

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 NM-03862
1b. Type of Well GAS	6. If Indian, All. or Tribe NM NM-78410A-MV
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 28-4 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name
4. Location of Well Surf: Unit K (NESW), 1860' FSL & 1945' FWL BH: Unit L (NWSW), 1970' FSL & 750' FWL Surf: Latitude 36° 38.6301408 N Longitude 107° 17.5883303 W BH: Latitude 36° 38.683116 N Longitude 107° 17.870400 W	9. Well Number #27M 10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) "K" Sec. 19, T28N, R4W API # 30-039-36378
14. Distance in Miles from Nearest Town 43 mile/Blanco	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 750'	13. State NM
16. Acres in Lease 1917	17. Acres Assigned to Well MV/DK 319.38 (S/2)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease	19. Proposed Depth 8764' TVD/8988' TMD
20. Rotary or Cable Tools Rotary	21. Elevations (DF, FT, GR, Etc.) 7349' GL 7346
22. Approx. Date Work Will Start	23. Proposed Casing and Cementing Program See Operations Plan attached
24. Authorized by: Rhonda Rogers (Regulatory Technician)	25. Date 9-25-07

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

Bond Numbers NMB-000Q15 and NMB-000089

NMOC

JAN 08 2008

as drilled 2-103

This action is subject to technical and procedural review pursuant to 43 CFR 3165 and appeal pursuant to 43 CFR 3165.4

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

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

SEP 25 2007

Bureau of Land Management
Farmington Field Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 30378	² Pool Code 72319/71599	³ Pool Name MESA VERDE / DAKOTA
⁴ Property Code 7459	⁵ Property Name SAN JUAN 28-4 UNIT	⁶ Well Number 27M
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 7345.7'

¹⁰ SURFACE LOCATION

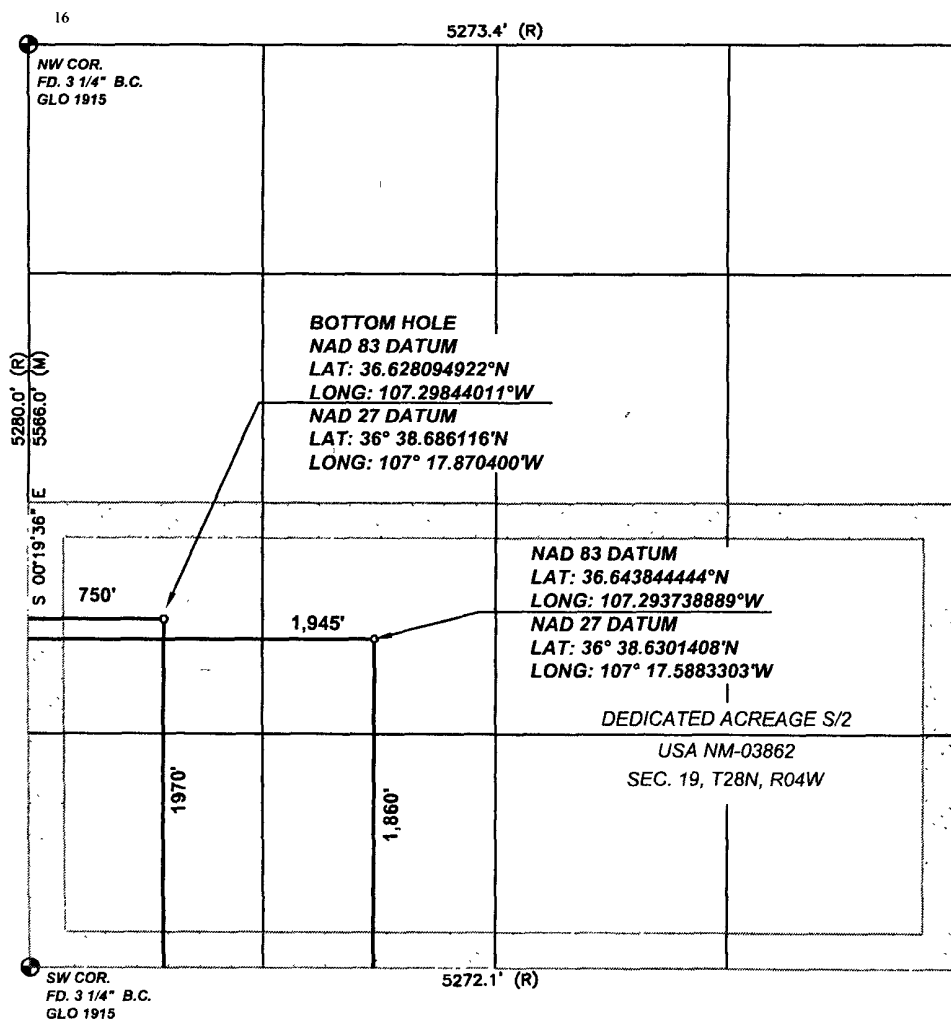
UL or lot no. K	Section 19	Township 28N	Range 04N	Lot Idn	Feet from the 1860	North/South line SOUTH	Feet from the 1945	East/West line WEST	County RIO ARRIBA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. L	Section 19	Township 28N	Range 04W	Lot Idn	Feet from the 1970	North/South line SOUTH	Feet from the 750	East/West line WEST	County RIO ARRIBA
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¹² Dedicated Acres 319.38	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 Technician

Title and E-mail Address

December 12 2006

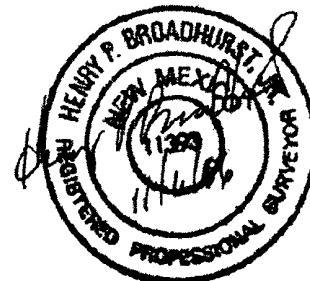
Date

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: 9/13/06

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

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1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-039-30378

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

Federal Lease #USA NM-03862

7. Lease Name or Unit Agreement Name

San Juan 28-4 Unit

8. Well Number

#27M

9. OGRID Number

14538

10. Pool name or Wildcat

Blanco MV/Basin DK

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 K : 1860' feet from the South line and 1945' feet from the West line
Section 19 Township 28N Rng 4W NMPM County Rio Arriba

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

7346'

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type

New Drill

Depth to Groundwater

<50

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

☒

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

Rhonda Rogers

TITLE

Regulatory Technician

DATE

9-24-07

Type or print name

Rhonda Rogers

E-mail address:

rogers@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

Deputy Oil & Gas Inspector,

District #3

APPROVED BY

[Signature]

TITLE

DATE

JAN 08 2008

Conditions of Approval (if any):

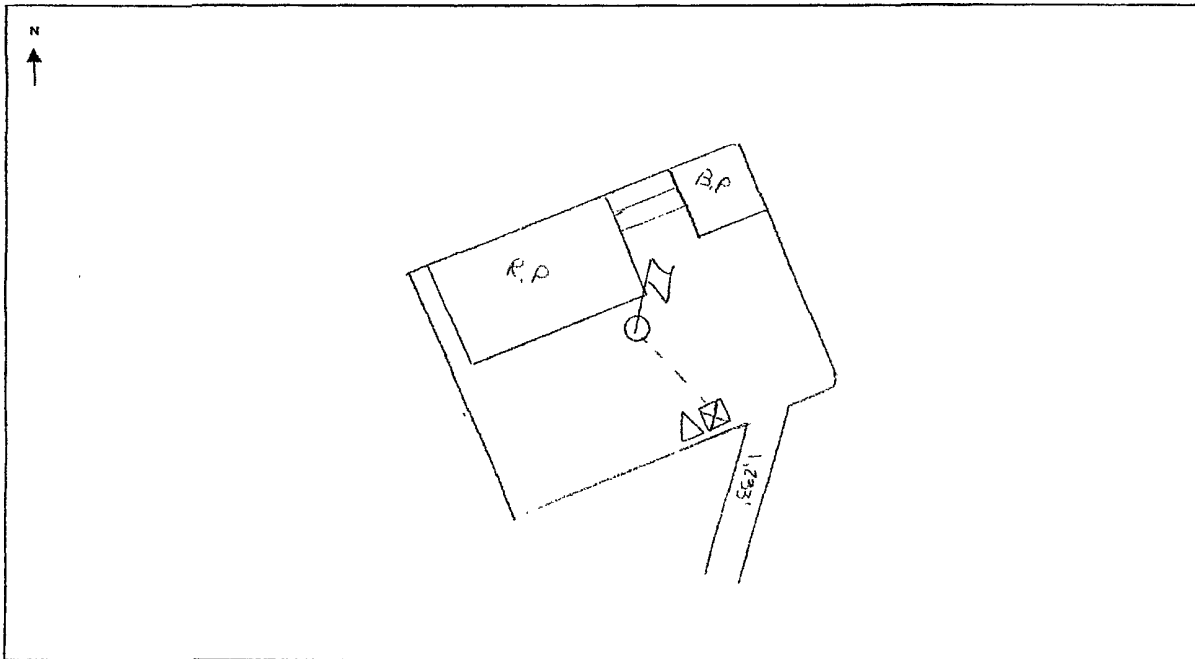


TECHNICAL SERVICE
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME S.J. 28-4 * 27M LEGALS K-19-28-4 COUNTY Rio Arriba

PURPOSED C.P. SYSTEM: Drill G.B. and set solar on southeast edge of location. Trench approx. 250' at #8 neg. cable from solar to well head.



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

COMMENTS: _____

NEAREST POWER SOURCE N/A DISTANCE: _____

PIPELINES IN AREA: N/A

TECHNICIAN: Mike Hargis DATE: 11/21/2006

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 28-4 UNIT 27M

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7221/7222DK				AFE \$:	
Field Name: hBR_SAN JUAN 28-4 UNIT		Rig: Aztec Rig 673		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						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface		Datum Code: NAD 27				Deviated	
Latitude: 36.643835	Longitude: -107.293139	X:	Y:	Section: 19	Range: 004W		
Footage X: 1945 FWL	Footage Y: 1860 FSL	Elevation: 7349	(FT)	Township: 028N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Deviated	
Latitude: 36.644769	Longitude: -107.297840	X:	Y:	Section: 19	Range: 004W		
Footage X: 750 FWL	Footage Y: 1970 FSL	Elevation:	(FT)	Township: 028N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7361 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
SURFACE CSG	216	7145	☐			12-1/4" hole, 9-5/8" 32.3 ppf, H-40, STC casing. Cement w/ 203 cuft. Circulate Cmt to surface.	
OJAM	3614	3747	☐			Possible water flows.	
KRLD	3824	3537	☐				
FRLD	3948	3413	☐			Possible gas.	
PCCF	4310	3051	☐				
LEWS	4492	2869	☐				
Intermediate Casing	4592	2769	☐			8 3/4" hole. 7" 20/23 ppf J-55, STC casing. Circulate cement to surface. Cement with 1075 cu.ft.	
HURF	4945	2416	☐				
CHRA	5298	2063	☐				
UCLFH	5903	1458	☐				
CLFH	6113	1248	☐			Gas; possibly wet	
MENF	6167	1194	☐			Gas.	
PTLK	6472	889	☐			Gas.	
MNCS	7064	297	☐				
GLLP	7680	-319	☐			Gas. Possibly wet.	
GRHN	8444	-1083	☐			Gas possible, highly fractured	
GRRS	8496	-1135	☐				
TWLS	8566	-1205	☐			Gas	
CBBO	8634	-1273	☐			Gas	
CBRL	8686	-1325	☐			7' deep to #27A	
OKCN	8742	-1381	☐				
ENCN	8764	-1403	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-4 UNIT 27M

DEVELOPMENT

TD	8764	-1403	☐	2000	6-1/4" Hole. 4-1/2", 10.5/11.6 ppf, J-55 STC/LTC casing. Cement with 568 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments
Production	28-4 #27	SW 19-28N-4W
Production	28-4 #27A	SE 19-28N-4W
Production	28-4 #37	NW 29-28N-4W

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
Cased Hole Gamma-CBL	
Mudlog to TD from 100' above Greenhorn - mudlogger will call TD.	

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Comments: Location/Tops/Logging - DK 28N04W19SW2 AND MVNM028N004W19SW2 offsets SJ 28-4 #27 & 27A 19-28N-4W, 28-4 #37 NE 29-28N-4W

Zones - DK 28N04W19SW2 AND MVNM028N004W19SW2

General/Work Description - Directional Drill - Forest Well

ConocoPhillips or its affiliates

Survey Report

Company:	ConocoPhillips Lower 48	Local Co-ordinate Reference:	Well SJ 28-4 #27M
Project:	San Juan Basin	TVD Reference:	WELL @ 7361.0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	MD Reference:	WELL @ 7361.0ft (Original Well Elev)
Well:	SJ 28-4 #27M	North Reference:	True
Wellbore:	SJ 28-4 #27M	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM Central Planning

Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
Shape		(d)	(d)	(ft)	ft	ft	(m)	(m)	Longitude
SJ 28-4 #27M - PCP	- plan hits target	0 00	0 00	8,764 0	110.0	-1,195.0	38.76	-363.79	30° 59' 25 601" N
- Point									109° 25' 57 822" W
SJ 28-4 #27M - ICP	- plan hits target	0.00	0.00	4,592.0	110.0	-1,195.0	38.76	-363.79	30° 59' 25 601" N
- Point									109° 25' 57.822" W

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(d)	(d)	
3,797.5	3,614 0	Ojo Alamo		0 00		
4,025.9	3,824.0	Kirtland		0 00		
4,159.3	3,948.0	Fruitland		0 00		
4,533.2	4,310 0	Pictured Cliffs		0 00		
4,716.2	4,492.0	Lewis		0 00		
5,169.2	4,945.0	Huerf. Bent		0 00		
5,522.2	5,298.0	Chacra		0 00		
6,127.2	5,903.0	Upper Cliffhouse		0 00		
6,337.2	6,113 0	Mass Cliffhouse		0 00		
6,391.2	6,167 0	Menefee		0 00		
6,696.2	6,472.0	Pt. Lookout		0 00		
7,288.2	7,064 0	Mancos Shale		0 00		
7,904.2	7,680.0	Gallup		0 00		
8,668.2	8,444 0	Greenhorn		0 00		
8,720.2	8,496.0	Graneros		0 00		
8,790.2	8,566 0	Two Wells		0 00		
8,858.2	8,634.0	Upper Cubero		0 00		
8,910.2	8,686.0	Lower Cubero		0 00		
8,966.2	8,742.0	Oak Canyon		0 00		
8,988.2	8,764 0	TD		0 00		
8,988.2	8,764 0	Encinal		0 00		

Checked By: _____ Approved By: _____ Date: _____

ACCESS ROAD 1,742'



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.

330' x 400' = 3.03 ACRES

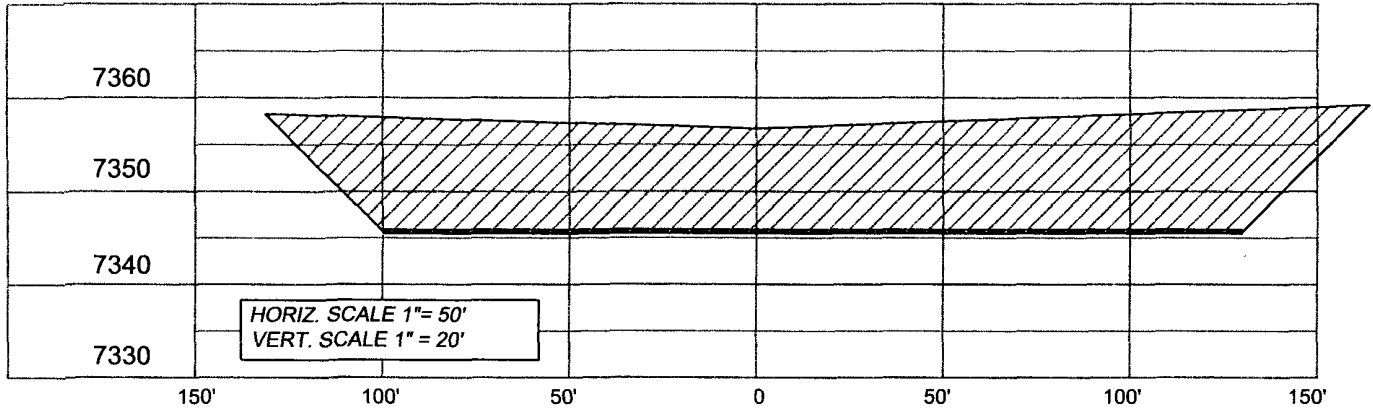
NAD 83 LAT.: 36.643844444°N / LONG.: 107.293738889°W

BURLINGTON RESOURCES OIL AND GAS COMPANY

SAN JUAN 28-4 UNIT 27M
 1,860' FSL, 1,945' FWL
 SECTION 19, T28N, R04W, N.M.P.M.,
 RIO ARriba COUNTY, NEW MEXICO
 ELEV.: 7,345.7' NAVD88

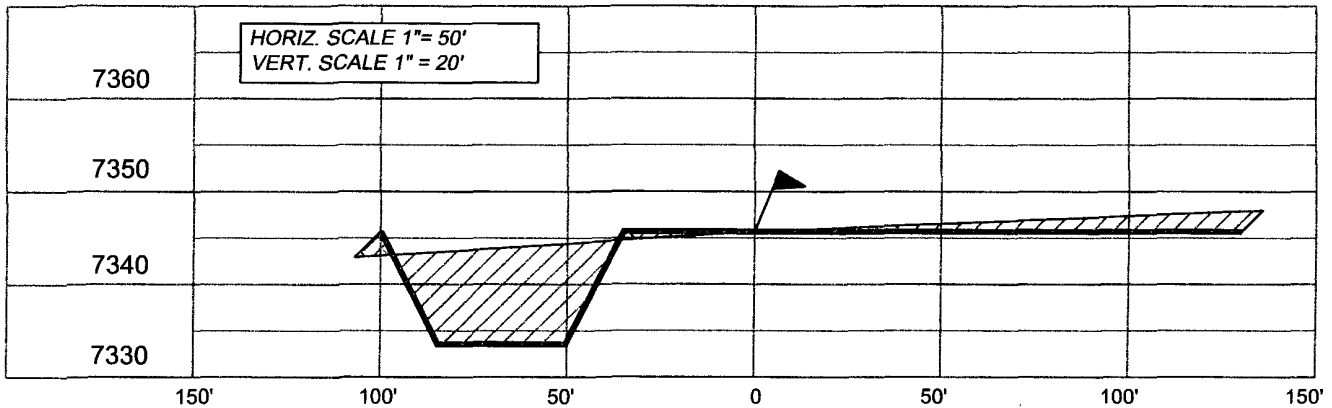
A - A'

C/L



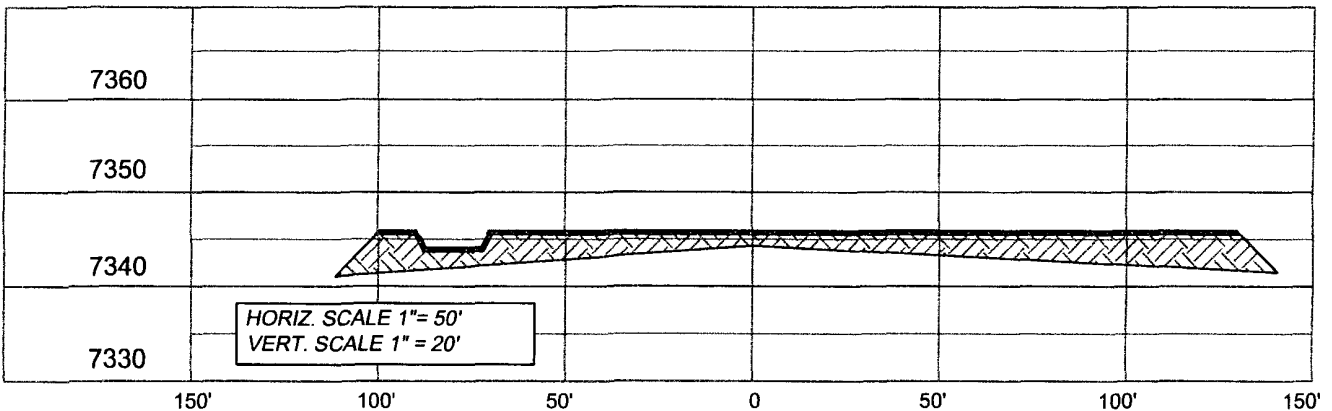
B - B'

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.