

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD NOV 7 '07
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED OCT 17 2007 Bureau of Land Management Farmington Field Office	5. Lease Number NMSF-078424
1b. Type of Well GAS		6. If Indian, All. or Tribe Unit Reporting Number NMNM-784170-FC NMNM-78417C-PC
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name San Juan 29-7 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name 9. Well Number #589
4. Location of Well Unit O (SWSE), 800' FSL & 1530' FEL, Latitude 36.70633'N Longitude 107.57253'W		10. Field, Pool, Wildcat Basin Fruitland Coal/Blanco Pictured <i>C/1865</i> 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 21, T29N, R7W API # 30-039-30403
14. Distance in Miles from Nearest Town 16.7 miles		12. County Rio Arriba
		13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 800'		
16. Acres in Lease 1283.480 acres		17. Acres Assigned to Well FC - 320. E/2, PC160 SE/4
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 52' from SJ 29-7 #50A		
19. Proposed Depth 3780'		20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6792' GL		22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <i>Sasha Spangler</i> Sasha Spangler, Regulatory Technician		BLM'S APPROVAL OR ACCEPTANCE OF THIS DOES NOT RELIEVE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

PERMIT NO.

APPROVED BY *Jim Lovato*

TITLE *Acting AFM*

DATE *11/6/07*

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 2

Bond Numbers **NMB-000015 and NMB-000089**

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

NOV 13 2007
AV

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

RECEIVED

Form C-102
Revised October 12, 2005

OIL CONSERVATION DIVISION

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30463	² Pool Code 71629/72359	³ Pool Name BASIN FRUITLAND COAL/BLANCO PICTURED CLIFFS
⁴ Property Code 7465	⁵ Property Name SAN JUAN 29-7 UNIT	⁶ Well Number 589
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 6792'

¹⁰ Surface Location

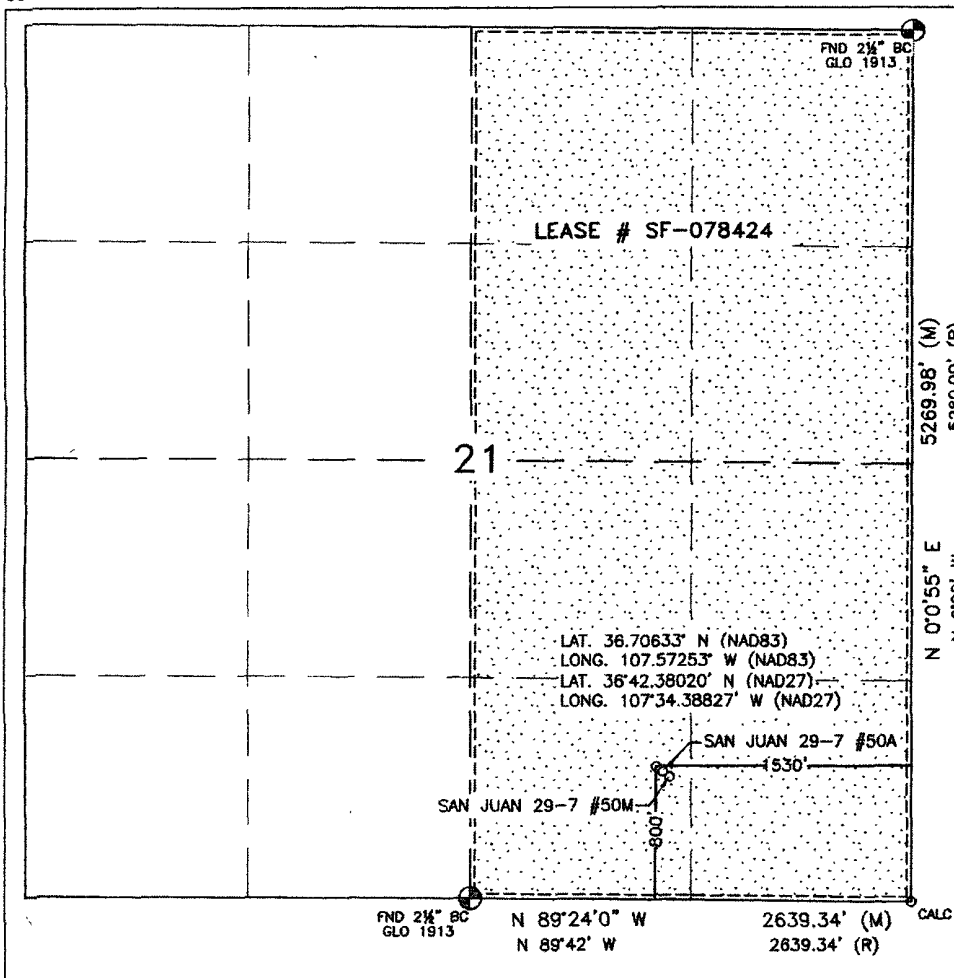
UL or lot no. 0	Section 21	Township 29N	Range 7W	Lot Idn	Feet from the 800'	North/South line SOUTH	Feet from the 1530'	East/West line EAST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. 0	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres FC 320 E/2 PC 160 SE/4			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 released 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.

Rhonda Rogers 8-22-07
Signature Date

Rhonda Rogers
Printed Name

¹⁸ SURVEYOR CERTIFICATION

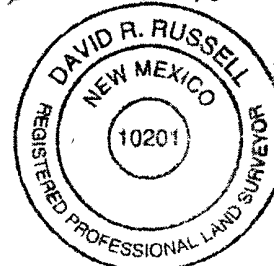
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JULY 23, 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.

30-045- 30463

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal Lease #NMSF078424

7. Lease Name or Unit Agreement Name

San Juan 29-7 Unit

8. Well Number

#589

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Dakota

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 O

: 800'

feet from the

South

line and

1530'

feet from the

East

line

Section 21

Township

29N

Rng

7W

NMPM

County

Rio Arriba

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

6792'

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 Jamie Goodwin TITLE Regulatory Technician DATE 10/11/2007

Type or print name Jamie Goodwin E-mail address: goodwil@conocophillips.com Telephone No. 505-326-9784

For State Use Only

Deputy Oil & Gas Inspector,
District #3

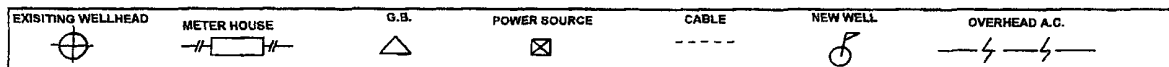
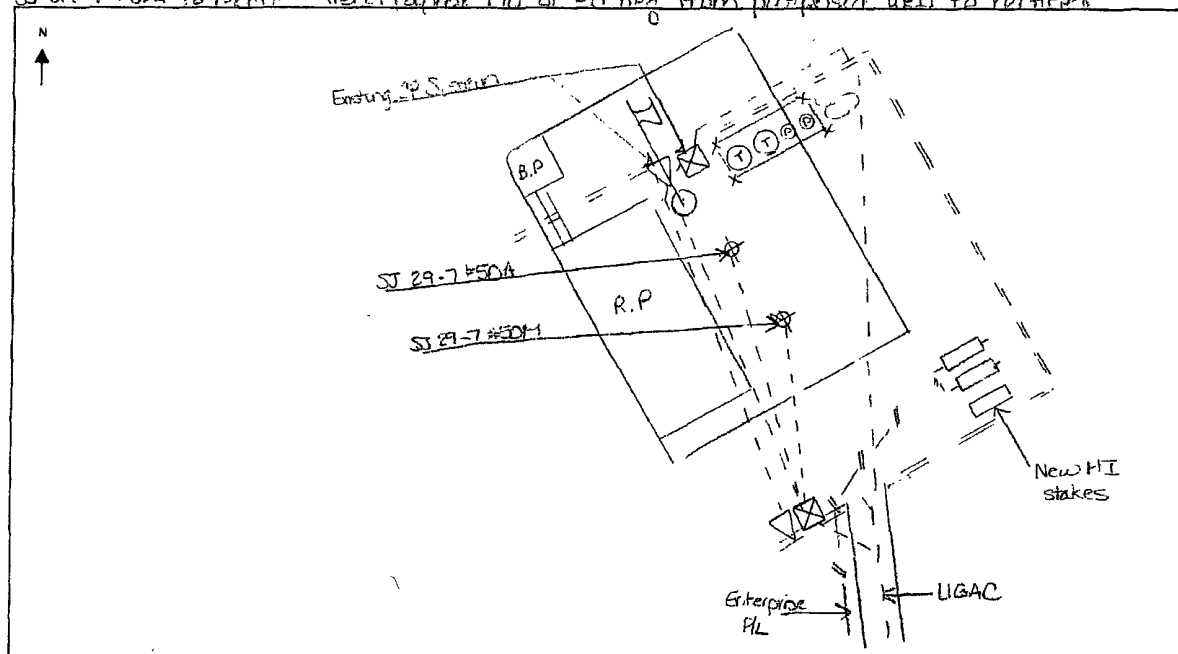
APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE NOV 13 2007

Conditions of Approval (if any):



WELL NAME SJ 29-7 #589 LEGALS 0-21-29-7 COUNTY Rio Arriba

PURPOSED C.P. SYSYTEM: Drill GB and set new rectifier on SW corner of existing well pad. Tie old GB into new system. Trench approx 75' of A/C from existing USAAC to new rectifier. Trench approx 75' of #8 n/a from existing SJ 29-7 #501A to rectifier. Trench approx 120' of #8 n/a from existing SJ 29-7 #50A to rectifier. Trench approx 170' of #8 n/a from proposed well to rectifier.



COMMENTS: 6.1 V / 4.5 amps = 1.3ohm GB NO extra lugs in existing rectifier (JA 30v 12amp rectifier)

NEAREST POWER SOURCE UGAC DISTANCE: 75'
PIPELINES IN AREA: Enterprise DR

TECHNICIAN: Miss. J. L. Thompson DATE: 8/21/07

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

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 29-7 UNIT 589

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7201		AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Riq 580		State: NM	County: RIO ARRIBA
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
JCV	BASIN FRUITLAND COAL (GAS)
UPL	BLANCO PICTURED CLIFFS

Location: Surface Datum Code: NAD 27 Straight Hole

Latitude: 36.708323	Longitude: -107.571922	X:	Y:	Section: 21	Range: 007W
Footage X: 1530 FEL	Footage Y: 800 FSL	Elevation: 6792	(FT)	Township: 029N	
Tolerance:					

Location Type: Year Round	Start Date (Est.): 1/1/2009	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 6808	Units = FT
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Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	6688	<input type="checkbox"/>			8-3/4" hole. 7" 20 ppf, J-55, STC casing. Circulate cement to surface. Cement with 50 cuft.
OJO ALAMO	2535	4273	<input type="checkbox"/>			Possible water flows.
KIRTLAND	2775	4033	<input type="checkbox"/>			
FRUITLAND	3160	3648	<input type="checkbox"/>			Possible gas.
FRUITLAND COAL	3306	3502	<input type="checkbox"/>			
PICTURED CLIFFS	3573	3235	<input type="checkbox"/>	600		
LEWIS	3780	3028	<input type="checkbox"/>			TD T/LEWIS
Total Depth	3780	3028	<input type="checkbox"/>			6-1/4" hole. 4-1/2" 10.5 ppf, J-55 STC. Circulate cement to surface. Cement with 581 cuft.

Reference Wells:

Reference Type	Well Name	Comments
Production	SJ 29-7 50A	SE 21-29N-7W direct offset

Logging Program:

Intermediate Logs:	<input type="checkbox"/> Log only if show	<input type="checkbox"/> GR/ILD	<input type="checkbox"/> Triple Combo
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TD Logs:	<input type="checkbox"/> Triple Combo	<input type="checkbox"/> Dipmeter	<input type="checkbox"/> RFT	<input type="checkbox"/> Sonic	<input type="checkbox"/> VSP	<input checked="" type="checkbox"/> TDT	<input type="checkbox"/> Other
GR_CBL							

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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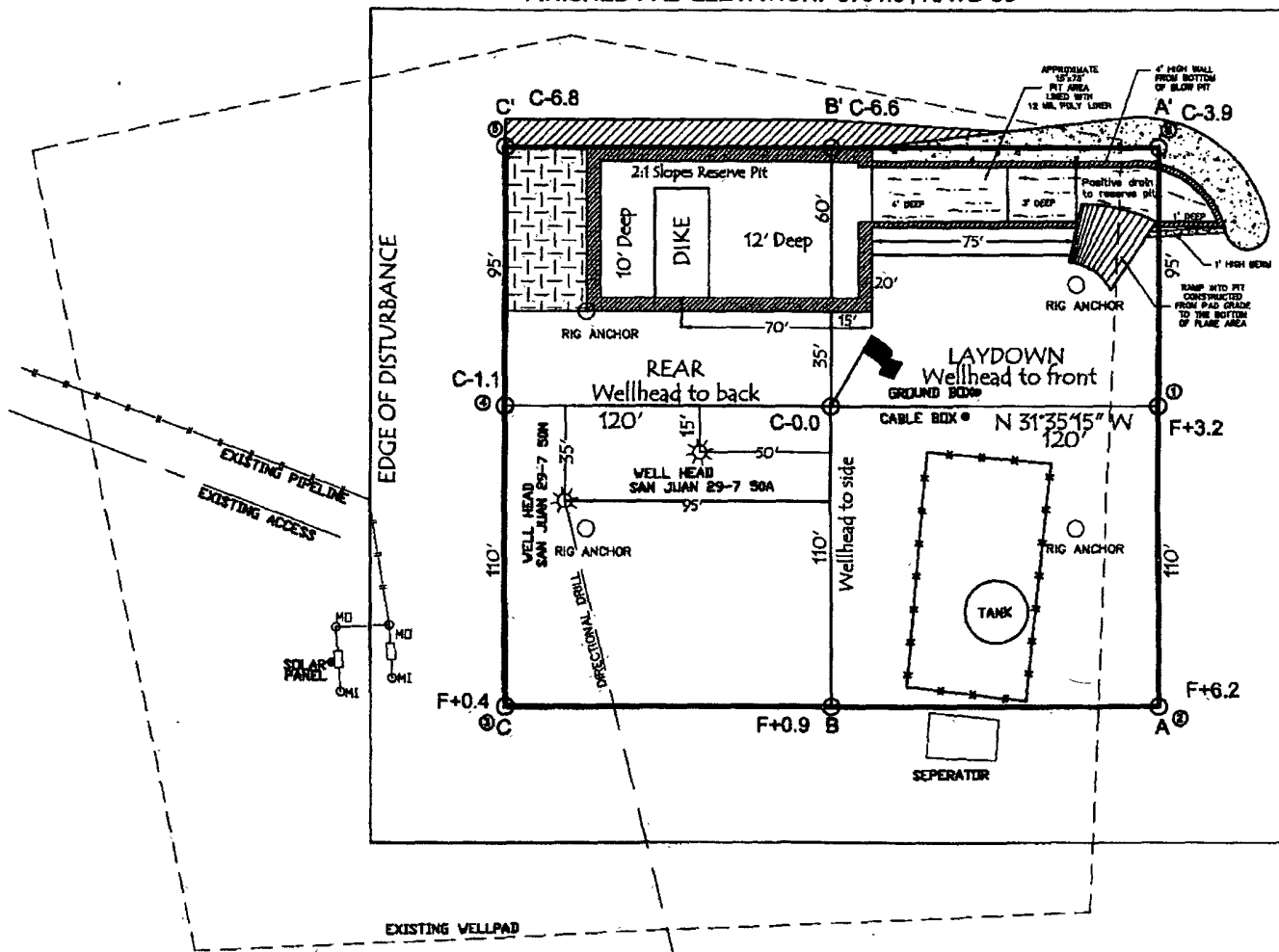
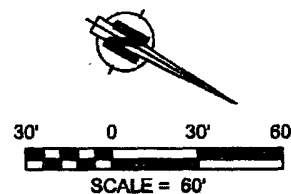
Comments: Location/Tops/Logging - PCNM029N007W21SE1 FCNM029N007W21SE1 Do not twin (50M drilled in 2006), prefer J,O,I,P.

Zones - PCNM029N007W21SE1 FCNM029N007W21SE1

LATITUDE: 36.70633°N
 LONGITUDE: 107.57253°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 29-7 UNIT #589
 800' FSL & 1530' FEL
 LOCATED IN THE SW/4 SE/4 OF SECTION 21,
 T29N, R7W, N.M.P.M.,
 RIO ARriba COUNTY, NEW MEXICO
 GROUND ELEVATION: 6792', NAVD 88
 FINISHED PAD ELEVATION: 6791.9', NAVD 88



305' x 340' = 2.38 ACRES OF DISTURBANCE
 SCALE: 1" = 60'
 JOB No.: COPC089
 DATE: 08/02/07

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.

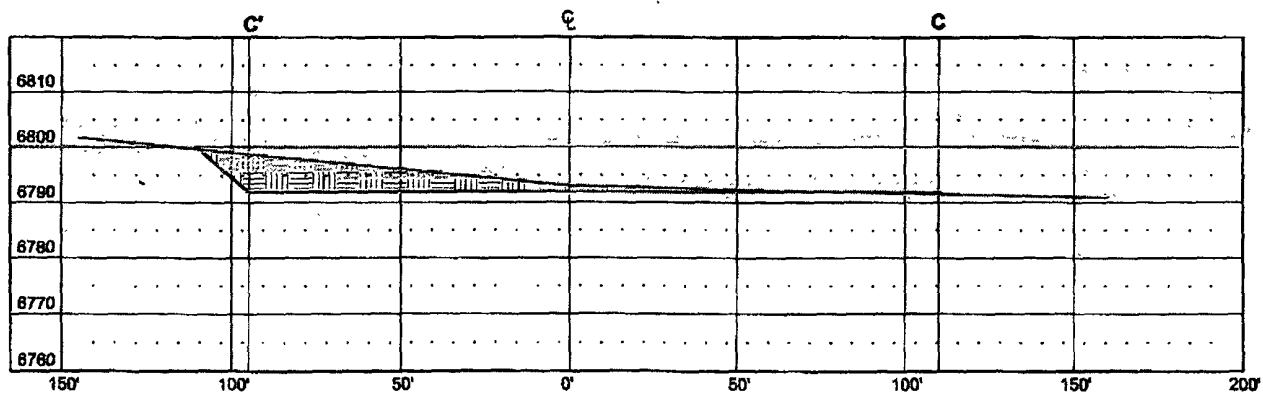
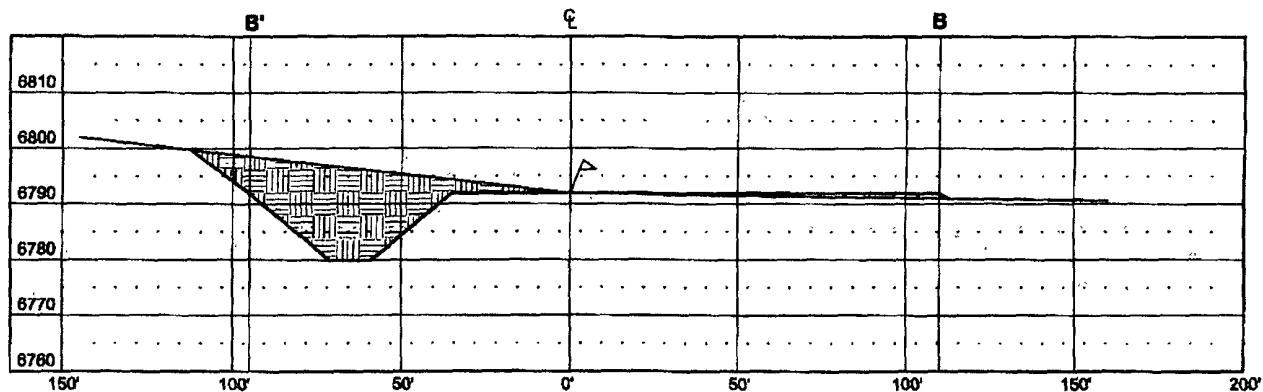
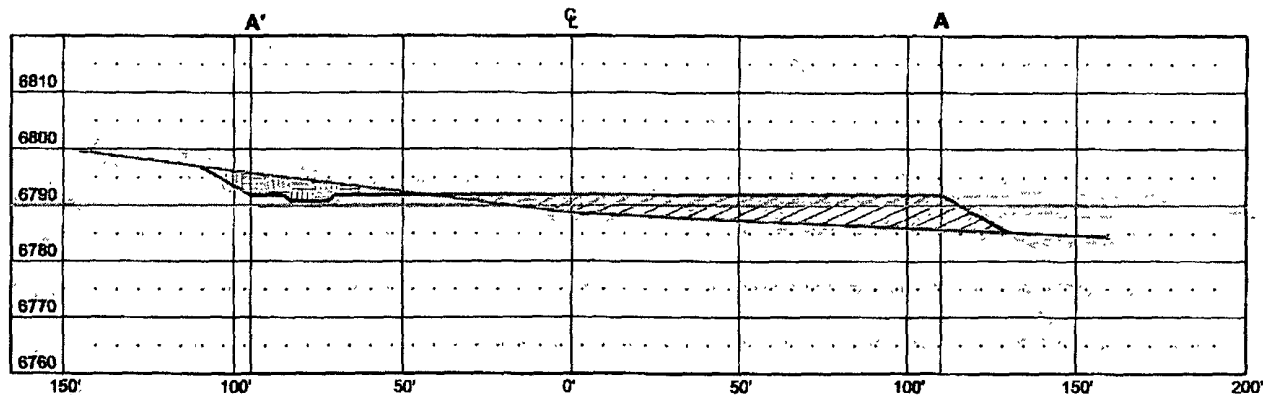


Russell Surveying
 1409 W. Aztec Blvd. #2
 Aztec, New Mexico 87410
 (505) 334-8637

LATITUDE: 36.70633°N
LONGITUDE: 107.57253°W
DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

SAN JUAN 29-7 UNIT #589
800' FSL & 1530' FEL
LOCATED IN THE SW/4 SE/4 OF SECTION 21,
T29N, R7W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 6792', NAVD 88
FINISHED PAD ELEVATION: 6791.9', 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.: COPC089
DATE: 08/02/07



Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
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