


RCVD APR 4 '08

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OIL CONS. DIV.

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

DIST. 3

1a. Type of Work DRILL	<b>RECEIVED</b> <b>MAR 13 2008</b> Bureau of Land Management Farmington Field Office	5. Lease Number USA SF-077730 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON</b> RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Sunray E	
	9. Well Number #221S	
4. Location of Well Surf: Unit A(NENE), 670' FNL & 780' FEL  Surf: Latitude 36.83162° N Longitude 107.88217° W	10. Field, Pool, Wildcat Basin Fruitland Coal	
	11. Sec., Twn, Rge, Mer. (NMPM) A Sec. 9, T30N, R10W API # 30-045-34634	
14. Distance in Miles from Nearest Town 8 miles/Aztec	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 670'		
16. Acres in Lease 605.5	17. Acres Assigned to Well 302.46 Acres - (E/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 356' from Sunray E #1		
19. Proposed Depth 3350'	 <b>H<sub>2</sub>S POTENTIAL EXISTS</b> Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6498' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS	
24. Authorized by: <u>Crystal Walker</u> Crystal Walker (Regulatory Technician)	<u>3/15/08</u> Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological 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.

Example Master Plan Type 2

Bond Numbers NMB-000015 and NMB-000089

APR 04 2008

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS".

NMOCD

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4

DISTRICT I  
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II  
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised October 12, 2005

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Free Lease - 3 Copies  
MAR 13 2005

Bureau of Land Management  
Farmington Field Office  
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-34624	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name BASIN FRUITLAND COAL
<sup>4</sup> Property Code 7567	<sup>5</sup> Property Name SUNRAY E	<sup>6</sup> Well Number 221 S
<sup>7</sup> GRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	<sup>9</sup> Elevation 6498'

<sup>10</sup> Surface Location

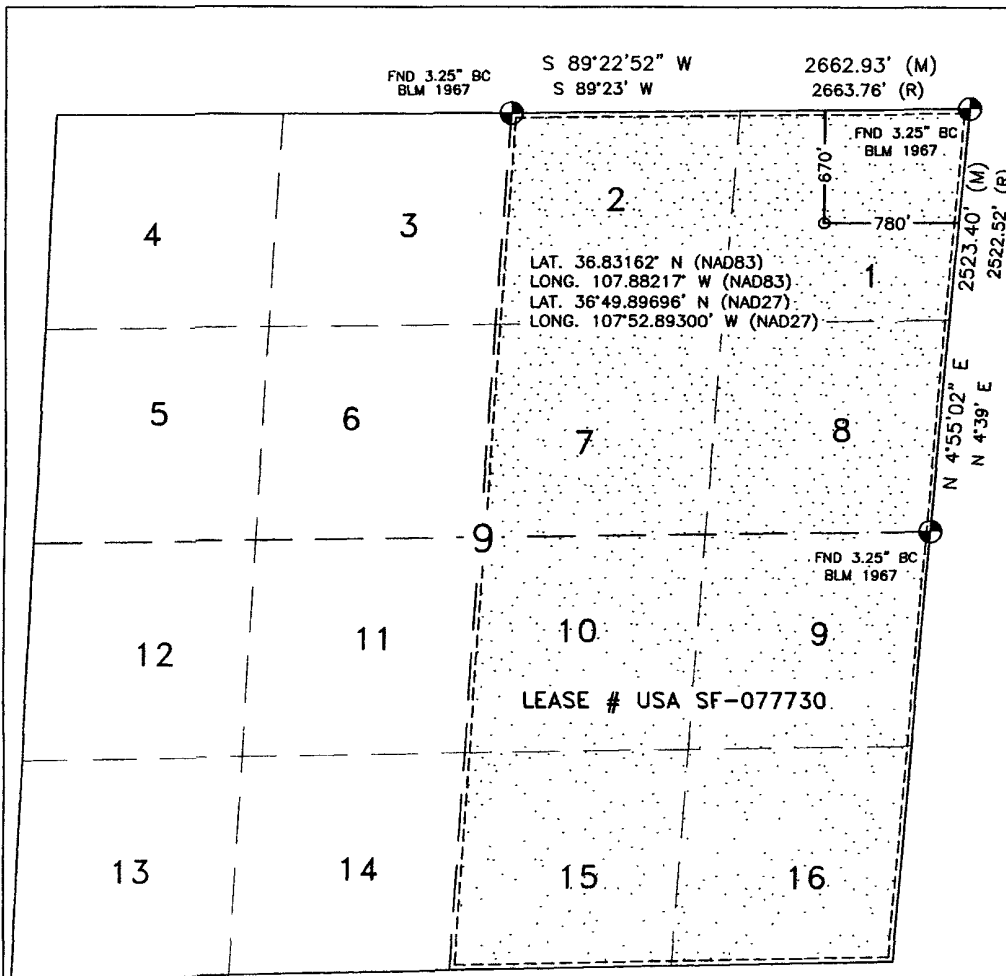
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	9	30N	10W	1	670'	NORTH	780'	EAST	SAN JUAN

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

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A									
<sup>12</sup> Dedicated Acres 302.46 Acres - (E/2)			<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.		

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

16



<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, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner or a compulsory pooling order heretofore entered by the division.

Sasha Spangler 11-30-07  
Signature Date

Sasha Spangler  
Printed Name

<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.

OCTOBER 31, 2007

Date of Survey

Signature and Seal of Professional Surveyor:

DAVID RUSSELL  
REGISTERED PROFESSIONAL LAND SURVEYOR  
NEW MEXICO  
10201

DAVID RUSSELL  
Certificate Number 10201

Office

Energy, Minerals and Natural Resources

May 27, 2004

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO.

30-045-341634

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil &amp; Gas Lease No.

SF-077730

7. Lease Name or Unit Agreement Name

Sunray E

8. Well Number

#221S

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Fruitland Coal

## SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☐Gas Well ☒

Other

2. Name of Operator

BURLINGTON RESOURCES OIL &amp; GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter A : 670 feet from the North line and 780 feet from the East line  
Section 9 Township 30N Range 10W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

6498' GR

Pit or Below-grade Tank Application

or Closure ☐

Pit type

New Drill

Depth to Groundwater

&gt;100'

Distance from nearest fresh water well

&gt;1000'

Distance from nearest surface water

&gt;1000'

Pit Liner Thickness:

12

mil

Below-Grade Tank:

Volume

4400

bbls;

Construction Material

## 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

## NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐TEMPORARILY ABANDON ☐PULL OR ALTER CASING ☐PLUG AND ABANDON ☐CHANGE PLANS ☐MULTIPLE COMPL ☐

OTHER:

New Drill

☒

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING/CEMENT JOB ☐ALTERING CASING ☐P AND A ☐OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Lined:

Burlington Resources proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit will be a lined pit as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be lined as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Crystal Walker TITLE Regulatory Technician DATE 2/27/2008

Type or print name

Crystal Walker

E-mail address: stal.walker@conocophillip.cTelephone No. 505-326-9837

For State Use Only

APPROVED BY

TITLE

Deputy Oil &amp; Gas Inspector,

DATE

APR 04 2008

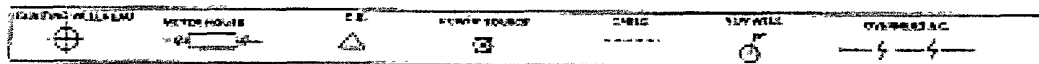
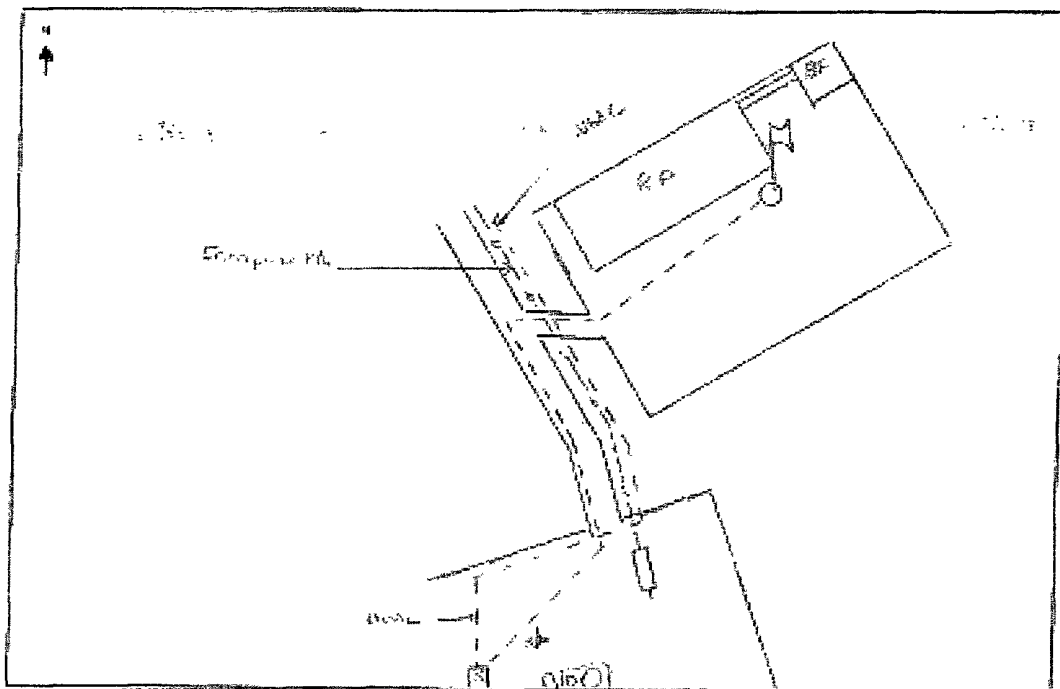
Conditions of Approval (if any):

District #3



WELL NAME Shafter E 4 3415 LEGALS A-9-3040 COUNTY Santa Clara

PURPOSED C.P. SYSTEM: Null new CA and expand existing facilities on Sutro Bay  
100' approx. 800' P & A rec tank proposed 200' in center.



COMMENTS:  $4.35 \text{ v} / 2.2 \text{ a} = 1.98 \text{ v}$

NEAREST POWER SOURCE 15000 KW. 115KV. 500 FT. DISTANCE: 500'  
PIPELINES IN AREA:

TECHNICIAN: John C. [unclear] DATE: 2/2/81

6 CR 5412 BLOOMFIELD, N.M. 87413  
OFFICE: 505-634-0271 CELL: 505-793-6963

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SUNRAY E 221S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7304		AFE \$: 294,072.39	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist: Phone:	
Geoscientist: Clark, Dave D		Phone: 505-326-9762		Prod. Engineer: Phone:	
Res. Engineer: Akwari, Bill N		Phone: +1 505-326-9700		Proj. Field Lead: Phone:	

## Primary Objective (Zones):

Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)

## Location: Surface Datum Code: NAD 27

Latitude: 36.831616	Longitude: -107.881550	X:	Y:	Section: 09	Range: 010W
Footage X: 780 FEL	Footage Y: 670 FNL	Elevation: 6498 (FT)	Township: 030N		

Tolerance:

Location Type: Year Round	Start Date (Est.): 1/1/2009	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 6510 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	6390	<input type="checkbox"/>			8-3/4" hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
OJO ALAMO	1781	4729	<input type="checkbox"/>			
KIRTLAND	1910	4600	<input type="checkbox"/>			
FRUITLAND	2716	3794	<input type="checkbox"/>	500		Gas
PICTURED CLIFFS	3150	3360	<input type="checkbox"/>			Gas
Total Depth	3350	3160	<input type="checkbox"/>			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 515 cuft. Circulate cement to surface.

## Reference Wells:

Reference Type	Well Name	Comments
Intermediate	Sunray E #1	

## Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

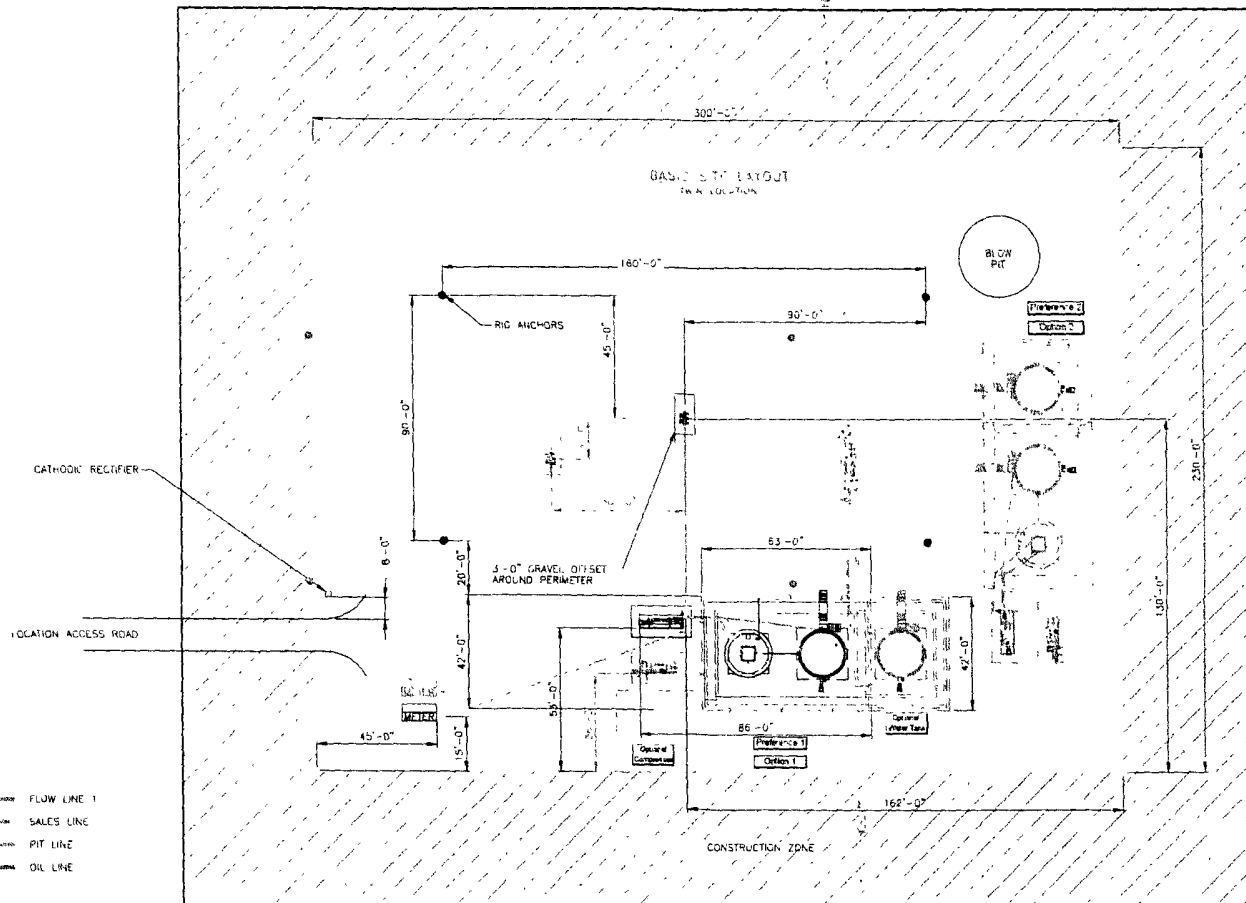
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

GR\_CBL

## Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments:



SEE SHEET 3 & 4 FOR PIPING DETAILS  
ALL UNDERGROUND TYP. IS TO BE BURIED A MIN. OF 3'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		<div>ConocoPhillips</div>			CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										DISCIPLINE	REVIEWED	DATE	NO.	DESCRIPTION							
										PROJECT						<div>SAN JUAN BUSINESS UNIT</div>			CLIENT NO.	CLIENT ADDRESS	SCALE: NONE
										MECHANICAL									DATE: 5/25/07		
										PLUMBING											
										ELECTRICAL											
										I & C											
										CIVIL/STRUCTURAL							DATE: 5/25/07	HP3PHASE-REV:			
										PROJECT											
DESCRIPTION										DATE	BY	CHKD	ENG	DISC	PH.				SHEET NO.		
																			1 OF 5		

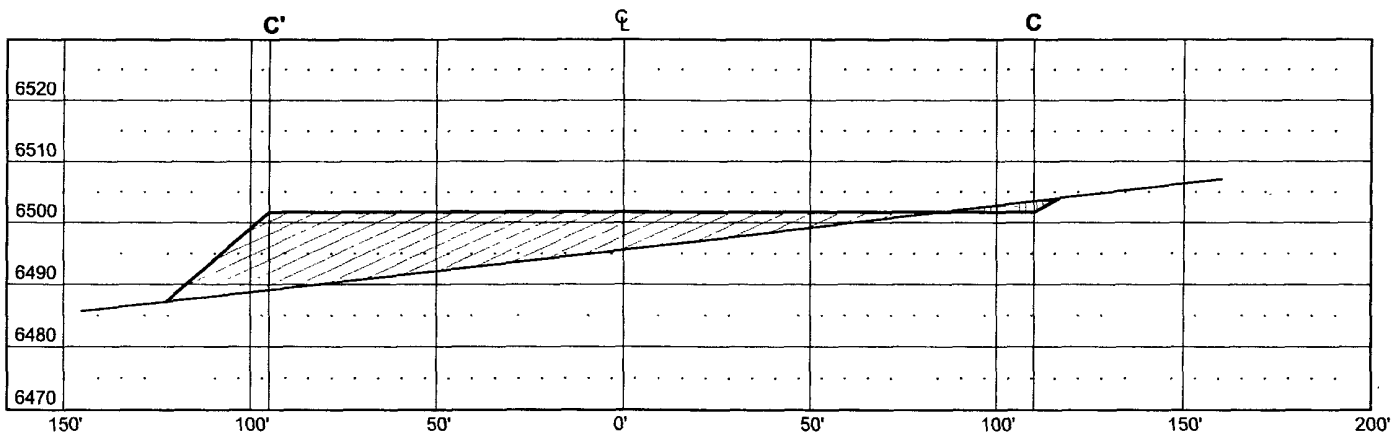
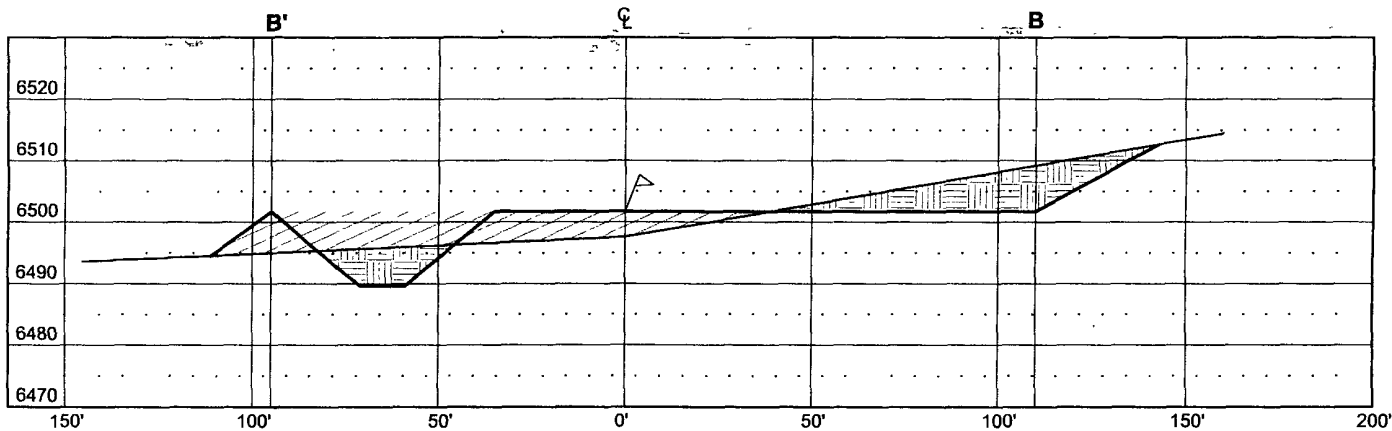
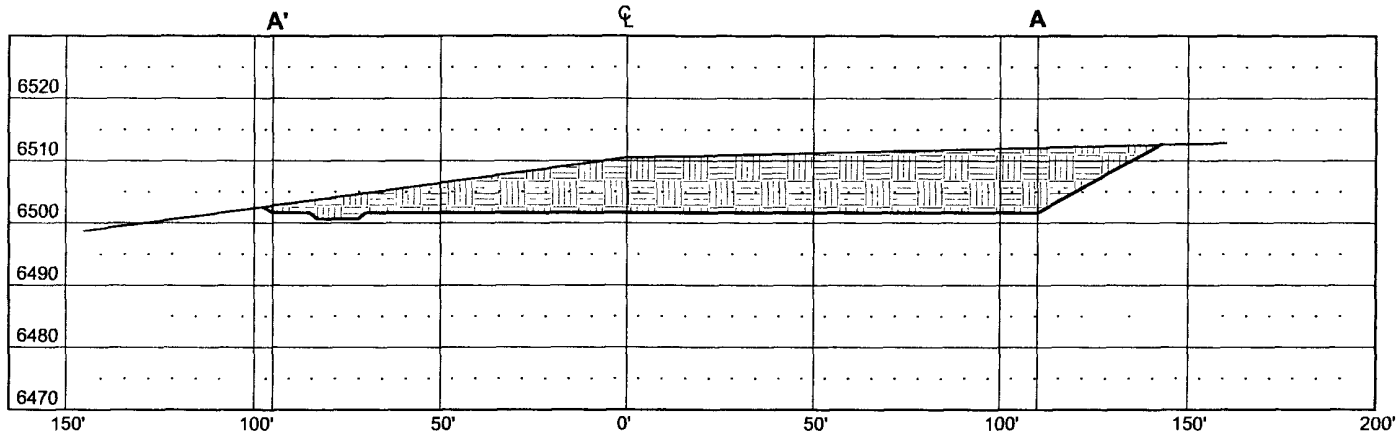
\\hp3phases\SanJuan\Business\Regulatory\San Juan Site Layout.dwg 06/28/2007 02:39pm

**Russell Surveying**  
1409 W. Aztec Blvd. #2  
Aztec, New Mexico 87410  
(505) 334-8637

LATITUDE: 36.83162°N  
LONGITUDE: 107.88217°W  
DATUM: NAD 83

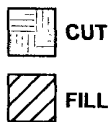
# BURLINGTON RESOURCES O&G CO LP

SUNRAY E #221 S  
670' FNL & 780' FEL  
LOCATED IN THE NE/4 NE/4 OF SECTION 9,  
T30N, R10W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO  
GROUND ELEVATION: 6498", NAVD 88  
FINISHED PAD ELEVATION: 6501.7', NAVD 88



THIS DIAGRAM IS AN ESTIMATE OF DIRT BALANCE AND IS NOT INTENDED TO BE AN EXACT MEASURE OF VOLUME

VERT. SCALE: 1" = 30'  
HORZ. SCALE: 1" = 50'  
JOB No.: COPC126  
DATE: 11/26/07



**Russell Surveying**  
1409 W. Aztec Blvd. #2  
Aztec, New Mexico 87410  
(505) 334-8637