

RCVD APR 2 '08
OIL CONS. DIV.
DIST. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number USA SF-080674 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 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 9. Well Number #71E	
4. Location of Well Surf:Unit 0 (SWSE), 1066' FSL & 1600' FEL Latitude 36° 34.1320823 N Longitude 107° 15.14073467 W	10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 16, T27N, R4W API # 30-039-30274	
14. Distance in Miles from Nearest Town 24 mile/Gobernador	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1066'	17. Acres Assigned to Well DK - 320 (E/2)	
16. Acres in Lease	19. Proposed Depth 8497'	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7193' 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)	6-4-07 Date	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE ADMIN DATE 4/1/08

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

8 NMOCD

APR 04 2008

AL

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

Fee Lease - 3 Copies
State Lease - 7 Copies
Submit to Appropriate District Office
Revised June 10, 2003
Form C-102

2007 JUN -4 PM 4:00 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30274	² Pool Code 71599	³ Pool Name BASIN DAKOTA
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	⁶ Well Number 71E
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 7193.3'

¹⁰ SURFACE LOCATION

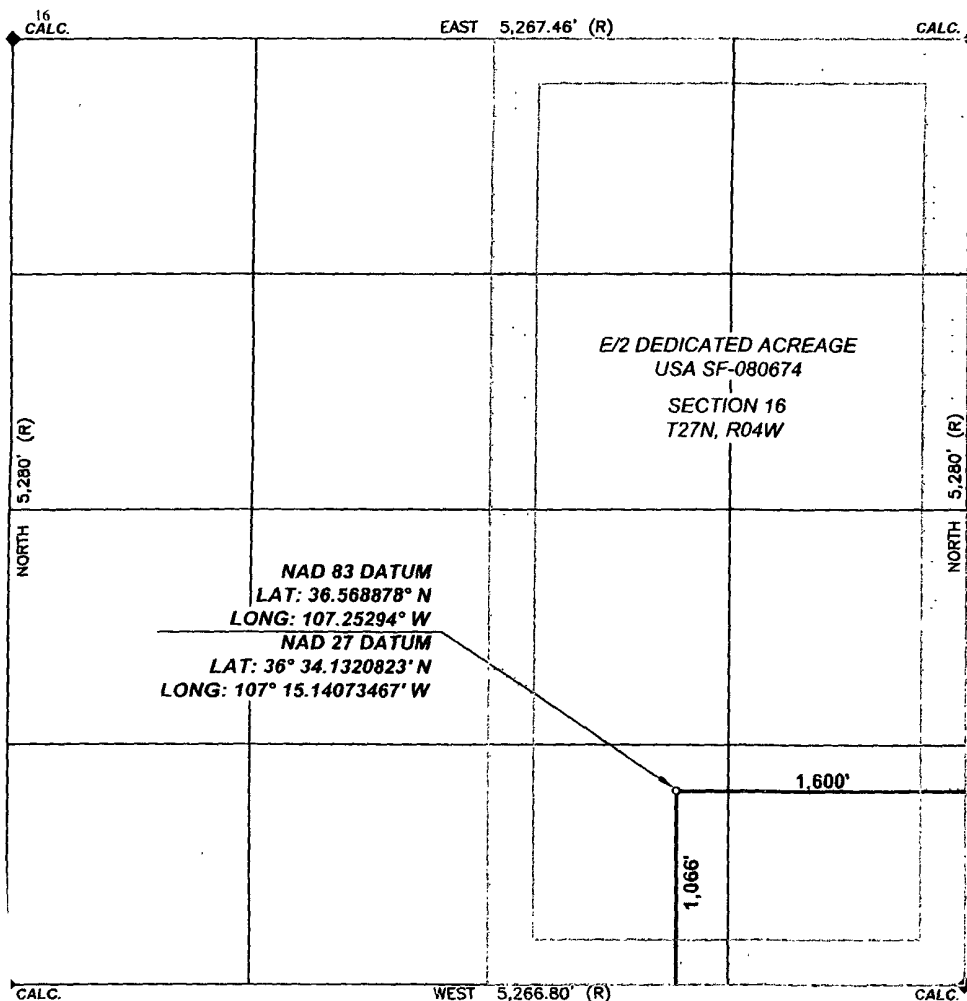
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	16	27-N	04-W		1066	SOUTH	1600	EAST	RIO ARriba

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
O									

¹² Dedicated Acres 320 E/D	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 of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature
Kandis Roland

Printed Name
Regulatory Assistant

Title and E-mail Address
September 11 2006

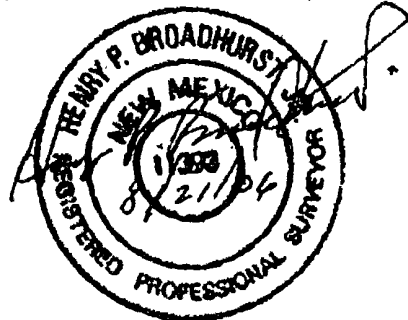
Date

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.

Date of Survey: 07/21/06

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

Submit 3 Copies To Appropriate District
Office

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

State of New Mexico

Energy, Minerals and Natural Resources

Form C-103

May 27, 2004

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-039- 30274

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

Federal Lease # USA SF-080674

7. Lease Name or Unit Agreement Name

San Juan 27-4 Unit

8. Well Number

#71E

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 : 1066' feet from the South line and 1600' feet from the East line
Section 16 Township 27N Rng 4W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
7193'

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

000

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, ~~Un~~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, vent/flare pit and pre-set mud pit will be unlined 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 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 Rhonda Rogers TITLE Regulatory Technician DATE 6-4-07

Type or print name Rhonda Rogers E-mail address: ogerrs@conocophillips.com Telephone No. 505-599-4018

For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, DATE APR 04 2008

Conditions of Approval (if any):

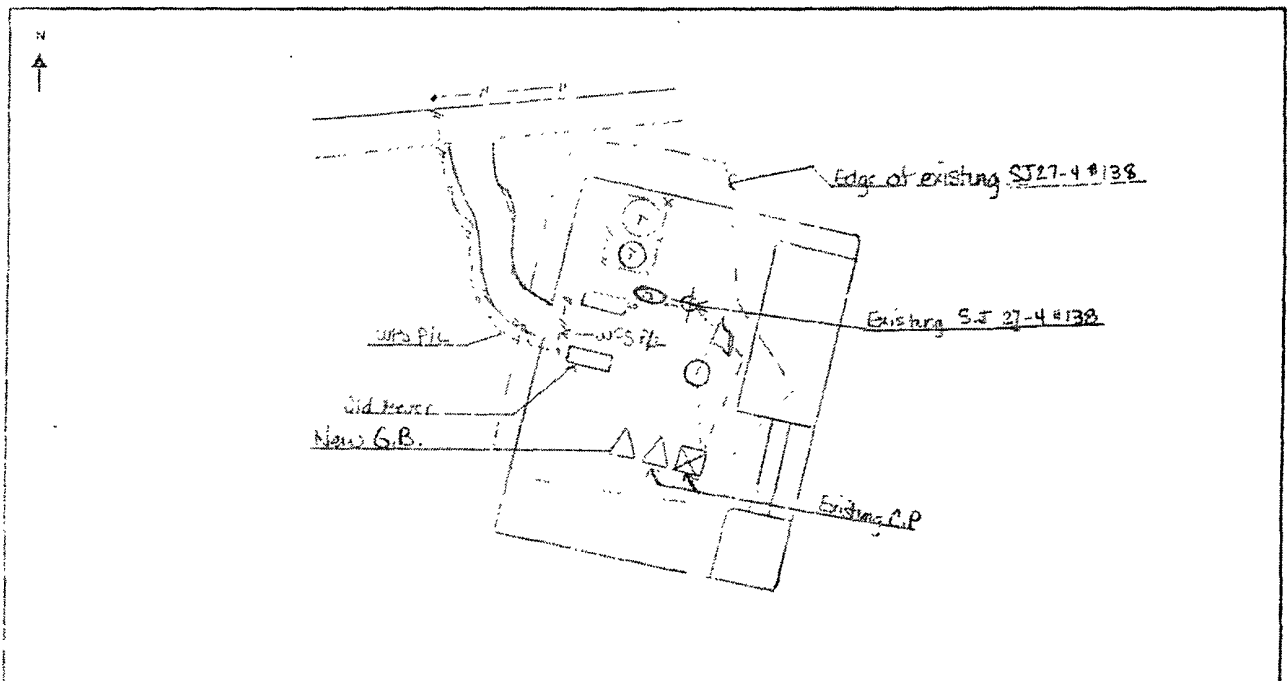


TECHNICAL SERVICES
INCORPORATED

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 27-4 # 71E LEGALS 10-16-27-4 COUNTY Rio Arriba

PURPOSED C.P. SYSTEM: Drill G.B. to the west of the existing CP system on
SJ 27-4 #138. If needed upgrade existing system from a one well to a two
well system. Trench approx 500 ft long cable from existing soln2 to new wellhead (SJ27-4 #71E).



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

COMMENTS: Note: since existing soln2 on #138 is capable of 2 wells if not upgrade
to a 2 well system / set soln2 in line for 2 wells

NEAREST POWER SOURCE _____ DISTANCE: _____

PIPELINES IN AREA: WFS

TECHNICIAN: [Signature] DATE: 9/25/01

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 71E

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7209				AFE \$: 667,782.56	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: Bearcat Rig 4		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD 27 Straight Hole							
Latitude: 36.568868		Longitude: -107.252341		X:	Y:	Section: 16	Range: 004W
Footage X: 1600 FEL		Footage Y: 1066 FSL		Elevation: 7193 (FT)	Township: 027N		
Tolerance:							
Location Type: Restricted		Start Date (Est.):		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7205 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
SURFACE CSG	216	6989	<input type="checkbox"/>			12-1/4" hole. 9-5/8" 32.3 ppf, H-40, STC casing. Cement with 171 cuft. Circulate cement to surface.	
OJO ALAMO	3486	3719	<input type="checkbox"/>			offset well 27-4 # 71M wet in CBRL. Possible fracture-sidetrack, use Softrock Mudlogging	
KIRTLAND	3646	3559	<input type="checkbox"/>				
FRUITLAND	3753	3452	<input type="checkbox"/>				
PICTURED CLIFFS	4016	3189	<input type="checkbox"/>				
LEWIS	4154	3051	<input type="checkbox"/>				
Intermediate Casing	4254	2951	<input type="checkbox"/>			8-3/4" hole. 7" 20/23 ppf, J-55 STC/LTC casing. Cement with 958 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4604	2601	<input type="checkbox"/>				
CHACRA	5038	2167	<input type="checkbox"/>				
UPPER CLIFF HOUSE	5656	1549	<input type="checkbox"/>				
MASSIVE CLIFF HOUSE	5779	1426	<input type="checkbox"/>				
MENEFEE	5906	1299	<input type="checkbox"/>		1606'		
MASSIVE POINT LOOKOUT	6182	1023	<input type="checkbox"/>	800			
MANCOS	6228	977	<input type="checkbox"/>				
UPPER GALLUP	7383	-178	<input type="checkbox"/>				
GREENHORN	8167	-962	<input type="checkbox"/>	1800			
GRANEROS	8227	-1022	<input type="checkbox"/>				
TWO WELLS	8269	-1064	<input type="checkbox"/>				
UPPER CUBERO	8382	-1177	<input type="checkbox"/>				
LOWER CUBERO	8429	-1224	<input type="checkbox"/>			2' high to #71M	
OAK CANYON	8477	-1272	<input type="checkbox"/>				
ENCINAL	8497	-1292	<input type="checkbox"/>				
TD	8497	-1292	<input type="checkbox"/>			6-1/4" hole. 4-1/2", 10.5/11.6 J-55 STC/LTC casing. Cement with 578 cuft. Circulate cement a minimum of 100' inside the previous casing string.	

Reference Wells:		
Reference Type	Well Name	Comments

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 71E

DEVELOPMENT

Intermediate	SJ 27-4 Unit 138	SE 16-27n-04w
Intermediate	SJ 27-4 Unit 71M	SE 16 27n 04w

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 27N04W16SE2 - estimated bottom perf 8472

Zones - DK 27N04W16SE2

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT #71E

1,066' FSL, 1,600' FEL

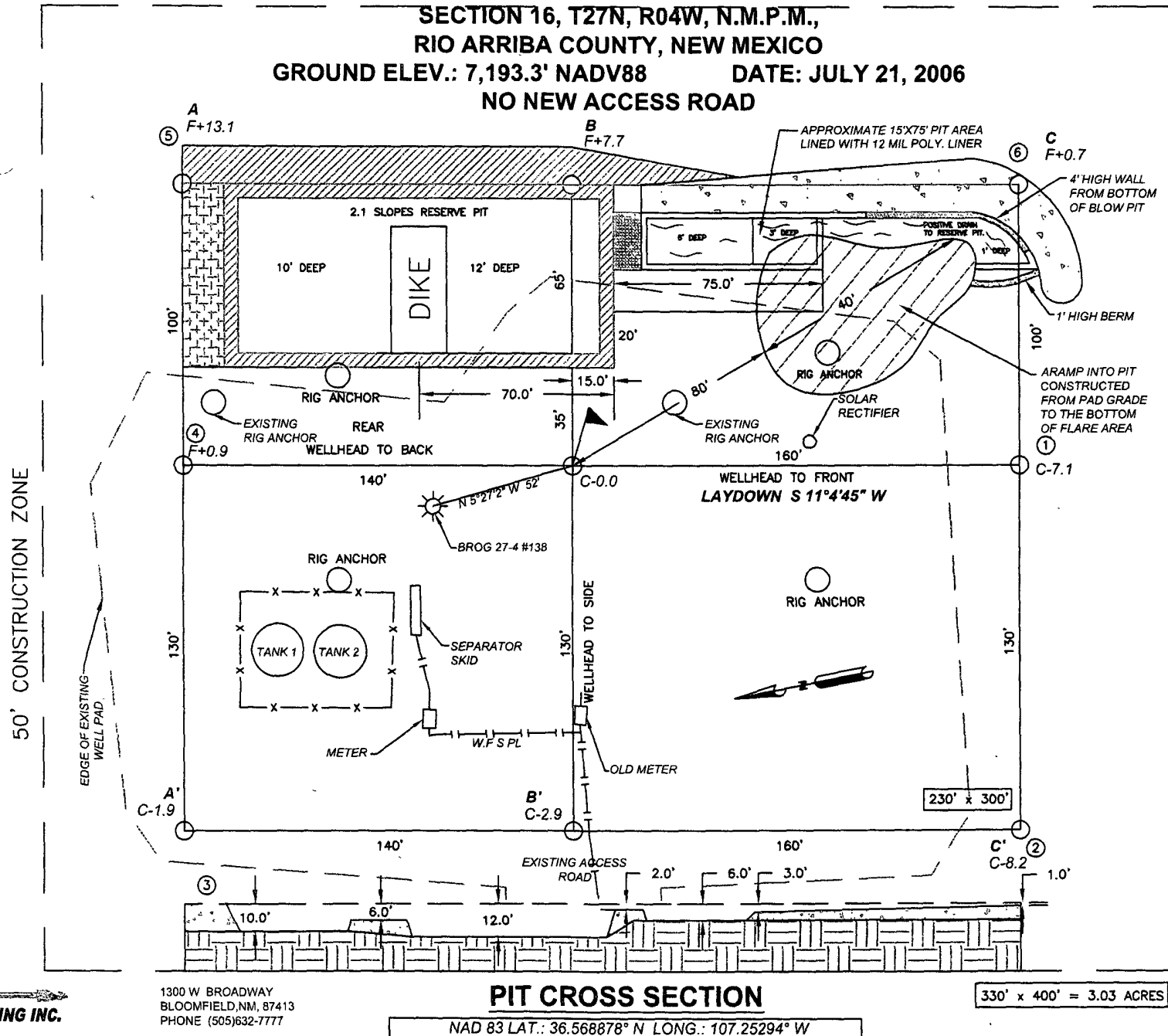
SECTION 16, T27N, R04W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND ELEV.: 7,193.3' NADV88

DATE: JULY 21, 2006

NO NEW ACCESS ROAD



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.

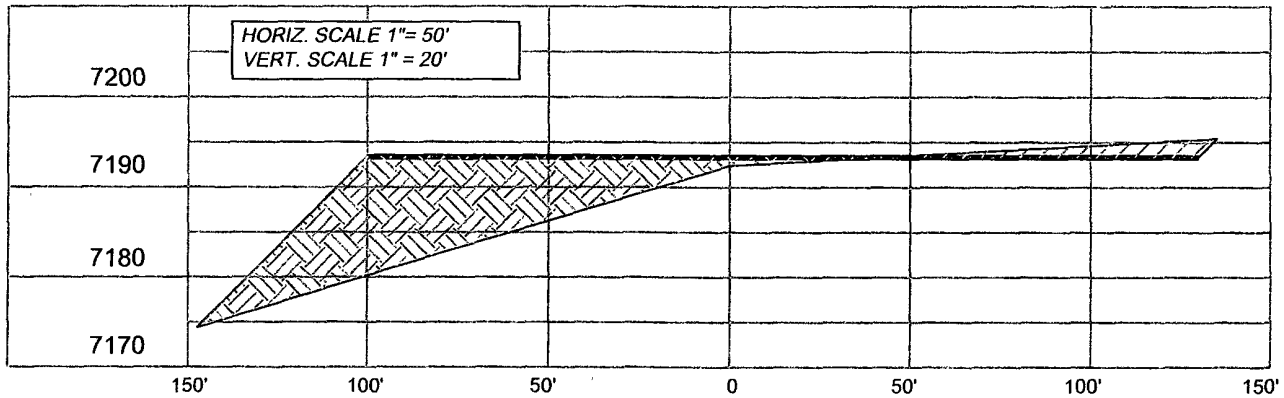
1300 W BROADWAY
BLOOMFIELD, NM, 87413
PHONE (505)632-7777

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT #71E
 1,066' FSL, 1,600' FEL
 SECTION 16, T27N, R04W, N.M.P.M.,
 RIO ARriba COUNTY, NEW MEXICO
 ELEV.: 7,193.3' NADV88
 NO NEW ACCESS ROAD

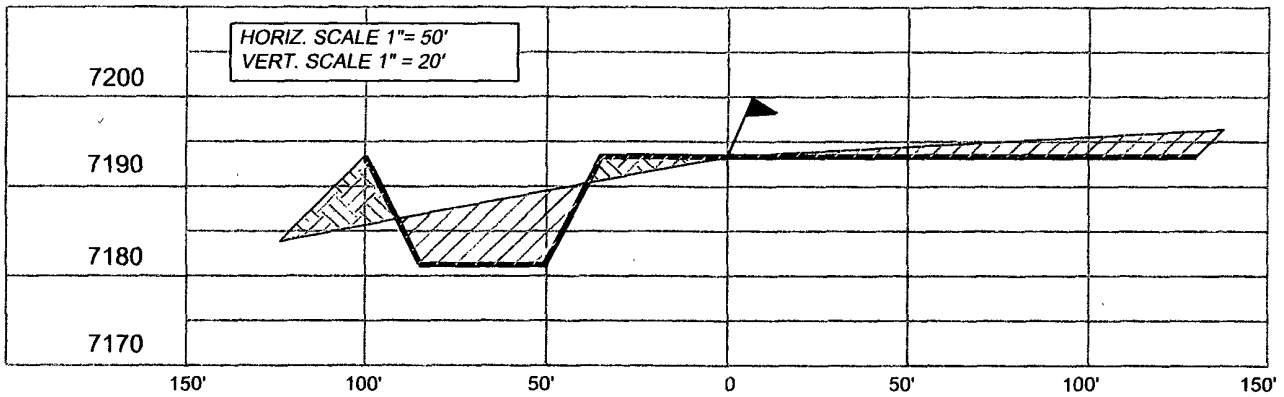
A - A'

C/L



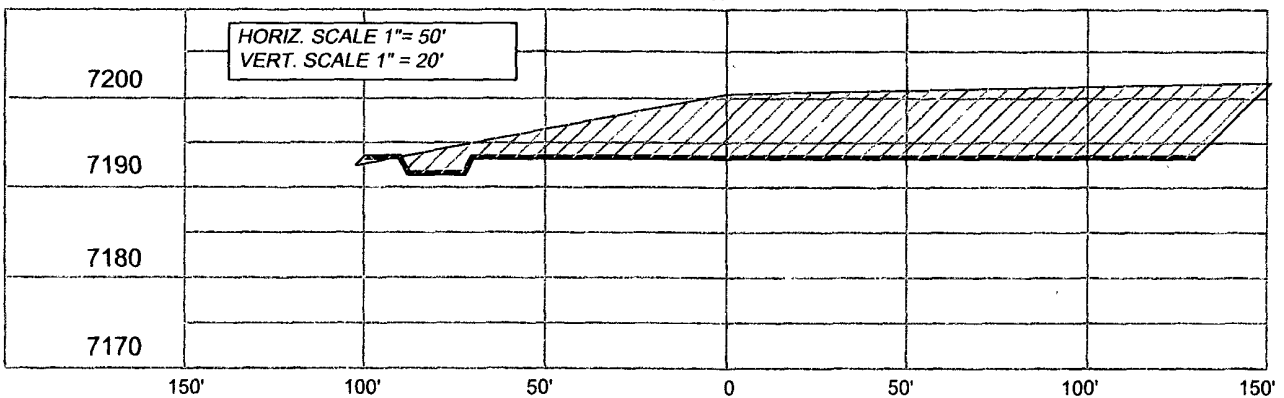
B - B'

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.