

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED SEP 28 2007 Bureau of Land Management Farmington Field Office	5. Lease Number SF-080511 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe RCVD OCT 16 '07
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 Lively 9. Well Number #21N
4. Location of Well Unit M (SWSW), 690' FSL & 1135' FWL Latitude 36.52418'N Longitude 107.62176'W		10. Field, Pool, Wildcat Blanco Mesaverde / Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) M Sec. 31, T27N, R7W API # 30-039- 30380
14. Distance in Miles from Nearest Town 20.5	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 690'		
16. Acres in Lease 641.60 acres	17. Acres Assigned to Well 320 acres W/2 321.60	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 474' from the Harrington #1 (PC)		
19. Proposed Depth 6690'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 5987' 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	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Patsy Clugston</u> Patsy Clugston, Regulatory Specialist		Date 10/28/07

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE AEM

DATE 10/12/07

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

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

NMOCD

10/26

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DISTRICT J
1825 W. French Dr., Hobbs, N.M. 88240

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

DISTRICT III
1000 Rio Brazos Rd., Abo, 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
SEP 28 2007

Bureau of Land Management
Farmington Field Office

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 10-039-30380		*Pool Code 72319/71599	*Pool Name MESA VERDE/DAKOTA
*Property Code 18182	*Property Name LIVELY		*Well Number 21N
*OCHED No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP		*Elevation 5987'

10 Surface Location

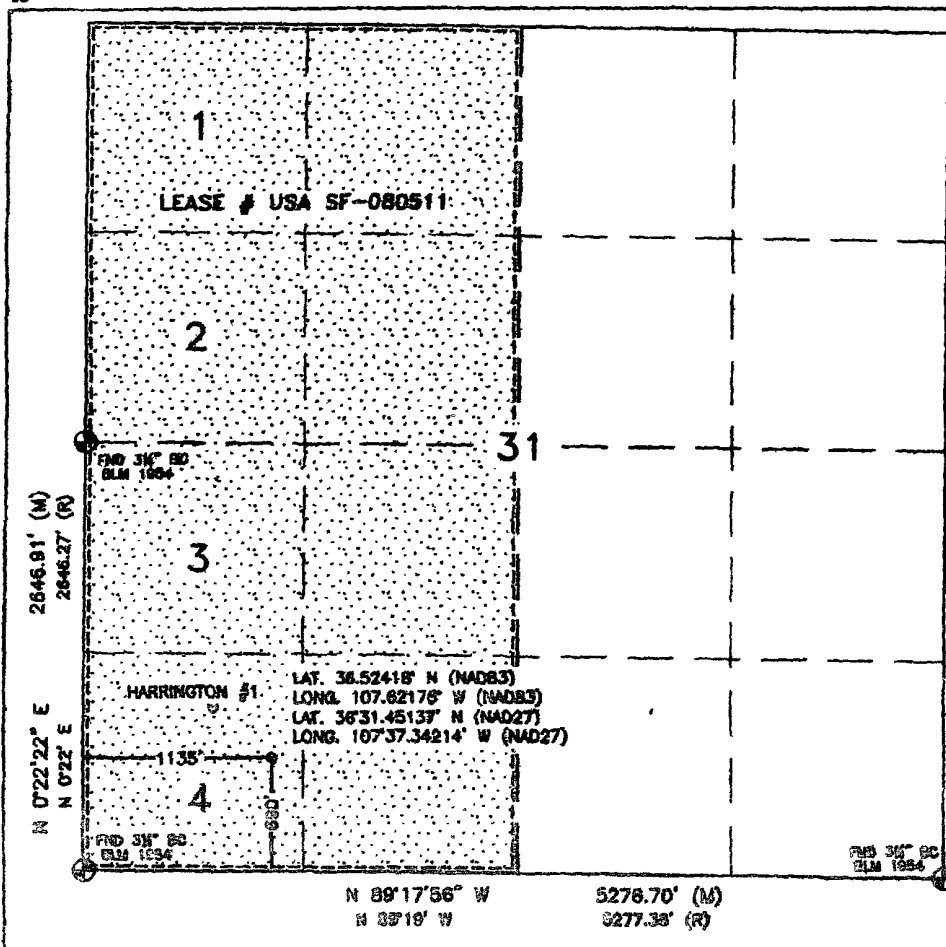
UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
M	31	27N	7W	4	690'	SOUTH	1135'	WEST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
M									
Dedicated Acres 321.60 320.00 Acres - (W/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 correct to the best of my knowledge and belief, and that this information either represents a working interest or a non-working 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 Date

Rhonda Rogers

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.

JULY 19, 2007

Date of Survey

Signature and Seal of Professional Surveyor

David R. Russell



DAVID RUSSELL

Certificate Number

10201

Office

May 27, 2004

District I

Energy, Minerals and Natural Resources

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.

30-039-30380

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal Lease SF-080511

7. Lease Name or Unit Agreement Name

Lively

8. Well Number

#21N

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Dakota / Blanco Mesaverde

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 M : 690' feet from the South line and 1135' feet from the West lineSection 31 Township 27N Rng 7W NMPM County Rio Arriba

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

5987' GL

Pit or Below-grade Tank Application

☐ or ClosurePit type New Drill Depth to Groundwater <50' Distance from nearest fresh water well>1000' Distance from nearest surface water <1000'

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

TEMPORARILY ABANDON

PULL OR ALTER CASING

PLUG AND ABANDON

CHANGE PLANS

MULTIPLE COMPL

OTHER:

New Drill Pit

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, 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 and pre-set mud pit will be lined 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 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 Patsy Clugston TITLE Regulatory Specialist DATE 9/25/2007

Type or print name

Patsy Clugston

E-mail address:

clugsp@conocoPhillips.com

Telephone No.

505-326-9518

For State Use Only

Deputy Oil & Gas Inspector,
District #3APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE OCT 26 2007

Conditions of Approval (if any):

PROJECT PROPOSAL - New Drill / Sidetrack

LIVELY 21N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7245			AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Bearcat Rig 4		State: NM	County: RIO ARRIBA	API #:
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:						
Datum Code: NAD 27		Straight Hole				
Latitude: 36.524171	Longitude: -107.621151	X:	Y:	Section: 31	Range: 007W	
Footage X: 1135 FWL	Footage Y: 690 FSL	Elevation: 5987 (FT)	Township: 027N			
Tolerance:						
Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:
Formation Data: Assume KB = 5999 Units = FT						
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	5799	<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.
OJO ALAMO	1371	4628	<input type="checkbox"/>			
KIRTLAND	1434	4565	<input type="checkbox"/>			
FRUITLAND	1889	4110	<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	2099	3900	<input type="checkbox"/>			
LEWIS	2266	3733	<input type="checkbox"/>			
HUERFANITO BENTONITE	2579	3420	<input type="checkbox"/>			
CHACRA	2999	3000	<input type="checkbox"/>			
MASSIVE CLIFF HOUSE	3729	2270	<input type="checkbox"/>	220		Gas
MENEFFEE	3776	2223	<input type="checkbox"/>			
Intermediate Casing	3926	2073	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 885 cuft. Circulate cement to surface.
MASSIVE POINT LOOKOUT	4394	1605	<input type="checkbox"/>			
MANCOS	4754	1245	<input type="checkbox"/>			
UPPER GALLUP	5526	473	<input type="checkbox"/>			
GREENHORN	6339	-340	<input type="checkbox"/>			
GRANEROS	6399	-400	<input type="checkbox"/>			
TWO WELLS	6454	-455	<input type="checkbox"/>	1700		Gas
UPPER CUBERO	6546	-547	<input type="checkbox"/>			
LOWER CUBERO	6570	-571	<input type="checkbox"/>			
ENCINAL	6633	-634	<input type="checkbox"/>			
TOTAL DEPTH DK	6690	-691	<input type="checkbox"/>			6-1/4" Hole. 4-1/2", 10.6/11.6 ppf, J-55 STC/LTC casing. Cement with 380 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

LIVELY 21N

DEVELOPMENT

Logging Program:			
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. Mudlog from ~100' above the Greenhorn to TD.

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

Comments: Location/Tops/Logging - MVNM027N007W31SW2 DK 027N07W31SW2 Avoid L&K, do not twin, prefer M,N.

Zones - MVNM027N007W31SW2 DK 027N07W31SW2

General/Work Description - 8/2/07 keep Lively wells together for balloting and drilling wfp (10N,21N & 8M)

LATITUDE: 36.52418°N
 LONGITUDE: 107.62176°W
 DATUM: NAD 83

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

BURLINGTON RESOURCES O&G CO LP

LIVELY #21N

690' FSL & 1135' FWL

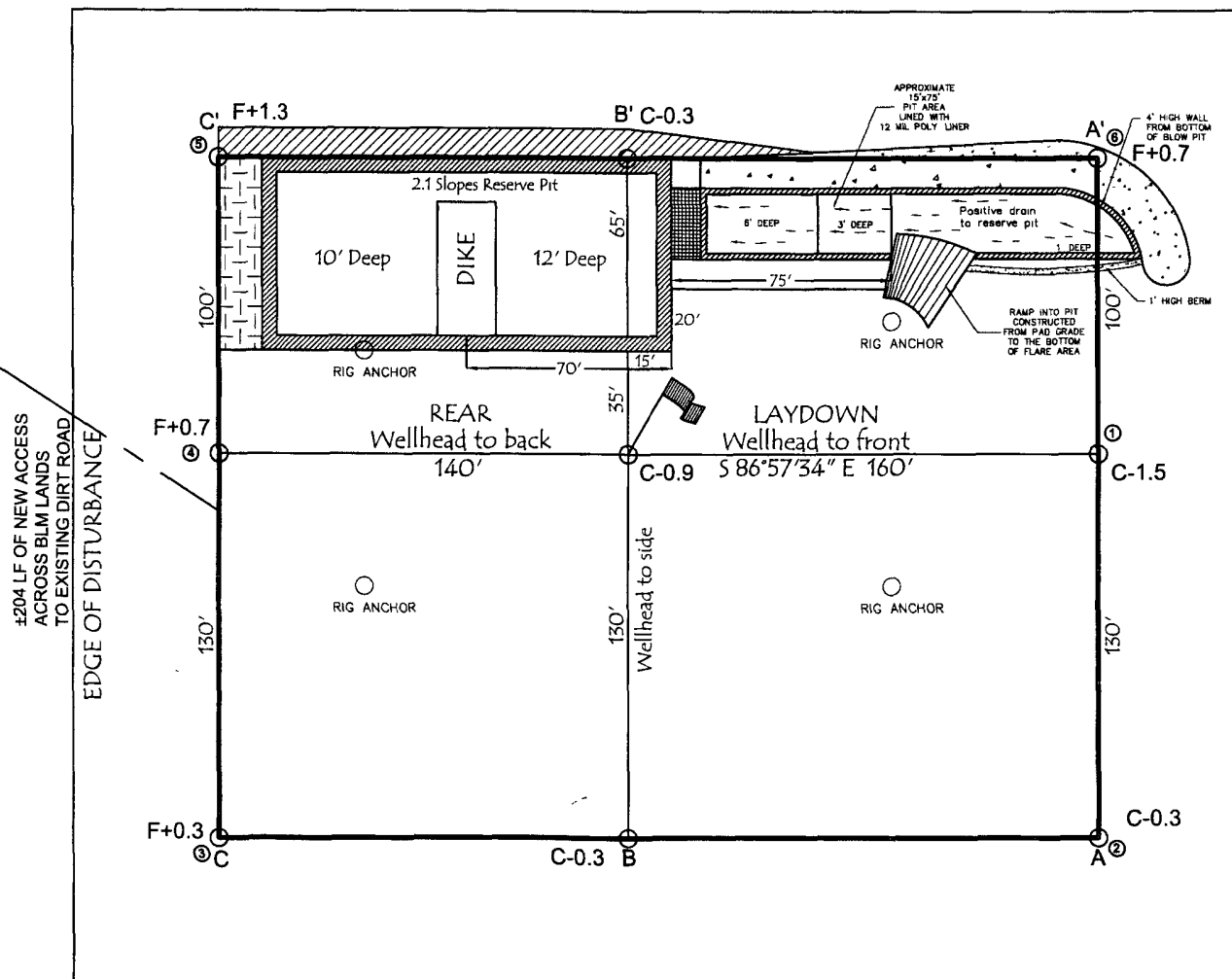
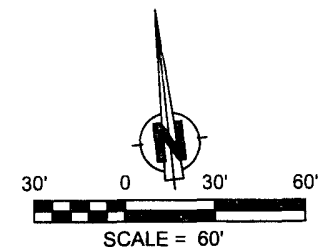
LOCATED IN THE SW/4 SW/4 OF SECTION 31,

T27N, R7W, N.M.P.M.,

RIO ARRIBA, NEW MEXICO

GROUND ELEVATION: 5987', NAVD 88

FINISHED PAD ELEVATION: 5986.5', NAVD 88



330' x 400' = 3.03 ACRES OF DISTURBANCE
 SCALE: 1" = 60'
 JOB No.: COPC090
 DATE: 08/01/07

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.

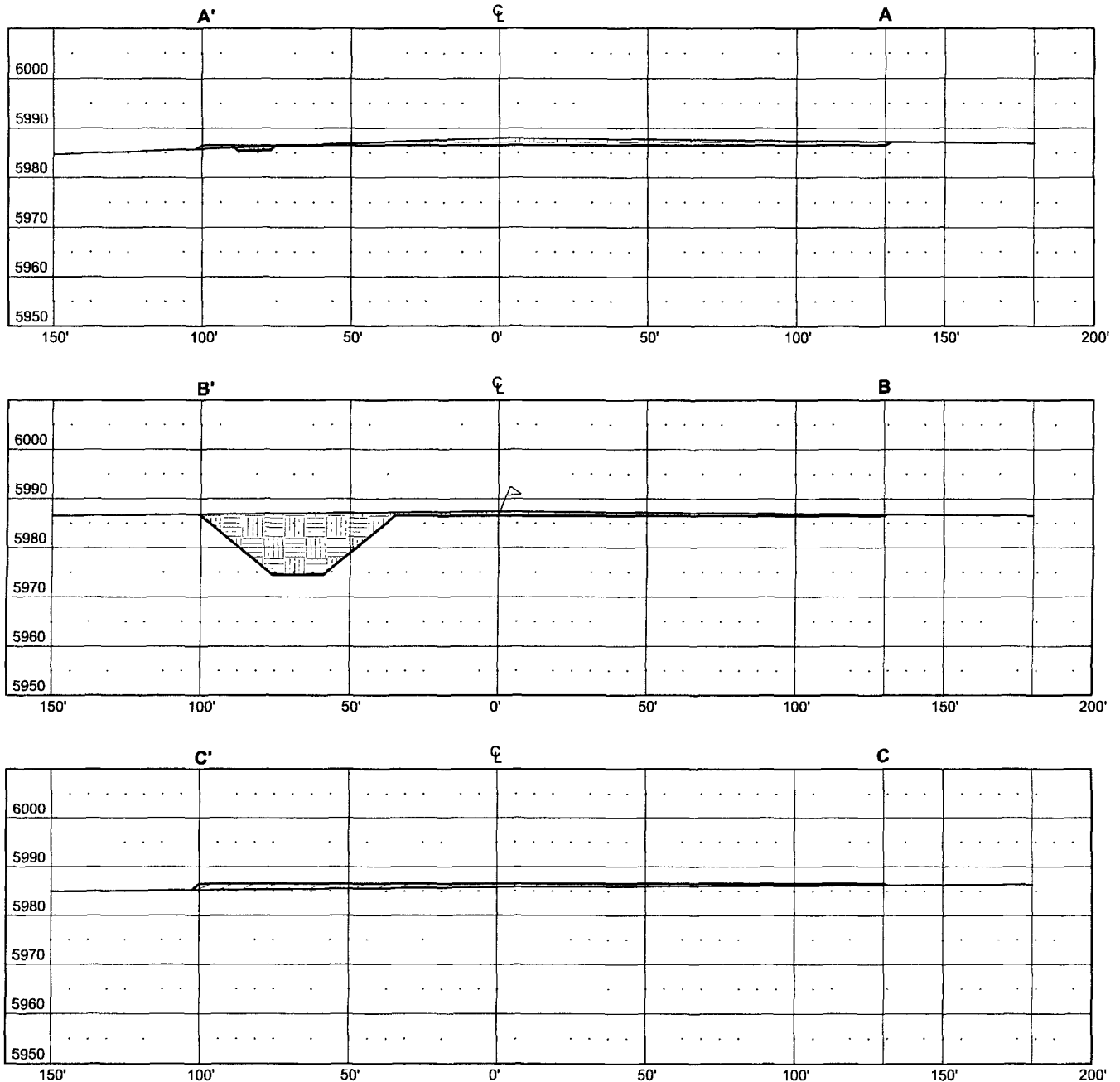


Russell Surveying
 1409 W. Aztec Blvd. #2
 Aztec, New Mexico 87410
 (505) 334-8637

LATITUDE: 36.52418°N
LONGITUDE: 107.62176°W
DATUM: NAD 83

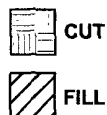
BURLINGTON RESOURCES O&G CO LP

LIVELY #21N
690' FSL & 1135' FWL
LOCATED IN THE SW/4 SW/4 OF SECTION 31,
T27N, R7W, N.M.P.M.,
RIO ARRIBA, NEW MEXICO
GROUND ELEVATION: 5987', NAVD 88
FINISHED PAD ELEVATION: 5986.5', 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.: COPC090
DATE: 08/01/07



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