

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	RECEIVED NOV 08 2007 Bureau of Land Management Farmington Field Office	5. Lease Number SF-077961 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe OIL CONS. DIV.
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name DIST. 3 Huerfano Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name 9. Well Number 108F
4. Location of Well Unit D (NWNW) 155' FNL & 465' FWL, Latitude 36.52406'N Longitude 107.85498' W	Lot 4	10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) 0 Sec. 1, T26N, R10W API # 30-045- 34504
14. Distance in Miles from Nearest Town 22 miles from Bloomfield, NM	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 155'		
16. Acres in Lease 119.77 acres	17. Acres Assigned to Well DK 319.61 (W/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1590' from the Huerfano Unit #108		
19. Proposed Depth 6961'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6553' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Patsy Clugston</u> Patsy Clugston, Regulatory Specialist	11/8/07 Date	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE ATM DATE 11/19/07

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 4

Bond Numbers NMB-000015 and NMB-000089

NMOCD

NOV 26 2007

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
RECEIVED
NOV 08 2007

Bureau of Land Management
Farmington Field Office
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045- 34504		*Pool Code 71599	*Pool Name BASIN DAKOTA
*Property Code 7139	*Property Name HUERFANO UNIT		*Well Number 108F
*GRID No 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP		*Elevation 6553'

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
D	1	26N	10W	(4)	155	NORTH	465	WEST	SAN JUAN

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
D									
¹² Dedicated Acres 319.61 Acres - W/2					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

5280.00'

¹⁶ 1314.06' 465' 155' 2175' LOT 4 LEASE USA SF-077961 2475' 1321.98' 2644.62'		LOT 3 LEASE USA SF-078001-B LAT: 36°31.4428' N LONG: 107°51.2619' W DATUM: NAD27 LAT: 36°52406' N LONG: 107°85498' W DATUM: NAD83	LOT 2	LOT 1	1321.32' 1320.66' 2641.32'	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. <i>Patsy Clugston</i> 8/28/07 Signature Date PATSY CLUGSTON 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 Date of Survey: AUGUST 1, 2007 Signature and Seal of Professional Surveyor  JASON C. EDWARDS Certificate Number 15269
		1 5280.66'				

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.

30-045- 34504

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal Lease USA SF-077961

7. Lease Name or Unit Agreement Name

Huerfano Unit

8. Well Number

#108F

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 D : 155' feet from the North line and 465' feet from the West lineSection I Township 26N Rng 10W NMPM County San Juan

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

6553' GL

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

>200

<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, 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 Patsy Clugston TITLE Regulatory Specialist DATE 11/8/2007

Type or print name

Patsy Clugston

E-mail address:

clugspl@conocophillips.com

Telephone No.

505-326-9518

For State Use Only

APPROVED BY [Signature]

TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

NOV 26 2007

Conditions of Approval (if any):

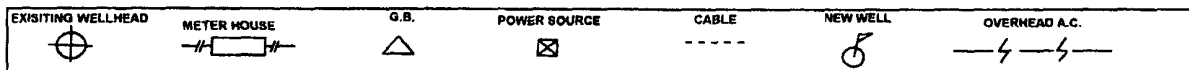
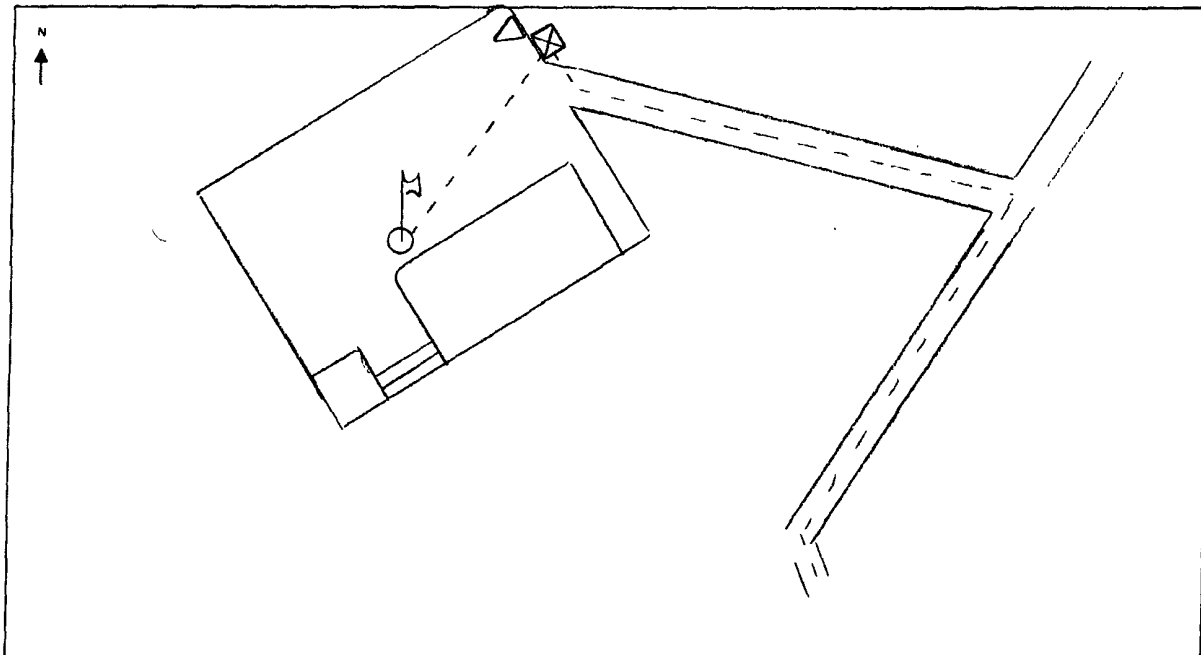


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Huerfano Unit #108F LEGALS D-1-24-10 COUNTY San Juan

PURPOSED C.P. SYSTEEM: Drill GB and set rectifier on N corner of location. Trench approx 2500' of A/C from existing rectifier on Huerfano #108 to new rectifier. Trench approx 160' of #8 neg from proposed well to rectifier.



COMMENTS: Possible A/C in main roadway / No cable markers or overhead A/C to verify how A/C comes into the #108 if A/C in roadway only trench 1100' or A/C instead of 2500'

NEAREST POWER SOURCE Huerfano Unit #108 Rectifier DISTANCE: 2500'
PIPELINES IN AREA: _____

TECHNICIAN: Michael Hingerson DATE: 9/6/07

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANO UNIT 108F

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7220		AFE \$: 563,981.70	
Field Name: hBR_SAN JUAN		Rig: Bearcat Rig 4		State: NM	County: SAN JUAN
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				
FRR	BASIN DAKOTA (PRORATED GAS)				
Location: Surface Datum Code: NAD 27					
Latitude: 36.524051	Longitude: -107.854363	X:	Y:	Section: 01	Range: 010W
Footage X: 465 FWL	Footage Y: 155 FNL	Elevation: 6553 (FT)	Township: 026N		
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:	
Formation Data: Assume KB = 6569		Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	320	6249	<input type="checkbox"/>		
OJAM	1377	5192	<input type="checkbox"/>		
KRLD	1503	5066	<input type="checkbox"/>		
FRLD	1837	4732	<input type="checkbox"/>		Possible Gas
PCCF	2238	4331	<input type="checkbox"/>		
HUERFANITO BENTONITE	2724	3845	<input type="checkbox"/>		
CHRA	3185	3384	<input type="checkbox"/>		
CLFH	3833	2736	<input type="checkbox"/>		
MENF	3933	2636	<input type="checkbox"/>		
PTLK	4654	1915	<input type="checkbox"/>		
MNCS	4931	1638	<input type="checkbox"/>		
GLLP	5782	787	<input type="checkbox"/>		
GRHN	6622	-53	<input type="checkbox"/>		
GRRS	6672	-103	<input type="checkbox"/>		
TWLS	6701	-132	<input type="checkbox"/>	1845	Gas
PAGU	6785	-216	<input type="checkbox"/>		
CBRL	6849	-280	<input type="checkbox"/>		
ENCINAL	6921	-352	<input type="checkbox"/>		
TOTAL DEPTH DK	6961	-392	<input type="checkbox"/>		
TD 40' below T/MRSN. 7 7/8" Hole. 4-1/2", 11.6 ppf, N-80 LTC casing. Cement with 2075 cuft. Circulate cement to surface.					
Reference Wells:					
Reference Type	Well Name		Comments		
Production	Huerfano 213		SE 36-27N-10W		

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANO UNIT 108F

DEVELOPMENT

Logging Program:

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

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

GR_CBL

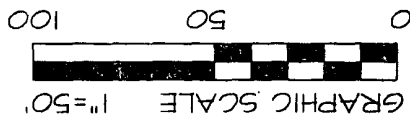
Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - DKNM026N010W01NW2 Avoid E, no twins, prefer D,F,C and keep maximum distance from #108. Assume Mud drill. TD 40' into ENCN

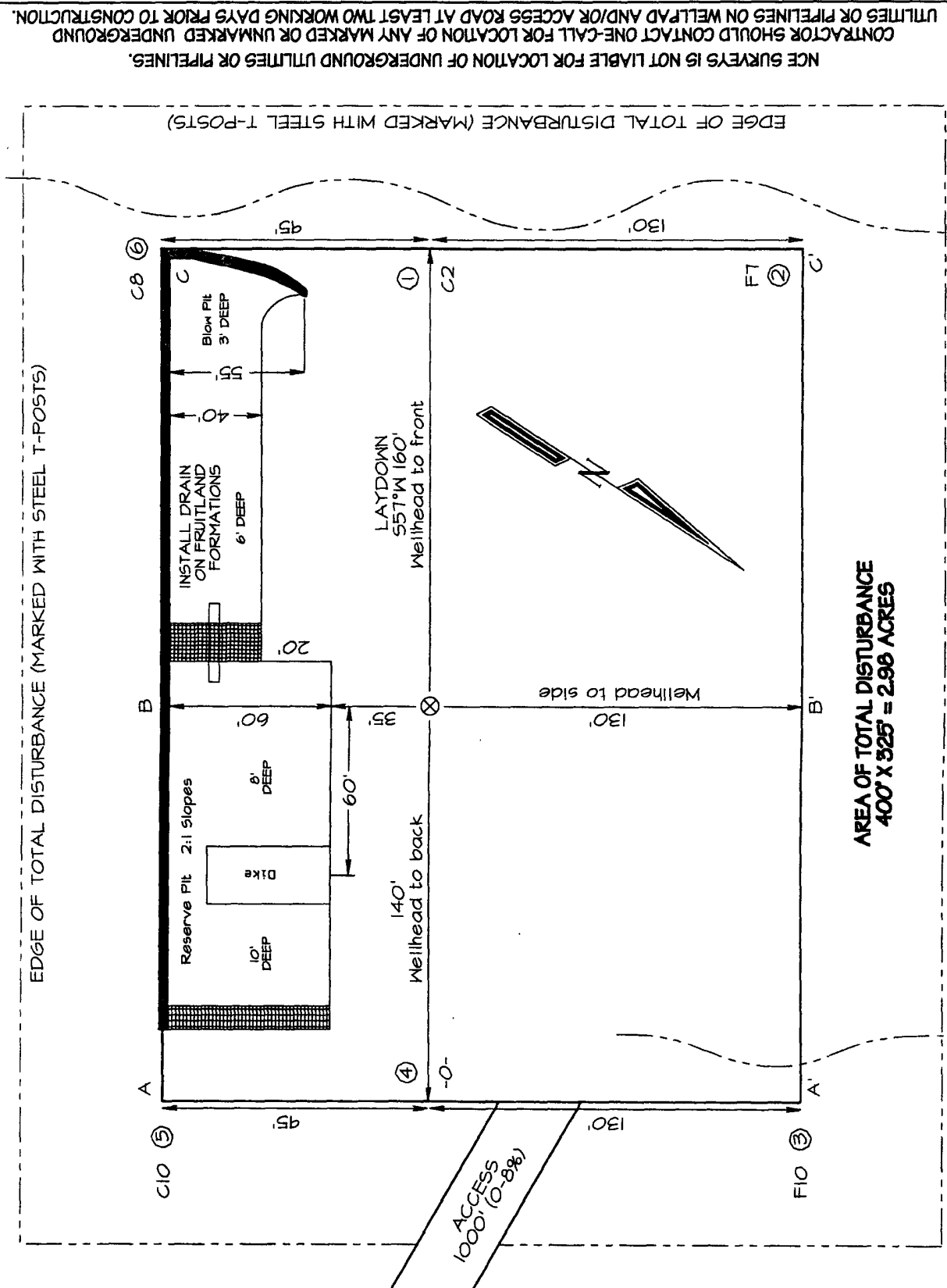
Zones - DKNM026N010W01NW2

BURLINGTON RESOURCES OIL & GAS COMPANY HUERFANO UNIT #108F
155' FNL & 465' FWL, SECTION 1, T26N, R10W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6553'



LATITUDE: 36°31.4428'N
 LONGITUDE: 107°51.2619'W
 DATUM: NAD1927

~ SURFACE OWNER ~
 Bureau of Land Management



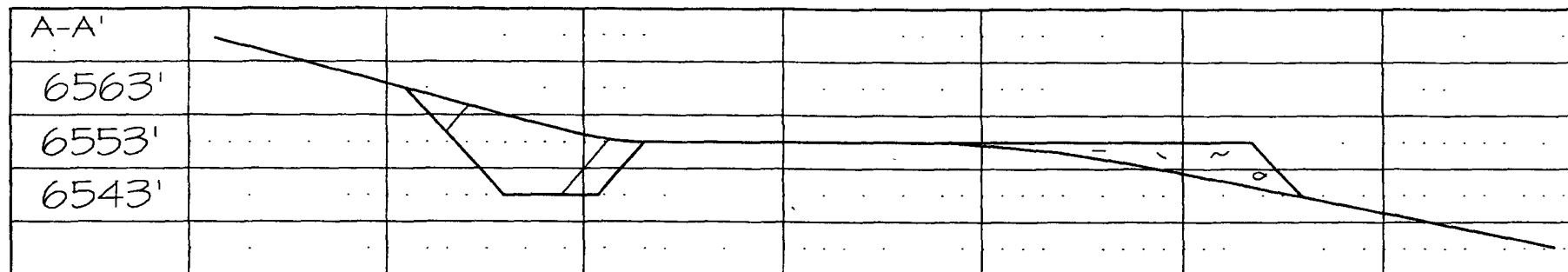
NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.
 CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

BURLINGTON RESOURCES OIL & GAS COMPANY HUERFANO UNIT #108F
155' FNL & 465' FWL, SECTION 1, T26N, R10W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6553'

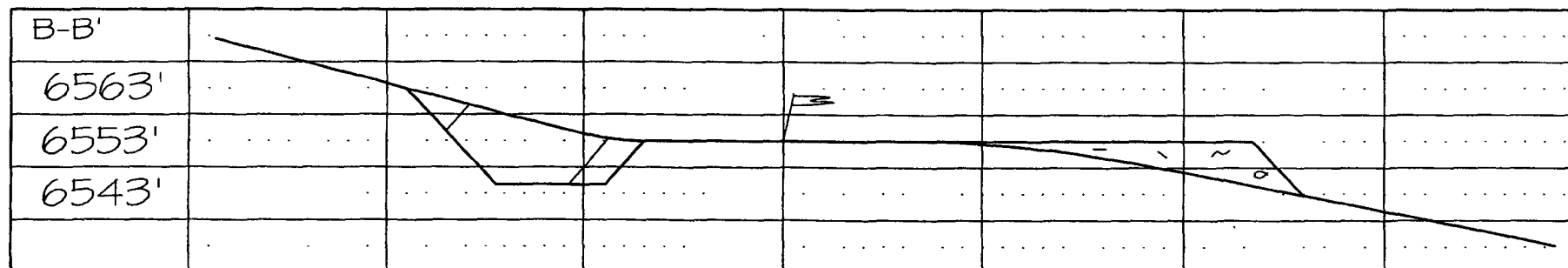
HORIZONTAL SCALE 1"=40'

C/L

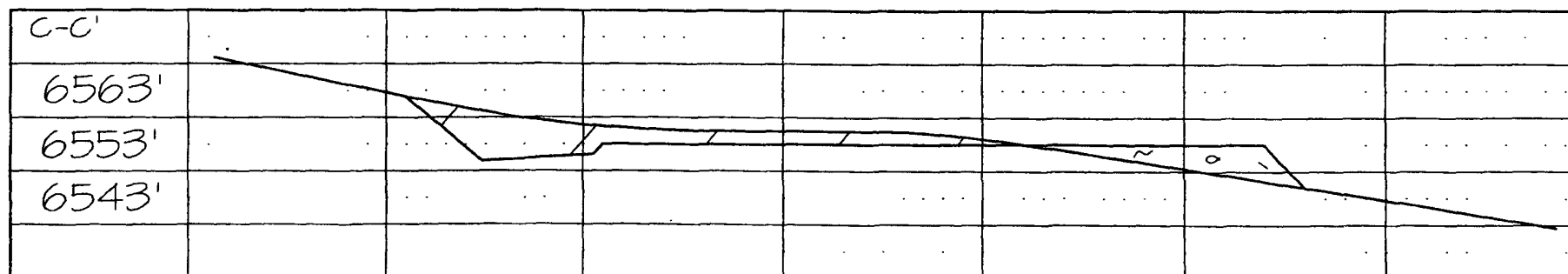
VERTICAL SCALE 1"=30'



C/L



C/L



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