

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	2007 JUL 27 PM 4 08 RECEIVED 070 FARMINGTON NM	5. Lease Number USA SF-079394 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 27-5 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name 9. Well Number #142E
4. Location of Well Unit F (SENW), 1505' FNL & 1505' FWL Latitude 36° 32.0437 N Longitude 107° 22.0345 W		10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) F Sec. 33, T27N, R5W API # 30-039- 30304
14. Distance in Miles from Nearest Town 42 mile/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1505'		
16. Acres in Lease	17. Acres Assigned to Well DK 320 (N/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 51' from San Juan 27-5 Unit #35A		
19. Proposed Depth 7664' Rotary	20. Rotary or Cable Tools	RCVD SEP 6 '07 OIL CONS. DIV.
21. Elevations (DF, FT, GR, Etc.) 6514' GL	22. Approx. Date Work will Start DIST. 3	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician)	7-26-07 Date	

PERMIT NO. APPROVAL DATE
APPROVED BY [Signature] TITLE AFM DATE 9/4/07

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

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

NMOC

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

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2001

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

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

RECEIVED
070 FARMINGTON NM ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30304	*Pool Code 71599	Basin Dakota	*Pool Name
*Property Code 7454	*Property Name SAN JUAN 27-5 UNIT		*Well Number 142E
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP		*Elevation 6514'

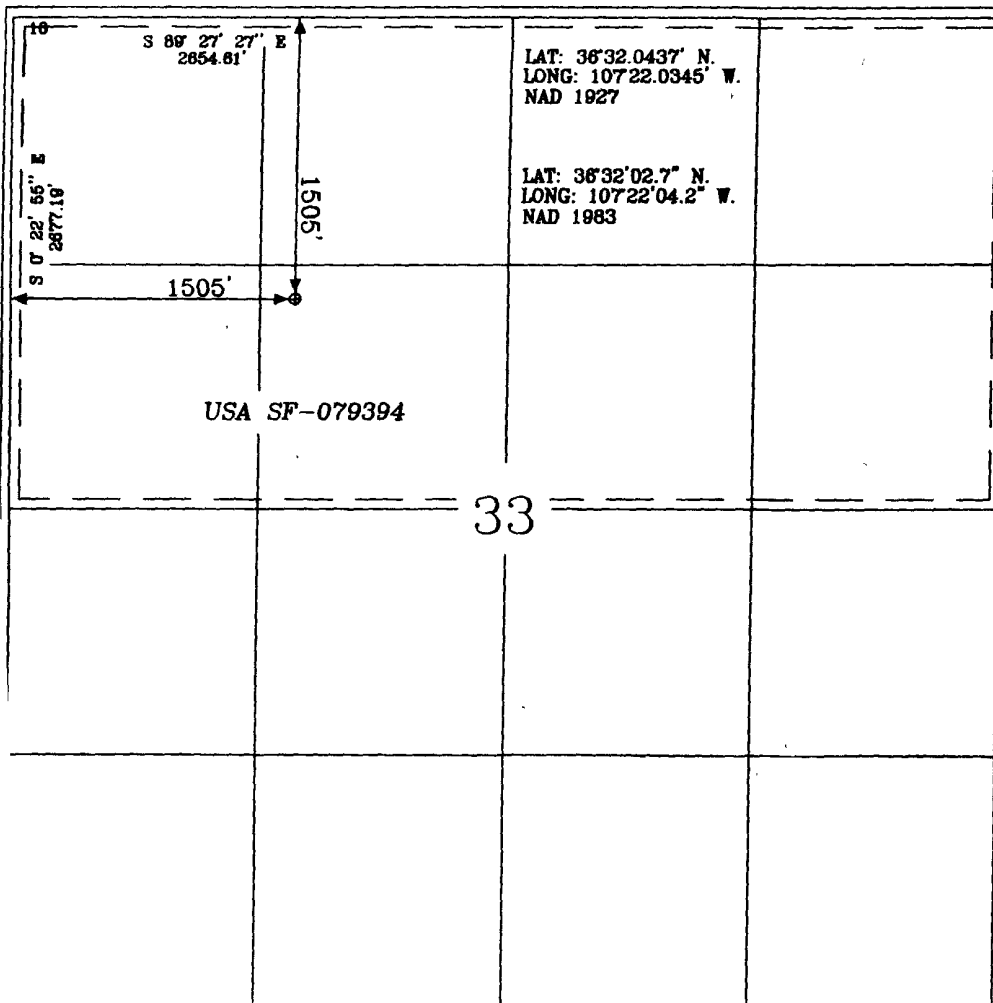
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	33	27-N	5-W		1505'	NORTH	1505'	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
¹² Dedicated Acres 320 N2 DK			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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



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 a working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Rhonda Rogers
Signature
Rhonda Rogers
Printed Name

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.

5-10-06
Date of Survey
Signature and Seal of Professional Surveyor:
15703
Certificate Number 15703

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.

30-039-30304

5. Indicate Type of Lease

STATE ☐

FEE ☐

☒

6. State Oil & Gas Lease No.

SF-079394

7. Lease Name or Unit Agreement Name

San Juan 27-5 Unit

8. Well Number

#142E

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 F : 1505 feet from the North line and 1505 feet from the West line
Section 33 Township 27N Rng 5W NMPM County Rio Arriba

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

6514

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:

n/a

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:

☐

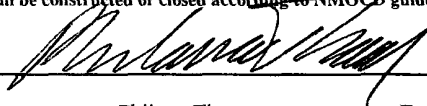
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Unlined:

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 and vent/flare pit will be an unlined 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 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



TITLE

Regulatory Analyst

DATE

5/24/2006

Type or print name

Philana Thompson

E-mail address:

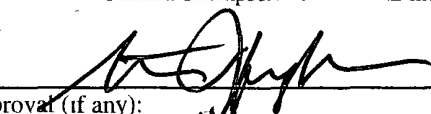
pthompson@br-inc.com

Telephone No

505-326-9530

For State Use Only

APPROVED BY



TITLE

Deputy Oil & Gas Inspector,

District #3

DATE

SEP 10 2007

Conditions of Approval (if any):

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-5 UNIT 142E

DEVELOPMENT

Lease:		AFE #:		AFE \$: 635,920.92	
Field Name: hBR_SAN JUAN 27-5 UNIT		Rig: Aztec Rig 301		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:	

Primary Objective (Zones):

Zone	Zone Name
R20076	DAKOTA(R20076)

Location: Surface Datum Code: NAD 27 Straight Hole

Latitude: 36.534074	Longitude: -107.367232	X:	Y:	Section: 33	Range: 005W
Footage X: 1505 FWL	Footage Y: 1505 FNL	Elevation: 6514 (FT)	Township: 027N		
Tolerance:					

Location Type: Restricted	Start Date (Est.):	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 6526	Units = FT
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Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6326	<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 215 cu. ft. Circulate cement to surface.
OJO ALAMO	2684	3842	<input type="checkbox"/>			
KIRTLAND	2813	3713	<input type="checkbox"/>			
FRUITLAND	3050	3476	<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	3236	3290	<input type="checkbox"/>			
LEWIS	3410	3116	<input type="checkbox"/>			
Intermediate Casing	3510	3016	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 790 cu. ft. Circulate cement to surface.
HUERFANITO BENTONITE	3710	2816	<input type="checkbox"/>			
CHACRA	4192	2334	<input type="checkbox"/>			
MASSIVE CLIFF HOUSE	4878	1648	<input type="checkbox"/>			Gas
MENEFEE	5010	1516	<input type="checkbox"/>			
MASSIVE POINT LOOKOUT	5420	1106	<input type="checkbox"/>	700		
MANCOS	5828	698	<input type="checkbox"/>			
UPPER GALLUP	6544	-18	<input type="checkbox"/>			
GREENHORN	7337	-811	<input type="checkbox"/>			
GRANEROS	7399	-873	<input type="checkbox"/>			
TWO WELLS	7443	-917	<input type="checkbox"/>	2000		Gas
UPPER CUBERO	7549	-1023	<input type="checkbox"/>			
OAK CANYON	7648	-1122	<input type="checkbox"/>			estimated bottom perf 7643
ENCINAL	7664	-1138	<input type="checkbox"/>			
TOTAL DEPTH DK	7664	-1138	<input type="checkbox"/>			6-1/4" Hole. 4-1/2", 10.5 ppf, J-55 STC casing. Cement with 566 cu. ft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	27-5 142M	nw33-27-5
Production	27-5 189	ne32-27-5

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-5 UNIT 142E

DEVELOPMENT

Logging Program:			
Intermediate Logs:	<input type="checkbox"/> Log only if show	<input type="checkbox"/> GR/ILD	<input type="checkbox"/> Triple Combo

TD Logs:	<input type="checkbox"/> Triple Combo	<input type="checkbox"/> Dipmeter	<input type="checkbox"/> RFT	<input type="checkbox"/> Sonic	<input type="checkbox"/> VSP	<input type="checkbox"/> TDT	<input checked="" type="checkbox"/> Other
GR/CBL							

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

Comments: Location/Tops/Logging - DK 27N05W33NW2 Twinned with #35A.

Zones - DK 27N05W33NW2

EDGE OF EXISTING WELL PAD

APPROXIMATE 18"X18" PIT AREA LINED WITH 12 MIL. POLY. LINER

C' F+6 ⑥

2.1 Slopes Reserve Pit

10' Deep

DIKE

12' Deep

65'

8' DEEP

1' DEEP

75'

Positive drain to reserve pit.

8' DEEP

100'

RAMP INTO PIT CONSTRUCTED FROM PAD GRADE AT 2% SLOPE INTO PLANE A-B-A

RIG ANCHOR

70'

15'

50'

35'

REAR Wellhead to back 140'

15'

SAN JUAN 27-5 UNIT

LAYDOWN N 33° W (T)

Wellhead to front 160'

100'

F+2 ①

50' CONSTRUCTION ZONE

METER HOUSE

130'

RIG ANCHOR

EXISTING ACCESS

STORAGE

EVAP

IF-BED

130'

Wellhead to side

EDGE OF EXISTING WELL PAD

230' X 300'

APPROX. 1.2 ACRES NEW FEE DISTURBANCE

330' X 400' = 3.03 ACRES

③ F+1 A

C-5 B

C-2 ② C

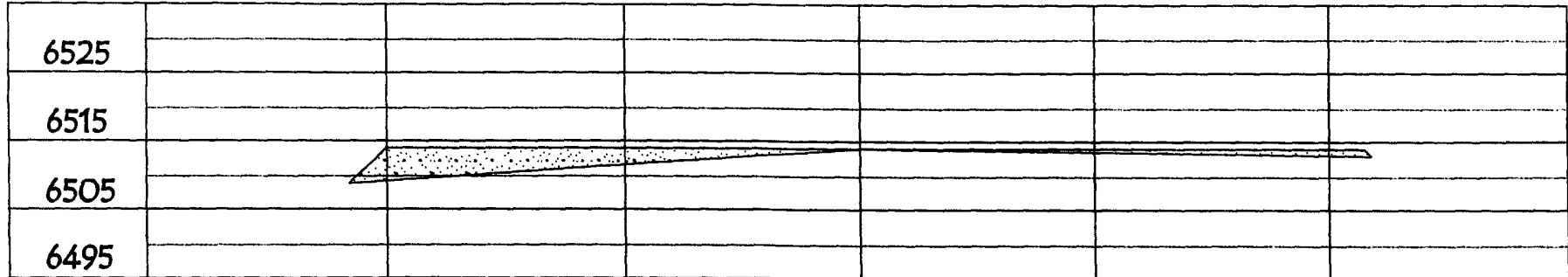
NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

LATITUDE: 36° 32.0437' N LONGITUDE: 107° 22.0345' W NAD27

BURLINGTON RESOURCES OIL & GAS COMPANY LP
 SAN JUAN 27-5 UNIT #142E, 1505' FNL & 1505' FWL
 SECTION 33, T-27- N, R-5-W, NMPM, RIO ARriba COUNTY, NM
 GROUND ELEVATION: 6514', DATE: MAY 1, 2006

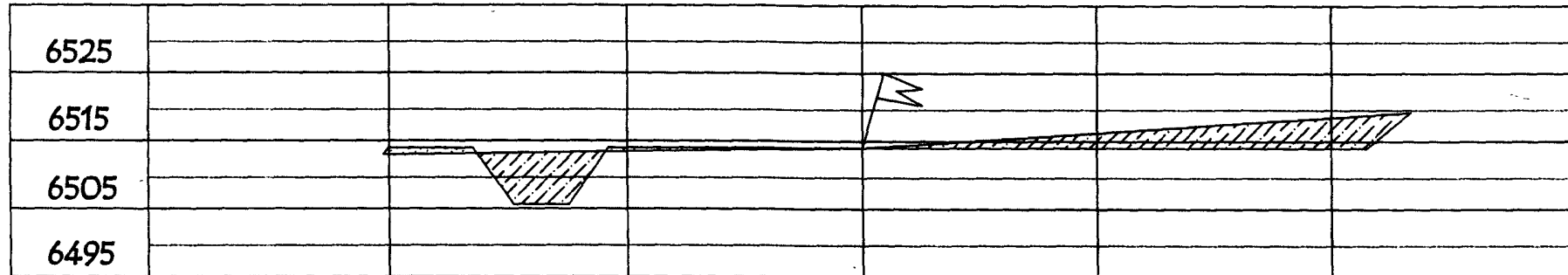
ELEV. A'-A

CL



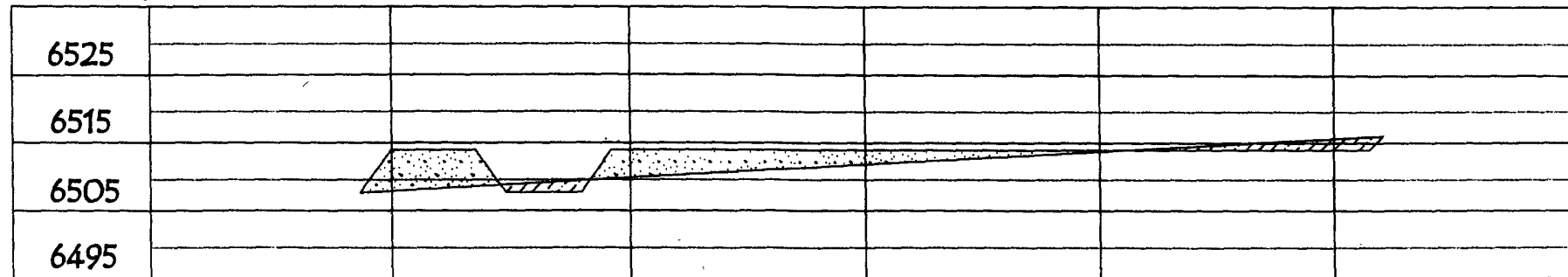
ELEV. B'-B

CL



ELEV. C'-C

CL



NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
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 PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.