

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD APR 17 '08

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED FEB 14 2008 Bureau of Land Management Farmington Field Office	5. Lease Number USA SF - 080670 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 #52N
4. Location of Well Unit C (NENW), 1034' FNL & 1336' FWL Unit E (SWNW), 1945' FNL & 410' FWL Latitude 36.54863333 N. Longitude 107.278116667 W. Latitude 36.545987222 N. Longitude 107.281260556 W.		10. Field, Pool, Wildcat Blanco Mesaverde/Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) C Sec. 29, T27N, R4W E Sec. 29, T27N, R4W1/4C API # 30-039-30488
14. Distance in Miles from Nearest Town 60 Miles/Bloomfield, NM		12. County Rio Arriba
		13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1034'		
16. Acres in Lease 2564.720		17. Acres Assigned to Well MV/DK 320.0 (W/2)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 38' from San Juan 27-4 Unit 82M		
19. Proposed Depth 8446 This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4		20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 7190' GL		22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)		<u>2/13/08</u> Date

PERMIT NO.

APPROVAL DATE

APPROVED BY Wayne Louder

TITLE Acting AFM

DATE 2/16/08

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

Bond Numbers NMB-000015 and NMB-000089

HOLD C104 FOR Change of Status to
27-4 #52M

NMOCD B

APR 18 2008

AV

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

Hold C104

for Directional Survey
and "As Drilled" plat

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

FEB 14 2008

☐ AMENDED REPORT

Bureau of Land Management
WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-30488		2 Pool Code 71599/72319		3 Pool Name DAKOTA / MESA VERDE	
4 Property Code 7452		5 Property Name SAN JUAN 27-4 UNIT			6 Well Number 52N
7 OGRID No. 14538		8 Operator Name BURLINGTON OIL AND GAS COMPANY LP			9 Elevation 7,190.4'

10 SURFACE LOCATION

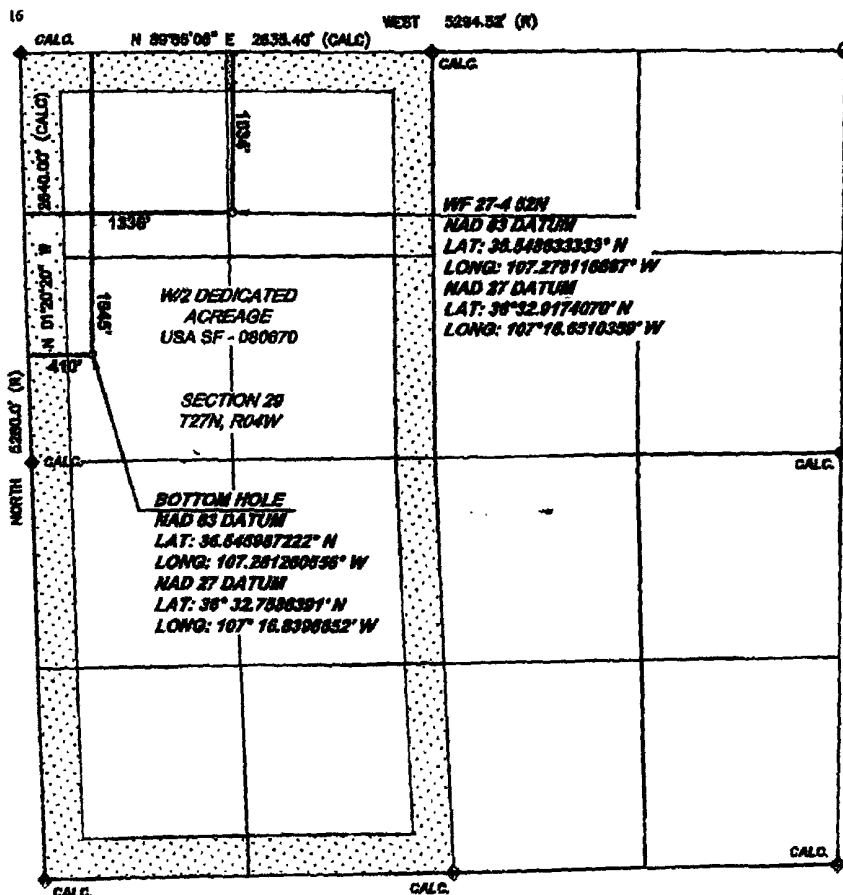
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	29	27-N	04-W		1034	NORTH	1338	WEST	RIO ARriba

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
E	29	27-N	04-W		1945	NORTH	410	WEST	RIO ARriba

12 Dedicated Acres 320.0 W/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 of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jamie Goodwin
Signature

Jamie Goodwin
Printed Name

Regulatory Tech.
Title and E-mail Address

02/12/2008
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: 9/25/06
Signature and Seal of Professional Surveyor



Certificate Number: NM 11383

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

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-103

May 27, 2004

WELL API NO.

30-039- 30488

5. Indicate Type of Lease

STATE ☐

FEE ☐

6. State Oil & Gas Lease No.

USA SF-080670

7. Lease Name or Unit Agreement Name

San Juan 27-4 Unit

8. Well Number

52N

9. OGRID Number

14538

10. Pool name or Wildcat

Blanco Mesaverde / 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 : 1034' feet from the North line and 1336' feet from the West line
Section 29 Township 27N Rng 4W NMPM County Rio Arriba

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

7190'

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 ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

P AND A ☐

CASING/CEMENT JOB ☐

OTHER:

New Drill Pit

☒

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

12/11/2007

Type or print name

Sasha Spangler

E-mail address: spangs@conocophillips.com

Telephone No. 505-326-9700

For State Use Only

Deputy Oil & Gas Inspector,

District #3

APPROVED BY

[Signature]

TITLE

DATE

APR 18 2008

Conditions of Approval (if any):

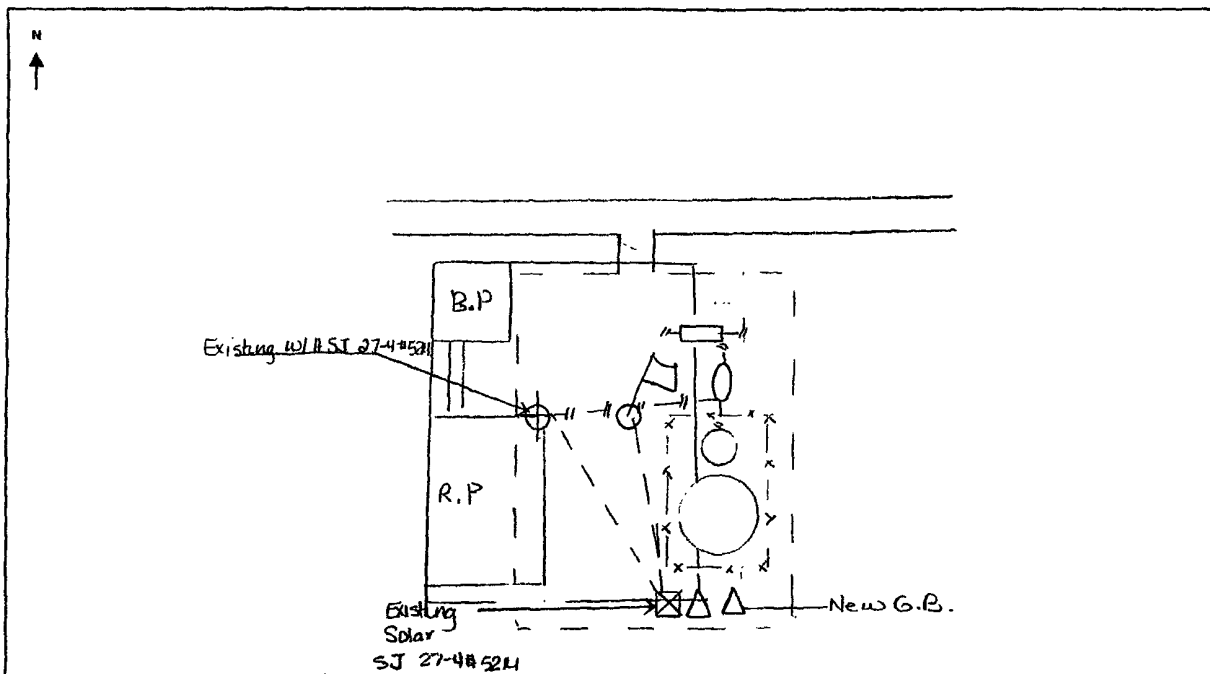


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME S.J. 27-4 #52N LEGALS C-29-27-4 COUNTY Rio Arriba

PURPOSED C.P. SYSTEM: Drill G.B. on east side of already existing grounded and water
CP system. Trench approx 200' of #9 neg cable from existing solar to new wellhead. Make sure
existing solar is two well; not upgrade to two well.



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

COMMENTS: _____

NEAREST POWER SOURCE N/A DISTANCE: _____

PIPELINES IN AREA: (Location)

TECHNICIAN: H. Schell / H. Lopez DATE: 11/3/04

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

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 27-4 UNIT 52N

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7187/7192MV		AFE \$:	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: XXX Deferred PDT		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:	
				Phone:	

Primary Objective (Zones):	
Zone	Zone Name
R20076	DAKOTA(R20076)
RON	BLANCO MESAVERDE (PRORATED GAS)

Location: Surface Datum Code: NAD 27 Deviated

Latitude: 36.548623	Longitude: -107.277517	X:	Y:	Section: 29	Range: 004W
Footage X: 1336 FWL	Footage Y: 1034 FNL	Elevation: 7190	(FT)	Township: 027N	

Tolerance:

Location: Bottom Hole Datum Code: NAD 27 Deviated

Latitude: 36.545977	Longitude: -107.280661	X:	Y:	Section: 29	Range: 004W
Footage X: 410 FWL	Footage Y: 1945 FNL	Elevation:	(FT)	Township: 027N	

Tolerance:

Location Type: Restricted	Start Date (Est.): 1/1/2020	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 7202 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	215	6987	☐			12-1/4" hole, 9-5/8" 32.3 ppf, H-40, STC casing. Cement w/ 210 cu. ft. Circulated Cmt to surface. 2
OJAM	3442	3760	☐			Possible water flows.
KRLD	3616	3586	☐			
FRLD	3773	3429	☐			Possible gas.
PCCF	4021	3181	☐			
LEWS	4152	3050	☐			
Intermediate Casing	MD-4518 TVD - 4252	2684	☐			8-3/4" hole. 7", 23.0 ppf, L-80, LT&C casing. Cement with 1017 cu. ft. Circulate cement to surface.
HURF	4534	2668	☐			
CHRA	4971	2231	☐			
UCLFH	5590	1612	☐			
CLFH	5717	1485	☐			Gas; possibly wet
MENF	5857	1345	☐			Gas.
PTLK	6210	992	☐	800		Gas.
MNCS	6645	557	☐			
GLLP	7344	-142	☐			Gas. Possibly wet.
GRHN	8140	-938	☐	1200		Gas possible, highly fractured
GRRS	8200	-998	☐			
TWLS	8226	-1024	☐			Gas
PAGU	8341	-1139	☐			Gas. Highly Fractured.
CBBO	8357	-1155	☐			Gas
CBRL	8406	-1204	☐			Gas
OKCN	8426	-1224	☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 52N

DEVELOPMENT

Total Depth	8446	-1244	☐	6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LT&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.
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TD	8446	-1244	☐	20 feet into OKCN
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Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

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

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Mudlog to TD from 100' above Greenhorn - mudlogger will call TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #52N
Company:	ConocoPhillips SJBU	TVD Reference:	Generic Rig KB @ 7206 0ft (Genenc Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig KB @ 7206 0ft (Genenc Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #52N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #52N		
Design:	APD Directional Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,669.8	8,406.0	Lower Cubero		0.00		
5,980.8	5,717.0	Mass. Cliffhouse		0.00		
4,415.8	4,152.0	Lewis		0.00		
4,797.8	4,534.0	Huerfanito Bentonite		0.00		
7,607.8	7,344.0	Gallup		0.00		
8,620.8	8,357.0	Upper Cubero		0.00		
8,463.8	8,200.0	Graneros		0.00		
6,473.8	6,210.0	Pt. Lookout		0.00		
5,234.8	4,971.0	Chacra		0.00		
3,867.5	3,616.0	Kirtland		0.00		
8,604.8	8,341.0	Paguate		0.00		
5,853.8	5,590.0	Upper Cliffhouse		0.00		
3,679.3	3,442.0	Ojo Alamo		0.00		
8,403.8	8,140.0	Greenhorn		0.00		
8,689.8	8,426.0	Oak Canyon		0.00		
8,709.8	8,446.0	TD		0.00		
	8,510.0	Encinal		0.00		
6,908.8	6,645.0	Mancos Shale		0.00		
6,120.8	5,857.0	Menefee		0.00		
4,284.3	4,021.0	Pictured Cliffs		0.00		
4,031.7	3,773.0	Fruitland		0.00		
8,489.8	8,226.0	Two Wells		0.00		

SAN JUAN 27-4 UNIT #52N

1,034' FNL, 1,336' FWL

**SECTION 29, T27N, R04W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO**

NO NEW ACCESS

GROUND ELEV.: 7,190.8' NAVD88 DATE: JULY 12, 2006



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.

◎◎◎

CHENAULT CONSULTING INC.

1300 W. BROADWAY
BLOOMFIELD, NM, 87413
PHONE: (505) 832-7777

PIT CROSS SECTION

NAD 83 LAT.: 36.548633333° N LONG.: 107.278116667° W

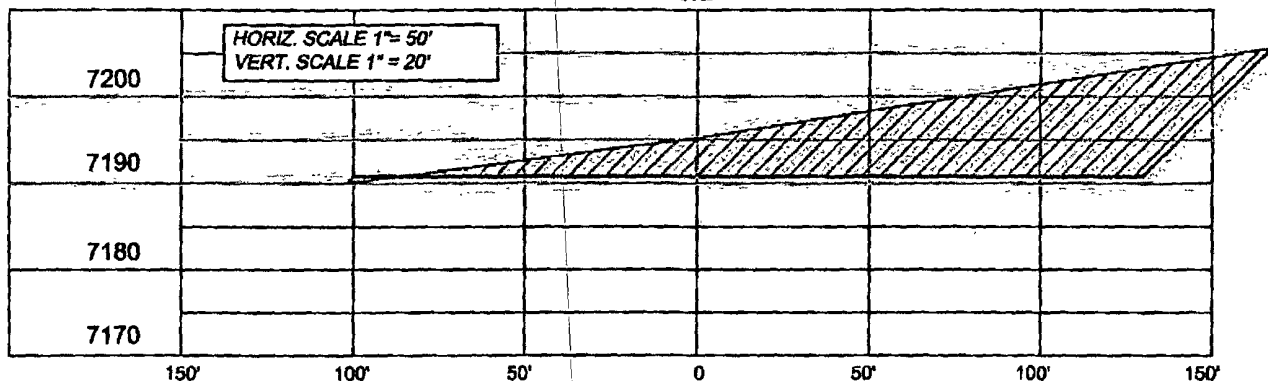
330' x 400' = 3.03 ACRES

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT #52N
 1,034' FNL, 1,336' FWL
 SECTION 29, T27N, R04W, N.M.P.M.,
 RIO ARriba COUNTY, NEW MEXICO
 ELEV.: 7,190.8' NAVD88

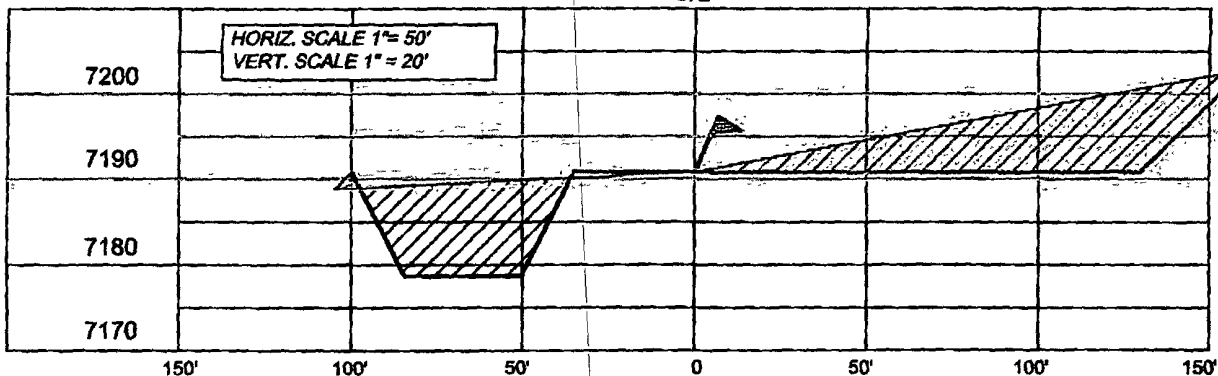
A - A'

C/L



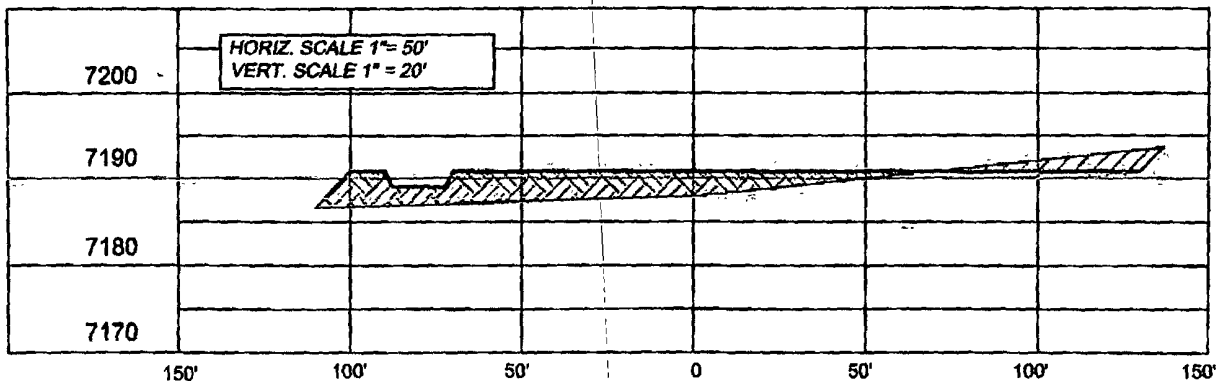
B - B'

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) 832-7777

CHENAULT CONSULTING INC.