

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RCVD OCT 22 '07

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	<b>RECEIVED</b> OCT 1 2007 Bureau of Land Management Farmington Field Office	5. Lease Number NMSF-080750 Unit Reporting Number NMNM 103103 - DK
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 F 9. Well Number #1F	
4. Location of Well Surf: Unit I (NESE), 2565' FSL & 885' FEL  Surf: Latitude 36° 46.97668 N Longitude 107° 50.91892 W	10. Field, Pool, Wildcat Basin Dakota  11. Sec., Twn, Rge, Mer. (NMPM) Sec. 26, T30N, R10W  API # 30-045-34450	
14. Distance in Miles from Nearest Town 12 mile	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 885'		
16. Acres in Lease 158.45	17. Acres Assigned to Well DK 317.22 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 975' from Sunray F 1M		
19. Proposed Depth 7390'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6252' GL	22. Approx. Date Work will Start 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 9-28-07 Date	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <i>Rhonda Rogers</i> Rhonda Rogers (Regulatory Technician)		

PERMIT NO.

APPROVAL DATE

APPROVED BY *[Signature]*

TITLE *AFM*

DATE *10/19/07*

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

NOTIFY AZTEC OCD 24 HRS.

PRIOR TO CEMENT & CEMENT

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

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

*B* OCT 30 2007-*AV*

# RECEIVED

OCT 1 2007

Form C-102

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Revised October 12, 2005

DISTRICT II  
1801 W. Grand Avenue, Artesia, N.M. 88210

Bureau of Land Management

San Juan Field Office

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

## OIL CONSERVATION DIVISION

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

State Lease - 4 Copies  
Fee Lease - 3 Copies

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

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34450		*Pool Code 71599	*Pool Name BASIN DAKOTA
*Property Code 7568	*Property Name SUNRAY F		*Well Number 1F
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP		*Elevation 6252'

#### 10 Surface Location

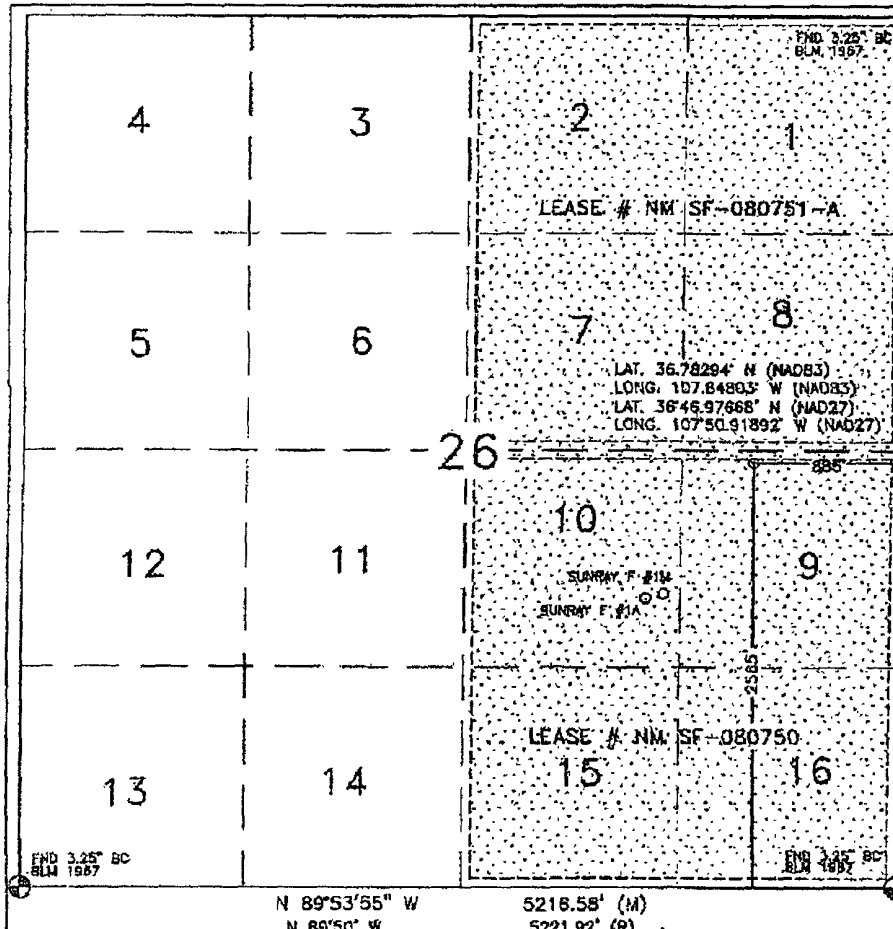
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	26	30N	10W	9	2565'	SOUTH	885'	EAST	SAN JUAN

#### 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
I									
*Dedicated Acres 317.22 Acres - (E/2)			*Joint or Infill		*Consolidation Code		*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.

*Kandis Roland*  
Signature Date

Kandis Roland  
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.

JUNE 1, 2007

Date of Survey

Signature and Seal of Professional Surveyor

*David P. Russell*



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- 34450

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil &amp; Gas Lease No.

Federal Lease #NMSF-080750

7. Lease Name or Unit Agreement Name

Sunray F

8. Well Number

#1F

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Dakota

SUNDY 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 I : 2565' feet from the South line and 885' feet from the East lineSection 26 Township 30N Rng 10W NMPM County San Juan

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

6252'

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

&lt;1000

Pit Liner Thickness:

NA

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 ☐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, Unlined:

Burlington Resources proposes to construct a new drilling pit, an associated vent/flare pit and a pre-set mud pit (if required). Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit, vent/flare pit and pre-set mud pit will be unlined pits 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 unlined, 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

TITLE

Regulatory Technician

DATE

2-28-07

Type or print name

Rhonda Rogers

E-mail address:

rogerrs@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,  
District #3

DATE

OCT 30 2007

Conditions of Approval (if any):

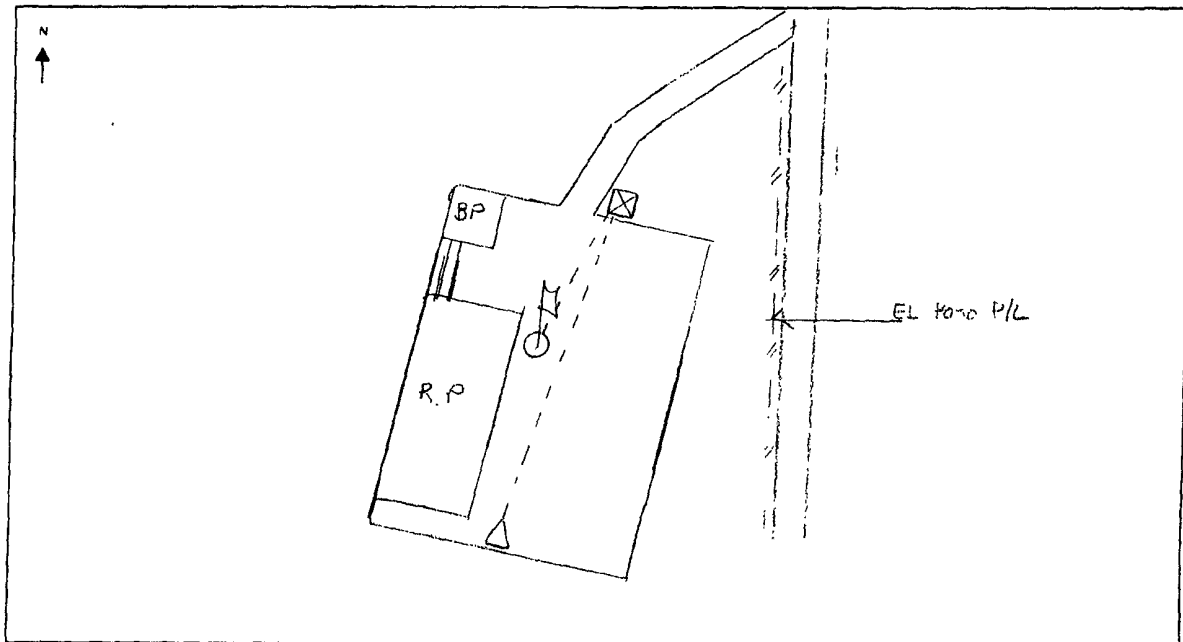


TECHNICAL SERVICES  
A CORROSION COMPANY

## CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Sun Bay F #1F LEGALS I-26-30-10 COUNTY San Juan

PURPOSED C.P. SYSTEM: Drill GB on S edge of location. Put solar on outer NE edge of location (E side of access). Trench approx 0.75' of positive cable from GB to solar. Trench approx 0.75' of #8 neg cable from proposed well to solar.



EXISTING WELLHEAD	METER HOUSE	G.B.	POWER SOURCE	CABLE	NEW WELL	OVERHEAD A.C.

COMMENTS: \_\_\_\_\_

NEAREST POWER SOURCE Sun Bay F #5 DISTANCE: over 1/2 mile

PIPELINES IN AREA: EL 4000 P/L

TECHNICIAN: Upholder / H. H. H. H. DATE: 6/28/2007

6 CR 5412 BLOOMFIELD, N.M. 87413  
OFFICE: 505-634-0271 CELL: 505-793-6953

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SUNRAY F 1F

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7160				AFE \$: 648,254.76	
Field Name: hBR SAN JUAN		Rig: H&P Rig 283		State: NM	County: SAN JUAN		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		Proj. Field Lead:		Phone:	
<b>Primary Objective (Zones):</b>							
<b>Zone</b>	<b>Zone Name</b>						
FRR	BASIN DAKOTA (PRORATED GAS)						
<b>Location: Surface Datum Code: NAD 27 Straight Hole</b>							
Latitude: 36.782935		Longitude: -107.847411		X:	Y:	Section: 26	Range: 010W
Footage X: 885 FEL		Footage Y: 2565 FSL		Elevation: 6252 (FT)		Township: 030N	
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6264 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6064	<input type="checkbox"/>			12-1/4" hole. 200' 9-5/8", 32.3 ppf, H-40, STC casing. Cement with 159cuft. Circulate cement to surface.	
OJO ALAMO	1617	4647	<input type="checkbox"/>				
KIRTLAND	1693	4571	<input type="checkbox"/>				
FRUITLAND	2447	3817	<input type="checkbox"/>			Possible Gas	
PICTURED CLIFFS	2829	3435	<input type="checkbox"/>				
LEWIS	2986	3278	<input type="checkbox"/>				
HUERFANITO BENTONITE	3559	2705	<input type="checkbox"/>				
CHACRA	3814	2450	<input type="checkbox"/>				
MASSIVE CLIFF HOUSE	4436	1828	<input type="checkbox"/>			Gas	
MENEFEE	4596	1668	<input type="checkbox"/>				
Intermediate Casing	4746	1518	<input type="checkbox"/>			8 3/4" Hole. 7", 20/23 ppf, J-55, STC/LTC Casing. Cement with 1070 cuft. Circulate cement to surface.	
MASSIVE POINT LOOKOUT	5117	1147	<input type="checkbox"/>				
MANCOS	5519	745	<input type="checkbox"/>				
UPPER GALLUP	6339	-75	<input type="checkbox"/>				
GREENHORN	7083	-819	<input type="checkbox"/>				
GRANEROS	7133	-869	<input type="checkbox"/>				
TWO WELLS	7182	-918	<input type="checkbox"/>	1600		Gas	
PAGUATE	7272	-1008	<input type="checkbox"/>				
CUBERO	7322	-1058	<input type="checkbox"/>				
ENCINAL	7390	-1126	<input type="checkbox"/>				
Total Depth	7390	-1126	<input type="checkbox"/>			6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55, STC/LTC casing. Cement w/ 364 cuft. Circulated Cmt a minimum of 100' inside the previous casing string.	
<b>Reference Wells:</b>							
Reference Type	Well Name			Comments			

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SUNRAY F 1F

DEVELOPMENT

<b>Logging Program:</b>			
Intermediate Logs:	<input type="checkbox"/> Log only if show	<input type="checkbox"/> GR/ILD	<input type="checkbox"/> Triple Combo

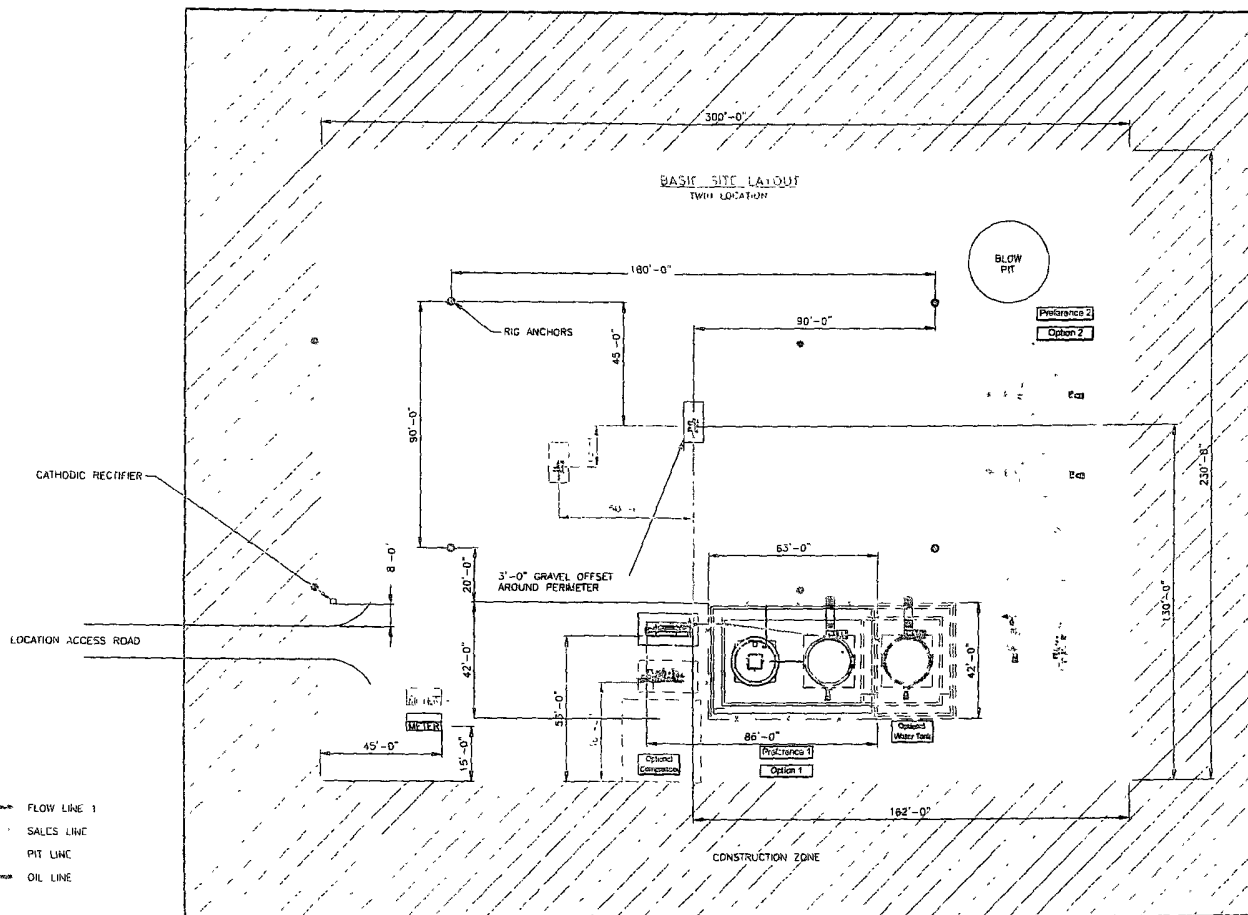
TD Logs:	<input type="checkbox"/> Triple Combo	<input type="checkbox"/> Dipmeter	<input type="checkbox"/> RFT	<input type="checkbox"/> Sonic	<input type="checkbox"/> VSP	<input type="checkbox"/> TDT	<input checked="" type="checkbox"/> Other
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GR/CBL. Est bottom perf is ~15' above TD.

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


Comments: Location/Tops/Logging - DKNM030N010W26SE1 Avoid J, do not twin, some topo, prefer P,I.

Zones - DKNM030N010W26SE1



SEE SHEET 1 OF 5 FOR FLOW LINES  
ALL UNDERGROUND PIPE IS TO BE BURIED A MIN OF 3'-0" TOP

SHEET 1 OF 5

ENGINEERING REVIEW										REFERENCE DRAWINGS			CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
DISCIPLINE		REVIEWED		DATE		NO		DESCRIPTION		CLIENT No.	CLIENT ADDR		SCALE	DATE		
PROCESS										DRWN BY	CREATED DATE		SHEET NO.			
MECHANICAL																
Piping																
ELECTRICAL																
I & C																
CIVIL/STRUCTURAL																
DESCRIPTION										SAN JUAN BUSINESS UNIT						
DATE		BY		CHK'D		EAG		DEC		PRJ		HP3PHASE-REV1				
												1 OF 5				

Project: San Juan Business Unit Regulatory Location Site Layout.dwg, 06/28/2007 - 02:39pm

LATITUDE: 36.78294°N  
 LONGITUDE: 107.84803°W  
 DATUM: NAD 83

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

# BURLINGTON RESOURCES O&G CO LP

SUNRAY F #1F

2565' FSL & 885' FEL

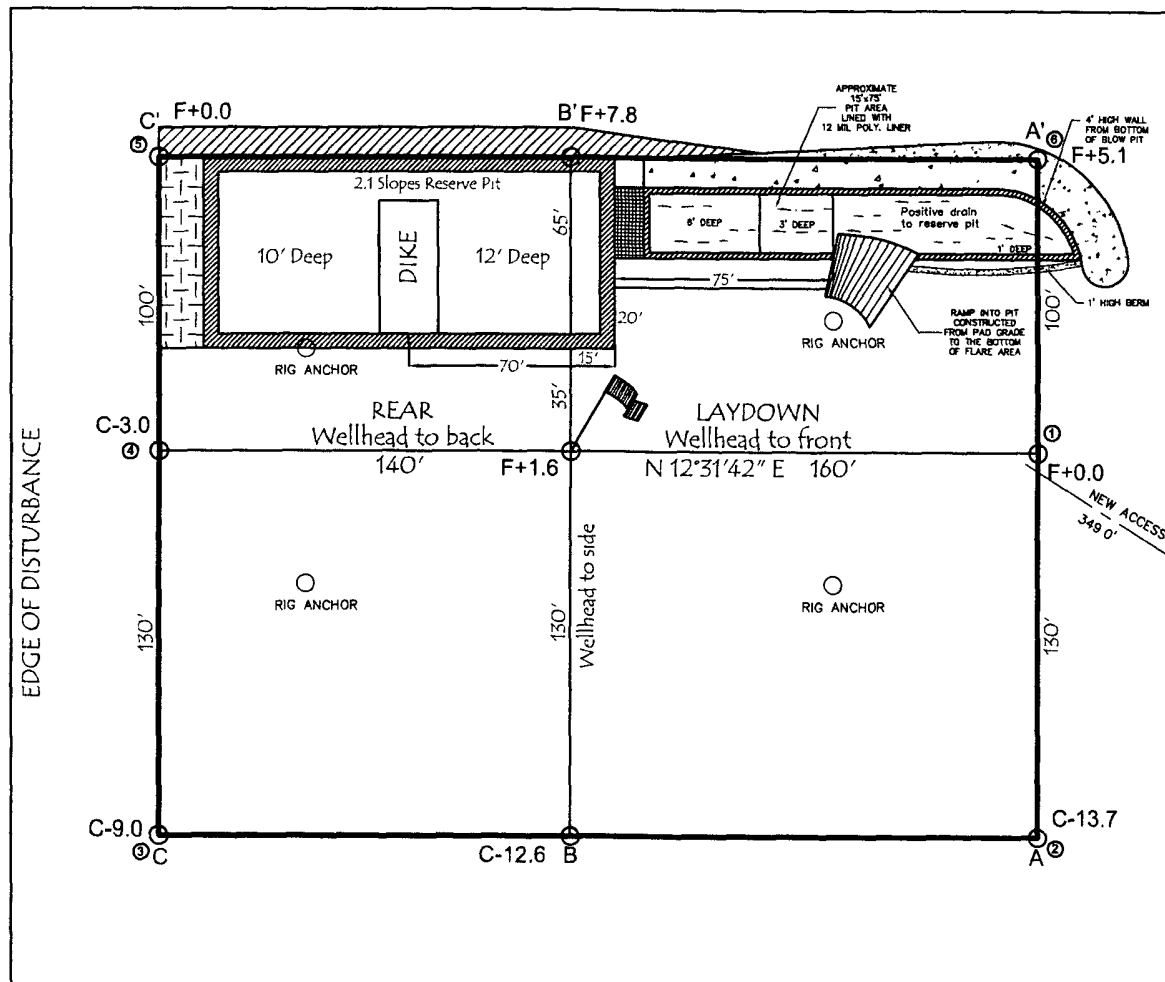
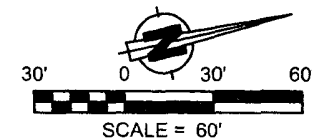
LOCATED IN THE NE/4 SE/4 OF SECTION 26,

T30N, R10W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6252', NAVD 88

FINISHED PAD ELEVATION: 6252', NAVD 88



330' x 400' = 3.03 ACRES OF DISTURBANCE

SCALE: 1" = 60'

JOB No.: COPC076

DATE: 06/12/07

## 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

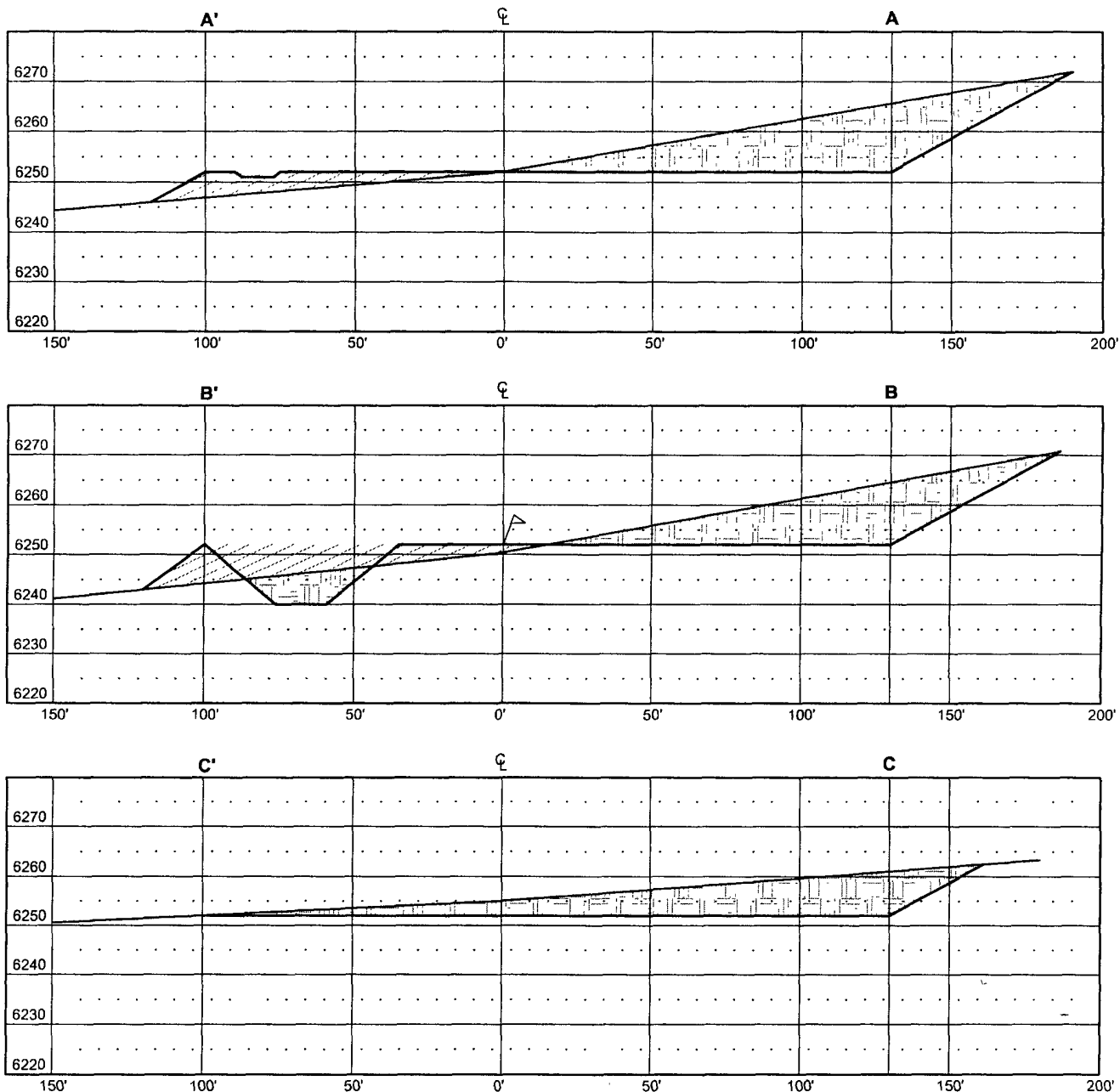
(505) 334-8637



LATITUDE: 36.78294°N  
LONGITUDE: 107.84803°W  
DATUM: NAD 83

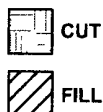
# BURLINGTON RESOURCES O&G CO LP

SUNRAY F #1F  
2565' FSL & 885' FEL  
LOCATED IN THE NE/4 SE/4 OF SECTION 26,  
T30N, R10W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO  
GROUND ELEVATION: 6252', NAVD 88  
FINISHED PAD ELEVATION: 6252', 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.: COPC076  
DATE: 06/12/07



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