

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED

SEP 07 2007

1a. Type of Work DRILL	5. Lease Number USA SF-079265 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	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Klein 9. Well Number #19N	
4. Location of Well Surf: Unit C(NENW), 1150' FNL & 1840' FWL BH: Unit D(NWNW), 1200' FNL & 710' FWL Surf: Latitude 36° 26.82785 N Longitude 107° 27.50242 W BH: Latitude 36° 26.81704 N Longitude 107° 27.73283 W	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) C Sec. 34, T26N, R6W API # 30-039- 30350	
14. Distance in Miles from Nearest Town 32 mile/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	17. Acres Assigned to Well MV/DK 320 (N/2)	
16. Acres in Lease 2242.480		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 100' from Klein 19M		
19. Proposed Depth 7146' TVD/7355' TMD	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6393' GL	22. Approx. Date Work will Start RCVD SEP 25 '07 OIL CONS. DIV. DIST. 3	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <i>Rhonda Rogers</i> Rhonda Rogers (Regulatory Technician)	9-7-07 Date	

PERMIT NO. *2007-000015* APPROVAL DATE *9/29/07*
APPROVED BY *[Signature]* TITLE *AFM* DATE *9/29/07*

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 4

Bond Numbers NMB-000015 and NMB-000089

NOTIFY AZTEC OCD 24 HRS.

PRIOR TO CASING & CEMENT

NMOC

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

OCT 01 2007-aw

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

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
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

RECEIVED

OIL CONSERVATION DIVISION P 07 2007

1220 South St. Francis Dr.

Santa Fe, NM 87505

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 30-039-30350		Pool Code 71599/72319		Pool Name BASIN DAKOTA/BLANCO MESAVERDE	
Property Code 7228		Property Name KLEIN			Well Number 19N
GRID No. 14538		Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP			Elevation 6393'

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
C	34	26N	6W		1150'	NORTH	1840'	WEST	RIO ARRIBA

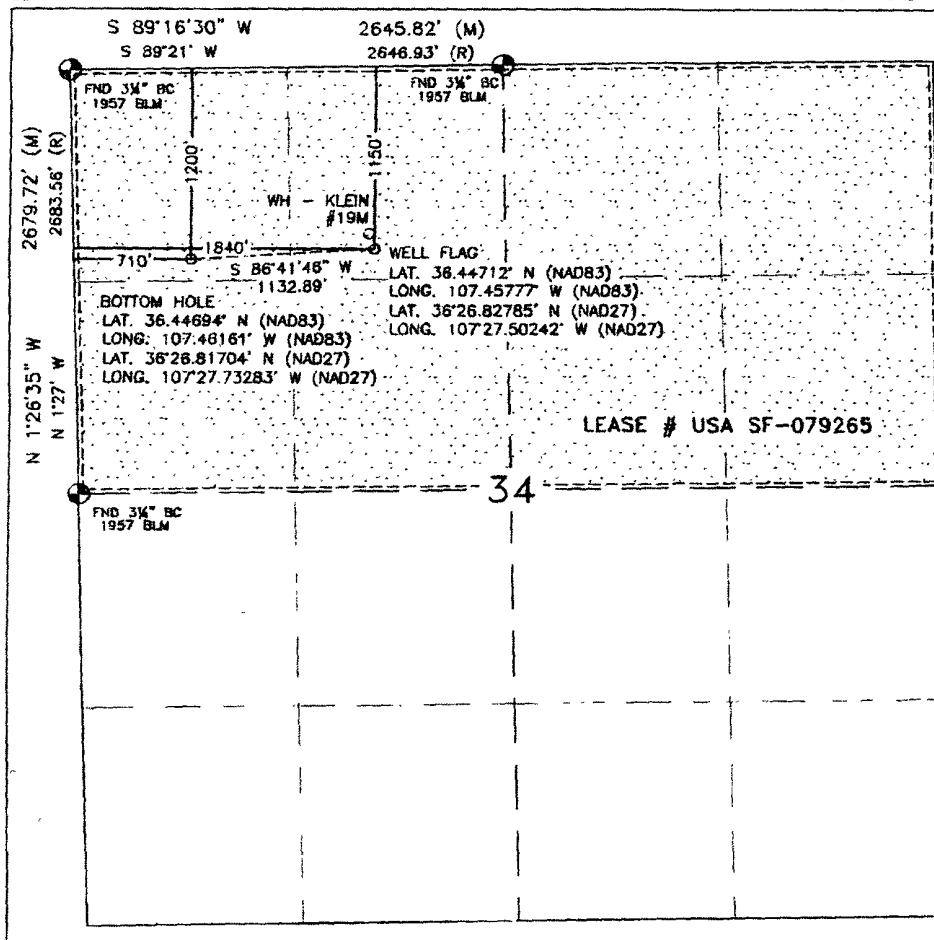
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
D	34	26N	6W		1200'	NORTH	710'	WEST	RIO ARRIBA

Dedicated Acres 320.00 Acres - (N/2)		Joint or Infill		Consolidation Code		Order No.			
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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.

Patsy Clugston 7/25/07
Signature Date

Patsy Clugston

Printed Name

18 SURVEYOR CERTIFICATION

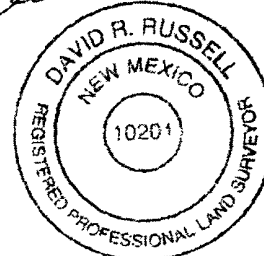
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 25, 2007

Date of Survey

Signature and Seal of Professional Surveyor:

David R. 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.

30-039-30350

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

Federal Lease #USA SF-079265

7. Lease Name or Unit Agreement Name

Klein

8. Well Number

#19N

9. OGRID Number

14538

10. Pool name or Wildcat

Blanco MV/Basin DK

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 C : 1150' feet from the North line and 1840' feet from the West line
 Section 34 Township 26N Rng 6W NMPM County Rio Arriba

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

6393'

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

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, 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

TITLE

Regulatory Technician

DATE

8-30-07

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 01 2007

Conditions of Approval (if any):

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

KLEIN 19N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7221				AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 777		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: Surface		Datum Code: NAD 27				Deviated	
Latitude: 36.447109	Longitude: -107.457166	X:	Y:	Section: 34		Range: 006W	
Footage X: 1840 FWL		Footage Y: 1150 FNL		Elevation: 6393 (FT)	Township: 026N		
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Deviated	
Latitude: 36.446929	Longitude: -107.461006	X:	Y:	Section: 34		Range: 006W	
Footage X: 710 FWL		Footage Y: 1200 FNL		Elevation: (FT)	Township: 026N		
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6405 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	320	6085	☐			320' 8 5/8" 24 ppf, J-55, STC casing. Cement with 411 cuft. Circulate cement to surface.	
OJO ALAMO	1880	4525	☐				
KIRTLAND	2095	4310	☐				
FRUITLAND	2380	4025	☐			Possible Gas	
PICTURED CLIFFS	2572	3833	☐				
LEWIS	2685	3720	☐				
HUERFANITO BENTONITE	2986	3419	☐				
CHACRA	3437	2968	☐				
MASSIVE CLIFF HOUSE	4228	2177	☐	700			
MENEFEE	4251	2154	☐				
MASSIVE POINT LOOKOUT	4829	1576	☐			GAS	
MANCOS	5163	1242	☐				
UPPER GALLUP	5862	543	☐				
GREENHORN	6734	-329	☐				
GRANEROS	6790	-385	☐				
TWO WELLS	6844	-439	☐	1850		Gas	
UPPER CUBERO	6928	-523	☐				
LOWER CUBERO	6959	-554	☐				
OAK CANYON	6986	-581	☐				
ENCINAL	7033	-628	☐				
TOTAL DEPTH DK	7146	-741	☐			TD 40' below T/MRSN. 6-1/4" Hole. 4-1/2", 11.6 ppf, N-80 LTC casing. Cement with 2514 cuft	
Reference Wells:							

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

KLEIN 19N

DEVELOPMENT

Reference Type	Well Name	Comments
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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. Est bottom perf is ~20' above TD. If mud-drilled, add 40' to TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - MVNM026N006W34NW2 DK 26N06W34NW2 Avoid C, prefer E&D, topo will be an issue, not twins.

Zones - MVNM026N006W34NW2 DK 26N06W34NW2

ConocoPhillips or its affiliates

Survey Report

Company:	ConocoPhillips Lower 48	Local Co-ordinate Reference:	Well Klein #19N
Project:	San Juan Basin	TVD Reference:	WELL @ 6408.0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	MD Reference:	WELL @ 6408.0ft (Original Well Elev)
Well:	Klein #19N	North Reference:	True
Wellbore:	Klein #19N	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM Central Planning

Targets

Target Name

hit/miss target Shape	Dip Angle (d)	Dip Dir (d)	TVD (ft)	+N-S ft	+E-W ft	Northing (m)	Easting (m)	Latitude	Longitude
Klein #19N - PCP - plan hits target - Point	0 00	0 00	7,146 0	-50 0	-1,130 0	-10.30	-344 68	30° 59' 24 017" N	109° 25' 57 075" W

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)
1,880.0	1,880 0	Ojo Alamo		0.00	
2,095.0	2,095 0	Kirtland		0.00	
2,380.0	2,380.0	Fruitland		0.00	
2,572.0	2,572 0	Pictured Cliffs		0.00	
2,685.0	2,685.0	Lewis		0.00	
2,986.0	2,986 0	Huerf. Bentonite		0.00	
3,437.0	3,437 0	Chacra		0.00	
4,235.0	4,228 0	Cliffhouse		0.00	
4,258.9	4,251 0	Menefee		0.00	
4,882.3	4,829.0	Pt. Lookout		0.00	
5,245.1	5,163 0	Mancos Shale		0.00	
6,004.2	5,862.0	Gallup		0.00	
6,939.6	6,734.0	Greenhorn		0.00	
6,996.8	6,790.0	Graneros		0.00	
7,051.6	6,844.0	Two Wells		0.00	
7,136.4	6,928.0	Upper Cubero		0.00	
7,167.6	6,959 0	Lower Cubero		0.00	
7,194.7	6,986.0	Oak Canyon		0.00	
7,241.8	7,033.0	Encinal		0.00	
7,354.9	7,146.0	TD		0.00	

Checked By: _____	Approved By: _____	Date: _____
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SLOPES TO BE CONSTRUCTED TO MATCH THE ORIGINAL CONTOURS AS CLOSE AS POSSIBLE.

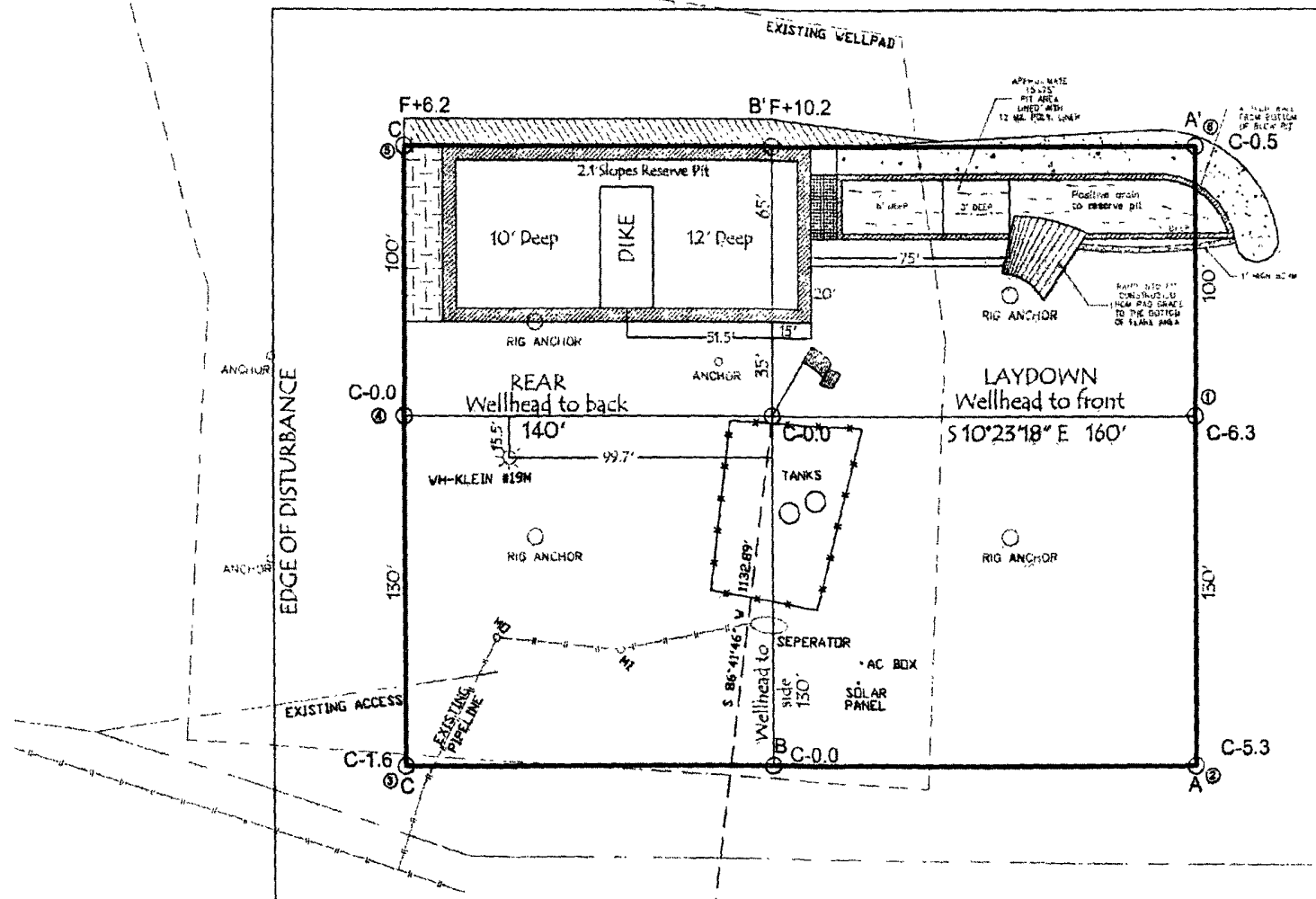
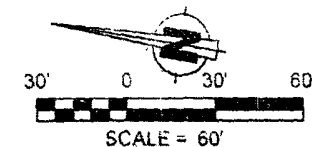
KLEIN #19N

LOCATED IN THE NE/4 NW/4 OF SECTION 34,

RIO ARRIBA, NEW MEXICO

GROUND ELEVATION: 6393', NAVD 88

FINISHED PAD ELEVATION: 6393.3', 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.

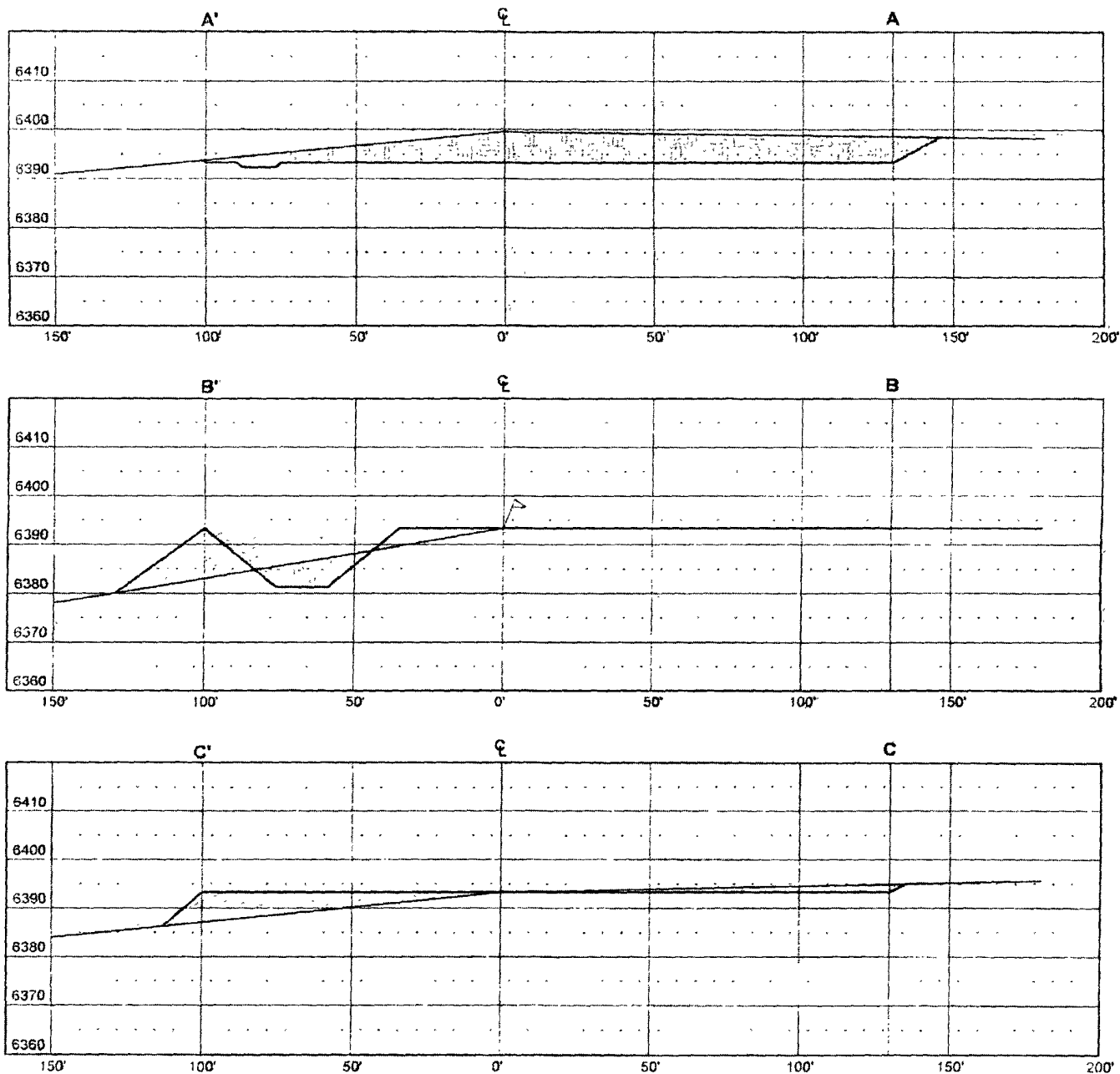
Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637



LATITUDE: 36.44712°N
LONGITUDE: 107 45777°W
DATUM: NAD 83

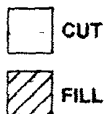
BURLINGTON RESOURCES O&G CO LP

KLEIN #19N
1150' FNL & 1840' FWL
LOCATED IN THE NE/4 NW/4 OF SECTION 34.
T26N, R6W, N.M.P.M.,
RIO ARRIBA, NEW MEXICO
GROUND ELEVATION: 6393', NAVD 88
FINISHED PAD ELEVATION: 6393.3', 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.: COPC077
DATE: 07/05/07



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