

RCVD FEB 27 '08

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED

DEC 05 2007

1a. Type of Work DRILL	5. Lease Number USA SF-080668 Unit Reporting Number
1b. Type of Well GAS Bureau of Land Management Farmington Field Office	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 27-4 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name
4. Location of Well Unit B (NWNE), 110' FNL & 1700' FEL Unit A (NENE), 822' FNL & 710' FEL 800 Latitude 36.59462 N. Longitude 107.25281 W.	9. Well Number #139N 10. Field, Pool, Wildcat Basin Dakota/Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) B Sec. 09, T27N, R4W A Sec. 09, T27N, R4W API # 30-045- 039-30438
14. Distance in Miles from Nearest Town 56.2 Miles/Blanco	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 800'	
16. Acres in Lease 2557.800	17. Acres Assigned to Well MV/DK 320.00 (E/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 550' Twin 146B	
19. Proposed Depth 8489'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 7167' GL	22. Approx. Date Work will Start 12/5/07
23. Proposed Casing and Cementing Program See Operations Plan attached	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
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	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

HOLD ON FOR

NMOCD

FEB 27 2008

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO DRILLING & CEMENT

AV

DISTRICT I
1825 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

RECEIVED

DEC 05 2007

Form C-102
Revised October 12, 2005

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30438		² Pool Code 72319/71599		³ Pool Name Blanco MESA VERDE/ Basin Dakota	
⁴ Property Code 7452		⁵ Property Name SAN JUAN 27-4 UNIT			⁶ Well Number 139 N
⁷ OGRID No. 14538		⁸ Operator Name BURLINGTON RESOURCES O&G CO LP			⁹ Elevation 7167'

¹⁰ Surface Location

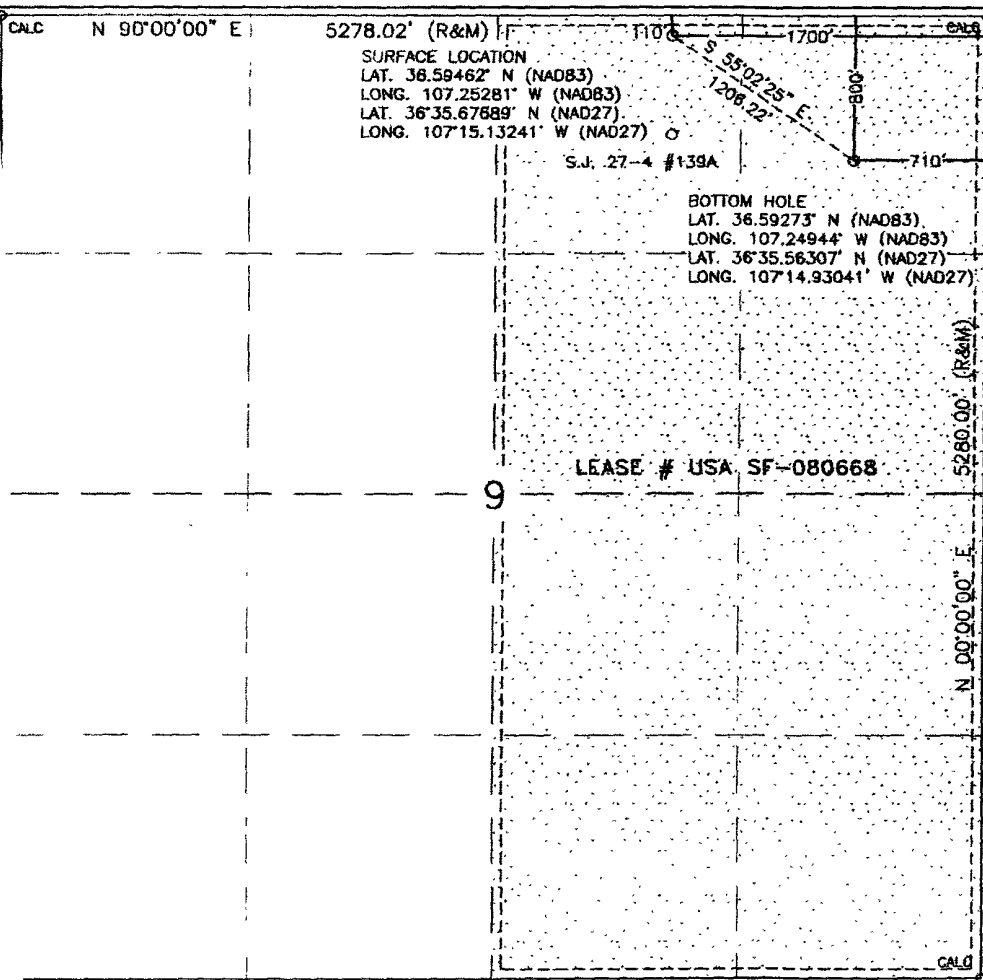
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	9	27N	4W		110'	NORTH	1700'	EAST	RIO ARRIBA

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
A	9	27N	4W		800'	NORTH	710'	EAST	RIO ARRIBA

¹² Dedicated Acres 320.00 Acres - (E/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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



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 6/28/07
Signature Date

Kandis Roland
Printed Name

18 SURVEYOR CERTIFICATION

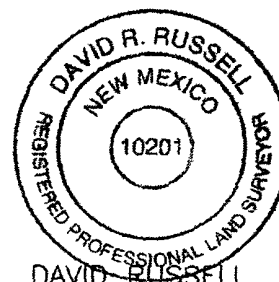
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

APRIL 3, 2006

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.

30-039-30438

5. Indicate Type of Lease

STATE ☐FEE ☐☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

SAN JUAN 27-4 UNIT

8. Well Number

#139N

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 B : 110' feet from the North line and 1700' feet from the East line
 Section 9 Township 27N Range 4W NMPM County Rio Arriba

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

7167'

Pit or Below-grade Tank Application

☒ or Closure ☐Pit type Drilling

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 ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐P AND A ☐CASING/CEMENT JOB ☐

OTHER:

New Drill ☒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 Sasha Spangler TITLE Regulatory Technician DATE 11/28/2007

Type or print name

Sasha Spangler

E-mail address:

Telephone No.

505-326-9568

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

FEB 27 2008

Conditions of Approval (if any):

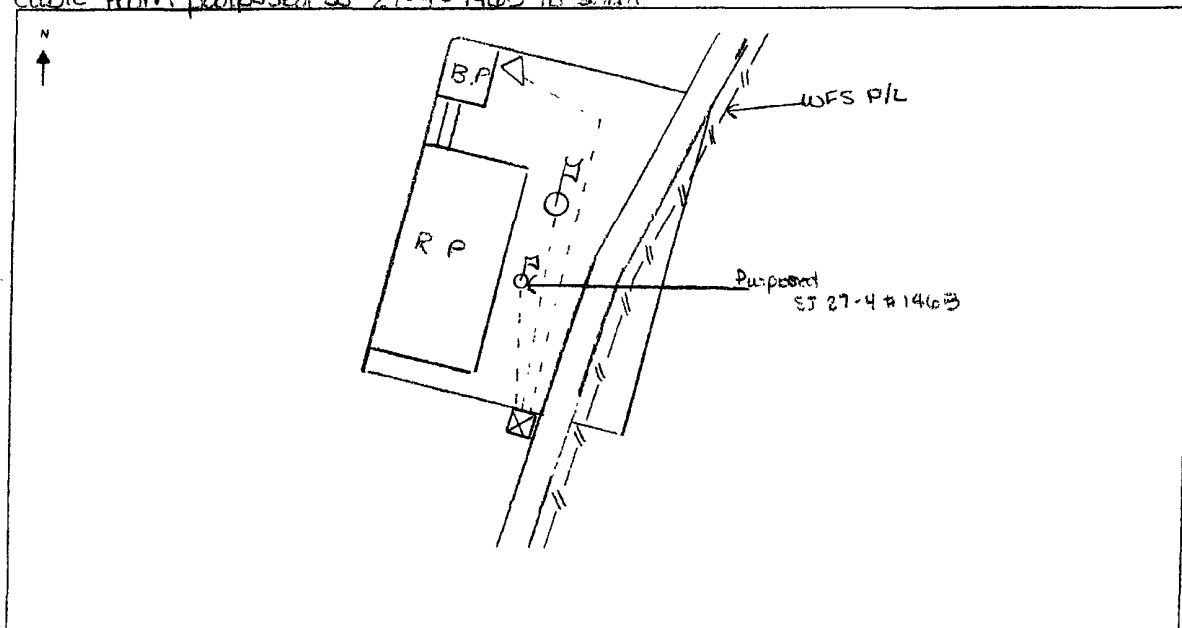


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 27-4 #139N LEGALS B-9-27-4 COUNTY Rio Arriba

PURPOSED C.P. SYSTEM: Drill GB on NW corner of location. Set two well solar on SE edge (W side of access). Trench approx 450' of positive cable from GB to solar. Trench approx 260' of #8 neg from proposed SJ 27-4 #139N to solar. Trench approx 160' of #8 neg cable from proposed SJ 27-4 #146B to solar.



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

COMMENTS: Drill GB and set two well solar on well drilled first.

NEAREST POWER SOURCE N/A DISTANCE: _____

PIPELINES IN AREA: WFS P/L

TECHNICIAN: Michael J. Gonzalez DATE: 7/18/07

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

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 139N

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7193/7194MV		AFE \$:	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
R20076	DAKOTA(R20076)				
R20002	MESAVERDE(R20002)				
Location: Surface					
Datum Code: NAD 27		Deviated			
Latitude: 36.594611	Longitude: -107.252211	X:	Y:	Section: 09	Range: 004W
Footage X: 1700 FEL	Footage Y: 110 FNL	Elevation: 7167	(FT)	Township: 027N	
Tolerance:					
Location: Bottom Hole					
Datum Code: NAD 27		Deviated			
Latitude: 36.592721	Longitude: -107.248841	X:	Y:	Section: 09	Range: 004W
Footage X: 710 FEL	Footage Y: 800 FNL	Elevation:	(FT)	Township: 027N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:	
Formation Data: Assume KB = 7183		Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	6983	☐		
OJAM	3445	3738	☐		
KRLD	3631	3552	☐		
FRLD	3737	3446	☐		Possible Gas
PCCF	4057	3126	☐		
LEWS	4147	3036	☐		
Intermediate Casing	4247	2936	☐		
CHRA	5020	2163	☐		
UCLFH	5637	1546	☐		Gas
MASSIVE CLIFF HOUSE	5819	1364	☐	321	Gas
MENF	5907	1276	☐		
PTLK	6192	991	☐		
MNCS	6759	424	☐		
GLLP	7380	-197	☐		
GRHN	8157	-974	☐		
GRRS	8228	-1045	☐		
TWLS	8277	-1094	☐	1600	Gas
CBRO	8369	-1186	☐		
CBRL	8416	-1233	☐		
OAK CANYON	8469	-1286	☐		
TOTAL DEPTH DK	8489	-1306	☐		

12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 203 cuft. Circulate cement to surface.

Possible Gas

8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 993 cuft. Circulate cement to surface.

Gas

Gas

Gas

TD T/ENCN

6-1/4" Hole. 4-1/2", 10 6/11.6 ppf, J-55 STC/LTC casing. Cement with 577 cuft. Circulate cement a minimum of 100' inside the previous casing string.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 139N

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments
Production	27-4 #139A	NE 9-27N-4W

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
GR_CBL, MUDLOG 100' above GRHN to TD							

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

Comments: Location/Tops/Logging - MVNM027N004W09NE2, MUDLOG 100' above GRHN to TD

Zones - MVNM027N004W09NE2 DKNM027N004W09NE2

General/Work Description - Directional Drill - Forest Well

ConocoPhillips or its affiliates

Survey Report

Company:	ConocoPhillips Lower 48	Local Co-ordinate Reference:	Well SJ 27-4 #139N
Project:	San Juan Basin	TVD Reference:	WELL @ 7182.0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	MD Reference:	WELL @ 7182.0ft (Original Well Elev)
Well:	SJ 27-4 #139N	North Reference:	True
Wellbore:	SJ 27-4 #139N	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM Central Planning

Planned Survey									
Measured Depth (ft)	Inclination (d)	Azimuth (d)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (d/100ft)	Build Rate (d/100ft)	Turn Rate (d/100ft)
8,573.8	0.00	0.00	8,369.0	-690.0	990.0	1,206.7	0.00	0.00	0.00
Upper Cubero									
8,600.0	0.00	0.00	8,395.2	-690.0	990.0	1,206.7	0.00	0.00	0.00
8,620.8	0.00	0.00	8,416.0	-690.0	990.0	1,206.7	0.00	0.00	0.00
Lower Cubero									
8,673.8	0.00	0.00	8,469.0	-690.0	990.0	1,206.7	0.00	0.00	0.00
Oak Canyon									
8,693.8	0.00	0.00	8,489.0	-690.0	990.0	1,206.7	0.00	0.00	0.00
TD - SJ 27-4 #139N - PCP									

Targets									
Target Name	hit/miss target	Dip Angle (d)	Dip Dir. (d)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude
SJ 27-4 #139N - PCP	- plan hits target	0.00	0.00	8,489.0	-690.0	990.0	-214.66	298.77	30° 59' 17.683" N
	- Point								109° 25' 32.721" W
SJ 27-4 #139N - ICP	- plan hits target	0.00	0.00	4,247.0	-690.0	990.0	-214.66	298.77	30° 59' 17.683" N
	- Point								109° 25' 32.721" W

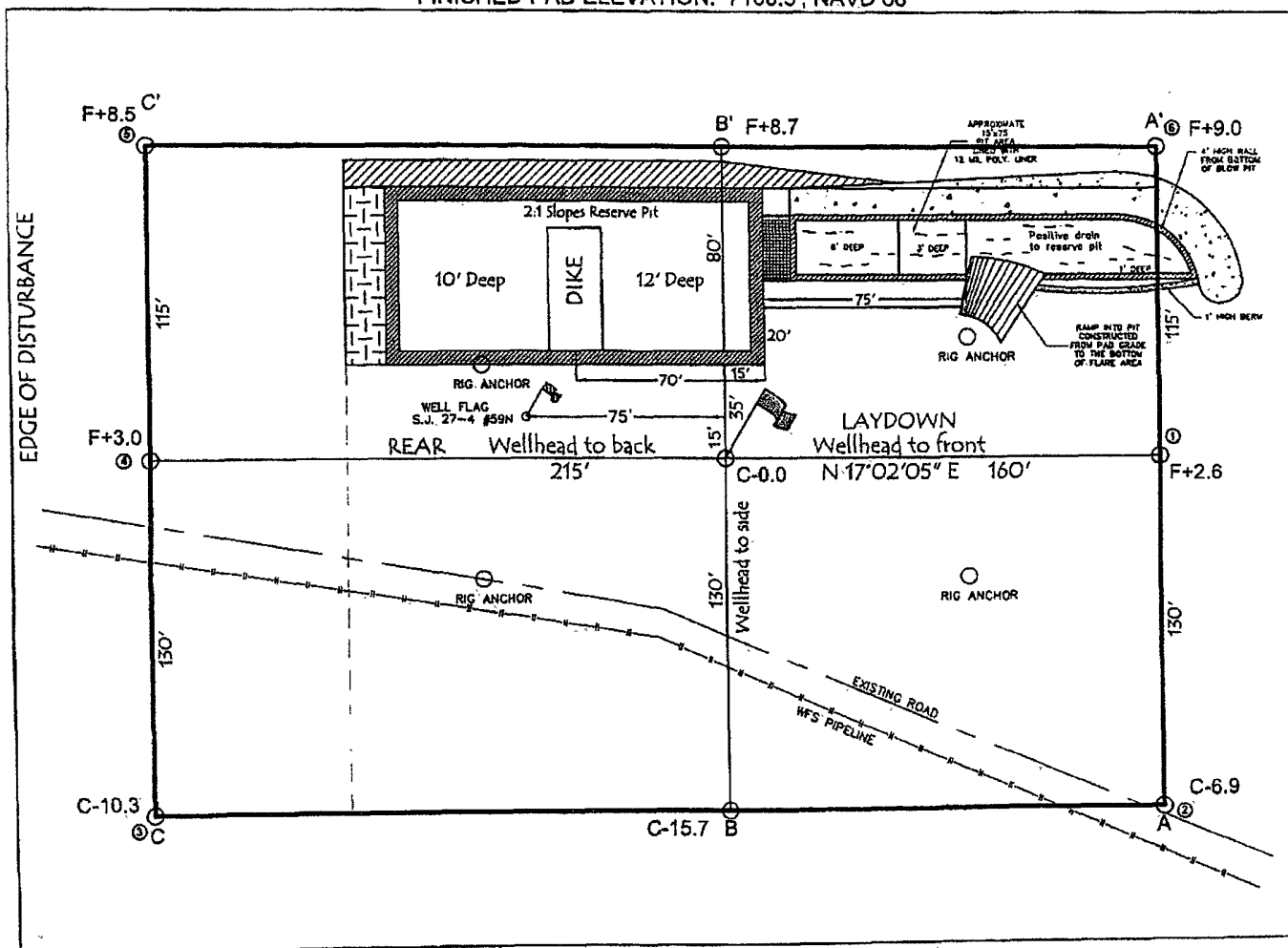
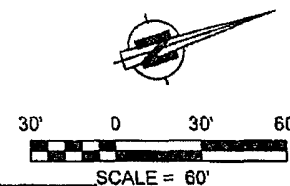
Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
3,626.2	3,445.0	Ojo Alamo		0.00		
3,824.6	3,631.0	Kirtland		0.00		
3,935.5	3,737.0	Fruitland		0.00		
4,261.5	4,057.0	Pictured Cliffs		0.00		
4,351.8	4,147.0	Lewis		0.00		
5,224.8	5,020.0	Chacra		0.00		
5,841.8	5,637.0	Cliffhouse		0.00		
6,023.8	5,819.0	Mass. Cliffhouse		0.00		
6,111.8	5,907.0	Menefee		0.00		
6,396.8	6,192.0	Pt. Lookout		0.00		
6,963.8	6,759.0	Mancos Shale		0.00		
7,584.8	7,380.0	Gallup		0.00		
8,361.8	8,157.0	Greenhorn		0.00		
8,432.8	8,228.0	Graneros		0.00		
8,481.8	8,277.0	Two Wells		0.00		
8,573.8	8,369.0	Upper Cubero		0.00		
8,620.8	8,416.0	Lower Cubero		0.00		
8,673.8	8,469.0	Oak Canyon		0.00		
8,693.8	8,489.0	TD		0.00		

Checked By: _____	Approved By: _____	Date: _____
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LATITUDE: 36.59462°N
 LONGITUDE: 107.25281°W
 DATUM: NAD 83

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

BURLINGTON RESOURCES O&G CO LP
 SAN JUAN 27-4 UNIT #139N
 110' FNL & 1700' FEL
 LOCATED IN THE NW/4 NE/4 OF SECTION 9,
 T27N, R4W, N.M.P.M.,
 RIO ARRIBA COUNTY, NEW MEXICO
 GROUND ELEVATION: 7167', NAVD 88
 FINISHED PAD ELEVATION: 7166.5', NAVD 88



345' x 475' = 3.76 ACRES OF DISTURBANCE
 SCALE: 1" = 60'
 JOB No.: COPC058
 DATE: 06/15/07; REV1

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.

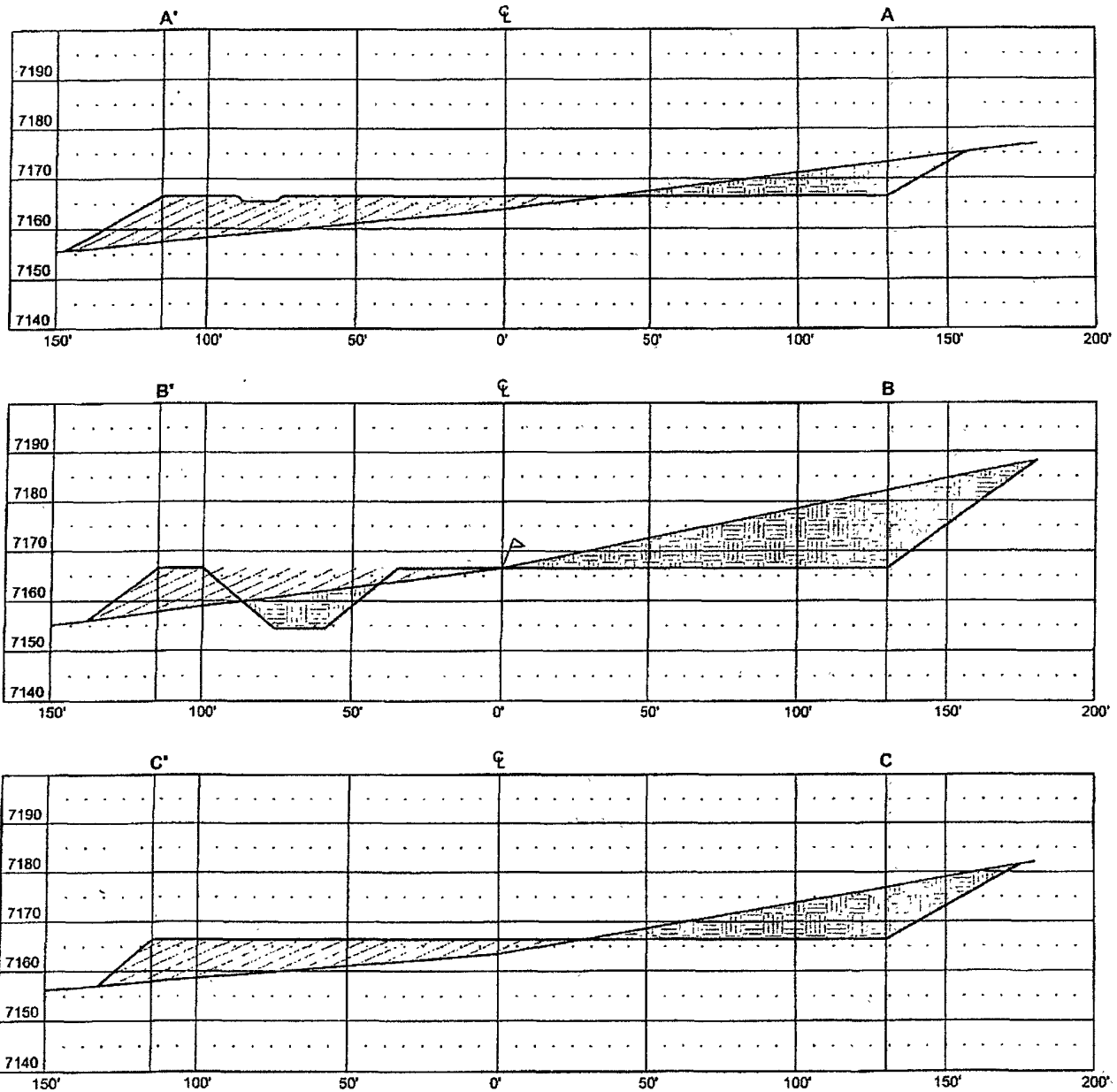


Russell Surveying
 1409 W. Aztec Blvd. #5
 Aztec, New Mexico 87410
 (505) 334-8637

LATITUDE: 36.59462°N
LONGITUDE: 107.25281°W
DATUM: NAD 83

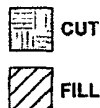
BURLINGTON RESOURCES O&G CO LP

SAN JUAN 27-4 UNIT #139N
110' FNL & 1700' FEL
LOCATED IN THE NW/4 NE/4 OF SECTION 9,
T27N, R4W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO
GROUND ELEVATION: 7167', NAVD 88
FINISHED PAD ELEVATION: 7166.5', 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.: COPC058
DATE: 06/15/07; REV1



Russell Surveying
1409 W. Aztec Blvd. #5
Aztec, New Mexico 87410
(505) 334-8637