

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number NM SF-078386-A Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name OIL CONS. DIV. DIST. 3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Sunray G 9. Well Number #2C
4. Location of Well Surf: Unit O(SWSE), 1060' FSL & 1910' FEL Surf: Latitude 36.87924° N Longitude 107.78309° W	10. Field, Pool, Wildcat Basin Dakota/Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) 0 Sec. 21, T31N, R9W API # 30-045-34603
14. Distance in Miles from Nearest Town 23.4 mile/Aztec	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1060'	
16. Acres in Lease 551.970	17. Acres Assigned to Well 314.96 (E/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 790' from Sunray G #250	
19. Proposed Depth 7688'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6211' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Crystal Walker</u> Crystal Walker (Regulatory Technician)	<u>2/21/08</u> Date

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE Petr. Eng. / Actg. Asst. DATE 3/17/08

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 3

Bond Numbers NMB-000015 and NMB-000089

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

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

MAR 24 2008

NMOCD

DISTRICT I
1825 N. French Dr., Hobbs, NM. 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

OIL CONSERVATION DIVISION

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

Form C-102

Revised October 12, 2006

RECEIVED
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

FEB 21 2008

Bureau of Land Management
Farmington Field Office
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34603		*Pool Code 71599/72319	*Pool Name BASIN DAKOTA/BLANCO MESAVERDE
*Property Code A722081, A738237	*Property Name SUNRAY G		*Well Number 2 C
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP		*Elevation 6211'

¹⁰ Surface Location

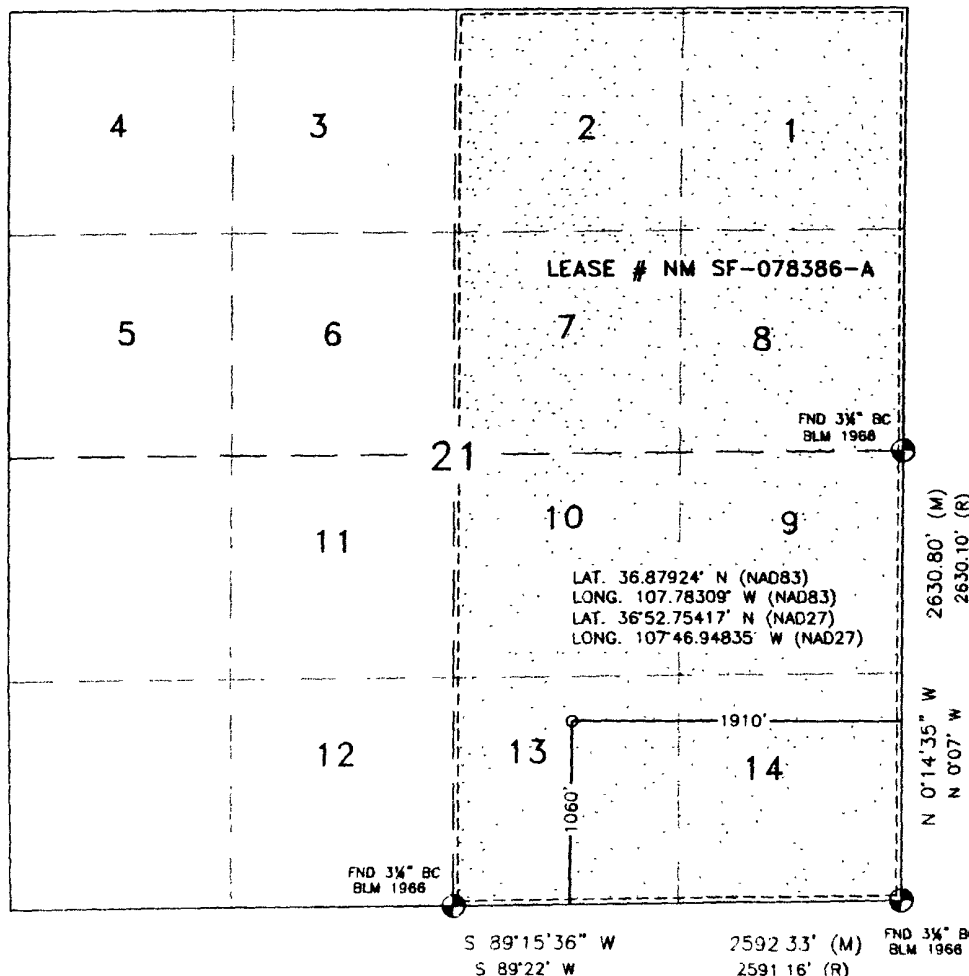
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	21	31N	9W	13	1060'	SOUTH	1910'	EAST	SAN JUAN

¹¹ 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
0									
¹² Dedicated Acres 314.96 Acres - (E/2)			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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



¹⁷ 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.

Rhonda Rogers
Signature
Rhonda Rogers
Date
10-24-07
Printed Name

¹⁸ 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 1, 2007
Date of Survey
Signature and Seal of Professional Surveyor:
David R. Russell
DAVID RUSSELL
Certificate Number
10201

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103

May 27, 2004

OIL CONSERVATION DIVISION

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

WELL API NO.	
30-045- 34603	
5. Indicate Type of Lease	
STATE <input type="checkbox"/>	FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	
NM SF-078386-A	
7. Lease Name or Unit Agreement Name	
Sunray G	
8. Well Number	
2C	
9. OGRID Number	
14538	
10. Pool name or Wildcat	
DK/MV	

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 & GAS COMPANY LP

3. Address of Operator
3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location
Unit Letter O : 1060' feet from the South line and 1910' feet from the East line
Section 21 Township 31N Range 9W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6211'

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type New Drill Depth to Groundwater >100' Distance from nearest fresh water well <100' Distance from nearest surface water 4,200'

Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bbls; Construction Material

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

NOTICE OF INTENTION TO:

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

OTHER: New Drill ☒

SUBSEQUENT REPORT OF:

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

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 NMOCDD 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 NMOCDD 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 NMOCDD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Sasha Spangler TITLE Regulatory Technician DATE 1/23/2008

Type or print name Sasha Spangler E-mail address: spangs@conocophillips.com Telephone No. 505-326-9568

For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, DATE MAR 24 2008
District #3

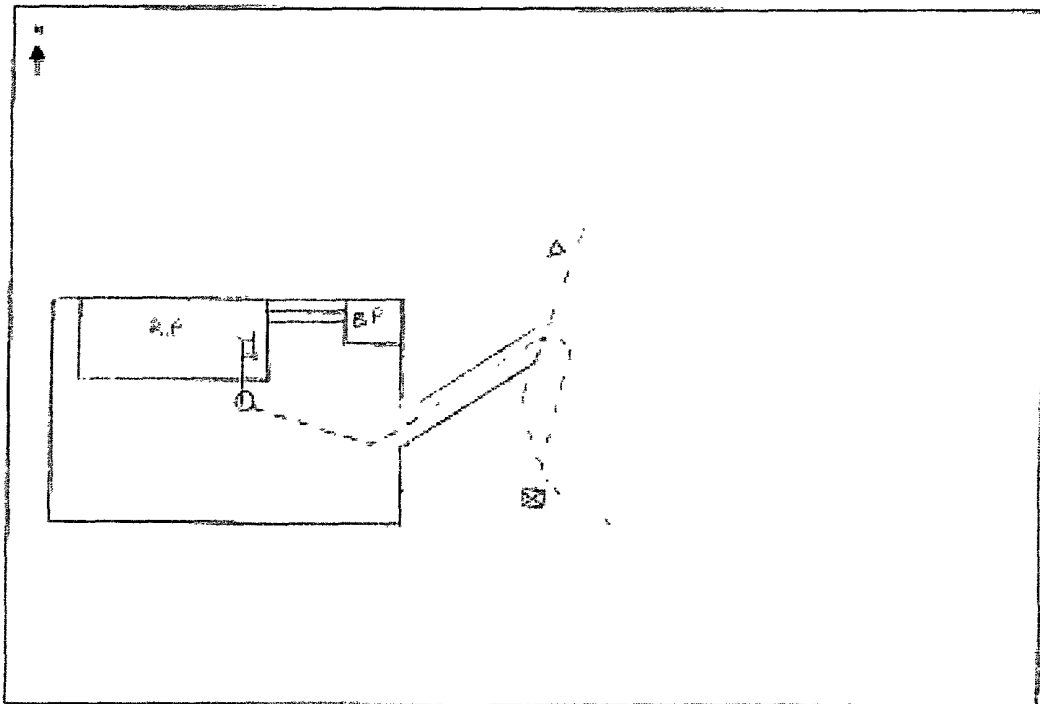
Conditions of Approval (if any):



CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Gun Bay 6-228 LEGALS 31-42-4 COUNTY San Juan

PURPOSED C.P. SYSTEM: Upgrade existing system on Gun Bay 6-228 and drill new 100' trench from 775' to 45' deep from proposed well on existing



COMMENTS: 1

NEAREST POWER SOURCE Artesian Well Gun Bay 6-228 DISTANCE: 775'

PIPELINES IN AREA:

TECHNICIAN: Jeffrey H. Hargrett DATE: 11/13/07

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SUNRAY G 2C

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7323		AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 301		State: NM	County: SAN JUAN
Geologist:		Phone:	Geophysicist:	Phone:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108	Prod. Engineer:	Phone:	
Res. Engineer: McKee, Cory J		Phone: 505-326-9826	Proj. Field Lead:	Phone:	
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				
Location: Surface Datum Code: NAD 27					
Latitude: 36.879236	Longitude: -107.782472	X:	Y:	Section: 21	Range: 009W
Footage X: 1910 FEL	Footage Y: 1060 FSL	Elevation: 6211 (FT)	Township: 031N		
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:	Date In Operation:
Formation Data: Assume KB = 6223 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	6023	<input type="checkbox"/>		
OJO ALAMO	1458	4765	<input type="checkbox"/>		
KIRTLAND	1645	4578	<input type="checkbox"/>		
FRUITLAND	2705	3518	<input type="checkbox"/>		Possible Gas
PICTURED CLIFFS	3055	3168	<input type="checkbox"/>		
LEWIS	3168	3055	<input type="checkbox"/>		
Intermediate Casing	3268	2955	<input type="checkbox"/>		
HUERFANITO BENTONITE	3768	2455	<input type="checkbox"/>		
CHACRA	4131	2092	<input type="checkbox"/>		
MASSIVE CLIFF HOUSE	4806	1417	<input type="checkbox"/>	130	Gas
MENEFEE	4933	1290	<input type="checkbox"/>		
MASSIVE POINT LOOKOUT	5260	963	<input type="checkbox"/>		
MANCOS	5628	595	<input type="checkbox"/>		
UPPER GALLUP	6591	-368	<input type="checkbox"/>		
GREENHORN	7303	-1080	<input type="checkbox"/>		
GRANEROS	7353	-1130	<input type="checkbox"/>		
TWO WELLS	7407	-1184	<input type="checkbox"/>	2075	Gas
PAGUATE	7491	-1268	<input type="checkbox"/>		
UPPER CUBERO	7522	-1299	<input type="checkbox"/>		
LOWER CUBERO	7541	-1318	<input type="checkbox"/>		
ENCINAL	7608	-1385	<input type="checkbox"/>		
TOTAL DEPTH DK	7688	-1465	<input type="checkbox"/>		
12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.					
8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 736 cuft. Circulate cement to surface.					
6-1/4" Hole. 4-1/2", 10.6/11.6 ppf, J-55 STC/LTC casing. Cement with 601 cuft. Circulate cement a minimum of 100' inside the previous casing string.					
Reference Wells:					
Reference Type	Well Name		Comments		

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SUNRAY G 2C

DEVELOPMENT

Logging Program:

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

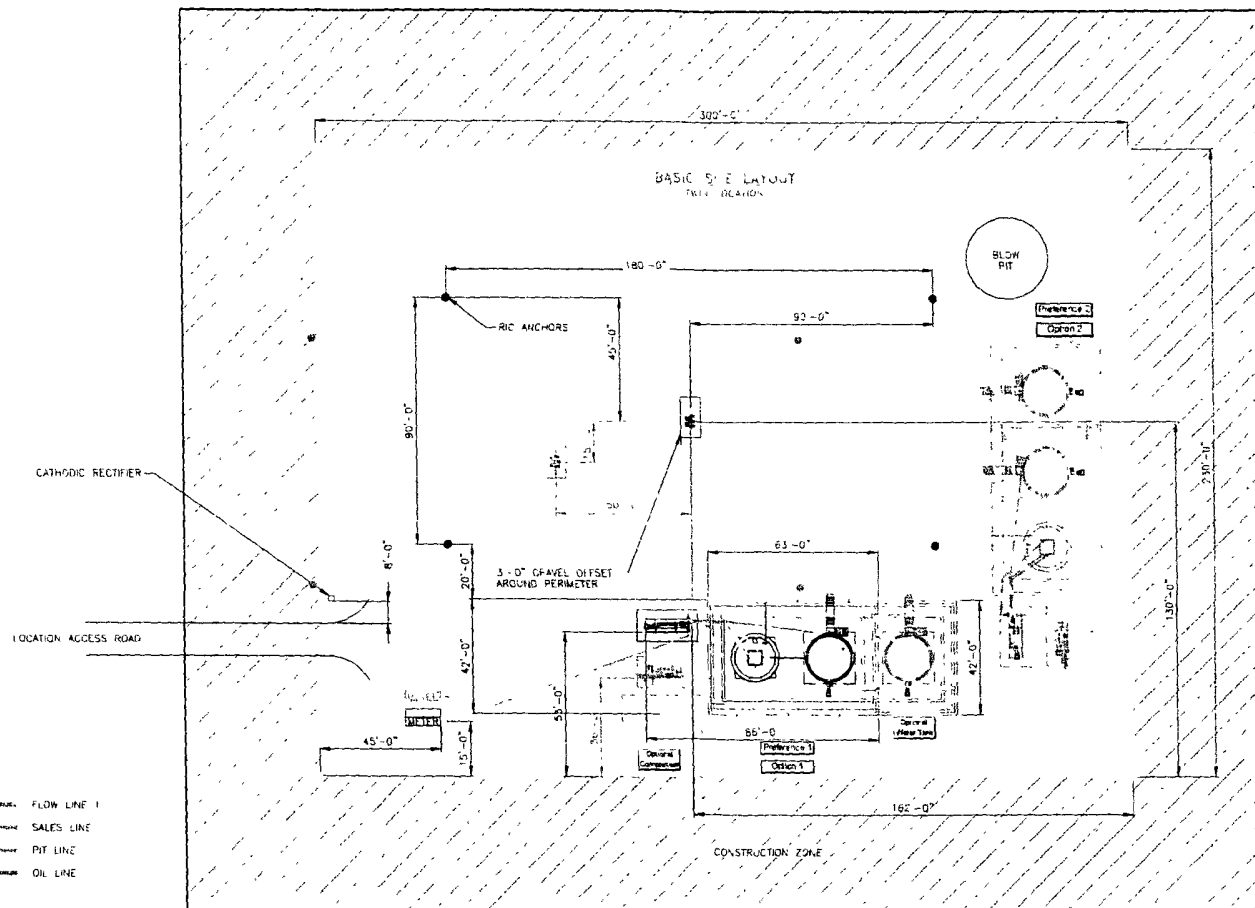
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Est bottom perf ~20' above est TD.

Additional Information:

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



FLOW LINE 1
 SALES LINE
 PIT LINE
 OIL LINE

SEE SHEET 3 & 4 FOR PIPING DETAILS
 ALL UNDERGROUND PIPE IS TO BE BURIED A MIN. OF 3'-0" 10"

SHEET 1 OF 5

ENGINEERING REVIEW										REFERENCE DRAWINGS		CONOCO-PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
DISCIPLINE	REVIEWED	DATE	AS	DESCRIPTION							CLIENT NO.	CLIENT ADDR.	PROJECT DATE	SCALE	REVISION DATE / APPROV.
PROCESS															
MECHANICAL															
Piping															
ELECTRICAL															
I & C															
CIVIL/STRUCTURAL															
PROJECT															

ConocoPhillips

SAN JUAN BUSINESS UNIT

CLIENT NO.
 CLIENT ADDR.
 PROJECT DATE
 SCALE
 REVISION DATE / APPROV.

LATITUDE: 36.87924°N
 LONGITUDE: 107.78309°W
 DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

SUNRAY G #2 C

1060' FSL & 1910' FEL

LOCATED IN THE SW/4 SE/4 OF SECTION 21,

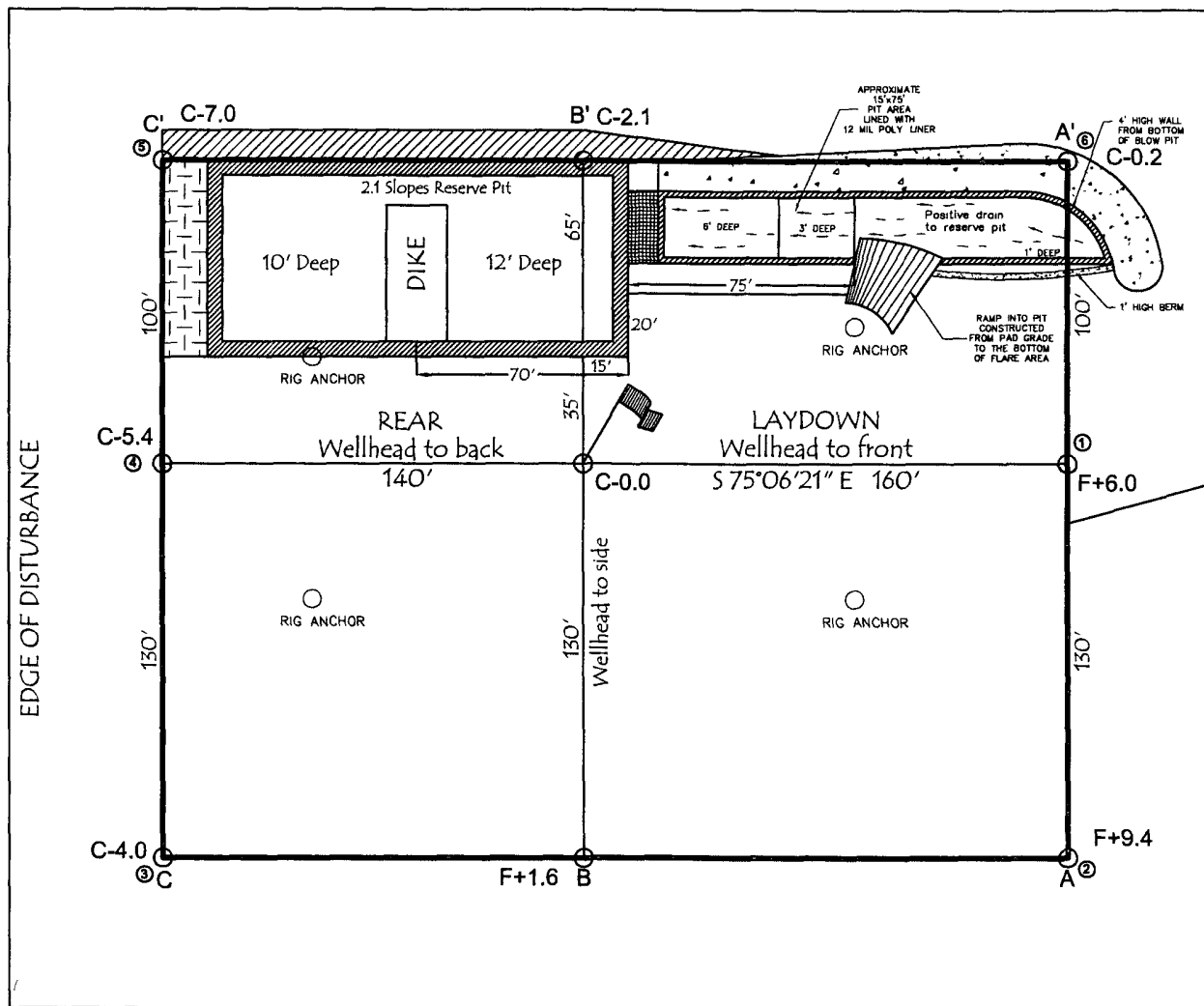
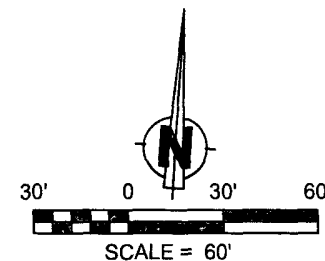
T31N, R9W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6211', NAVD 88

FINISHED PAD ELEVATION: 6211.1', NAVD 88

SLOPES TO BE CONSTRUCTED TO
 MATCH THE ORIGINAL CONTOURS
 AS CLOSE AS POSSIBLE.



330' x 400' = 3.03 ACRES OF DISTURBANCE
 SCALE: 1" = 60'
 JOB No.: COPC107
 DATE: 10/16/07

NOTE:
 RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
 RUSSELL SURVEYING, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
 CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

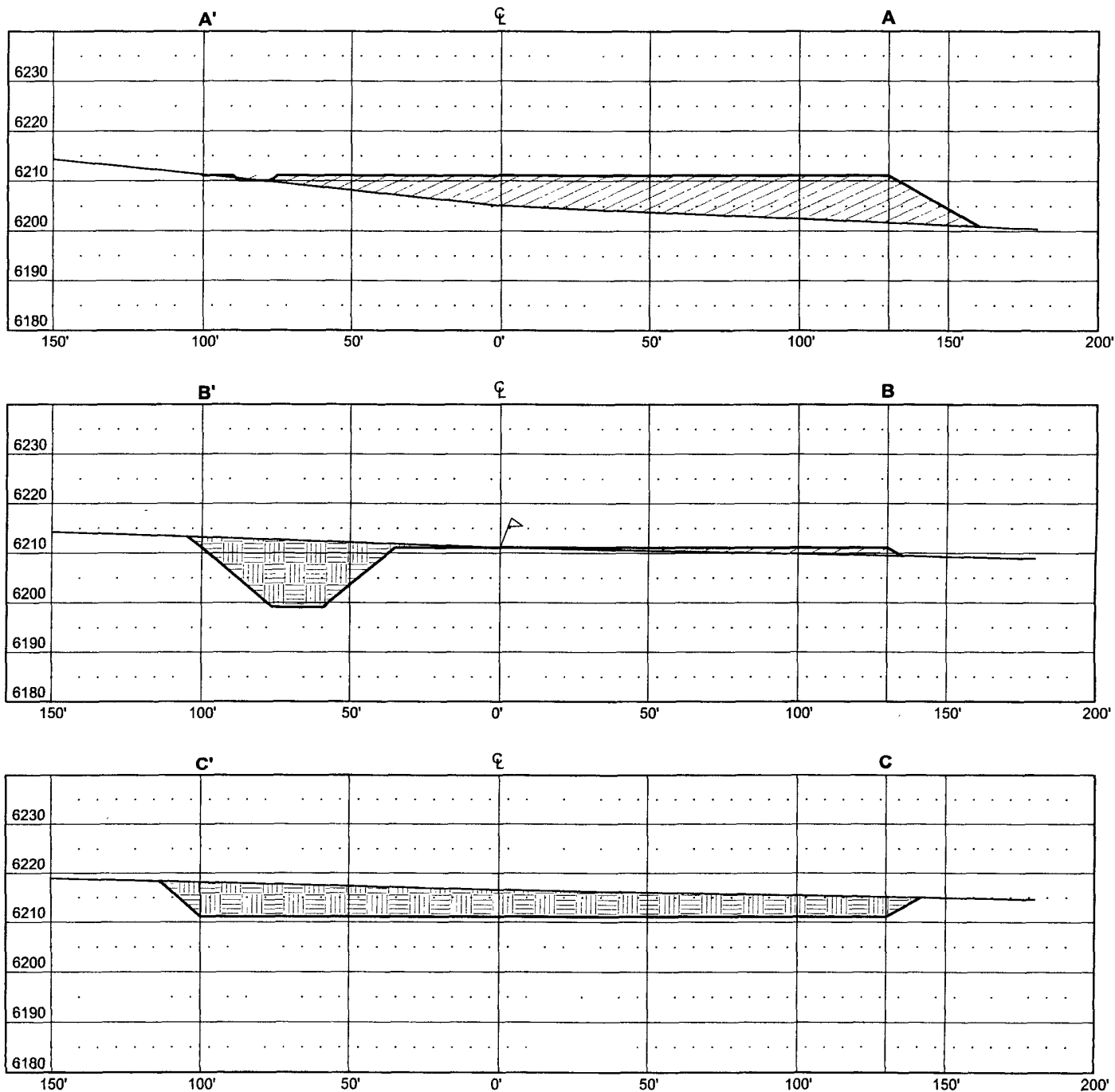


Russell Surveying
 1409 W. Aztec Blvd. #2
 Aztec, New Mexico 87410
 (505) 334-8637

LATITUDE: 36.87924°N
LONGITUDE: 107.78309°W
DATUM: NAD 83

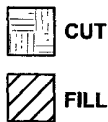
BURLINGTON RESOURCES O&G CO LP

SUNRAY G #2 C
1060' FSL & 1910' FEL
LOCATED IN THE SW/4 SE/4 OF SECTION 21,
T31N, R9W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6211', NAVD 88
FINISHED PAD ELEVATION: 6211.1', 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.: COPC107
DATE: 10/16/07



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