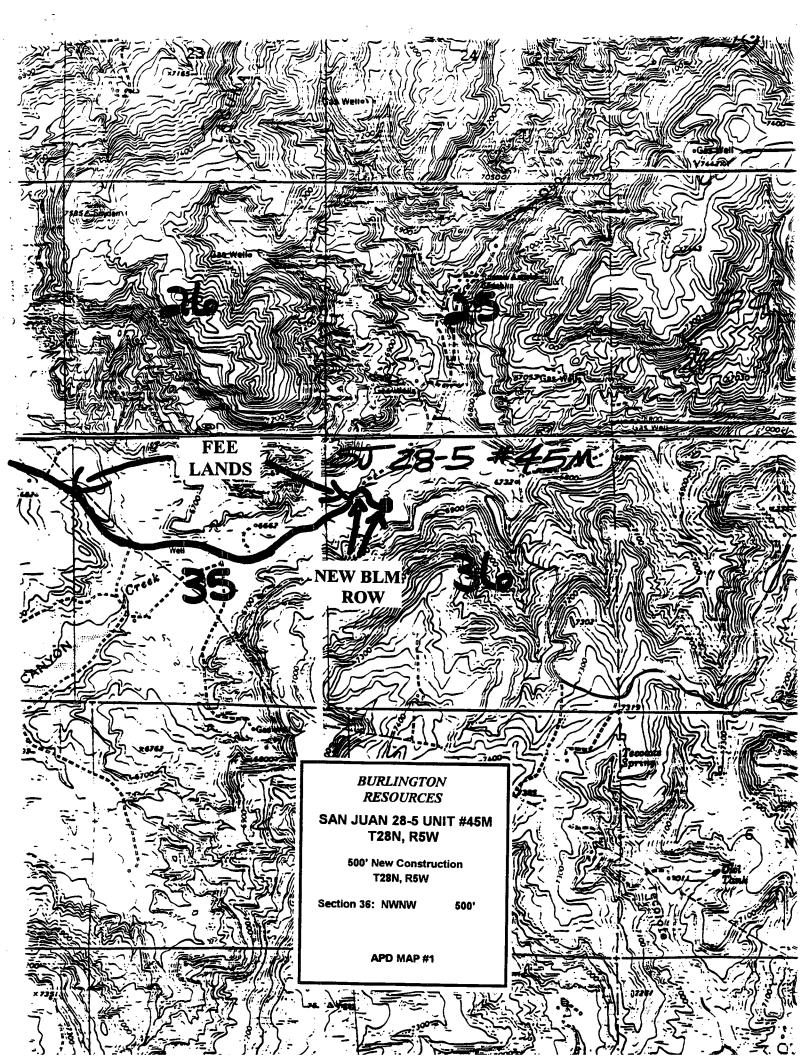
San Juan 28-5 Unit #45M Multi-Point Surface Use Plan

- 1. Existing Roads Refer to Map No. 1. Existing roads used to access the proposed location will be properly maintained for the duration of the project. Bureau of Land Management right-of-way has been applied for as shown on Map No. 1.
- Planned Access Road Refer to Map No. 1. The required new access road is shown on Map No. 1. The gradient, shoulder, crowning and other design elements will meet or exceed those specified by the responsible government agency. The new access road surface will not exceed twenty feet (20') in width. No additional turnarounds or turnouts will be required. Upon completion of the project, the access road will be adequately drained to control soil erosion. Approximately 500' of access road will be constructed. Pipelines are indicated on Map No. 1A.
- 3. Location of Existing Wells Refer to Map No. 1A.
- 4. Location of Existing and/or Proposed Facilities if Well is Productive
 - a. On the Well Pad Refer to Plat No. 1, anticipated production facilities plat.
 - b. Off the Well Pad Anticipated pipeline facilities as shown on the attached plat from Williams Field Services.
- Location and Type of Water Supply Water will be hauled by truck for the proposed project and will be obtained San Juan 27-5 Water Well #1 located NE/4 Section 3, T-27-N, R-5-W, New Mexico
- 6. Source of Construction Materials If construction materials are required for the proposed project, such materials will be obtained from a commercial quarry.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be removed from the site for proper disposal. A portable toilet will be provided for human waste and serviced in a proper manner. If liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying waste materials into the watershed. Reserve pits will be lined as needed with either 12 mil bio-degradable plastic liner or a bentonite liner. All earthen pits will be so constructed as to prevent leakage from occurring; no earthen pit will be located on natural drainage. Generation of hazardous waste is not anticipated. Federal regulations will be adhered to regarding handling and disposal of such waste if so generated.
- 8. Ancillary Facilities None anticipated.
- 9. Wellsite Layout Refer to the location diagram and to the wellsite cut and fill diagram (Figure No. 4). The blow pit will be constructed with a 2'/160' grade to allow positive drainage to the reserve pit and prevent standing liquids in the blow pit.

- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operations will be performed during the time period set forth by the responsible government agency. The permanent location facilities will be painted as designated by the responsible government agency.
- 11. Surface Ownership Richard Arnold
- 12. Other Information Environmental stipulations as outlined by the responsible government agency will be adhered to. Refer to the archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
- 13. Operator's Representative and Certification Burlington Resources Oil & Gas Company Regional Drilling Manager, Post Office Box 4289, Farmington, NM 87499, telephone (505) 326-9700. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan, are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Burlington Resources Oil and Gas Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Regulatory/Compliance Administrator

Date



BURLINGTON RESOURCES

SAN JUAN DIVISION

CERTIFIED-RETURN RECEIPT REQUESTED

October 3, 1996

Richard E. Arnold PO Box 2372 Bloomfield, NM 87413

Dear Mr. Arnold:

This to advise that Burlington Resources Oil & Gas Company, proposes to drill the following well on your property in Rio Arriba County, New Mexico during 1996/97. The well will be staked in the near future in order to get the required clearances from various regulatory agencies. Shown below are the locations we will be looking at for staking. Only one of these will be picked for the future well:

| SAN JUAN | <u> 28-5 UNIT #45M - SECTION 36, T28N, R5W</u> |
|----------|--|
| SWNW: | Patented Lands, Federal Lease #SF-079522 |
| SENW: | Patented Lands, Federal Lease #SF-079522 |
| NENW: | Patented Lands, Federal Lease #SF-079522 |
| NWNW: | BLM Lands |

In view of the fact that the well is on your patented surface, you may wish to accompany our field personnel when they review the location with the Bureau of Land Management and archeologist. A determination regarding the actual location of the well site and access roads will be made at this time. Please let us know by October 21, 1996, if you desire to be present.

Burlington Resources will reasonably maintain access roads and provide adequate drainage. After the well has been completed and tied-in, we will re-shape and re-seed any disturbed areas not required for the well and support facilities used in operating the well. In the event the well is plugged and abandoned, Burlington Resources will re-shape (as possible) to conform to topography and re-seed the road and location under optimum conditions for re-seeding. The road will remain after the well is plugged and abandoned only if you so request in writing.

If you have any questions regarding the location, please contact the undersigned at (505) 326-9759. If you have any additional questions or comments regarding environmental concerns or rehabilitation of the surface, please forward same to the Bureau of Land Management at: 1235 La Plata Highway, Farmington, New Mexico 87401, in the space provided below or call the Fluid Surface Management at (505) 599-8900. Such questions or comments should be received by the BLM on or before November 11, 1996. We will again be in contact with you before the actual drilling of the well on your patented surface.

| VG:mt | Respectfully, What South Senior Landman | |
|---------------------------|--|--|
| feefed.8 | V | |
| Please use this space for | or comments directed to the Bureau of Land Management. | |
| | | |
| | Signed: | |

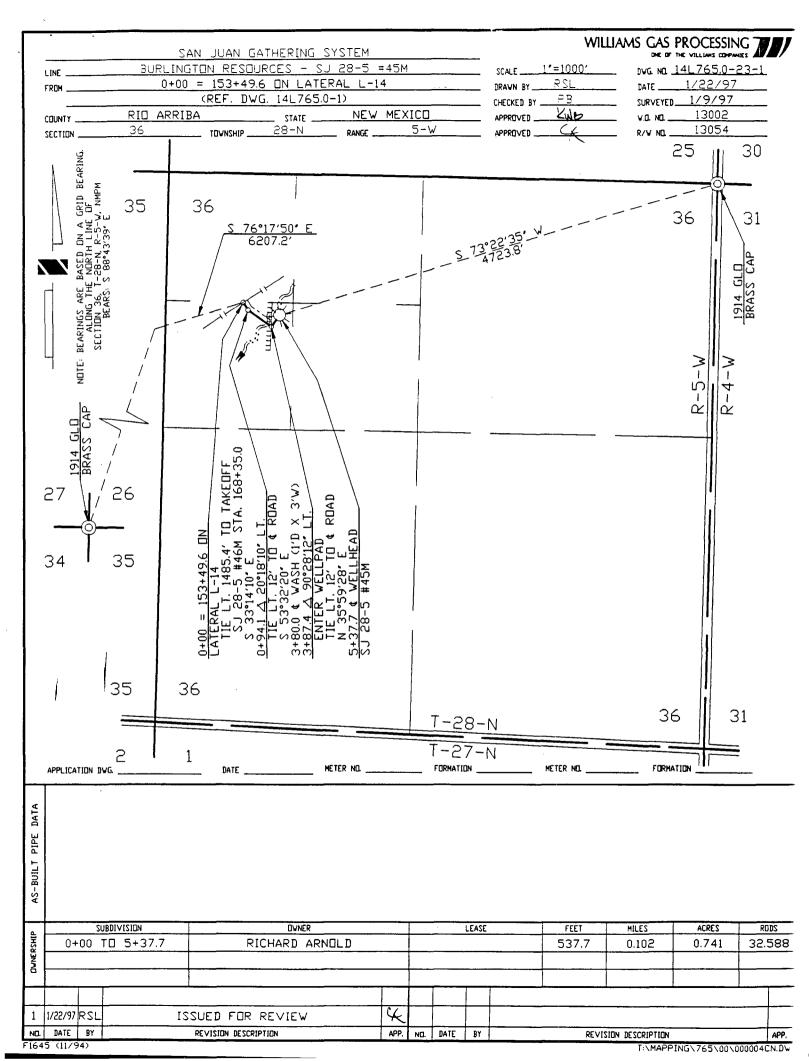
3535 East 30th St., 87402-8891, P.O. Box 4289, Farmington, New Mexico 87499-4289, Telephone 505-326-9700, Fax 505-326-9833

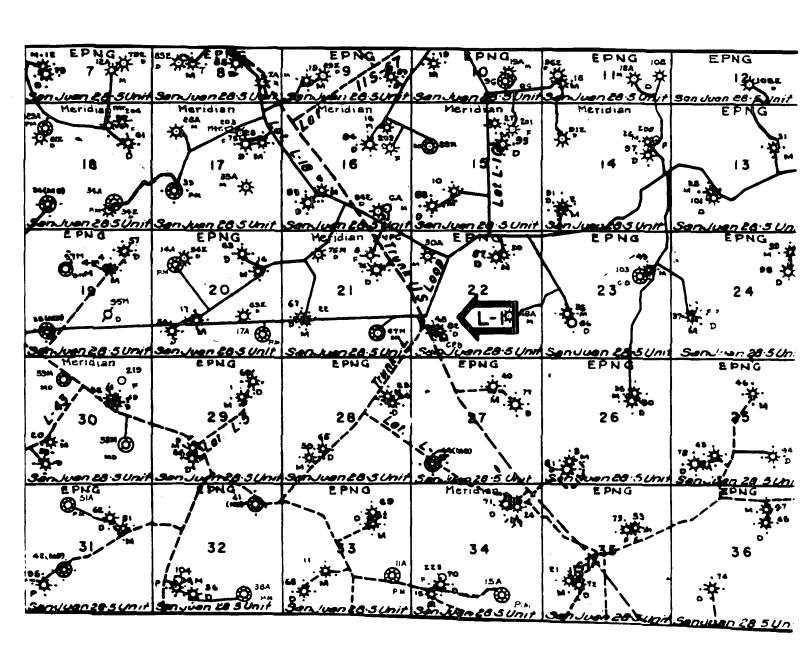
P D81 704 495



Richard E. Arnold PO Box 2372 Bloomfield, NM 87413

| | Postage | \$ |
|---------------------------------|---|----|
| ı | Certified Fee | |
| | Special Delivery Fee | |
| | Restricted Delivery Fee | |
| 1991 | Return Receipt Snowing to Whom & Date Delivered | |
| une 1 | Return Receipt Snowing to Whom, Date, and Addressee's Address | |
| ر 'O | TOTAL Postage & Fees | \$ |
| PS Form 3800 , June 1991 | 28-5 #45M 10/3/96 VG: | MT |





MERIDIAN OIL INC.
Pipeline Map
T-28-N, R-05-W
San Juan County, New Mexico
San Juan 28-5 Unit #45M
Map 1A

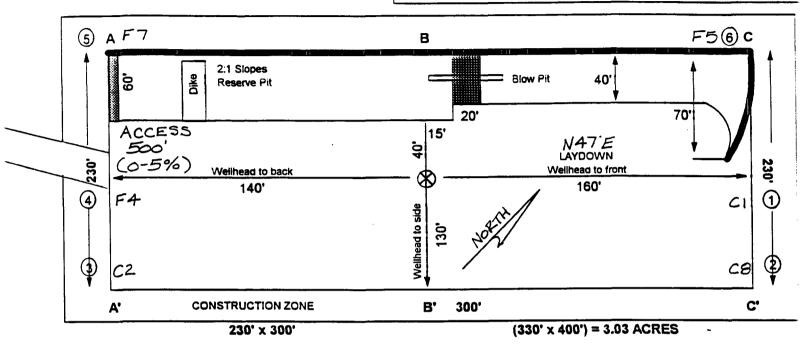
Well Pad Boundary Well Head Cathodic Protection Earthen Berm Separator Tanks (As required) **Dehydrator** Fiberglass Pit Chemical **Facility** Meter Run

PLAT #1

ANTICIPATED PRODUCTION FACILITIES FOR A **DAKOTA WELL**

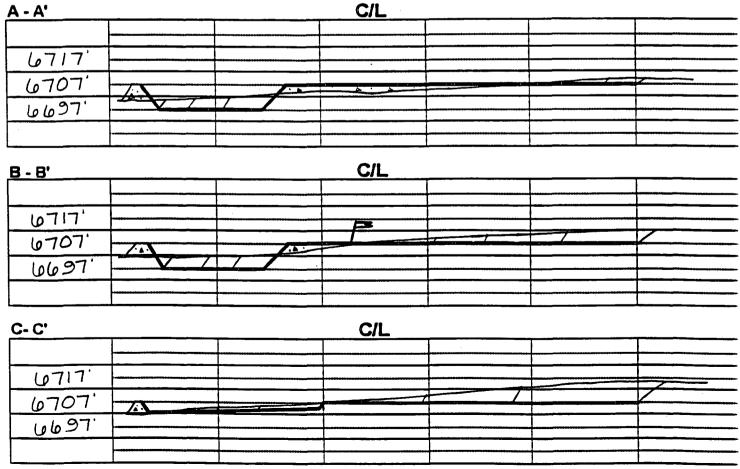
BURLINGTON RESOURCES PLAT #1

NAME: <u>SAN JUAN 28-5 UNIT # 45M</u>
FOOTAGE: <u>1450 FNL 1130' FWL</u>
SEC <u>36 TWN 28 N.R 5 W NMPM</u>
CO: <u>RIO ARRIBA</u> ST: <u>NEW MEXICO</u>
ELEVATION: <u>10707</u> DATE: 10-25-96.



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.



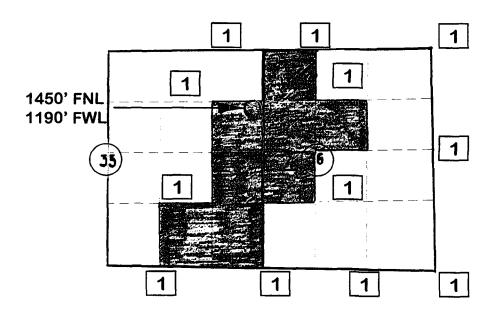
Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cable on well pad and/or access road at least two (2) working days prior to construction.

BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-5 Unit #45M OFFSET OPERATOR \ OWNER PLAT Non Standard Location

Dakota Formation Well

Township 28 North, Range 5 West



1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.

