

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	5. Lease Number SF-080675 Unit Reporting Number RCVD MAR 18 '08	
1b. Type of Well GAS	6. If Indian, All. or Tribe OIL CONS. DIV.	
2. Operator <b>BURLINGTON</b> RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name DIST. 3 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	
4. Location of Well Surface - Unit I (NESE), 1375' FSL & 645' FEL, BH - Unit O (SWSE), 1215' FSL & 1825' FEL, Latitude 36.540509'N Longitude 107.235625'W	9. Well Number #132M 10. Field, Pool, Wildcat Basin DK / Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) I Sec. 27, T27N, R4W API # 30-039- 30441	
14. Distance in Miles from Nearest Town Blanco, NM/48.9 Miles	12. County Rio Arriba,	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1215'	17. Acres Assigned to Well MV/DK - 320 E/2	
16. Acres in Lease 2400 Acres	20. Rotary or Cable Tools Rotary	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 103' from SJ 27-4 #132A	22. Approx. Date Work will Start	
19. Proposed Depth 8523' TUD 8736' TMD		
21. Elevations (DF, FT, GR, Etc.) 7221' GL		
23. Proposed Casing and Cementing Program See Operations Plan attached	NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT	
24. Authorized by: <i>Patsy Clugston</i> Patsy Clugston, Regulatory Specialist	Date	

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY *[Signature]* TITLE *Asst* DATE *3/14/08*

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 Directional Survey  
and "As Drilled" plat

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.8  
and appeal pursuant to 43 CFR 3165.4

MAR 24 2008  
AV

NMOCD

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

STRICT I  
25 N. French Dr., Hobbs, N.M. 88240

STRICT II  
109 West Grand Avenue, Artesia, N.M. 88210

STRICT III  
900 Rio Brazos Rd., Aztec, N.M. 87410

STRICT IV  
220 S. St. Francis Dr., Santa Fe, NM 87506

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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

JAN 22 2008

Bureau of Land Management  
Farmington Field Office

Form C-102  
Revised October 12, 2005

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

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30471	*Pool Code 12317/11599	*Pool Name Basin DAKOTA/MESAVERDE
*Property Code 7452	*Property Name SAN JUAN 27-4 UNIT	*Well Number 132M
*OCRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	*Elevation 7221'

#### 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
I	27	27-N	4-W		1375'	SOUTH	645'	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	27	27-N	4-W		1215'	SOUTH	1825'	EAST	RIO ARriba
Dedicated Acres 320.00 E/2			Joint or Infill		Consolidation Code		Order No.		

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

<p>16</p>		<p>17 OPERATOR CERTIFICATION</p> <p>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 undivided 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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Rhonda Rogers</i> Signature Rhonda Rogers Printed Name</p>	
		<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>8-17-07 Date of Survey GLEN W. RUSSELL Signature GLEN W. RUSSELL Certificate Number 15703</p>	

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

## Energy, Minerals and Natural Resources

## OIL CONSERVATION DIVISION

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

May 27, 2004

WELL API NO.

30-039-30471

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil &amp; Gas Lease No.

Federal Lease - SF-080675

7. Lease Name or Unit Agreement Name

San Juan 27-4 Unit

8. Well Number

#132M

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Dakota / Blanco Mesaverde

**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 &amp; GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter I : 1375' feet from the South line and 645' feet from the East line  
 Section 27 Township 27N Rng 4W NMPM County Rio Arriba

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

7221' GL

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type

New Drill

Depth to Groundwater

&lt;50'

Distance from nearest fresh water well

&gt;1000'

Distance from nearest surface water

&gt;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 ☐TEMPORARILY ABANDON ☐PULL OR ALTER CASING ☐PLUG AND ABANDON ☐CHANGE PLANS ☐MULTIPLE COMPL ☐

OTHER:

New Drill Pit

☒

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING/CEMENT JOB ☐ALTERING CASING ☐P AND A ☐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

TITLE

Regulatory Specialist

DATE

1/21/2008

Type or print name

Patsy Clugston

E-mail address:

clugspl@conocophillips.com

Telephone No.

505-326-9518

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,  
District #3

DATE

MAR 24 2008

Conditions of Approval (if any):

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 132M

DEVELOPMENT

Lease:		AFE #: WAN.ZA0.7001/7002MV				AFE \$:	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: Aztec Rig 673		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Pippin, Eddie A		Phone: 505-326-9780		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		Proj. Field Lead:		Phone:	
<b>Primary Objective (Zones):</b>							
<b>Zone</b>	<b>Zone Name</b>						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
<i>Directional</i>							
<b>Location: Surface Datum Code: NAD 27</b>							
Latitude: 36.540942	Longitude: -107.231007	X:	Y:	Section: 27		Range: 004W	
Footage X: 645 FEL	Footage Y: 1375 FSL	Elevation: 7221 (FT)		Township: 027N			
Tolerance:							
<i>Directional</i>							
<b>Location: Bottom Line Datum Code: NAD 27</b>							
Latitude: 36.540499	Longitude: -107.235027	X:	Y:	Section: 27		Range: 004W	
Footage X: 1825 FEL	Footage Y: 1215 FSL	Elevation:		(FT) Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7237 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	7037	<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 170 cu. ft. Circulate cement to surface.	
OJAM	3523	3714	<input type="checkbox"/>				
KRLD	3686	3551	<input type="checkbox"/>				
FRLD	3734	3503	<input type="checkbox"/>			Possible Gas	
PCCF	4093	3144	<input type="checkbox"/>				
LEWS	4333	2904	<input type="checkbox"/>				
Intermediate Casing	4433	2804	<input type="checkbox"/>			8 3/4" Hole. 7", 23 ppf, L-80, LTC casing. Cement with 1046 cu. ft. Circulate cement to surface.	
HUERFANITO BENTONITE	4573	2664	<input type="checkbox"/>				
CHRA	5033	2204	<input type="checkbox"/>				
UCLFH	5654	1583	<input type="checkbox"/>			Gas	
MASSIVE CLIFF HOUSE	5773	1464	<input type="checkbox"/>	468		Gas	
MENF	5909	1328	<input type="checkbox"/>				
PTLK	6233	1004	<input type="checkbox"/>				
MNCS	6750	487	<input type="checkbox"/>				
GLLP	7384	-147	<input type="checkbox"/>				
GRHN	8193	-956	<input type="checkbox"/>				
GRRS	8252	-1015	<input type="checkbox"/>				
TWLS	8283	-1046	<input type="checkbox"/>	1800		Gas	
PAGU	8378	-1141	<input type="checkbox"/>				
CBRO	8409	-1172	<input type="checkbox"/>				
CBRL	8453	-1216	<input type="checkbox"/>				

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

**SAN JUAN 27-4 UNIT 132M**

**DEVELOPMENT**

Total Depth	8523	-1286	<input type="checkbox"/>	6-1/4" hole, 4-1/2", 11.6 ppf, L-80, LTC casing. Cement w/ 557 cu. ft. Circulate cement a minimum of 100' inside the previous casing string. Cased hole TDT with GR to surface.
ENCINAL	8523	-1286	<input type="checkbox"/>	TD T/ENCN

## Reference Wells:

Reference Type	Well Name	Comments
Production	27-4 132N	SENE 27-27N-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 27N04W27SE2 and MVNM027N004W27SE2

Zones - DK 27N04W27SE2 and MVNM027N004W27SE2

General/Work Description - 5/7/07-is economic as DD if needed wfp  
NO LEWIS

# ConocoPhillips or its affiliates

## Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #132M
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig RKB @ 7236.0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig RKB @ 7236.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #132M	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #132M		
Design:	APD Directional Plan		

### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
215.0	215.0	9 5/8"	9.625	12.250
4,646.0	4,433.0	7"	7.000	8.750
8,735.9	8,522.9	4 1/2"	4.500	6.250

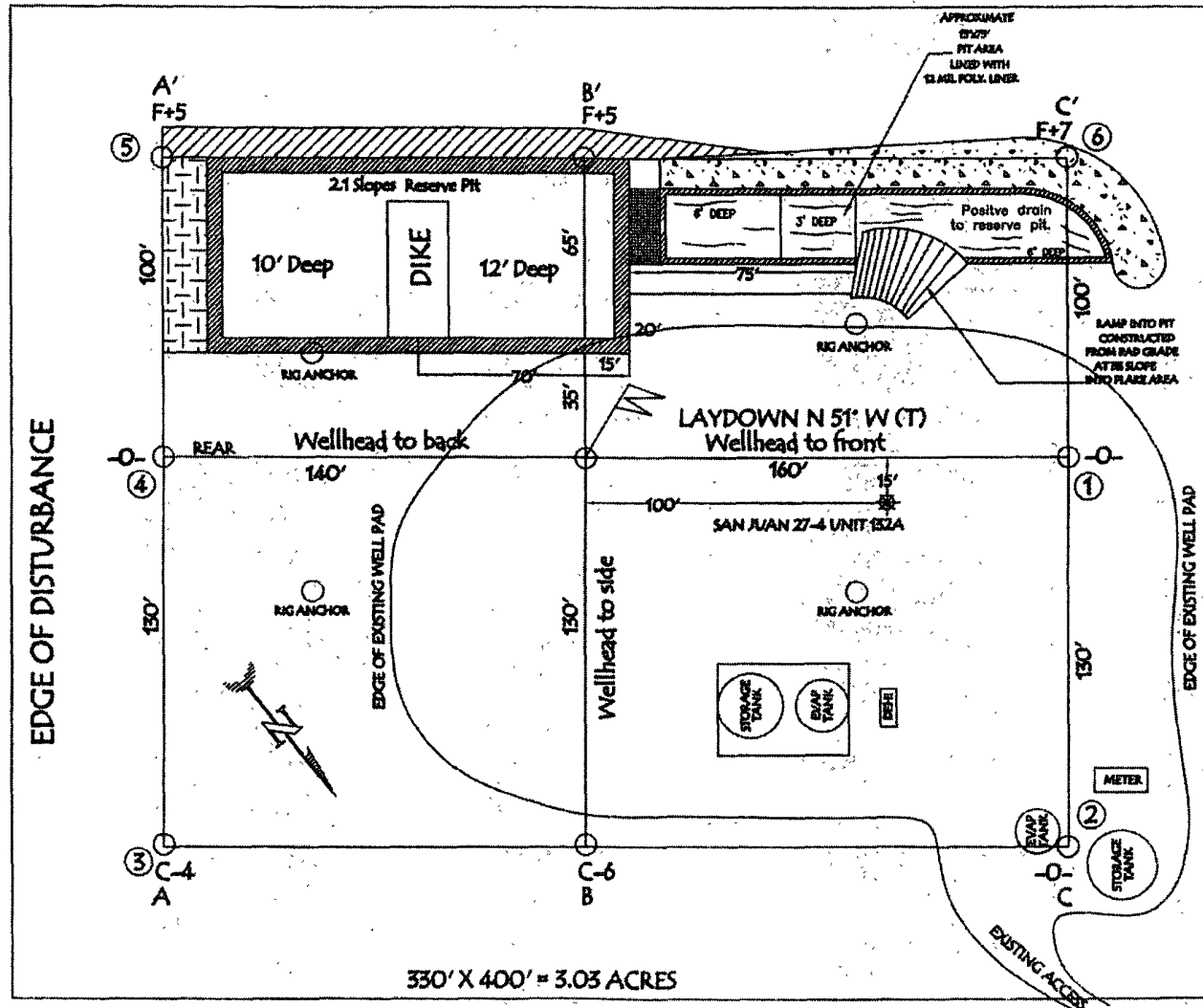
### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)
3,719.9	3,523.0	Ojo Alamo		0.00	
3,890.2	3,686.0	Kirtland		0.00	
3,939.9	3,734.0	Fruitland		0.00	
4,305.2	4,093.0	Pictured Cliffs		0.00	
4,546.0	4,333.0	Lewis		0.00	
4,786.0	4,573.0	Huerfano Bentonite		0.00	
5,246.0	5,033.0	Chacra		0.00	
5,867.0	5,654.0	Upper Cliffhouse		0.00	
5,986.0	5,773.0	Mass Cliffhouse		0.00	
6,122.0	5,909.0	Menefee		0.00	
6,446.0	6,233.0	Pt Lookout		0.00	
6,963.0	6,750.0	Mancos Shale		0.00	
7,597.0	7,384.0	Gallup		0.00	
8,406.0	8,193.0	Greenhorn		0.00	
8,465.0	8,252.0	Graneros		0.00	
8,496.0	8,283.0	Two Wells		0.00	
8,591.0	8,378.0	Paguate		0.00	
8,622.0	8,409.0	Upper Cubero		0.00	
8,666.0	8,453.0	Lower Cubero		0.00	
8,736.0	8,523.0	Encinal		0.00	
8,736.0	8,523.0	TD		0.00	



**BURLINGTON RESOURCES OIL & GAS COMPANY LP**  
**SAN JUAN 27-4 UNIT 132M, 1375' FSL & 645' FEL**  
**SECTION 27, T-27-N, R-4-W, NMPM, RIO ARriba COUNTY, NM**  
**GROUND ELEVATION: 7221', DATE: JULY 27, 2007**

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



LATITUDE: 36° 32.4565' N LONGITUDE: 107° 13.8604' W NAD27

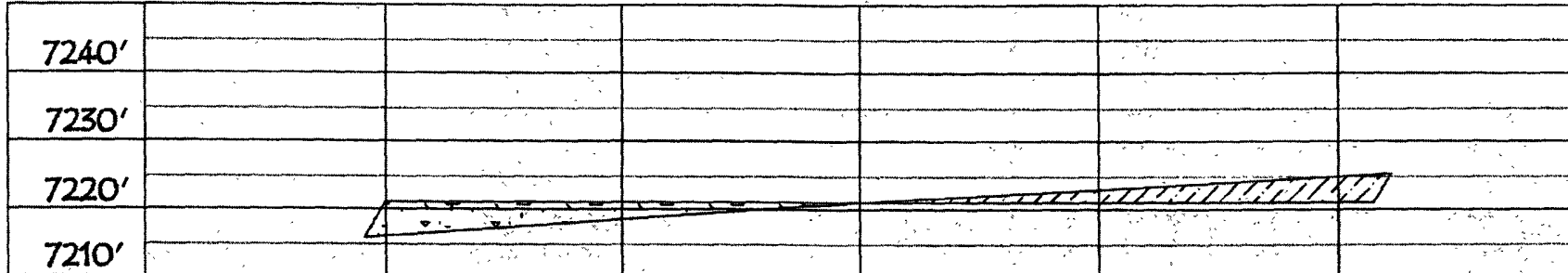
NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.  
 CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED  
 PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.



BURLINGTON RESOURCES OIL & GAS COMPANY LP  
 SAN JUAN 27-4 UNIT 132M, 1375' FSL & 645' FEL  
 SECTION 27, T-27-N, R-4-W, NMPM, RIO ARriba COUNTY, NM  
 GROUND ELEVATION: 7221', DATE: JULY 27, 2007

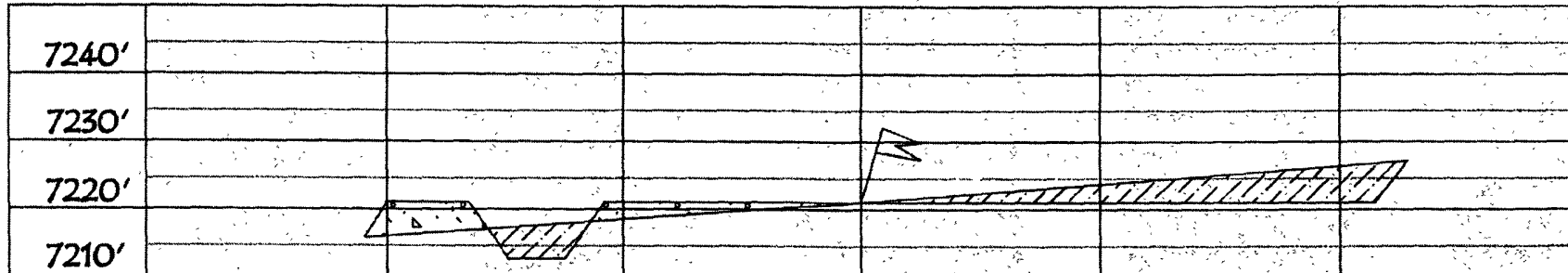
ELEV. A'-A

C/L



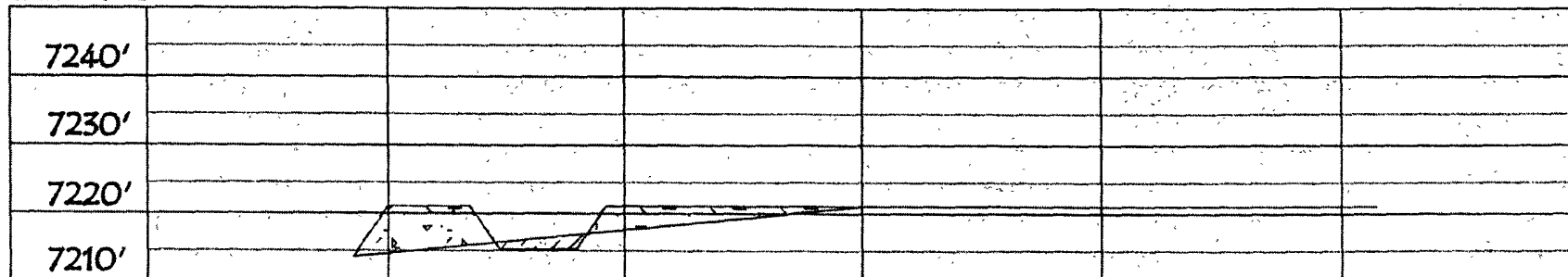
ELEV. B'-B

C/L



ELEV. C'-C

C/L



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