

DATE IN: 3/23/99	SUSPENSE 4/12/99	ENGINEER MS	LOGGED MV	TYPE NSL
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ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
- Engineering Bureau -

OK

**ADMINISTRATIVE APPLICATION COVERSHEET**

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

**Application Acronyms:**

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]  
[DD-Directional Drilling] [SD-Simultaneous Dedication]  
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

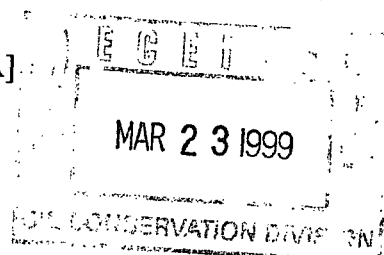
**[1] TYPE OF APPLICATION - Check Those Which Apply for [A]**

[A] Location - Spacing Unit - Directional Drilling  
☒ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR



**[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply**

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☒ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☒ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

**[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding**

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Peggy Bradfield

Regulatory/Compliance Administrator

Print or Type Name

Signature

Title

Date

# BURLINGTON RESOURCES

SAN JUAN DIVISION

Sent Federal Express

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

Re: Carson SRC #2A  
1850'FSL, 1270'FEL Section 1, T-30-N, R-5-W, Rio Arriba County  
30-039-not assigned

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 Carson National Forest (see attached letter) due to topography at a standard location. The SE/4 of Section 1 is fractional and consists of two narrow (209' wide) east and west drilling windows. These windows lie on steep slopes which would require heavy cuts and lengthy access roads with steep grades and wide sideslopes. This well is proposed to be drilled as a Mesa Verde-Dakota commingle and DHC-2226 has been issued. Order R-10987A covers the location of the Mesa Verde portion of this well.

Production from the Dakota pool is to be included in a 268.34 acre gas spacing and proration unit for the south half (S/2) in Section 1 and is to be dedicated to the Carson SRC #1 (30-039-20267) located at 1540'FSL, 990'FWL of Section 1. Production from the Mesa Verde pool is to be included in a 268.34 acre gas spacing and proration unit for the south half (S/2) in Section 1 and is to be dedicated to the Carson SRC #2 (30-039-21835) located at 870'FSL, 1450'FWL of Section 1. Order NSU 3-809 (attached) covers the non-standard proration unit for the Mesa Verde; and Order NSU 3-810 (attached) covers the non-standard proration unit for the Dakota.

The following attachments are for your review:

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

Three copies of this application are being submitted to offset operators by certified mail with a request that they furnish you with a Waiver of Objection, keep one copy for their files and return one copy to this office. We appreciate your earliest consideration of this application.

Sincerely,

  
Peggy Bradfield  
Regulatory/Compliance Administrator

xc: NMOCD - Aztec District Office  
Bureau of Land Management


## WAIVER

\_\_\_\_\_ hereby waives objection to Burlington Resources' application for a non-standard location for the Carson SRC #2A as proposed above.

By: \_\_\_\_\_ Date: \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

<b>1a. Type of Work</b> DRILL	<b>5. Lease Number</b> NM-4453 <b>Unit Reporting Number</b>
<b>1b. Type of Well</b> GAS	<b>6. If Indian, All. or Tribe</b>
<b>2. Operator</b> <b>BURLINGTON</b> <b>RESOURCES</b> Oil & Gas Company	<b>7. Unit Agreement Name</b>
<b>3. Address &amp; Phone No. of Operator</b> PO Box 4289, Farmington, NM 87499  (505) 326-9700	<b>8. Farm or Lease Name</b> Carson SRC <b>9. Well Number</b> 2A
<b>4. Location of Well</b> 1850' FSL, 1270' FEL  Latitude 36° 50' 22", Longitude 107° 18' 23"	<b>10. Field, Pool, Wildcat</b> Blanco MV/Basin DK <b>11. Sec., Twn, Rge, Mer. (NMPM)</b> Sec. 1, T-30-N, R-5-W <b>API # 30-039-</b>
<b>14. Distance in Miles from Nearest Town</b> 70 miles to Bloomfield	<b>12. County</b> Rio Arriba <b>13. State</b> NM
<b>15. Distance from Proposed Location to Nearest Property or Lease Line</b> 1270'	<b>17. Acres Assigned to Well</b> 268.34 S/2
<b>16. Acres in Lease</b>	<b>18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease</b> 2100'
<b>19. Proposed Depth</b> 8202'	<b>20. Rotary or Cable Tools</b> Rotary
<b>21. Elevations (DF, FT, GR, Etc.)</b> 6629' GR	<b>22. Approx. Date Work will Start</b>
<b>23. Proposed Casing and Cementing Program</b> See Operations Plan attached	
<b>24. Authorized by:</b>  Regulatory/Compliance Administrator	<b>Date</b> 10-23-98

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ 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  
District II  
PO Drawer KK, Artesia, NM 87211-0719  
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

<sup>1</sup> API Number 30-039-	<sup>2</sup> Pool Code 71599/72319	<sup>3</sup> Pool Name Basin Dakota/Blanco Mesaverde
<sup>4</sup> Property Code 6897	<sup>5</sup> Property Name CARSON SRC	<sup>6</sup> Well Number # 2A
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	<sup>9</sup> Elevation 6629

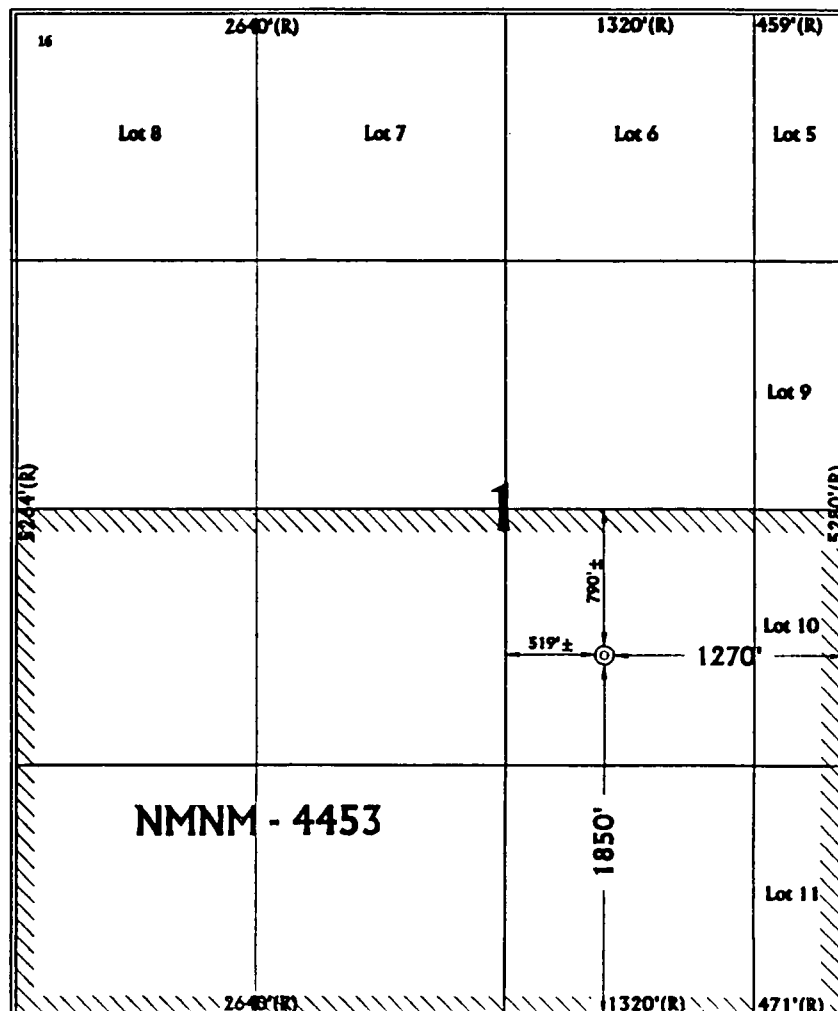
<sup>10</sup> Surface Location

UL or Lot No. J	Section 1	Township 30 N	Range 5 W	Lot Idn	Feet from the 1850	North/South line SOUTH	Feet from the 1270	East/West line EAST	County RIO ARriba
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<sup>11</sup> Bottom Hole Location If Different From Surface

<sup>1</sup> UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres DK: S/268 MV: S/268	<sup>13</sup> Joins or Infill 34 34	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



<sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Peggy Bradfield*  
Signature

Peggy Bradfield

Printed Name

Regulatory Administrator

Title

10-25-98

Date

<sup>18</sup> SURVEYOR CERTIFICATION

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

August 10, 1998

Date of Survey

Signature and Seal of Professional Surveyor



7016

Certificate Number

## OPERATIONS PLAN

**Well Name:** Carson SRC #2A  
**Location:** 1850' FSL, 1270' FEL, Sec 1, T-30-N, R-5-W  
Rio Arriba County, NM  
Latitude 36° 50' 22", Longitude 107° 18' 23"  
**Formation:** Blanco Mesa Verde/Basin Dakota  
**Elevation:** 6629' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2755'	
Ojo Alamo	2755'	2941'	aquifer
Kirtland	2941'	3010'	gas
Fruitland	3010'	3436'	gas
Pictured Cliffs	3436'	3679'	gas
Lewis	3679'	4438'	gas
<b>Intermediate TD</b>	<b>3779'</b>		
Mesa Verde	4438'	4799'	gas
Chacra	4799'	5609'	gas
Massive Cliff House	5609'	5664'	gas
Menefee	5664'	5862'	gas
Massive Point Lookout	5862'	6337'	gas
Mancos	6337'	7189'	gas
Gallup	7189'	7901'	gas
Greenhorn	7901'	7951'	gas
Graneros	7951'	8081'	gas
Dakota	8081'		gas
<b>TD (4 1/2" liner)</b>	<b>8202'</b>		

### Logging Program:

Cased hole - CBL - TD to 200' above TOC, GR/CNL across MV/DK

### 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
200-3779'	LSND	8.4-9.0	30-60	no control
3779-8202'	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):

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	K-55
8 3/4"	0' - 3779'	7"	20.0#	J-55
6 1/4"	3679' - 8202'	4 1/2"	10.5#	K-55

### Tubing Program:

0' - 8202'      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:**

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 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/347 sx Class "B" w/3% sodium metasilicate, 7# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% calcium chloride (1136 cu.ft. of slurry, 100% 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 during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 1889'. First stage: cement with 151 sx Class "B" cmt with 7 pps gilsonite, 1/2 pps cellophane, 3% metasilicate. Tailed w/90 sx Class "B" 50/50 poz w/2% gel, 2% calcium chloride, 0.5 pps Cellophane. Second stage: 195 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 10 pps Gilsonte (1136 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 2941'. Two turbolating centralizers at the base of the Ojo Alamo at 2941'. 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 cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 527 sx 50/50 Class "B" Poz with 2% gel, 0.25 flocele/sx, 5# gilsonite/sx, and 0.3% fluid loss additive (696 cu.ft.), 50% 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 cemented with a minimum of 100' of cement 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 cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. 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):

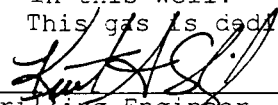
The following equipment will be operational while gas/mist drilling:

- 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:

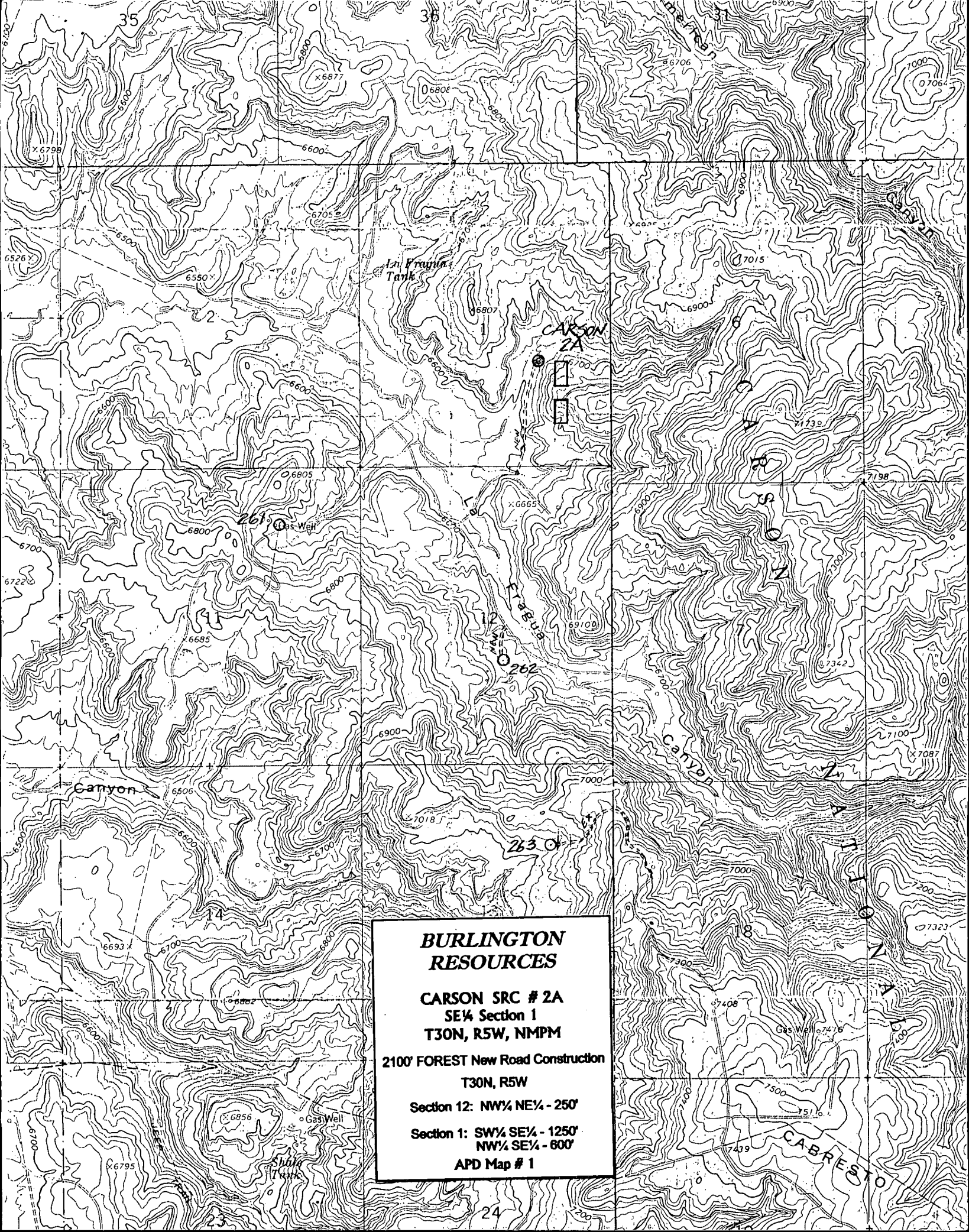
- The Dakota and Mesa Verde formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

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 South half of Section 1 is dedicated to the Mesa Verde and Dakota in this well.
- This gas is dedicated.

  
\_\_\_\_\_  
Drilling Engineer

11/2/98  
\_\_\_\_\_  
Date





**BURLINGTON  
RESOURCES**

**CARSON SRC # 2A  
SE¼ Section 1  
T30N, R5W, NMPM**

**2100' FOREST New Road Construction  
T30N, R5W**

**Section 12: NW¼ NE¼ - 250'**

**Section 1: SW¼ SE¼ - 1250'  
NW¼ SE¼ - 800'**

**APD Map # 1**

***BURLINGTON RESOURCES OIL AND GAS COMPANY***

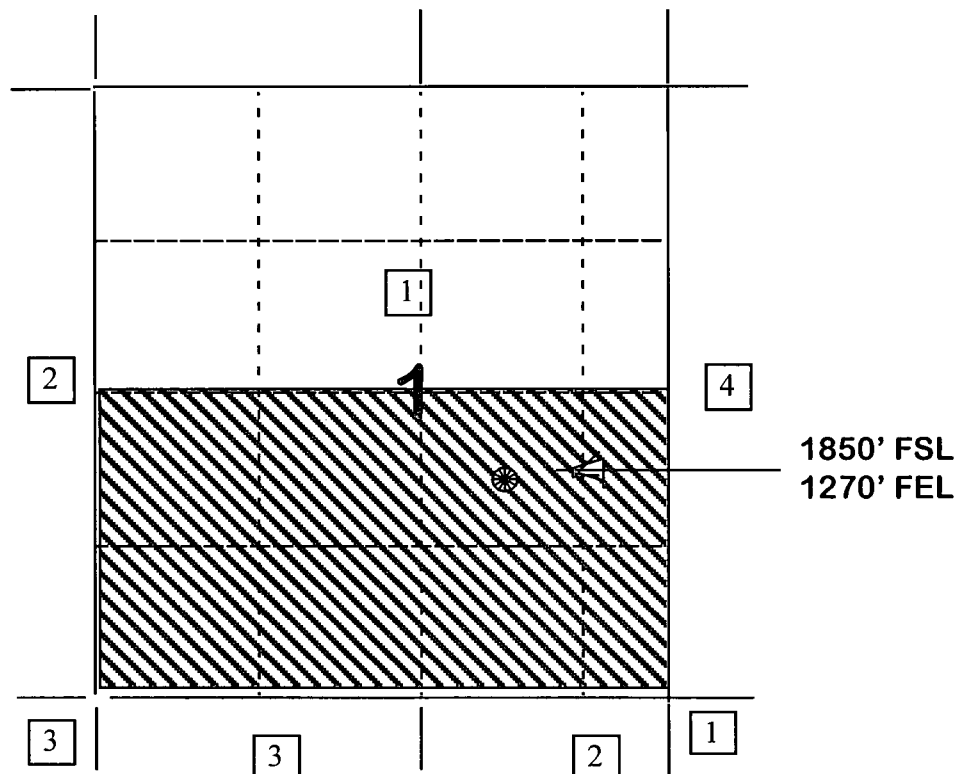
**Carson SRC #2A**

**OFFSET OPERATOR/OWNER PLAT**

**Nonstandard Location**

**Mesaverde / Dakota Formations**

**Township 30 North, Range 5 West**



**1) Burlington Resources**

**2) Schalk Development Co.  
P.O. Box 2078  
Farmington, NM 87499-2078**

**3) Phillips Petroleum Company  
Attn: Mr. Scott Prather  
5525 Hwy. 64, NBU 3004  
Farmington, NM 87401**

**4) Taurus Exploration USA, Inc.  
Attn: Ms. Kathy Clayton  
2101 Sixth Ave. North  
Birmingham, Alabama 35203**

Re: Carson SRC #2A  
1850'FSL, 1270'FEL Section 1, T-30-N, R-5-W, Rio Arriba County  
30-039-not assigned

I hereby certify that the following offset operators/owners have been mailed notification of our application for non-standard location to drill the referenced well.

Phillips Petroleum Company  
Att: Scott Prather  
5525 Highway 64, NBU 3004  
Farmington, NM 87401

Schalk Development Co  
PO Box 2078  
Farmington, NM 87499-2078

Taurus Exploration USA Inc.  
Att: Ms. Kathy Clayton  
2101 Sixth Avenue North  
Birmingham, Alabama 35203



Peggy Bradfield



United States  
Department of  
Agriculture

Forest  
Service

Jicarilla  
Ranger District

664 East Broadway  
Bloomfield, NM 87413  
(505) 632-2956  
Fax: (505) 632-3173

File Code: 2820

Date: 8/31/98

Chuck Smith  
Burlington Resources  
POB 4289  
Farmington, NM 87499

RE: Unorthodox location for wells:      San Juan 27-4 #39M  
   San Juan 27-4 #46M  
   San Juan 27-4 #52M  
   Carson SRC #2A

Dear Mr. Smith,

The Jicarilla Ranger District, Carson National Forest is requesting you apply for an unorthodox location as follows, as discussed by your company representative and Camela Hooley of this office:

SJ 27-4 #39M, T27N R4W Sec.5, 2250'FNL/910'FWL  
SJ 27-4 #46M, T27N R4W Sec.31, 1875'FN:/405'FWL  
SJ 27-4 #52M, T27n R4W Sec.29, 1040'FNL/1370'FWL  
Carson SRC #2A, T30N R5W Sec.1, 1850'FSL/1270'FEL

The mineral operator is required to comply with other other applicable regulations such as the Endangered Species Act and the Archeological Resources Protection Act under 36CFR228.112(c). The operator is also required under 36CFR228.108(c) to minimize or prevent damage to surface resources. The Carson National Forest Management Plan states that surface resource impacts will be minimized when administering mineral resources.

The following conditions apply which require an unorthodox location:

52M Archeological resources prevent locating the well in an orthodox location.

2A,

39M, 46M Topography prevents locating the well in an orthodox location.

46M Threatened/endangered species concerns prevent locating the well in an orthodox location.

52M,

39M, 46M Prevention of unnecessary resource damage requires the location be unorthodox. (Such as a previously disturbed area or existing road available outside the drilling window.)

Thank you for your cooperation in this matter.

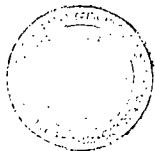
Don Case  
Acting District Ranger



Caring for the Land and Serving People

FS-6200-28b(3/92)

Carson #2



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

BRUCE KING  
GOVERNOR

LARRY KEHOE  
SECRETARY

May 17, 1979

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87417  
(505) 334-6178

Southland Royalty Co.  
P. O. Drawer 570  
Farmington, NM 87401

NWU 3- 809

SUBJECT: NON-STANDARD GAS PRORATION UNIT CONSISTING OF 268.34  
ACRES IN THE Blanco Mesaverde GAS  
POOL DESCRIBED AS FOLLOWS:

TOWNSHIP 30 NORTH, RANGE 5 WEST, NMPM

SECTION: 1 S/2

By authority granted me by Rule 5 (B) of Order R-1670, as amended, the above-described acreage has been approved as a non-standard gas proration unit to be dedicated to the Carson SRC  
well no. 2, located 870/S; 1450/W of said  
Section 1.

  
Supervisor, District #3

xc: Oil Conservation Division  
Santa Fe, New Mexico

RECEIVED

MAY 21 1979

FARMINGTON DISTRICT

Carson #1



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

May 17, 1979

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

Southland Royalty Co.  
P. O. Drawer 570  
Farmington, NM 87401

NWU 3- 810

SUBJECT: NON-STANDARD GAS PRORATION UNIT CONSISTING OF 268.34  
ACRES IN THE Basin Dakota GAS  
POOL DESCRIBED AS FOLLOWS:  
  
TOWNSHIP 30 NORTH, RANGE 5 WEST, NMPM  
SECTION: 1 S/2

By authority granted me by Rule 5 (B) of Order R-1670, as amended, the above-described acreage has been approved as a non-standard gas proration unit to be dedicated to the Carson SRC  
well no. 1, located 1540/S; 990/W of said  
Section 1.

AR Kendrick  
Supervisor, District #3

xc: Oil Conservation Division  
Santa Fe, New Mexico

RECEIVED  
MAY 21 1979  
FARMINGTON DISTRICT

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

03/23/99 14:15:06  
OGOMES -TPEZ  
PAGE NO: 2

Sec : 01 Twp : 30N Rng : 05W Section Type : NORMAL

L 40.00	K 40.00	J 40.00	10 14.12
Federal owned A	Federal owned	Federal owned	Federal owned
M 40.00	N 40.00	O 40.00	11 14.22
Federal owned	Federal owned A	Federal owned	Federal owned

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12

28.34

240  
28.34  
          
268.34

CMD : ONGARD 03/23/99 14:15:16  
OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TPEZ

API Well No : 30 39 20267 Eff Date : 01-01-1996 WC Status : A  
Pool Idn : 71599 BASIN DAKOTA (PRORATED GAS)  
OGRID Idn : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Prop Idn : 18492 CARSON SRC

Well No : 001  
GL Elevation: 99999

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: L	1	30N	05W	FTG 999 F S	FTG 999 F E	P

Lot Identifier:

Dedicated Acre: 268.34

Lease Type : F

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC



CMD : ONGARD 03/23/99 14:16:48  
OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TPEZ

API Well No : 30 39 21835 Eff Date : 01-01-1996 WC Status : A  
Pool Idn : 72319 BLANCO-MESAVERDE (PRORATED GAS)  
OGRID Idn : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Prop Idn : 18492 CARSON SRC

Well No : 002  
GL Elevation: 99999

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: N	1	30N	05W	FTG 999 F S	FTG 999 F E	P

Lot Identifier:

Dedicated Acre: 268.34

Lease Type : F

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

03/23/99 14:14:53  
OGOMES -TPEZ  
PAGE NO: 1

Sec : 01 Twp : 30N Rng : 05W Section Type : NORMAL

8 39.57  Federal owned	7 39.72  Federal owned	6 39.87  Federal owned	5 13.94  Federal owned
E 40.00  Federal owned	F 40.00  Federal owned	G 40.00  Federal owned	9 14.04  Federal owned

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12

# BURLINGTON RESOURCES

SAN JUAN DIVISION

Sent Federal Express

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

Re: Carson SRC #2A  
1850'FSL, 1270'FEL Section 1, T-30-N, R-5-W, Rio Arriba County  
30-039-not assigned

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 Carson National Forest (see attached letter) due to topography at a standard location. The SE/4 of Section 1 is fractional and consists of two narrow (209' wide) east and west drilling windows. These windows lie on steep slopes which would require heavy cuts and lengthy access roads with steep grades and wide sideslopes. This well is proposed to be drilled as a Mesa Verde-Dakota commingle and DHC-2226 has been issued. Order R-10987A covers the location of the Mesa Verde portion of this well.


Production from the Dakota pool is to be included in a 268.34 acre gas spacing and proration unit for the south half (S/2) in Section 1 and is to be dedicated to the Carson SRC #1 (30-039-20267) located at 1540'FSL, 990'FWL of Section 1. Production from the Mesa Verde pool is to be included in a 268.34 acre gas spacing and proration unit for the south half (S/2) in Section 1 and is to be dedicated to the Carson SRC #2 (30-039-21835) located at 870'FSL, 1450'FWL of Section 1. Order NSU 3-809 (attached) covers the non-standard proration unit for the Mesa Verde; and Order NSU 3-810 (attached) covers the non-standard proration unit for the Dakota.

The following attachments are for your review:

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

Three copies of this application are being submitted to offset operators by certified mail with a request that they furnish you with a Waiver of Objection, keep one copy for their files and return one copy to this office. We appreciate your earliest consideration of this application.

Sincerely,

  
Peggy Bradfield

Regulatory/Compliance Administrator

xc: NMOCD - Aztec District Office  
Bureau of Land Management

## WAIVER

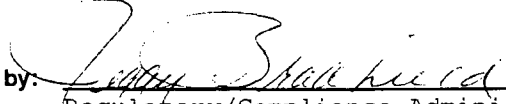
ENERGEN RESOURCES hereby waives objection to Burlington Resources' application for a non-standard location for the Carson SRC #2A as proposed above.

By: 

Date: 3-31-99

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 NM-4453 Unit Reporting Number
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator <b>BURLINGTON RESOURCES</b> Oil & Gas Company	7. Unit Agreement Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700	8. Farm or Lease Name Carson SRC 9. Well Number 2A
4.	Location of Well 1850' FSL, 1270' FEL  Latitude 36° 50' 22", Longitude 107° 18' 23"	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 1, T-30-N, R-5-W API # 30-039-
14.	Distance in Miles from Nearest Town 70 miles to Bloomfield	12. County Rio Arriba 13. State NM
15.	Distance from Proposed Location to Nearest Property or Lease Line 1270'	
16.	Acres in Lease	17. Acres Assigned to Well 268.34 S/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 2100'	
19.	Proposed Depth 8202'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6629' GR	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: <u></u> Regulatory/Compliance Administrator	<u>10-23-98</u> Date

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ 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  
District II  
PO Drawer KK, Artesia, NM 87211-0719  
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

<sup>1</sup> API Number 30-039-	<sup>2</sup> Pool Code 71599/72319	<sup>3</sup> Pool Name Basin Dakota/Blanco Mesaverde
<sup>4</sup> Property Code 6897	<sup>5</sup> Property Name CARSON SRC	<sup>6</sup> Well Number # 2A
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	<sup>9</sup> Elevation 6629

<sup>10</sup> Surface Location

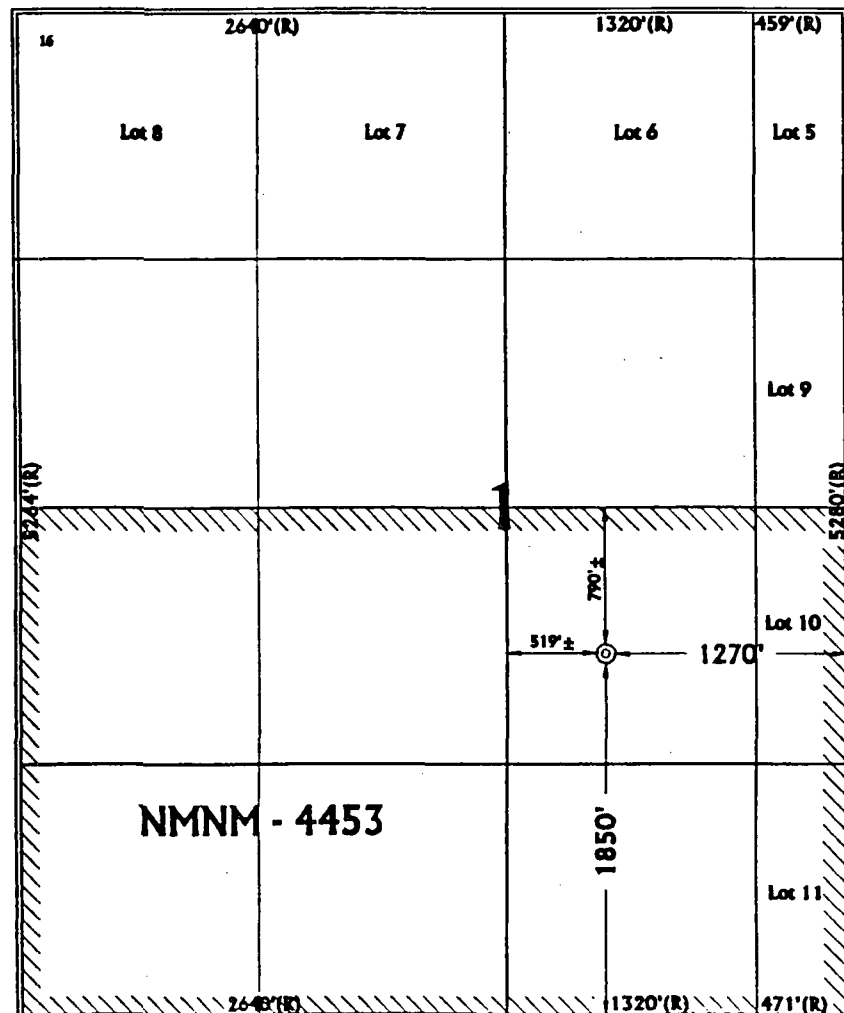
UL or Lot No. J	Section 1	Township 30 N	Range 5 W	Lot Idn	Feet from the 1850	North/South line SOUTH	Feet from the 1270	East/West line EAST	County RIO ARriba
--------------------	--------------	------------------	--------------	---------	-----------------------	---------------------------	-----------------------	------------------------	----------------------

<sup>11</sup> Bottom Hole Location If Different From Surface

<sup>1</sup> UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
----------------------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

<sup>12</sup> Dedicated Acres DK: S/268.34 MV: S/268.34	<sup>13</sup> Joins or Infill 34	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
---	-------------------------------------	----------------------------------	-------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



<sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Peggy Bradfield*  
Signature

Peggy Bradfield  
Printed Name

Regulatory Administrator  
Title

10-25-98  
Date

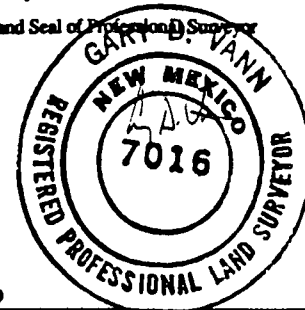
<sup>18</sup> SURVEYOR CERTIFICATION

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

August 10, 1998

Date of Survey

Signature and Seal of Professional Surveyor



7016  
Certificate Number

(R) - GLO Record

## OPERATIONS PLAN

**Well Name:** Carson SRC #2A  
**Location:** 1850' FSL, 1270' FEL, Sec 1, T-30-N, R-5-W  
 Rio Arriba County, NM  
 Latitude 36° 50' 22", Longitude 107° 18' 23"  
**Formation:** Blanco Mesa Verde/Basin Dakota  
**Elevation:** 6629' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2755'	
Ojo Alamo	2755'	2941'	aquifer
Kirtland	2941'	3010'	gas
Fruitland	3010'	3436'	gas
Pictured Cliffs	3436'	3679'	gas
Lewis	3679'	4438'	gas
<b>Intermediate TD</b>	<b>3779'</b>		
Mesa Verde	4438'	4799'	gas
Chacra	4799'	5609'	gas
Massive Cliff House	5609'	5664'	gas
Menefee	5664'	5862'	gas
Massive Point Lookout	5862'	6337'	gas
Mancos	6337'	7189'	gas
Gallup	7189'	7901'	gas
Greenhorn	7901'	7951'	gas
Graneros	7951'	8081'	gas
Dakota	8081'		gas
<b>TD (4 1/2" liner)</b>	<b>8202'</b>		

### Logging Program:

Cased hole - CBL - TD to 200' above TOC, GR/CNL across MV/DK

### 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
200-3779'	LSND	8.4-9.0	30-60	no control
3779-8202'	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):

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	K-55
8 3/4"	0' - 3779'	7"	20.0#	J-55
6 1/4"	3679' - 8202'	4 1/2"	10.5#	K-55

### Tubing Program:

0' - 8202'      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:**

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 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/347 sx Class "B" w/3% sodium metasilicate, 7# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% calcium chloride (1136 cu.ft. of slurry, 100% 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 during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 1889'. First stage: cement with 151 sx Class "B" cmt with 7 pps gilsonite, 1/2 pps cellophane, 3% metasilicate. Tailed w/90 sx Class "B" 50/50 poz w/2% gel, 2% calcium chloride, 0.5 pps Cellophane. Second stage: 195 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 10 pps Gilsonite (1136 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 2941'. Two turbolating centralizers at the base of the Ojo Alamo at 2941'. 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 cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 527 sx 50/50 Class "B" Poz with 2% gel, 0.25 flocele/sx, 5# gilsonite/sx, and 0.3% fluid loss additive (696 cu.ft.), 50% 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 cemented with a minimum of 100' of cement 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 cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. 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:

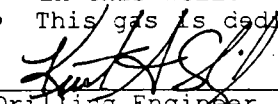
- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite 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.



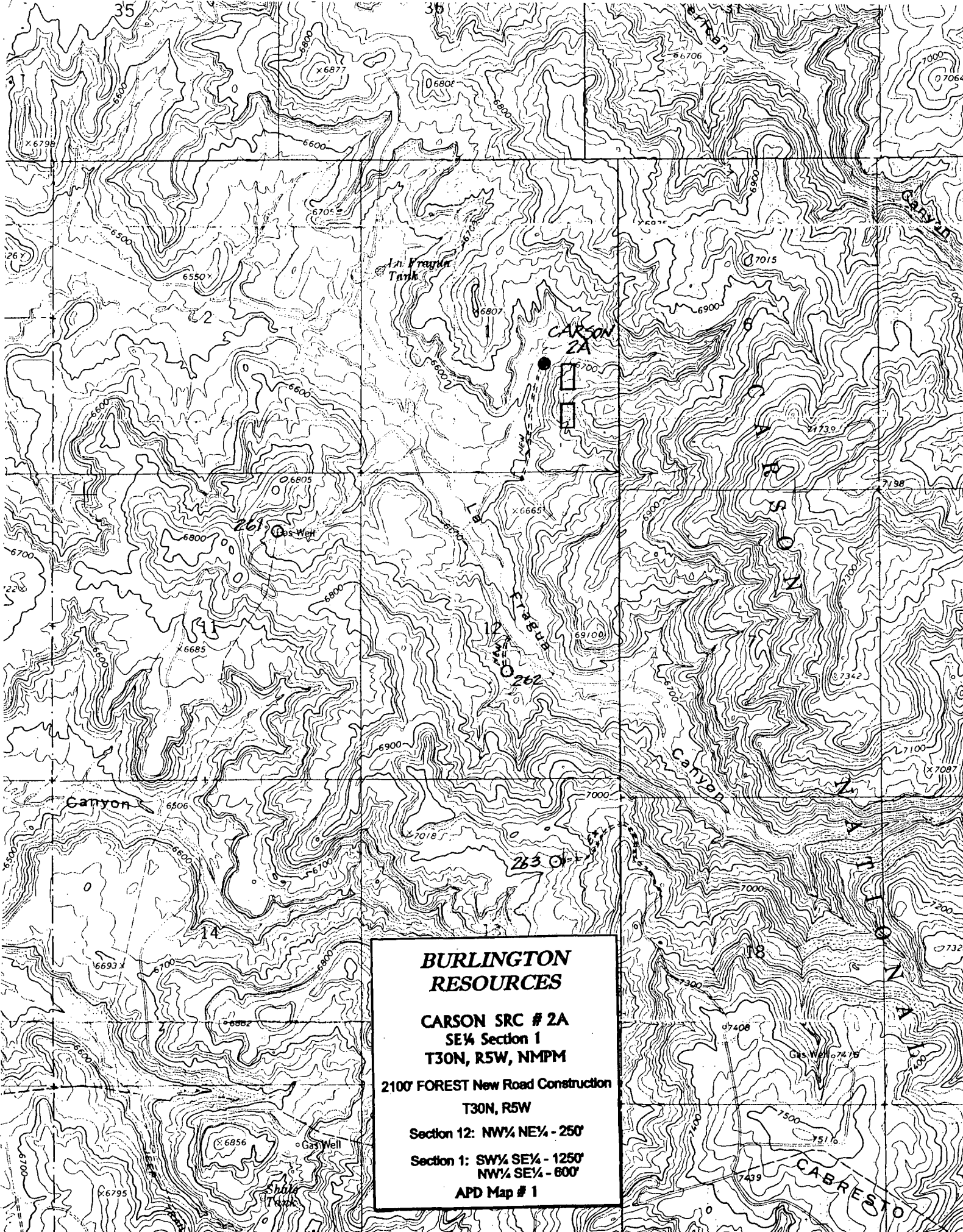
Additional Information:

- 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 South half of Section 1 is dedicated to the Mesa Verde and Dakota in this well.
- This gas is dedicated.

  
\_\_\_\_\_  
Drilling Engineer

11/2/98  
\_\_\_\_\_  
Date



**BURLINGTON  
RESOURCES**

**CARSON SRC # 2A  
SE¼ Section 1  
T30N, R5W, NMPM**

**2100' FOREST New Road Construction  
T30N, R5W**

**Section 12: NW¼ NE¼ - 250'**

**Section 1: SW¼ SE¼ - 1250'  
NW¼ SE¼ - 600'**

**APD Map # 1**

***BURLINGTON RESOURCES OIL AND GAS COMPANY***

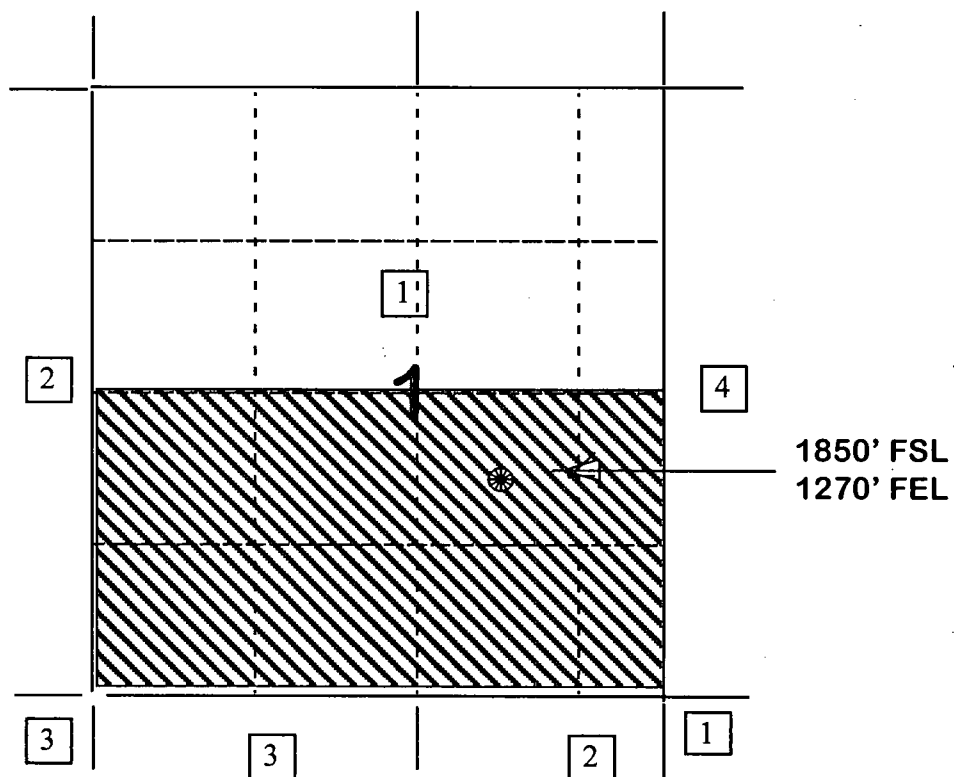
**Carson SRC #2A**

**OFFSET OPERATOR/OWNER PLAT**

**Nonstandard Location**

**Mesaverde / Dakota Formations**

**Township 30 North, Range 5 West**



**1) Burlington Resources**

**2) Schalk Development Co.  
P.O. Box 2078  
Farmington, NM 87499-2078**

**3) Phillips Petroleum Company  
Attn: Mr. Scott Prather  
5525 Hwy. 64, NBU 3004  
Farmington, NM 87401**

**4) Taurus Exploration USA, Inc.  
Attn: Ms. Kathy Clayton  
2101 Sixth Ave. North  
Birmingham, Alabama 35203**

Re: Carson SRC #2A  
1850'FSL, 1270'FEL Section 1, T-30-N, R-5-W, Rio Arriba County  
30-039-not assigned

I hereby certify that the following offset operators/owners have been mailed notification of our application for non-standard location to drill the referenced well.

Phillips Petroleum Company  
Att: Scott Prather  
5525 Highway 64, NBU 3004  
Farmington, NM 87401

Schalk Development Co  
PO Box 2078  
Farmington, NM 87499-2078

Taurus Exploration USA Inc.  
Att: Ms. Kathy Clayton  
2101 Sixth Avenue North  
Birmingham, Alabama 35203



Peggy Bradfield



United States  
Department of  
Agriculture

Forest  
Service

Jicarilla  
Ranger District

664 East Broadway  
Bloomfield, NM 87413  
(505) 632-2956  
Fax: (505) 632-3173

File Code: 2820

Date: 8/31/98

Chuck Smith  
Burlington Resources  
POB 4289  
Farmington, NM 87499

RE: Unorthodox location for wells:      San Juan 27-4 #39M  
   San Juan 27-4 #46M  
   San Juan 27-4 #52M  
   Carson SRC #2A

Dear Mr. Smith,

The Jicarilla Ranger District, Carson National Forest is requesting you apply for an unorthodox location as follows, as discussed by your company representative and Camela Hooley of this office:

SJ 27-4 #39M, T27N R4W Sec.5, 2250'FNL/910'FWL  
SJ 27-4 #46M, T27N R4W Sec.31, 1875'FN:/405'FWL  
SJ 27-4 #52M, T27n R4W Sec.29, 1040'FNL/1370'FWL  
Carson SRC #2A, T30N R5W Sec.1, 1850'FSL/1270'FEL

The mineral operator is required to comply with other other applicable regulations such as the Endangered Species Act and the Archeological Resources Protection Act under 36CFR228.112(c). The operator is also required under 36CFR228.108(c) to minimize or prevent damage to surface resources. The Carson National Forest Management Plan states that surface resource impacts will be minimized when administering mineral resources.

The following conditions apply which require an unorthodox location:

52M Archeological resources prevent locating the well in an orthodox location.

2A,

39M,46M Topography prevents locating the well in an orthodox location.

46M Threatened/endangered species concerns prevent locating the well in an orthodox location.

52M,

39M,46M Prevention of unnecessary resource damage requires the location be unorthodox. (Such as a previously disturbed area or existing road available outside the drilling window.)

Thank you for your cooperation in this matter.

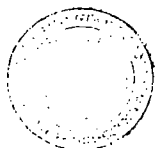
Don Case  
Acting District Ranger



Caring for the Land and Serving People

FS-6200-28b(3/92)

Carson ~



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

May 17, 1979

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87417  
(505) 334-6178

Southland Royalty Co.  
P. O. Drawer 570  
Farmington, NM 87401

NWU 3- 809

SUBJECT: NON-STANDARD GAS PRORATION UNIT CONSISTING OF 268.34  
ACRES IN THE Blanco Mesaverde GAS  
POOL DESCRIBED AS FOLLOWS:

TOWNSHIP 30 NORTH, RANGE 5 WEST, NMPM

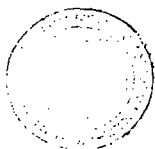
SECTION: 1 S/2

By authority granted me by Rule 5 (B) of Order R-1670, as amended, the above-described acreage has been approved as a non-standard gas proration unit to be dedicated to the Carson SPC  
well no. 2, located 870/S; 1450/W of said  
Section 1.

  
Supervisor, District #3

xc: Oil Conservation Division  
Santa Fe, New Mexico

RECEIVED  
MAY 21 1979  
FARMINGTON DISTRICT



BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

May 17, 1979

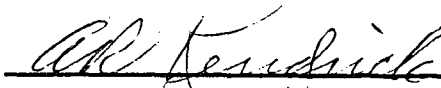
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

Southland Royalty Co.  
P. O. Drawer 570  
Farmington, NM 87401

NWU 3- 810

SUBJECT: NON-STANDARD GAS PRORATION UNIT CONSISTING OF 268.34  
ACRES IN THE Basin Dakota GAS  
POOL DESCRIBED AS FOLLOWS:  
  
TOWNSHIP 30 NORTH, RANGE 5 WEST, NMPM  
SECTION: 1 S/2

By authority granted me by Rule 5 (B) of Order R-1670, as amended, the above-described acreage has been approved as a non-standard gas proration unit to be dedicated to the Carson ERC  
well no. 1, located 1540/S; 990/W of said  
Section 1.

  
Supervisor, District #3

xc: Oil Conservation Division  
Santa Fe, New Mexico

RECEIVED

MAY 21 1979

FARMINGTON DISTRICT