

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 20 2008

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RCVD JUN 3 '08

1a. Type of Work DRILL	5. Lease Number USA SF-078200-A Unit Reporting Number	OIL CONS. DIV.
1b. Type of Well GAS	6. If Indian, All. or Tribe	DIST. 3
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name MV-NMNM73219 DK-Need CA	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Grambling C 9. Well Number #4B	
4. Location of Well Surf: Unit K (NWSE), 1642' FSL & 2169' FWL Surf: Latitude 36.82382 N Longitude 107.83690 W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) K Sec. 12, T30N, R10W API # 30-045-34722	
14. Distance in Miles from Nearest Town 14 miles/Aztec	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1642'		
16. Acres in Lease 1,070.92	17. Acres Assigned to Well 294.98 Acres - (W/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 983' from Grambling C #4 - MV		
19. Proposed Depth 7619' <small>This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4</small>	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6378' GR	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Sasha Spangler</u> Sasha Spangler (Regulatory Technician)	<u>5-19-08</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 3

Bond Numbers NMB-000015 and NMB-000089



H₂S POTENTIAL EXIST

JUN 16 2008

NMOC

HOLD CASH FOR NSL

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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 **RECEIVED**
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

MAY 20 2008

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

OIL CONSERVATION DIVISION
Bureau of Land Management
1220 South St. Francis Dr.
Santa Fe, NM 87505
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- <u>34722</u>		² Pool Code 71599/72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 7056	⁵ Property Name GRAMBLING C		⁶ Well Number 4 B
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP		⁹ Elevation 6378'

¹⁰ Surface Location

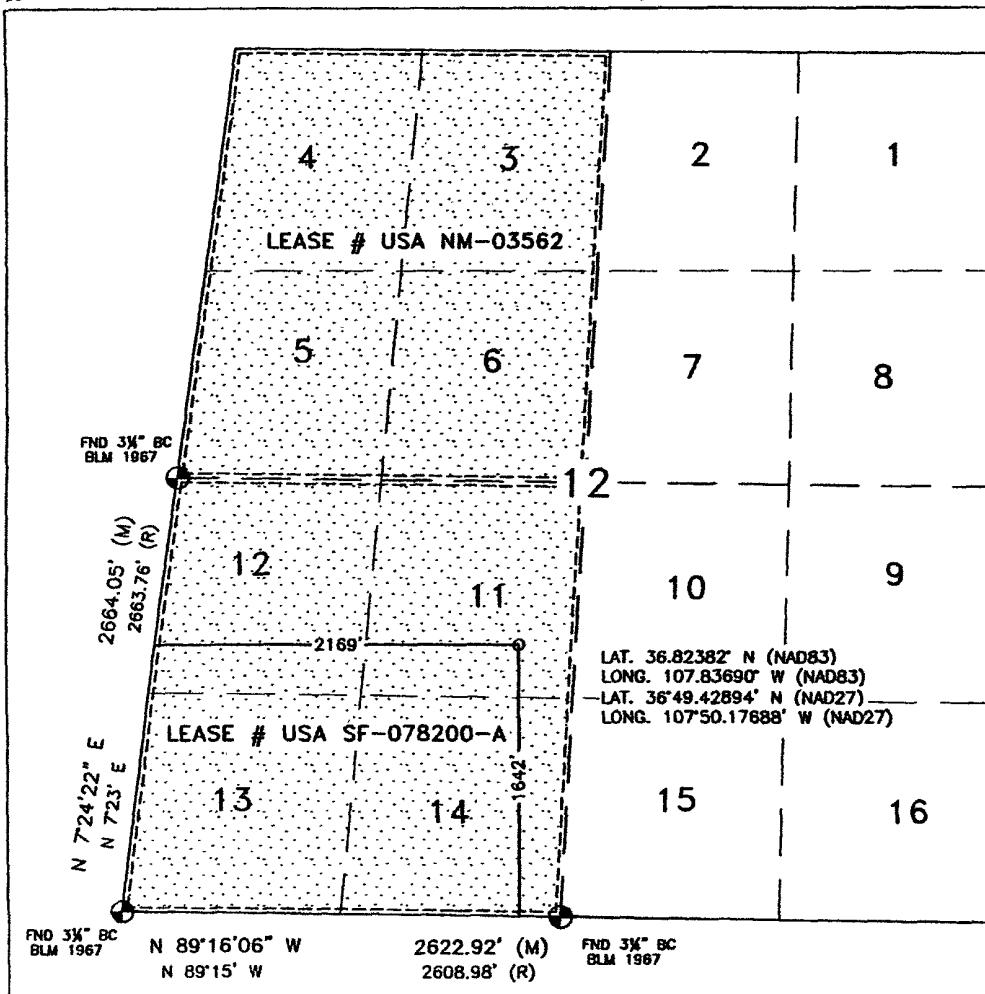
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	12	30N	10W	11	1642'	SOUTH	2169'	WEST	SAN JUAN

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
K									
¹² Dedicated Acres 294.98 Acres - (W/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.

Sasha Spangler 05-19-08
Signature Date

Sasha Spangler
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.

NOVEMBER 12, 2007

Date of Survey

Signature and Seal of Professional Surveyor:

David R. Russell
DAVID R. RUSSELL
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
10201

DAVID RUSSELL
Certificate Number 10201

Office

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

State of New Mexico

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-103

May 27, 2004

WELL API NO.	30-045- 34722
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	USA SF-78200-A
7. Lease Name or Unit Agreement Name	Grambling C
8. Well Number	#4B
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 K : 1642 feet from the South line and 2169 feet from the West line
Section 12 Township 30N Rng 10W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6378' GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type New Drill Depth to Groundwater >100' Distance from nearest fresh water well >1000' Distance from nearest surface water >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 Pit ☒

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, 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 Crystal Walker TITLE Regulatory Technician DATE 2/12/2008

Type or print name Crystal Walker E-mail address: crystal.walker@conocophillips.com Telephone No. 505-326-9837
For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector DATE JUN 16 2008
Conditions of Approval (if any): District #3

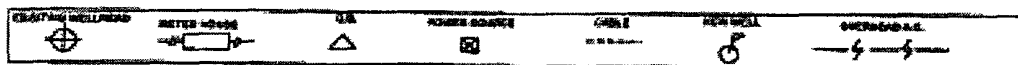
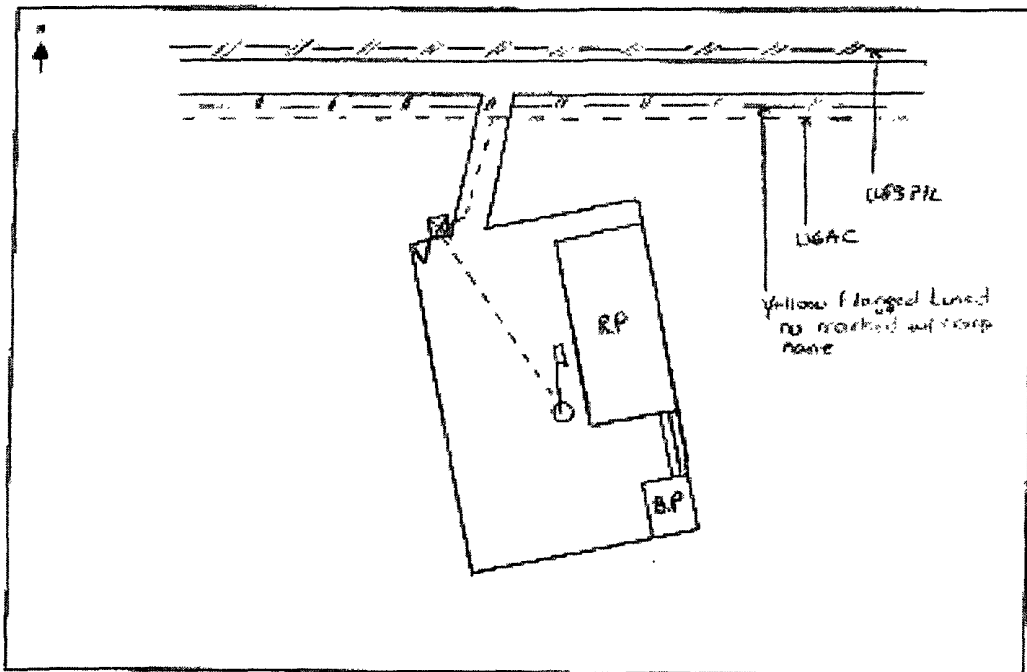


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Granbling C #48 LEGALS K-12-30-10 COUNTY San Juan

PURPOSED C.P. SYSTEM: Drill GP and set anode in Nubler in location. Trench near
Ben of AK from UGAC to well. Trench may not be there from previous well
to receive.



COMMENTS:

NEAREST POWER SOURCE UGAC DISTANCE: FEET
PIPELINES IN AREA: 16" S F

TECHNICIAN: Michael J. [Signature] DATE: 12/19/07

8 CR 6412 BLOOMFIELD, N.M. 87413
OFFICE: 505-634-0271 CELL: 505-793-6963

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

GRAMBLING C 4B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7401		AFE \$:	
Field Name: hBR_SAN JUAN		Rig: H&P Rig 283		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:	
Res. Engineer: McKee, Cory J		Phone: 505-326-9826		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				
Location: Surface					
Datum Code: NAD 27		Straight Hole			
Latitude: 36.823816	Longitude: -107.836281	X:	Y:	Section: 12	Range: 010W
Footage X: 2169 FWL	Footage Y: 1642 FSL	Elevation: 6378	(FT)	Township: 030N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2009		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 6393 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	6193	<input type="checkbox"/>		
OJO ALAMO	1739	4654	<input type="checkbox"/>		
KIRTLAND	1881	4512	<input type="checkbox"/>		
FRUITLAND	2684	3709	<input type="checkbox"/>		Possible Gas
PICTURED CLIFFS	3070	3323	<input type="checkbox"/>		
LEWIS	3274	3119	<input type="checkbox"/>		
Intermediate Casing	3374	3019	<input type="checkbox"/>		
HUERFANITO BENTONITE	3794	2599	<input type="checkbox"/>		
CHACRA	4104	2289	<input type="checkbox"/>		
MASSIVE CLIFF HOUSE	4796	1597	<input type="checkbox"/>	327	Gas
MENEFEE	4881	1512	<input type="checkbox"/>		
MASSIVE POINT LOOKOUT	5309	1084	<input type="checkbox"/>		
MANCOS	5693	700	<input type="checkbox"/>		
UPPER GALLUP	6589	-196	<input type="checkbox"/>		
GREENHORN	7321	-928	<input type="checkbox"/>		
GRANEROS	7376	-983	<input type="checkbox"/>		
TWO WELLS	7424	-1031	<input type="checkbox"/>	2110	Gas
PAGUATE	7525	-1132	<input type="checkbox"/>		
CUBERO	7566	-1173	<input type="checkbox"/>		
Total Depth	7619	-1226	<input type="checkbox"/>		
ENCINAL	7619	-1226	<input type="checkbox"/>		
Reference Wells:					
Reference Type	Well Name	Comments			
Intermediate	Grambling C #4				
Production	Grambling C 3M				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

GRAMBLING C 4B

DEVELOPMENT

Production	Grambling C 3B	
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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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LATITUDE: 36.82382°N
LONGITUDE: 107.83690°W
DATUM: NAD 83

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

BURLINGTON RESOURCES O&G CO LP

GRAMBLING C #4 B

1642' FSL & 2169' FWL

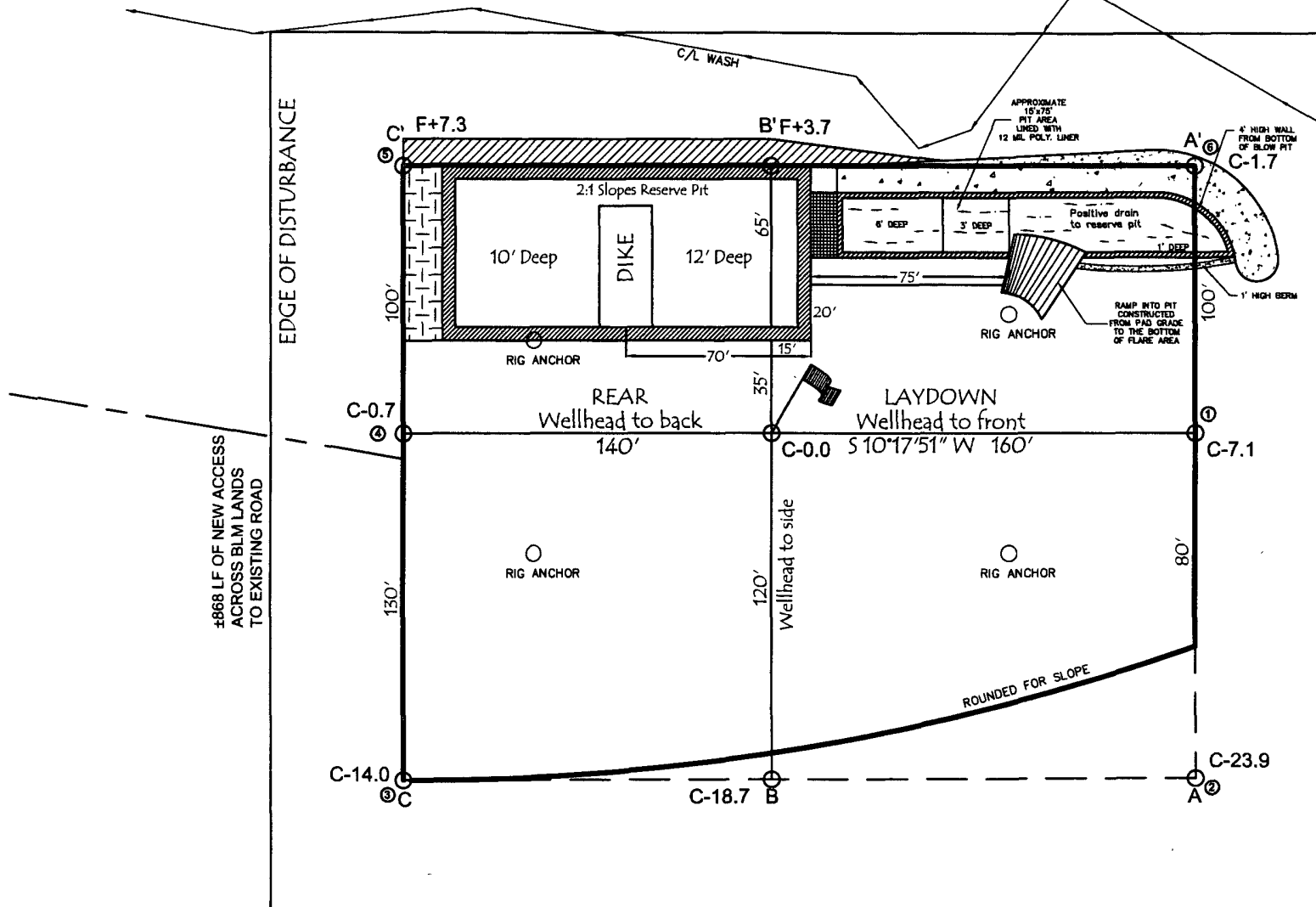
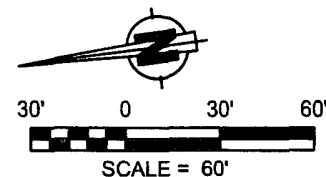
LOCATED IN THE NE/4 SW/4 OF SECTION 12,

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

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6378', NAVD 88

FINISHED PAD ELEVATION: 6377.5', NAVD 88



330' x 400' = 3.03 ACRES OF DISTURBANCE
SCALE: 1" = 60'
JOB No.: COPC128
DATE: 11/27/07

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.

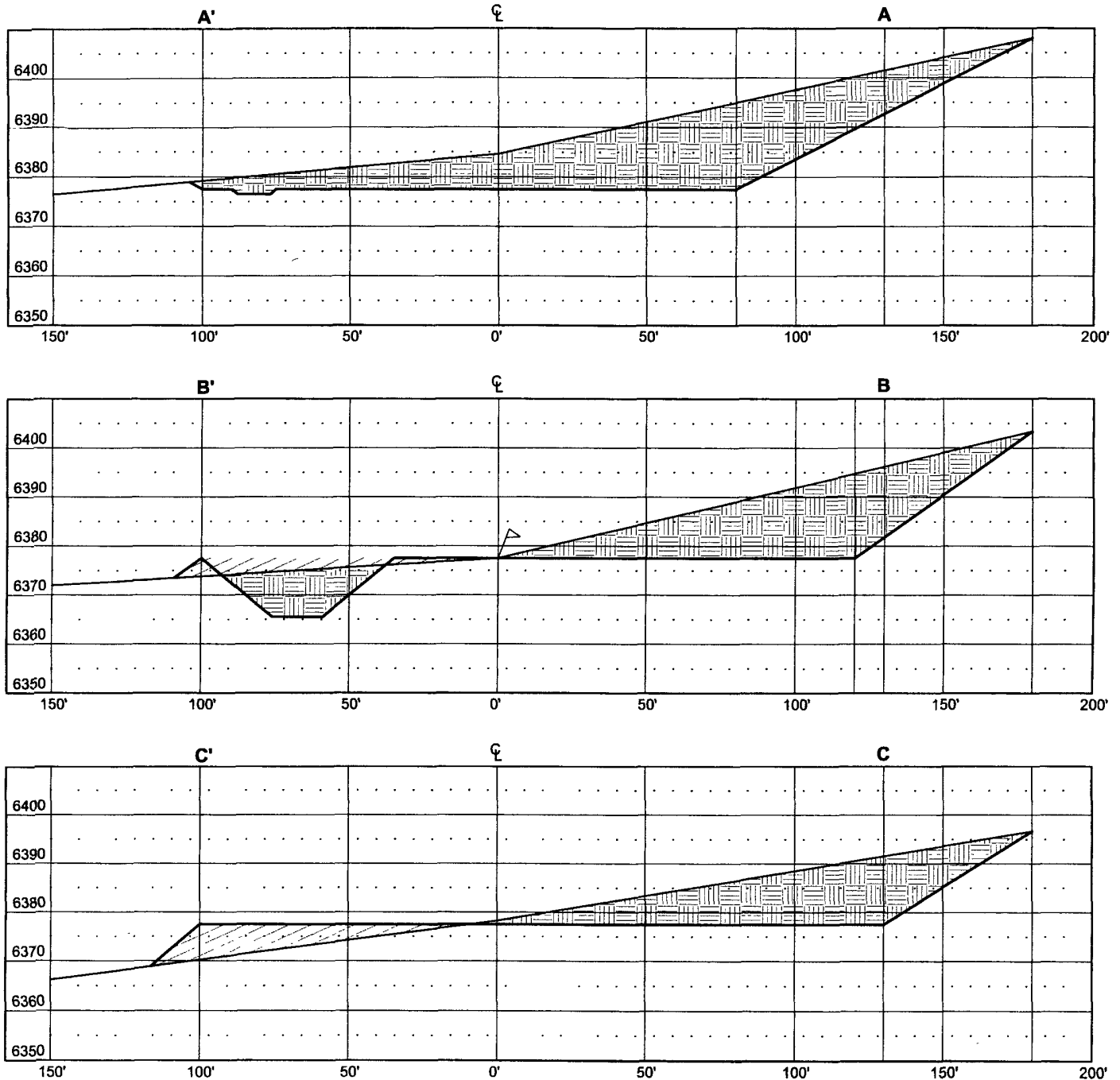


Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637

LATITUDE: 36.82382°N
LONGITUDE: 107.83690°W
DATUM: NAD 83

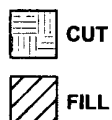
BURLINGTON RESOURCES O&G CO LP

GRAMBLING C #4 B
1642' FSL & 2169' FWL
LOCATED IN THE NE/4 SW/4 OF SECTION 12,
T30N, R10W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6378', NAVD 88
FINISHED PAD ELEVATION: 6377.5', 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.: COP128
DATE: 11/27/07



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