

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD MAY 16 '07
OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

PM 3:40

1a. Type of Work DRILL	5. Lease Number USA SF-680430-B Unit Reporting Number 210 FARMINGTON NM	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 28-6 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number #159F	
4. Location of Well Unit C (NENW), 1305' FNL & 1535' FWL Latitude 36° 39.02534 N Longitude 107° 30.60329 W	10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) C Sec. 19, T28N, R6W API # 30-039- 30251	
14. Distance in Miles from Nearest Town	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1305'	17. Acres Assigned to Well DK - 330.68 (W/2) Sec 18 R-2948 328.37 NW 1/4 Sec 19	
16. Acres in Lease	18. Distance from Proposed Location to Nearest Well, Drlg. Compl. or Applied for on this Lease 200' from San Juan 28-6 U 50-A	
19. Proposed Depth 7858'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6648' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician)	4-19-07 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

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

NMOCD

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

5/17/07

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brasos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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

2007 APR 19 PM 3:40 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039- 30251	*Pool Code 71599	*Pool Name Basin 210 DAKOTA NGTON NM
*Property Code 7462	*Property Name SAN JUAN 28-6 UNIT	*Well Number 159F
*OGEID No. 14538	*Operator Name BURLINGTON RESOURCES O&G CO LP	*Elevation 6648'

10 Surface Location

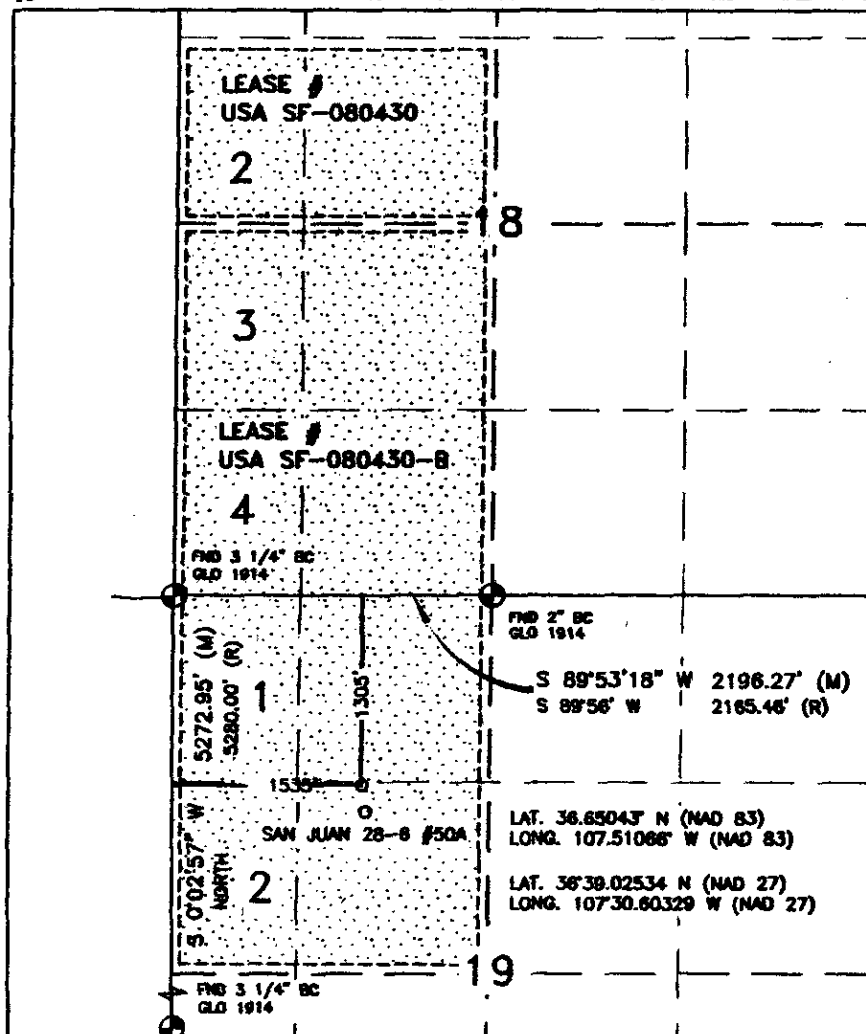
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	19	28N	6W		1305'	NORTH	1535'	WEST	RIO ARriba

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
C									
Dedicated Acres 328.37 NW-19 330.68 Acres - (W/2)N8			Joint or Infill		Consolidation Code		Order No. R-2948#6		
							RCUD MAY 16 07 OIL CONS. DIV. DIST. 3		

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

18



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Kandis Roland
Signature
Kandis Roland
Printed Name
Regulatory Technician
Title
January 12 2007
Date

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 20, 2006

Date of Survey
Signature and Seal of Professional Surveyor

David Russell
Signature
DAVID RUSSELL
Professional Surveyor
New Mexico
Surveyor License No. 10201

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 DIVISION1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.

30-039- **30251**

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal Lease # USA SF-080430-B

7. Lease Name or Unit Agreement Name

San Juan 28-6 Unit

8. Well Number

#159F

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 C : 1305' feet from the North line and 1535' feet from the West line
 Section 19 Township 28N Rng 6W NMPM County Rio Arriba

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

6648'

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:

N/A

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 ☐**SUBSEQUENT REPORT OF:**REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING/CEMENT JOB ☐ALTERING CASING ☐P AND A ☐

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, Unlined:

Burlington Resources proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and vent/flare pit will be an unlined pit 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 unlined, 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

4-19-07

Type or print name

Rhonda Rogers

E-mail address:

ogerrs@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY

TITLE

DEPUTY OIL & GAS INSPECTOR, DIST. 83

DATE

MAY 17 2007

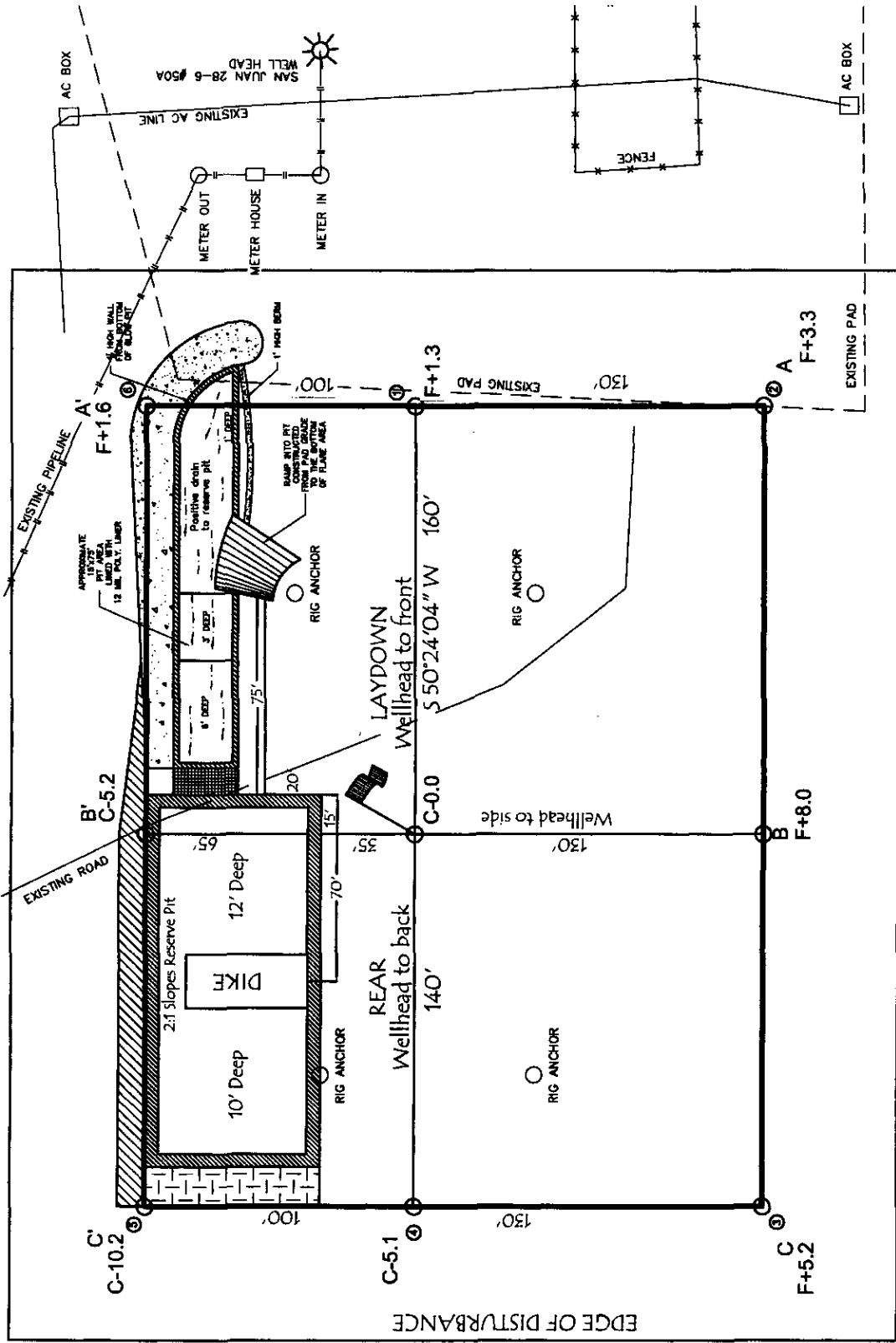
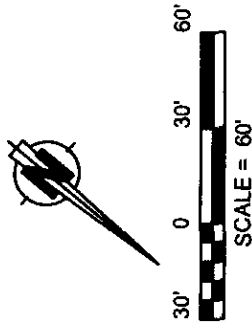
Conditions of Approval (if any):

LATITUDE: 36.65043°N
 LONGITUDE: 107.51066°W
 DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

SAN JUAN 28-6 UNIT #159F
 1305' FNL & 1535' FWL
 LOCATED IN THE SE/4 NW/4 OF
 SECTION 19, T28N, R6W, N.M.P.M.,
 RIO ARriba COUNTY, NEW MEXICO
 GROUND ELEVATION: 6648', NAVD 88
 FINISHED PAD ELEVATION: 6648.1', NAVD 88

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



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.

330' x 400' = 3.03 ACRES OF DISTURBANCE
 SCALE: 1" = 60'
 JOB No.: COPC050
 DATE: 11/22/06; REV1

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

LATITUDE: 36.65043°N
LONGITUDE: 107.51066°W
DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

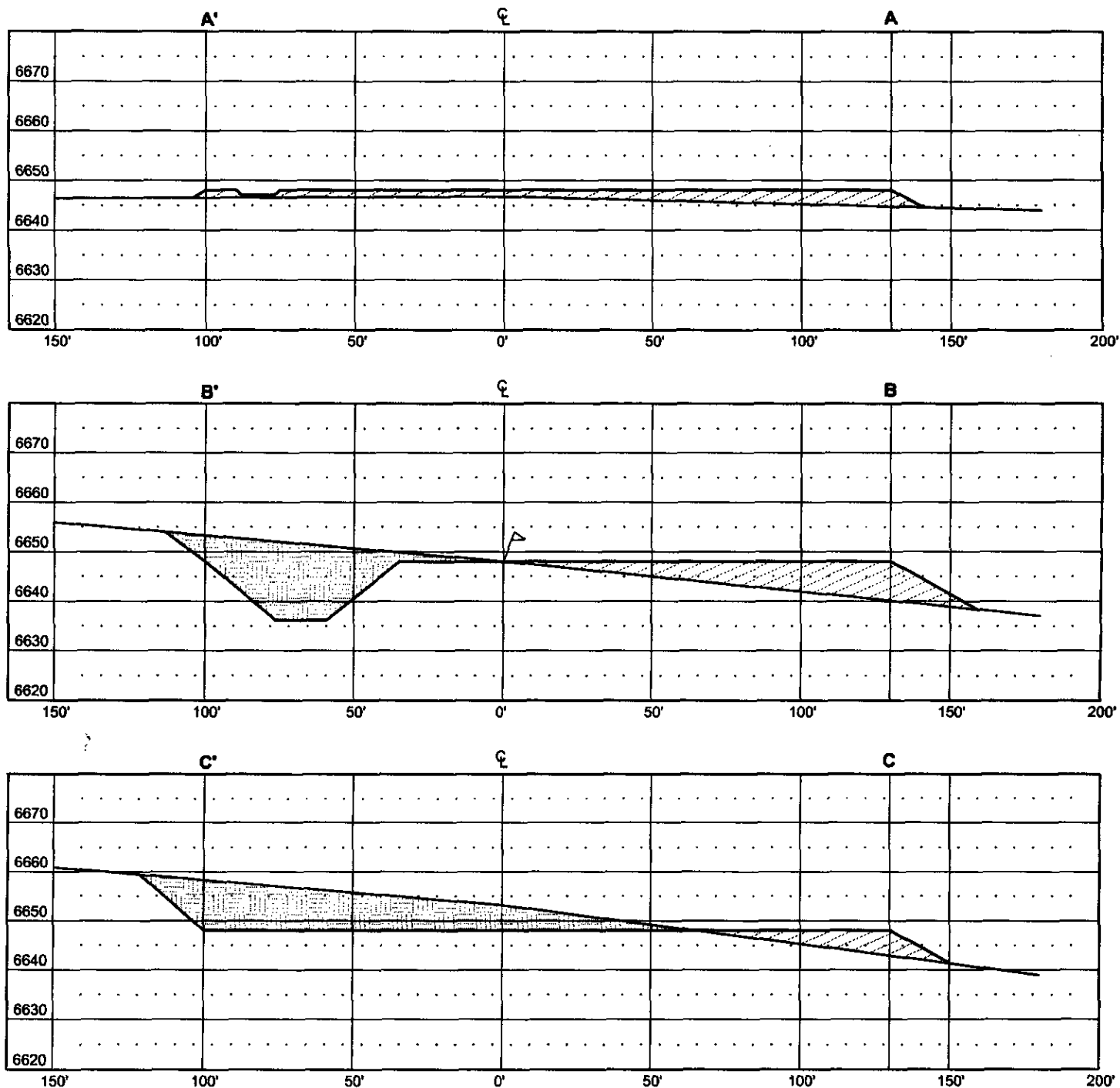
SAN JUAN 28-6 UNIT #159F

1305' FNL & 1535' FWL

LOCATED IN THE SE/4 NW/4 OF
SECTION 19, T28N, R6W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

GROUND ELEVATION: 6648', NAVD 88

FINISHED PAD ELEVATION: 6648.1', 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.: COPC050
DATE: 11/22/06; REV1



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

BURLINGTON RESOURCES O&G CO LP

SAN JUAN 28-6 UNIT #159F

1305' FNL & 1535' FWL

LOCATED IN THE SE/4 NW/4 OF
SECTION 19, T28N, R6W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

FROM THE POST OFFICE IN BALNCO, NM, TRAVEL EAST ON HIGHWAY 64 23.0 MILES TO A
MAIN DIRT ROAD (FOURMILE ROAD) ON RIGHT.

TURN RIGHT AND TRAVEL SOUTHEAST 2.0 MILES.

TURN RIGHT AND TRAVEL 1.3 MILES.

TURN RIGHT AND TRAVEL 3.0 MILES.

TURN LEFT AND TRAVEL 1.7 MILES.

TURN LEFT AND TRAVEL 0.3 MILES TO EXISTING WELL LOCATION.

WELL FLAG IS LOCATED AT LAT. 36.65043° N, LONG. 107.51066° W.



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 159F

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7025		AFE \$: 636,161.40	
Field Name: hBR_SAN JUAN 28-6 UNIT		Rig: XX 2008 28N		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)

Location: Surface						Datum Code: NAD 27						Straight Hole					
Latitude: 36.650422		Longitude: -107.510055		X:		Y:		Section: 19		Range: 006W							
Footage X: 1535 FWL		Footage Y: 1305 FNL		Elevation: 6648		(FT)		Township: 028N									
Tolerance:																	

Location Type: Year Round		Start Date (Est.):		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6662 Units = FT							

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6462	☐			12-1/4" hole. 9-5/8" 32.3 ppf, H-40, ST&C casing. Cement with 159 cu. ft. Circulate cement to surface.
OJAM	2609	4053	☐			Possible water flows.
KRLD	2706	3956	☐			
FRLD	3033	3629	☐			Possible gas.
PCCF	3418	3244	☐			
LEWS	3547	3115	☐			
Intermediate Casing	3647	3015	☐			8-3/4" hole. 7", 20.0 ppf, J-55, ST&C casing. Cement with 822 cu. ft. Circulate cement to surface.
HURF	3973	2689	☐			
CHRA	4334	2328	☐			
UCLFH	4960	1702	☐			
MASSIVE CLIFF HOUSE	5073	1589	☐			Gas; possibly wet
MENF	5198	1464	☐			Gas.
PTLK	5577	1085	☐	600		Gas.
MNCS	6067	595	☐			
GLLP	6790	-128	☐			Gas. Possibly wet.
GRHN	7528	-866	☐	2150		Gas possible, highly fractured
GRRS	7605	-943	☐			
TWLS	7640	-978	☐			Gas
CBBO	7765	-1103	☐			Gas
CBRL	7802	-1140	☐			
ENCINAL	7858	-1196	☐			
TOTAL DEPTH DK	7858	-1196	☐			TD T/ENCN. 6-1/4" hole. 4-1/2", 10.5/11.6 ppf, J-55, STC/LTC casing. Cement with 573 cu. ft. Circulate cement a mimium of 100' inside the previous casing string. No open holes logs. Cased hole TDT with GR to surface.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 28-6 #159	SW 18-28N-6W

PROJECT PROPOSAL - New Drill / Sidetrack**SAN JUAN 28-6 UNIT 159F****DEVELOPMENT**

Production	SJ 28-6 #50A	NW 19-28N-6W
Production	SJ 28-6 #159M	NW 19-28N-6W

Logging Program:Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple ComboTD 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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Comments: Location/Tops/Logging - DK 28N06W19NW2

Zones - DK 28N06W19NW2