

RCVD MAR 25 '08

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OIL CONS. DIV.

DIST. 2

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

1a. Type of Work DRILL	<b>RECEIVED</b> <b>MAR 06 2008</b> Bureau of Land Management Farmington Field Office	5. Lease Number USA NM-03877 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 Leo Manning 9. Well Number #100	
4. Location of Well Surf: Unit P(SESE), 926' FSL & 963' FEL  Surf: Latitude 36.73552° N Longitude 107.95515° W	10. Field, Pool, Wildcat Basin FC/ <del>Blanco</del> PC <i>Aztec</i> 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 11, T29N, R11W API # 30-045- <i>34628</i>	
14. Distance in Miles from Nearest Town 3 miles/Bloomfield	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 926'		
16. Acres in Lease 819.570	17. Acres Assigned to Well 320.00 Acres - (S/2) - FC 160.00 Acres - (SE/4) - PC	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 50- from CP Fogelson 11 #2 - DK		
19. Proposed Depth 2170'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 5665' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <i>Crystal Walker</i> Crystal Walker (Regulatory Technician)	3/6/08 Date	

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY *[Signature]* TITLE *AFM* DATE *3/25/08*

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 2

Bond Numbers NMB-000015 and NMB-000089

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

NMOCD

APR 01 2008

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"

# RECEIVED

MAR 06 2008

Form C-102

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Bureau of Land Management  
Revised October 12, 2005

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

Farmington Field Office

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT III  
1600 Rio Brazos Rd., Aztec, N.M. 87410

## OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-34628		<sup>2</sup> Pool Code 71629/71280	<sup>3</sup> Pool Name A27cc
<sup>4</sup> Property Code 37082		<sup>5</sup> Property Name LEO MANNING	
<sup>6</sup> GRID No. 14538	<sup>7</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP		<sup>8</sup> Well Number 100
		<sup>9</sup> Elevation 5665'	

### <sup>10</sup> Surface Location

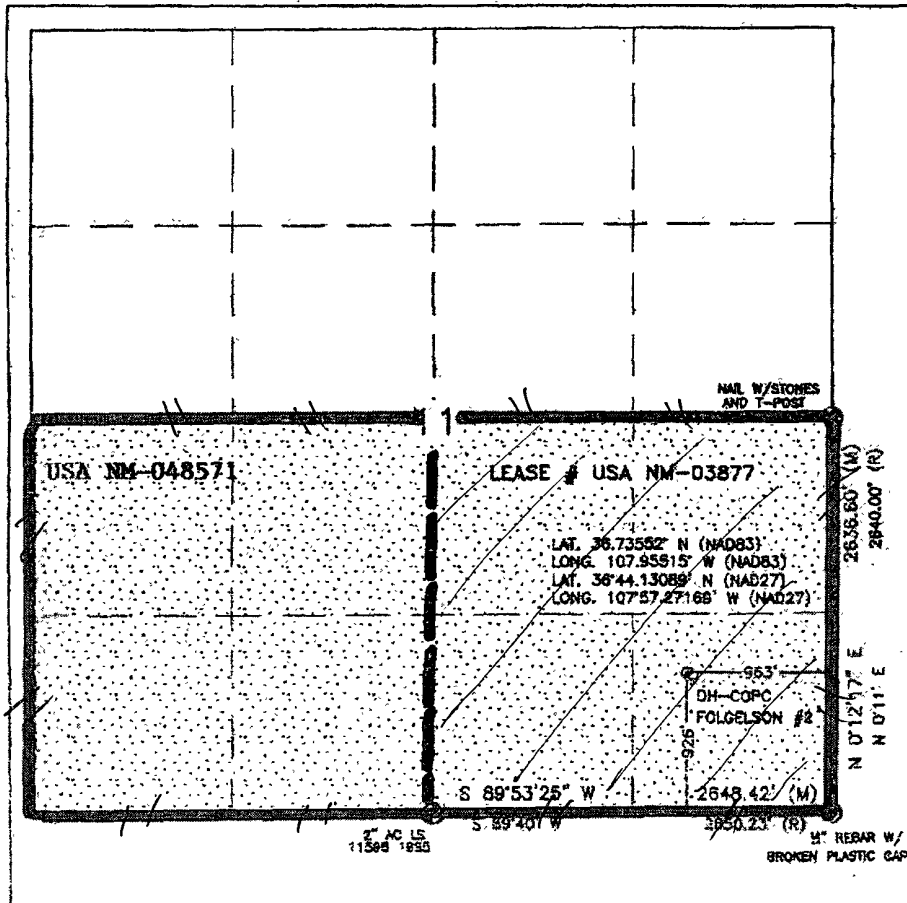
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	11	29N	11W		926'	SOUTH	963'	EAST	SAN JUAN

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

UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County
P									
<sup>12</sup> Dedicated Acres 320.00 Acres - (S/2) FC 160.00 Acres - (SE/4) PC			<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.

Signature: Sasha Spangler Date: 12-05-07

Printed Name: Sasha Spangler

Signature: \_\_\_\_\_

### <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.

Date of Survey: NOVEMBER 5, 2007

Signature and Seal of Professional Surveyor:

Signature: David A. Russell

DAVID A. RUSSELL  
NEW MEXICO  
REGISTERED PROFESSIONAL LAND SURVEYOR  
10201

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-

34628

5. Indicate Type of Lease

STATE ☒FEE ☐

6. State Oil &amp; Gas Lease No.

NM-03877

7. Lease Name or Unit Agreement Name

Leo Manning

8. Well Number

#100

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Fruitland Coal/Blanco Pictured Cliffs

## 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 P : 926 feet from the South line and 963 feet from the East lineSection 11 Township 29N Rng 11W NMPM County San Juan

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

5665' 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

☐

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 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

TITLE

Regulatory Technician

DATE

2/21/2008

Type or print name

Crystal Walker

E-mail address:

crystal.walker@conocoPhillips.com

Telephone No.

505-326-9837

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,  
District #3

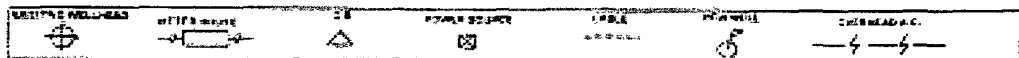
DATE

APR 01 2008

Conditions of Approval (if any):



WELL NAME Los Hornos #100 LEGALS P. 10-29-AL COUNTY San Juan

[illegible]

**COMMENTS:**

NEAREST POWER SOURCE: Durham, N.C. DISTANCE: 300'  
PIPELINES IN AREA: Catawba P/L

TECHNICIAN: John J. Sullivan DATE: 11/24/77

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

LEO MANNING 100

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7385		AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Clark, Dave D		Phone: 505-326-9762		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
				Phone:	

## Primary Objective (Zones):

Zone	Zone Name
UPL	BLANCO PICTURED CLIFFS
JCV	BASIN FRUITLAND COAL (GAS)

Location: Surface Datum Code: NAD 27

Latitude: 36.735515	Longitude: -107.954528	X:	Y:	Section: 11	Range: 011W
Footage X: 963 FEL	Footage Y: 926 FSL	Elevation: 5665 (FT)	Township: 029N		
Tolerance:					

Location Type: Year Round Start Date (Est.): 1/1/2009 Completion Date: Date In Operation:

Formation Data: Assume KB = 5677 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	5557	<input type="checkbox"/>			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
OJO ALAMO	687	4990	<input type="checkbox"/>			
KIRTLAND	799	4878	<input type="checkbox"/>			
FRUITLAND	1557	4120	<input type="checkbox"/>	300		Gas
PICTURED CLIFFS	1970	3707	<input type="checkbox"/>			Gas
Total Depth	2170	3507	<input type="checkbox"/>			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 333 cuft. Circulate cement to surface.

## Reference Wells:

Reference Type	Well Name	Comments
Production	Fogelson 2-11	SE11-29-11

## Logging Program:

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

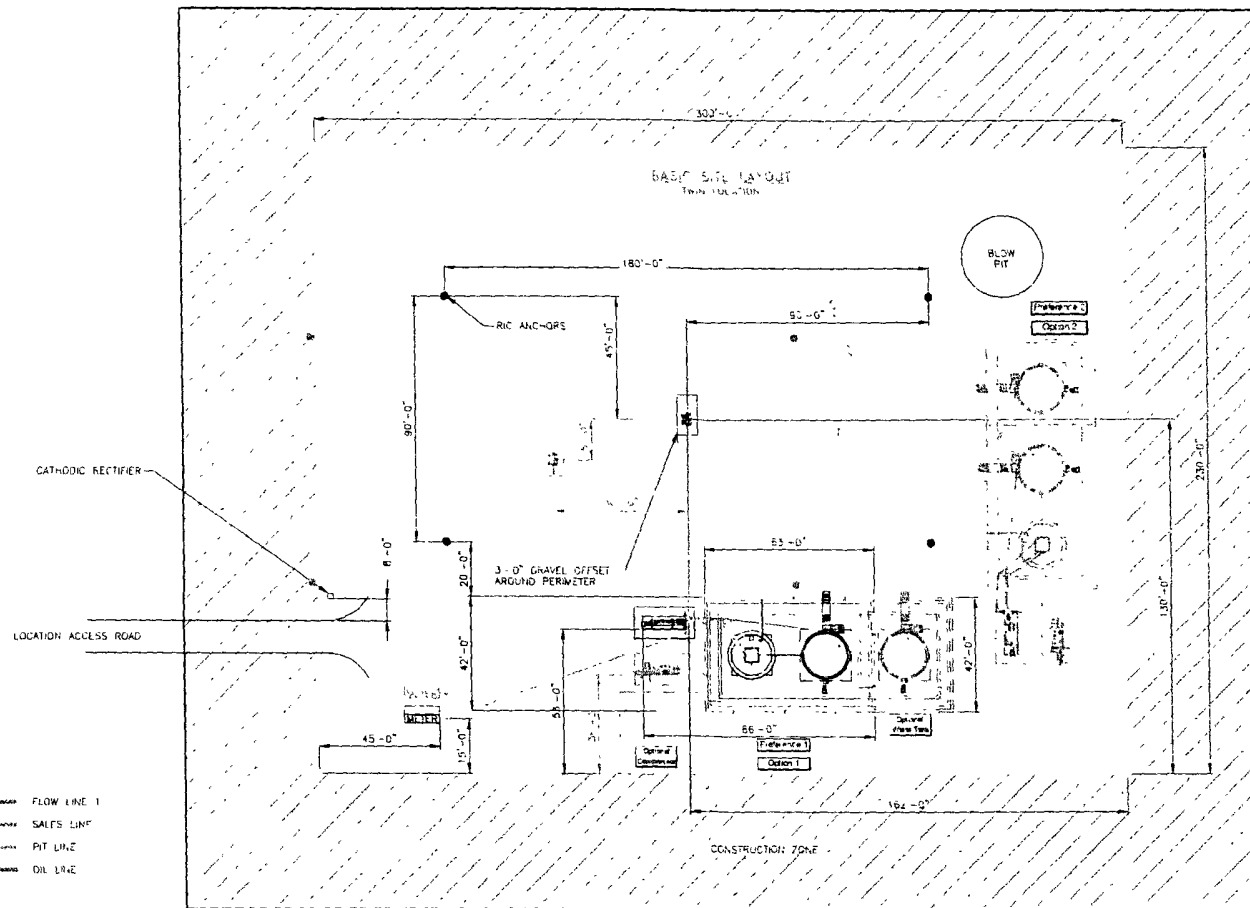
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

GR/CBL

Additional Information:

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



SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		ConocoPhillips  SAN JUAN BUSINESS UNIT	CONOCOPHILLIPS HIC - PRESSURE 3 PHASE FACILITY DIAGRAM - SITE LAYOUT			
										DISCIPLINE	REVIEWED	DATE	NO.	DESCRIPTION		CLIENT NO.	CLIENT ADDR.	DATE	
										Mechanical									
										MECHANICAL									
										Piping									
										ELECTRICAL									
										I & C									
										CIVIL/STRUCTURAL									
										PROCESS									
DESCRIPTION										DATE	BY	CHK'D	ENG	DSE		PRJ	CLIENT NO.		
																	CLIENT ADDR.		
																	DATE		
																	SCALE: AS SHOWN		
																	DATE: 11/11/11		
																	DRAWN BY: J. J. J.		
																	REV: 1		
																	HP3PHASE-REV1		
																	11/11/11		

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

LEO MANNING #100

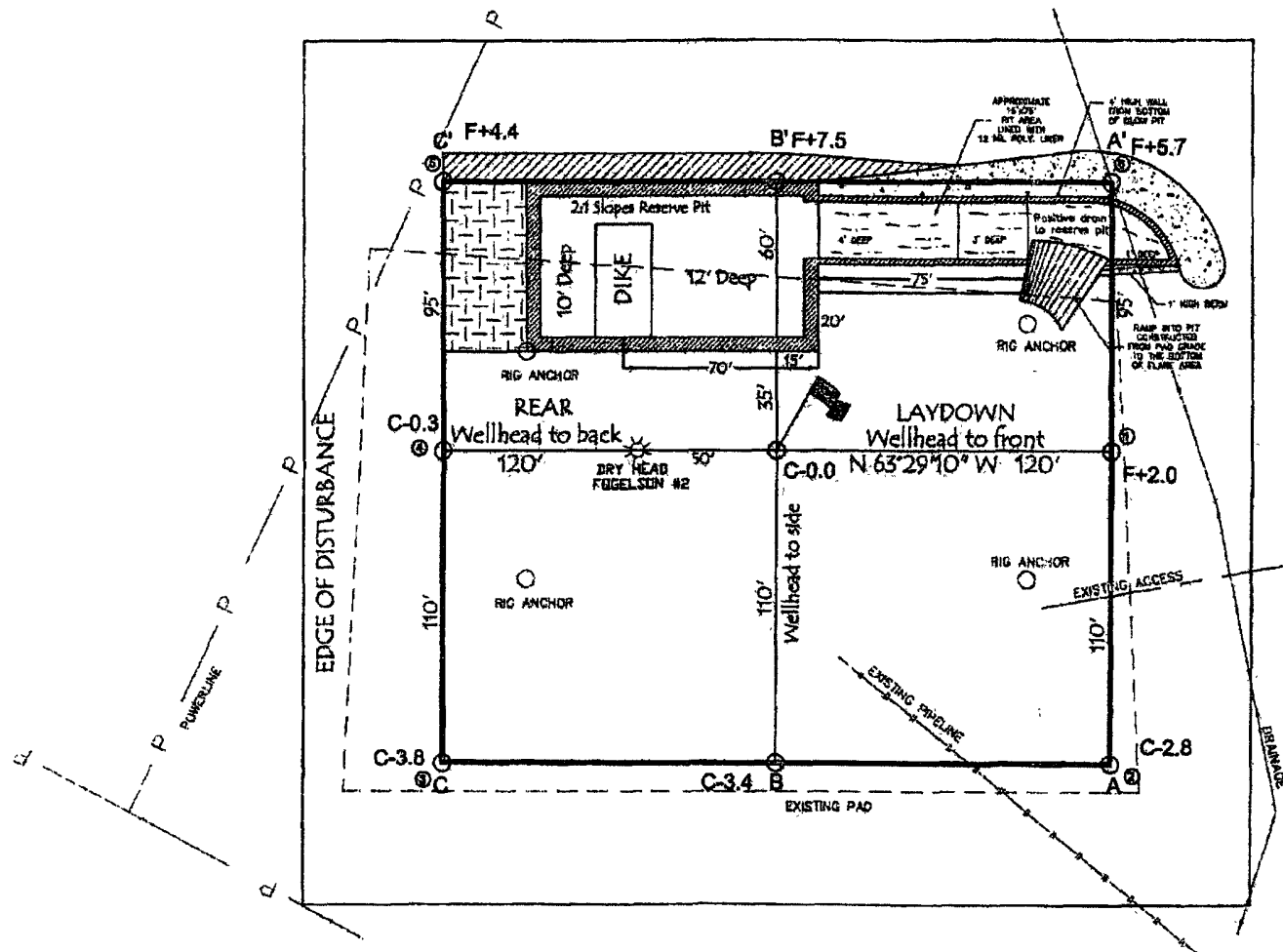
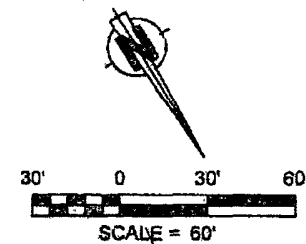
926' FSL & 963' FEL

LOCATED IN THE SE/4 SE/4 OF SECTION 11,  
T29N, R11W, N.M.P.M.,

**SAN JUAN COUNTY, NEW MEXICO**

GROUND ELEVATION: 5665', NAVD 88

FINISHED PAD ELEVATION: 5664.5', NAVD 88



**NOTE:**

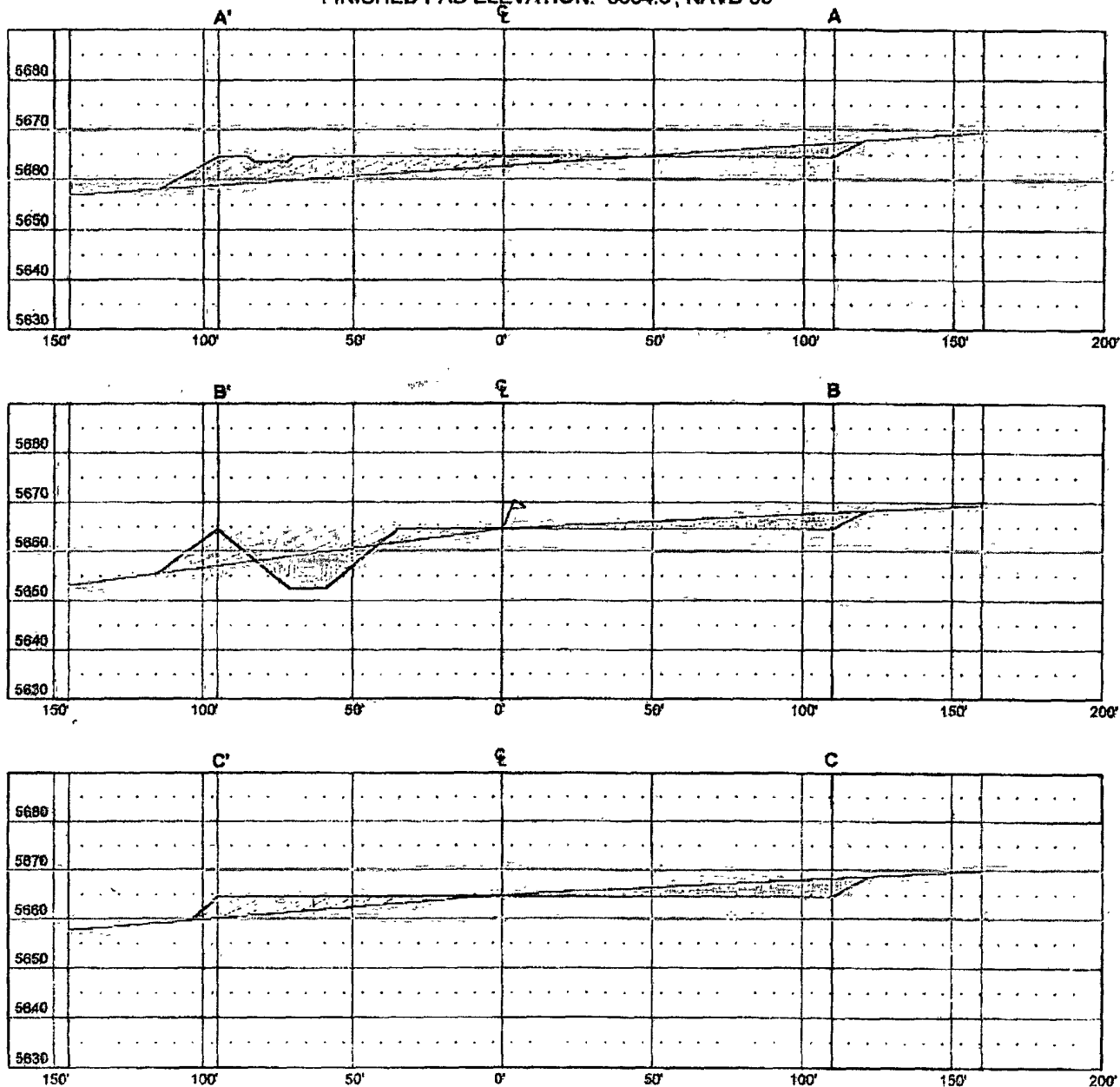
RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).  
RUSSELL SURVEYING, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.  
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR  
CABLES ON WELL PAD, IN CONSTRUCTION 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: 38.73552°N  
LONGITUDE: 107.95515°W  
DATUM: NAD 83

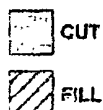
**BURLINGTON RESOURCES O&G CO LP**


LEO MANNING #100  
926' FSL & 963' FEL  
LOCATED IN THE SE/4 SE/4 OF SECTION 11,  
T29N, R11W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO  
GROUND ELEVATION: 5665', NAVD 88  
FINISHED PAD ELEVATION: 5664.5', 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.: COPC122  
DATE: 11/20/07



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