

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED NOV 02 2007 Bureau of Land Management Farmington Field Office	5. Lease Number USA NM-06738 NMSF 080670 Unit Reporting Number NMNM-784080-DK NMNM-78408A-MV 6. If Indian, All. or Tribe
1b. Type of Well GAS		7. Unit Agreement Name San Juan 27-4 Unit OIL CONS. DIV. DIST. 3
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		8. Farm or Lease Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		9. Well Number #54N
4. Location of Well Unit B (NWNE), 1266' FNL & 2574' FEL Latitude 36.53362222 Longitude 107.27397778		10. Field, Pool, Wildcat Basin Dakota/Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 32, T27N, R04W API # 30-043-30-039-30419
14. Distance in Miles from Nearest Town 54.8 Miles/Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1266'		
16. Acres in Lease 2564.720'	17. Acres Assigned to Well MV/DK 320.0 (N/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1000' from San Juan 27-4 Unit 54		
19. Proposed Depth 8084'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6830.5' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	<u>11/01/07</u> Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY Wayne Townsend

TITLE Acting AFM

DATE 4/16/08

Archaeological Report attached

Threatened and Endangered Species Report attached PA ✓

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

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

NMOCD 8 APR 23 2008  
AV

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

## District I

1625 N. French Dr., Hobbs, NM 88240

## District II

1301 W. Grand Avenue, 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 & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

NOV 02 2007

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

Bureau of Land Management  
Farmington Field Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-30419	<sup>2</sup> Pool Code 72319/71599	<sup>3</sup> Pool Name Blanco-MESAVERDE / DAKOTA
<sup>4</sup> Property Code 7452	<sup>5</sup> Property Name SAN JUAN 27-4 Unit	<sup>6</sup> Well Number 54N
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY	<sup>9</sup> Elevation 6830.5

<sup>10</sup> 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	32	27N	04W		1,266	NORTH	2,574	EAST	RIO ARRIBA

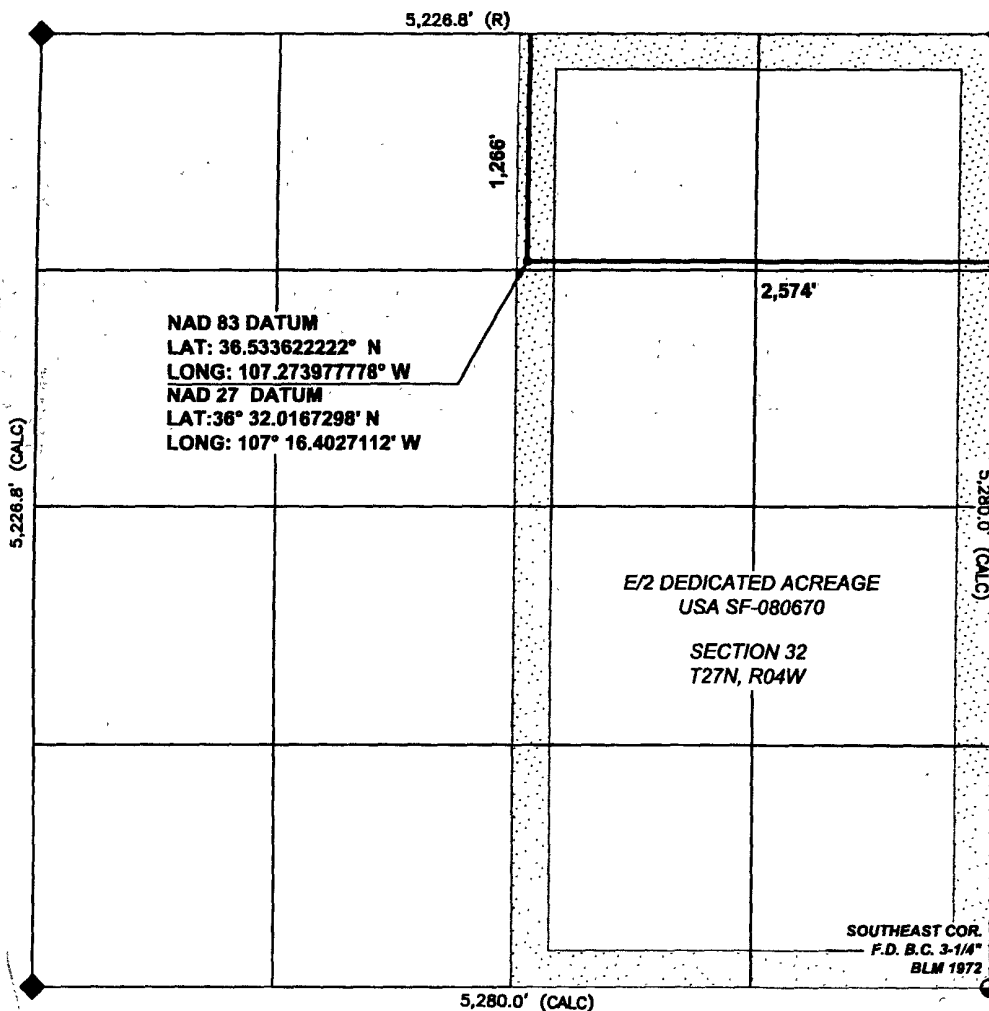
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B									

<sup>12</sup> Dedicated Acres 320.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

<sup>17</sup> 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 of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature *Tracey N. Monroe*  
Tracey N. Monroe

Printed Name Regulatory Technician

Title and E-mail Address December 11 2006

Date

<sup>18</sup> 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.

Date of Survey: 10/28/06

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

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.

30-045-30419

5. Indicate Type of Lease

STATE ☐

FEE ☐

6. State Oil & Gas Lease No.

Federal Lease #USA-SF-080670

7. Lease Name or Unit Agreement Name

San Juan 27-4 Unit

8. Well Number

#54N

9. OGRID Number

14538

10. Pool name or Wildcat

Mesaverde/Dakota

**SUNDARY 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 : 1266' feet from the North line and 2574' feet from the East line  
Section 32 Township 27N Rng 04W NMPM County Rio Arriba

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

6830.5'

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type

New Drill

Depth to Groundwater

30

Distance from nearest fresh water well

>1000

Distance from nearest surface water

5200

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 11/1/2007

Type or print name Jamie Goodwin E-mail address: goodwin@conocophillips.com Telephone No. 505-599-4018  
For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE APR 23 2008

Conditions of Approval (if any): Follow NMOCD rules for closing pits in vulnerable areas  
Pit lined and all pit contents must be removed and disposed of at  
the time of closure of the pit.

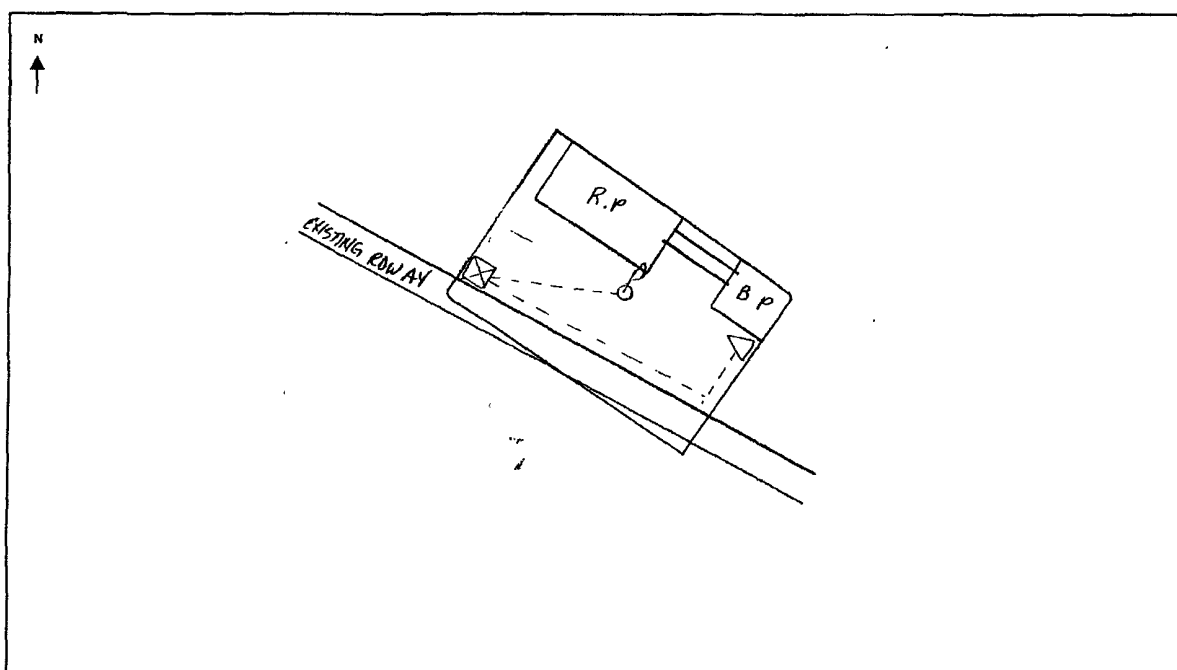


TECHNICAL SERVICES  
A CORROSION COMPANY

## CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SS 27-4 #54N LEGALS B-32-27-4 COUNTY Rio Arriba

PURPOSED C.P. SYSTEM: Drill G.B. on east edge of location and set solar on west edge. Trench approx 275' of positive cable from G.B. to solar. Trench approx 150' of #8 neg cable from wellhead to solar.



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

COMMENTS: \_\_\_\_\_

NEAREST POWER SOURCE \_\_\_\_\_ DISTANCE: \_\_\_\_\_

PIPELINES IN AREA: \_\_\_\_\_

TECHNICIAN: Michael Hingore DATE: 2/23/07

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 54N

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7198/7199MV		AFE \$:	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: H&P Rig 282	State: NM	County: RIO ARriba	API #:
Geologist:		Phone:	Geophysicist:		Phone:
Geoscientist: Head, Chip F		Phone: 505-326-9772	Prod. Engineer:		Phone:
Res. Engineer: Prabowo, Wahvu		Phone: 505-326-9797	Proj. Field Lead:		Phone:

## Primary Objective (Zones):

Zone	Zone Name
R20002	MESAVERDE(R20002)
R20076	DAKOTA(R20076)

Location: Surface Datum Code: NAD 27

Latitude: 36.533612	Longitude: -107.273379	X:	Y:	Section: 32	Range: 004W
Footage X: 2574 FEL	Footage Y: 1266 FNL	Elevation: 6831	(FT)	Township: 027N	
Tolerance:					

Location Type: Restricted	Start Date (Est.): 1/1/2008	Completion Date:	Date In Operation:
Formation Data: Assume KB = 6845 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6645	<input type="checkbox"/>			12-1/4" hole, 9-5/8" 32.3 ppf, H-40, STC casing. Cement w/ 170 cu ft. Circulate Cmt to surface.
OJAM	3142	3703	<input type="checkbox"/>			Possible water flows.
KRLD	3274	3571	<input type="checkbox"/>			
FRLD	3318	3527	<input type="checkbox"/>			Possible gas.
PCCF	3644	3201	<input type="checkbox"/>			
LEWS	3791	3054	<input type="checkbox"/>			
Intermediate Casing	3891	2954	<input type="checkbox"/>			8-3/4" hole, 7" 20 ppf, J-55, STC casing. Cement w/ 876 cu ft. Circulate cmt to surface.
HURF	4147	2698	<input type="checkbox"/>			
CHRA	4610	2235	<input type="checkbox"/>			
UCLFH	5224	1621	<input type="checkbox"/>			
CLFH	5333	1512	<input type="checkbox"/>			Gas; possibly wet
MENF	5431	1414	<input type="checkbox"/>			Gas.
PTLK	5826	1019	<input type="checkbox"/>	850		Gas.
MNCS	6316	529	<input type="checkbox"/>			
GLLP	6962	-117	<input type="checkbox"/>			Gas. Possibly wet.
GRHN	7764	-919	<input type="checkbox"/>	1800		Gas possible, highly fractured
GRRS	7824	-979	<input type="checkbox"/>			
TWLS	7846	-1001	<input type="checkbox"/>			Gas
CBBO	7982	-1137	<input type="checkbox"/>			Gas
CBRL	8019	-1174	<input type="checkbox"/>			
OKCN	8074	-1229	<input type="checkbox"/>			
ENCINAL	8084	-1239	<input type="checkbox"/>			
TD	8084	-1239	<input type="checkbox"/>			TD T/ENCN. 6-1/4" hole. 4-1/2", 10.5 ppf, J-55, ST&C casing. Cement with 571 cu. ft. Circulate cement a minimum of 100 ft. inside the previous casing string. No open hole logs. Cased hole TDT with GR to surface.

## Reference Wells:

# PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 27-4 UNIT 54N

DEVELOPMENT

Reference Type	Well Name	Comments
Production	SJ 27-4 #30M	NW 32-27N-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

## Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - DK 027N04W32NE2 and MV 027N04W32NE2

Zones - DK 027N04W32NE2 and MV 027N04W32NE2

General/Work Description - NO LEWIS

2/14/07 (CLM) : WO arch results to push AFE through the process



# BURLINGTON RESOURCES OIL & GAS COMPANY LP

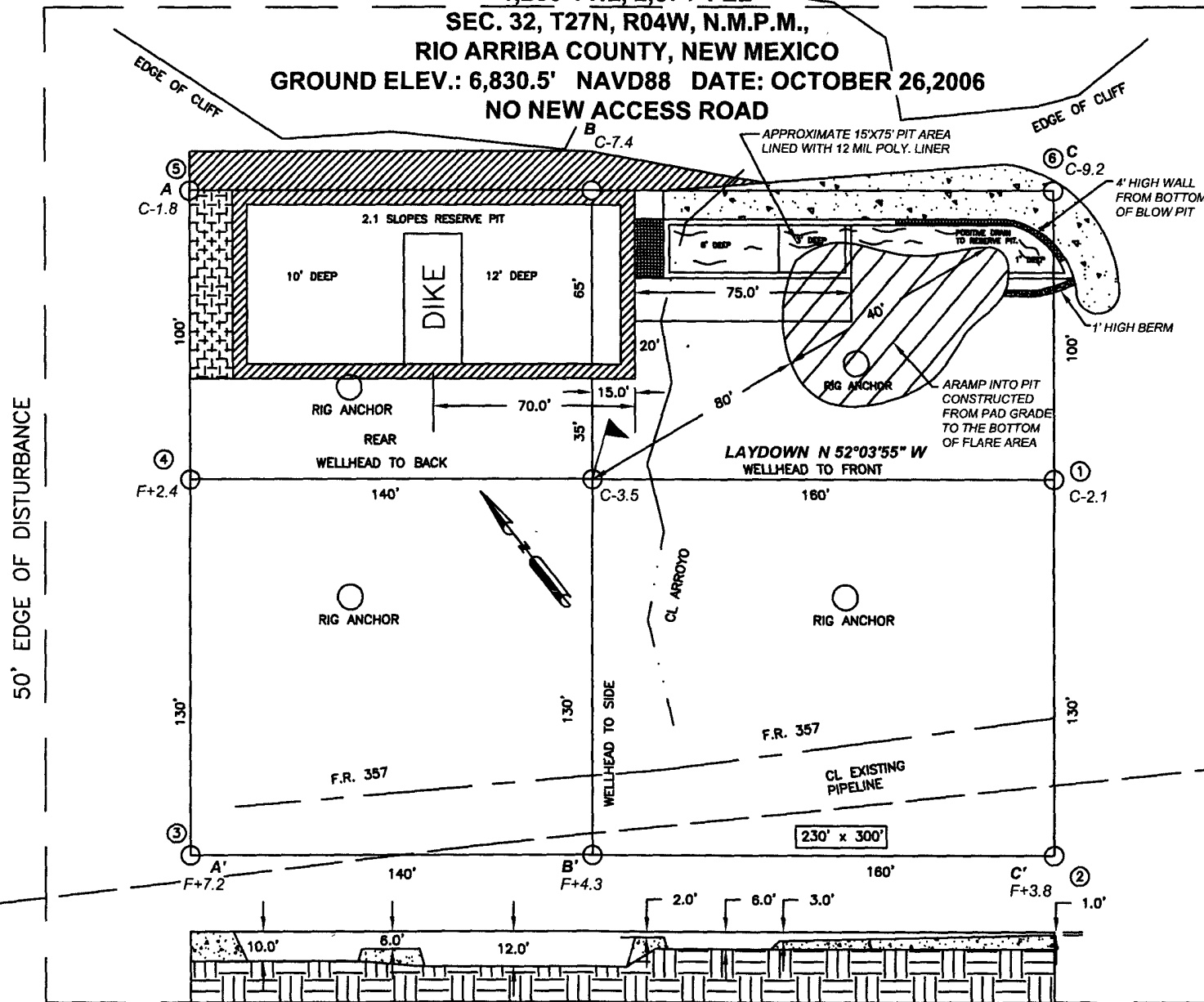
SAN JUAN 27-4 UNIT# 54N

1,266' FNL, 2,574' FEL

SEC. 32, T27N, R04W, N.M.P.M.,  
RIO ARriba COUNTY, NEW MEXICO

GROUND ELEV.: 6,830.5' NAVD88 DATE: OCTOBER 26, 2006

NO NEW ACCESS ROAD



**PIT CROSS SECTION**

NAD 83 LAT.: 36.533622222° N / LONG.: 107.273977778° W

330' x 400' = 3.03 ACRES

NOTES:

1. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE).

2. C.C.I. SURVEYS 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 AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

CCI

CHENAULT CONSULTING INC.

1300 W. BROADWAY  
BLOOMFIELD, NM, 87413  
PHONE: (505)632-7777

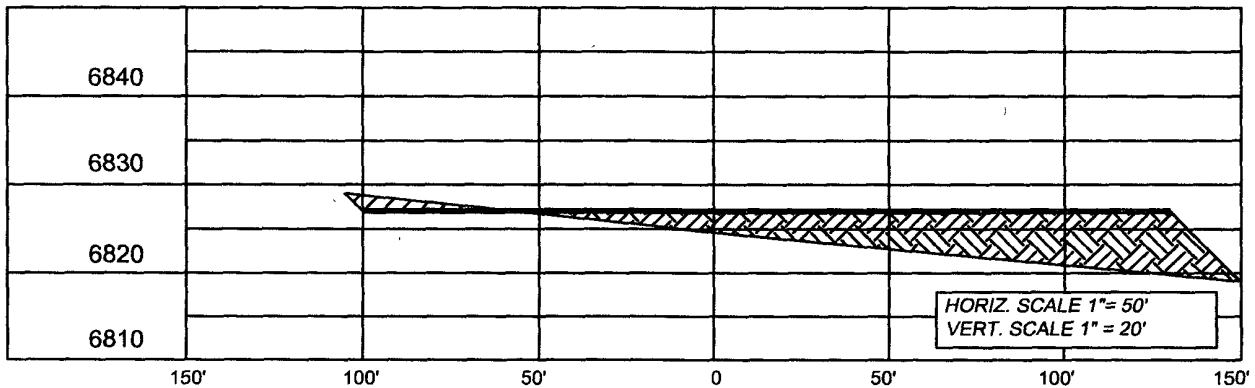


# BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT# 54N  
 1,266' FNL, 2,574' FEL  
 SEC.32, T27N, R04W, N.M.P.M.,  
 RIO ARriba COUNTY, NEW MEXICO  
 ELEV.: 6,830.5' NAVD88

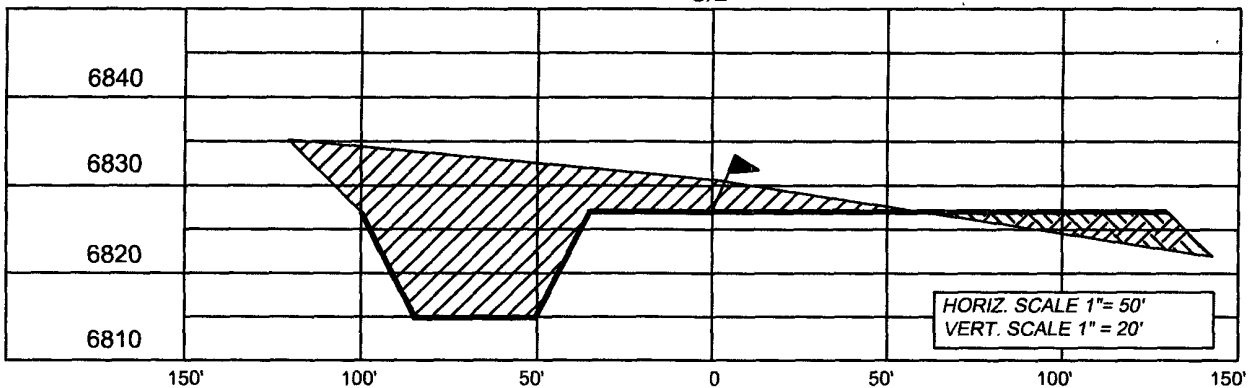
A - A'

C/L



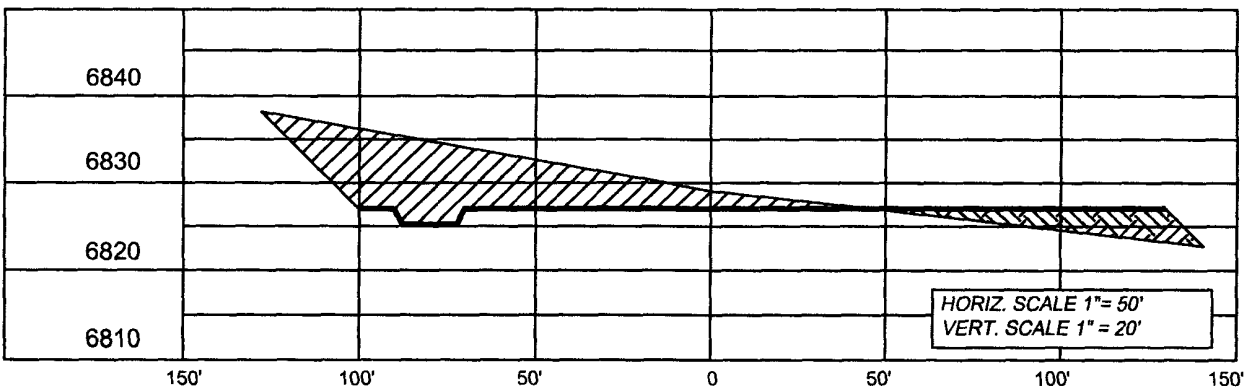
B - B'

C/L



C - C'

C/L



NOTE: CCI 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 AND OR ACCESS ROAD PRIOR TO CONSTRUCTION.

## REVISIONS

NO.	DESCRIPTION	REVISED BY	DATE

**CCI**

1300 W. BROADWAY  
 BLOOMFIELD, NM, 87413  
 PHONE: (505)632-7777

**CHENAULT CONSULTING INC.**