

BURLINGTON RESOURCES

SAN JUAN DIVISION

Sent Federal Express May 4, 1999

Mr. Michael Stogner
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

RECEIVED
MAY - 4 1999
OIL CON. DIV.
DIST. 3

Re: San Juan 32-9 Unit #116
1955'FNL, 1570'FWL Section 26, T-32-N, R-10-W, San Juan County
30-045-29871

Dear Mr. Stogner:

Burlington Resources is applying for administrative approval of an unorthodox gas well location for the Dakota pool. This location is at the request of the Bureau of Land Management to minimize surface disturbance and provide access from an existing road. This location will utilize part of the well pad for the San Juan 32-9 Unit #28A (30-045-24067) located at 850'FNL, 1540'FWL of Section 26. The location will also eliminate any visual effects looking east from U.S. Highway 550.

Production from the Dakota pool is to be included in a 320 acre gas spacing and proration unit for the west half (W/2) in Section 26.

The following attachments are for your review:

- Application for Permit to Drill.
- Completed C-102 at referenced location.
- Offset operators/owners plat - Burlington is the offset operator
- 7.5 minute topographic map

We appreciate your earliest consideration of this application.

Sincerely,



Peggy Bradfield
Regulatory/Compliance Administrator

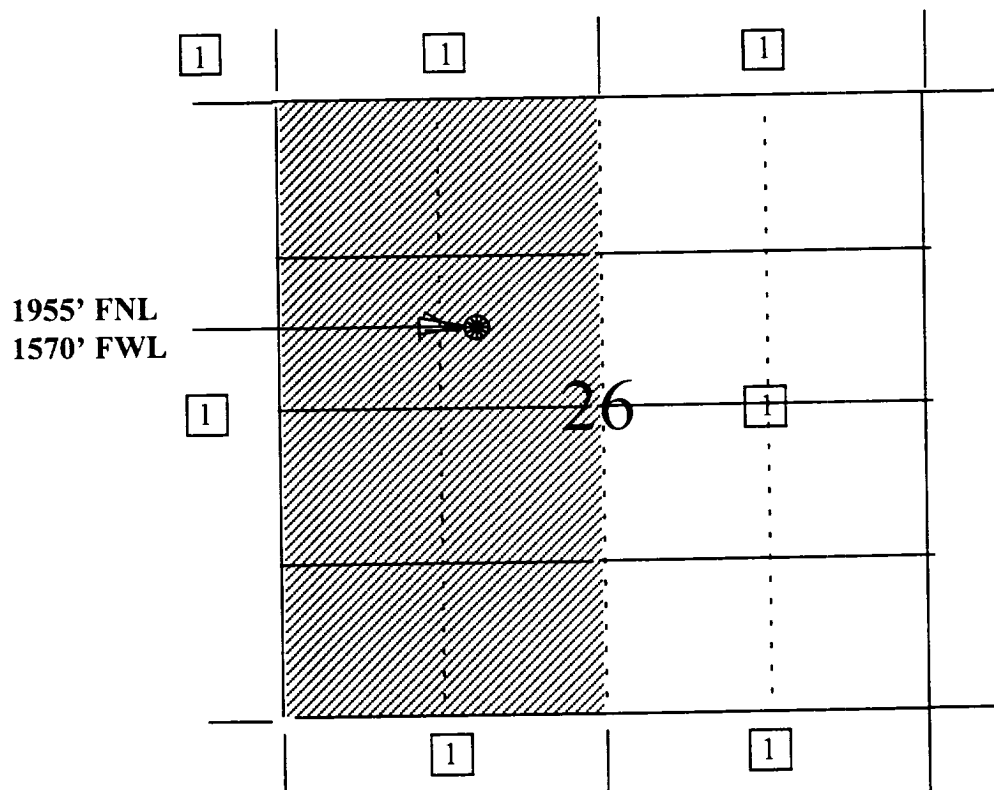
xc: NMOCD - Aztec District Office
Bureau of Land Management

BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 32-9 Unit #116
OFFSET OPERATOR \ OWNER PLAT
Nonstandard Location**

Basin Dakota Formation Well

Township 32 North, Range 10 West



1) Burlington Resources

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED
BLM
MAR 16 PM 1:07
FARMINGTON, NM

1a. Type of Work DRILL	5. Lease Number SF-078507 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 San Juan 32-9 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 32-9 Unit 9. Well Number 116
4. Location of Well 1955' FNL, 1570' FWL Latitude 36° 57.5, Longitude 107° 51.3	10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 26, T-32-N, R-10-W API # 30-045-
14. Distance in Miles from Nearest Town 3 miles to Cedar Hill	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1100'	17. Acres Assigned to Well 320.00
16. Acres in Lease	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 150'	
19. Proposed Depth 8500'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6962' GR	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>[Signature]</u> Regulatory/Compliance Administrator	<u>3-5-99</u> Date

PERMIT NO. _____

APPROVAL DATE

APR 13 1999

APPROVED BY

TITLE Town

DATE _____

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Revised February 21,
Instructions on
Submit to Appropriate District
State Lease - 40
Fee Lease - 30

District II
PO Drawer 00, Artesia, NM 88211-0719

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

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

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

☐ AMENDED REF

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045		Pool Code 71599	Pool Name Basin Dakota
Property Code 7473	Property Name SAN JUAN 32-9 UNIT		Well Number 116
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6962'

10 Surface Location


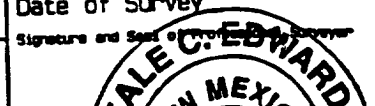
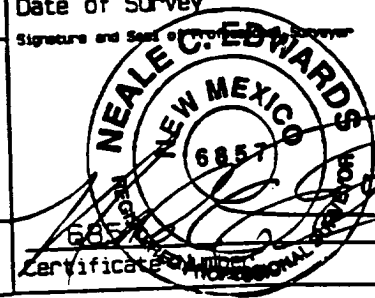
UL or lot no.	Section	Township	Range	Lot 10	Feet from the	North/South line	Feet from the	East/West line	Count
F	26	32N	10W		1955	NORTH	1570	WEST	SAN

11 Bottom Hole Location - If Different From Surface

UL or lot no.	Section	Township	Range	Lot 10	Feet from the	North/South line	Feet from the	East/West line	Count

Dedicated Acres W/320	Joint or Infill	Consolidation Code	Order No.
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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

<div>15</div> <div>4965.84'</div> <div>Revised to show new location</div> <div>4</div> <div>3</div> <div>2</div> <div>1</div> <div>1955'</div> <div>5</div> <div>1570'</div> <div>6</div> <div>7</div> <div>8</div> <div>5249.64'</div> <div>NMSF-078507</div> <div>26</div> <div>12</div> <div>11</div> <div>10</div> <div>9</div> <div>13</div> <div>14</div> <div>15</div> <div>16</div> <div>5021.28'</div>				<div>17 OPERATOR CERTIFICATE</div> <div>I hereby certify that the information contained in this plat is true and complete to the best of my knowledge and belief.</div> <div></div> <div>Signature</div> <div>Peggy Bradfield</div> <div>Printed Name</div> <div>Regulatory Administrator</div> <div>Title</div> <div>3-5-94</div> <div>Date</div> <div>18 SURVEYOR CERTIFICATE</div> <div>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys or under my supervision, and that the same are correct to the best of my belief.</div> <div>JANUARY 7, 1999</div> <div>Date of Survey</div> <div></div> <div>Signature and Seal of Professional Surveyor</div> <div></div> <div>Certificate No. 6857</div>
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OPERATIONS PLAN

Well Name: San Juan 32-9 Unit #116
Location: 1955' FNL, 1570' FWL, Sec 26, T-32-N, R-10-W
San Juan County, NM
Latitude 36° 57.5, Longitude 107° 51.3
Formation: Basin Dakota
Elevation: 6962'GR

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	Tertiary	1863'	
Ojo Alamo	1863'	1971'	
Kirtland	1971'	3320'	
Fruitland	3320'	3743'	
Pictured Cliffs	3743'	3998'	
Lewis	3998'	5610'	
Cliff House	5610'	6034'	
Pt Lookout	6034'	6429'	
Mancos	6429'	7212'	
Gallup	7212'	8081'	
Greenhorn	8081'	8137'	
Graneros	8137'	8263'	
Paguate	8263'	8360'	
Encinal Canyon	8360'	8450'	
Morrison	8450'		
TD	8500'		

Logging Program:

Wireline: Platform Express, ML, CMR

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 320'	Spud	8.4-9.0	40-50	no control
320-8500'	LSND	8.4-9.0	30-60	10-20

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

Casing Program (as listed, the 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' - 320'	8 5/8"	32.3#	WC-50
7 7/8"	320' - 8500'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 8500' 2 3/8" 4.70# EUE

BOP Specifications, Wellhead and Tests:

Surface to 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.

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

Completion Operations -

6" 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 3000 psi for 15 minutes.

Wellhead -

8 5/8" x 4 1/2" 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:

8 5/8" surface casing - cement with 336 sx Class "B" cement with 1/4# flocele/sx and 2% calcium chloride (396 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.

Production Casing - 4 1/2"

Lead cement to surface with 1174 sx Class "B" with 3% sodium metasilicate, 1/2 pps cellophane, 10 pps Gilsonite. Tail with 323 sx 50/50 Class "B" Poz with 2% gel, 1/2 pps cellophane, 10 pps Gilsonite (3873 cu.ft. of slurry, 100% excess).

Or, the alternative two-stage cement job as follows:

First stage: Cement to circulate to stage tool @ 4810'. Lead with 421 sx Class "B" with 3% sodium metasilicate, 0.5 pps cellophane, and 10 pps Gilsonite. Tail with 323 sx 50/50 Class "B" poz with 2% gel, 1/2 pps cellophane and 10 pps Gilsonite. WOC 4 hours prior to pumping second stage. (1681 cu.ft. of slurry, 100% excess).

Second stage: Cement to circulate to surface. Cement with 753 sx Class "B" with 3% sodium metasilicate, 1/2 pps cellophane, 10 pps Gilsonite. WOC a minimum of 18 hours prior to cleanout. (2190 cu.ft. of slurry, 100% excess).

Float shoe on bottom. Three centralizers run every other joint above shoe. Thirty-five centralizers - one every 4th joint to the base of the Ojo Alamo @ 1971'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1971'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Additional Information:

- The Dakota formation will be completed in this well.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

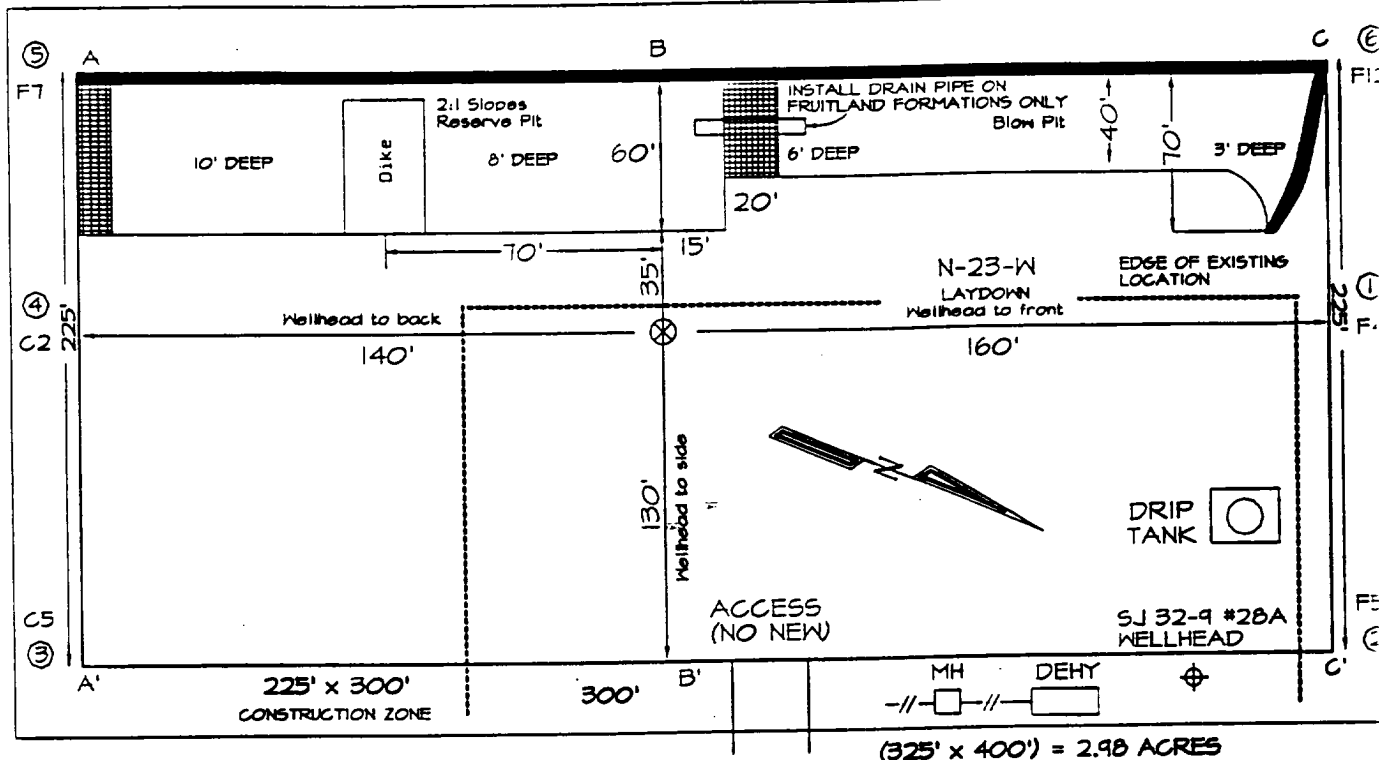
Fruitland Coal	800 psi
Pictured Cliffs	800 psi
Mesa Verde	700 psi
Dakota	2500 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The west half is dedicated to the Dakota in this well.
- This gas is dedicated.

John P. Hosford
Drilling Engineer

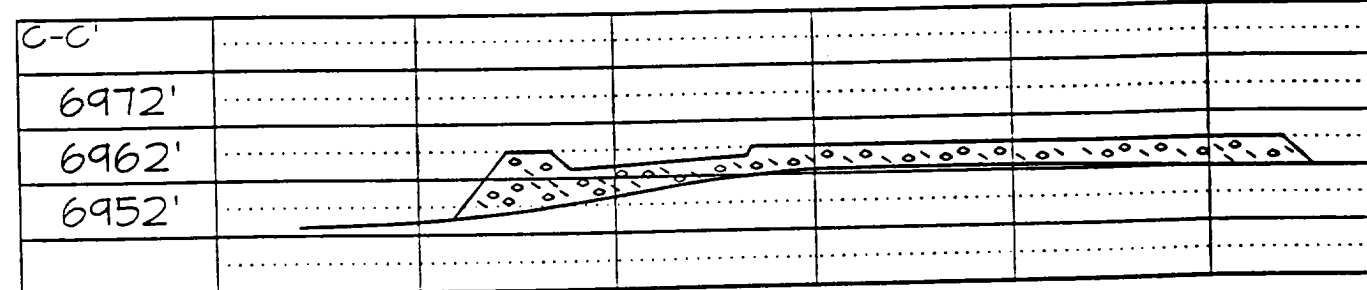
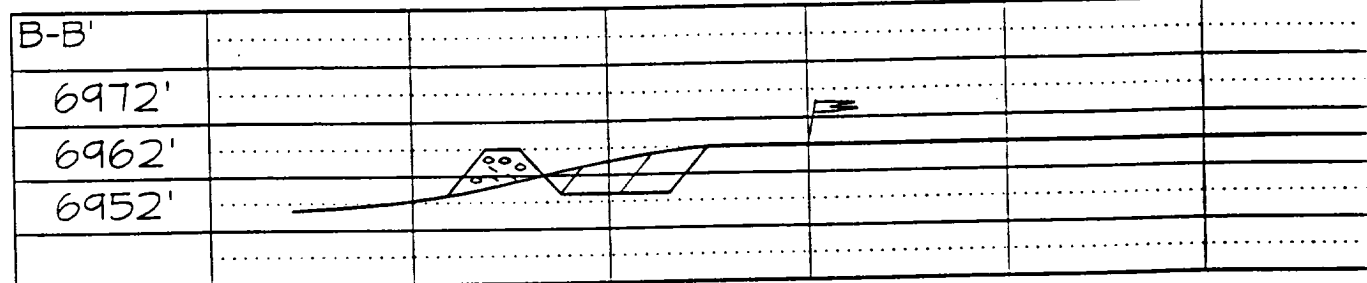
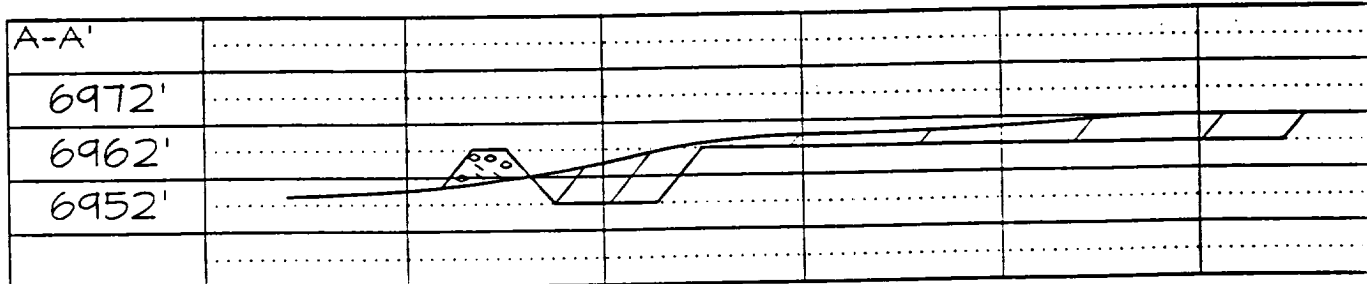
3-8-99
Date

PLAT #1

BURLINGTON RESOURCES OIL & GAS COMPANY
SAN JUAN 32-9 UNIT #116, 1955' FNL & 1570' FWL
SECTION 26, T32N, R10W, NMPM, SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6962' DATE: JANUARY 7, 1999



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 blo



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

