

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 05 2007 Bureau of Land Management Farmington Field Office	5. Lease Number USA NM-078124 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe RCVD NOV 20 '07 OIL CONS. DIV.
2. Operator <b>BURLINGTON</b> RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name Huerfano Unit DIST. 3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name
		9. Well Number #304
4. Location of Well Unit E (SWNW), 1900' FNL & 660' FWL  Latitude 36.43211 N Longitude 107.90861 W		10. Field, Pool, Wildcat Basin Dakota  11. Sec., Twn, Rge, Mer. (NMPM) E Sec. 4, T25N, R10W  API # 30-045-34496
14. Distance in Miles from Nearest Town 23 Miles/Bloomfield	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 725'		
16. Acres in Lease 1278.320	17. Acres Assigned to Well DK 321.44 (N/2) DK 318.82 32	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1700' Cretaceous from Kimbell Hanson A #1		
19. Proposed Depth 6596'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6651' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	<u>11/2/07</u> Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE AFM

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

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

NMOC  
\$11/21

NOV 26 2007  
AV

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

**RECEIVED**

Form C-102  
Revised October 12, 2005  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

NOV 05 2007

Bureau of Land Management  
Farmington Field Office  
AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34496	*Pool Code 71599	*Pool Name BASIN DAKOTA
*Property Code 7139	*Property Name HUERFANO UNIT	*Well Number 304
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP	*Elevation 6651'

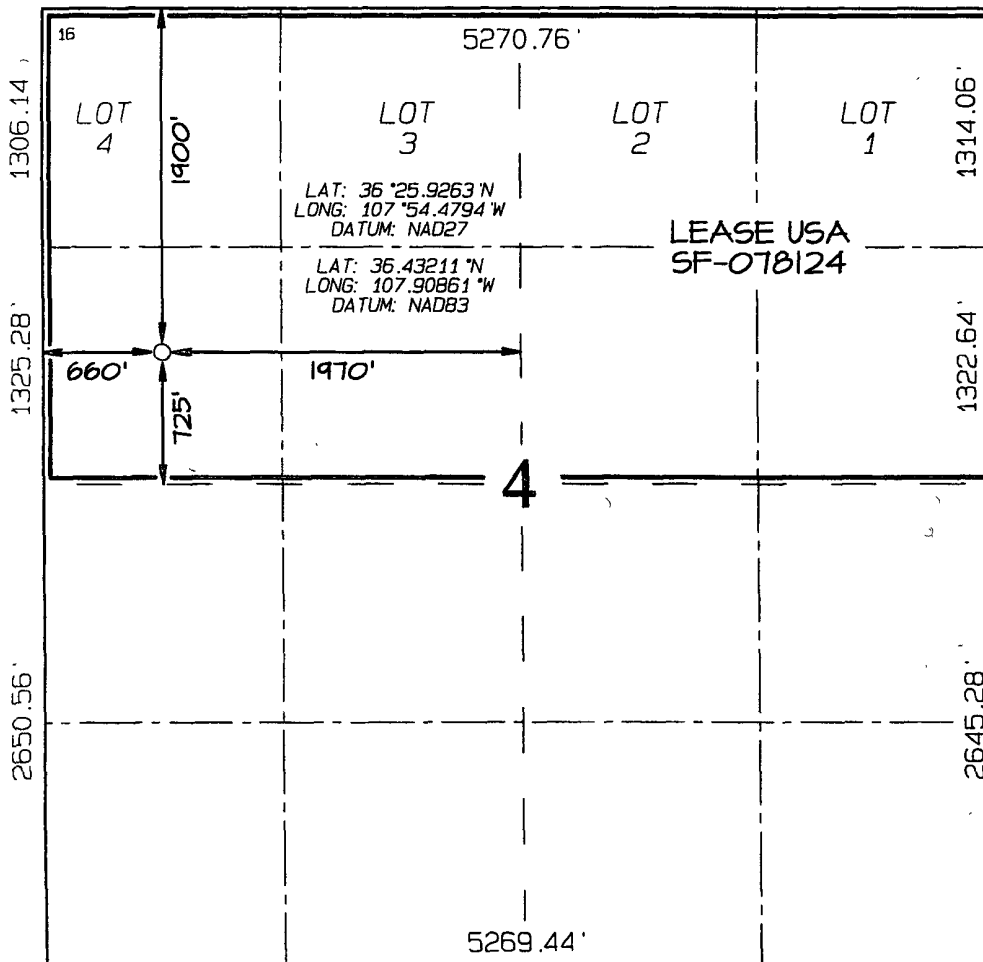
## 10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idh	Feet from the	North/South line	Feet from the	East/West line	County
E	4	25N	10W		1900	NORTH	660	WEST	SAN JUAN

## 11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idh	Feet from the	North/South line	Feet from the	East/West line	County
E									
12 Dedicated Acres 318.32 Acres - N/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



## 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: *Patsy Clugston* Date: 8/28/07  
Printed Name: Patsy Clugston

## 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: JULY 26, 2007

Signature and Seal of Professional Surveyor



Signature: *JASON C. EDWARDS*  
Certificate Number: 15269

## 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-

34496

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil &amp; Gas Lease No.

Federal Lease USA SF-078124

7. Lease Name or Unit Agreement Name

Huerfano Unit

8. Well Number

#304

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 &amp; GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter E : 1900' feet from the North line and 660' feet from the West lineSection 4 Township 25N Range 10W NMPM County San Juan

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

6651' 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 >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 ☐

OTHER:

New Drill ☒

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐P AND A ☐CASING/CEMENT JOB ☐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 Sasha Spangler TITLE Regulatory Technician DATE 11/2/2007

Type or print name

Sasha Spangler

E-mail address: spangs@conocophillips.com Telephone No.

505-326-9568

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,  
District #3

DATE

NOV 26 2007

Conditions of Approval (if any):

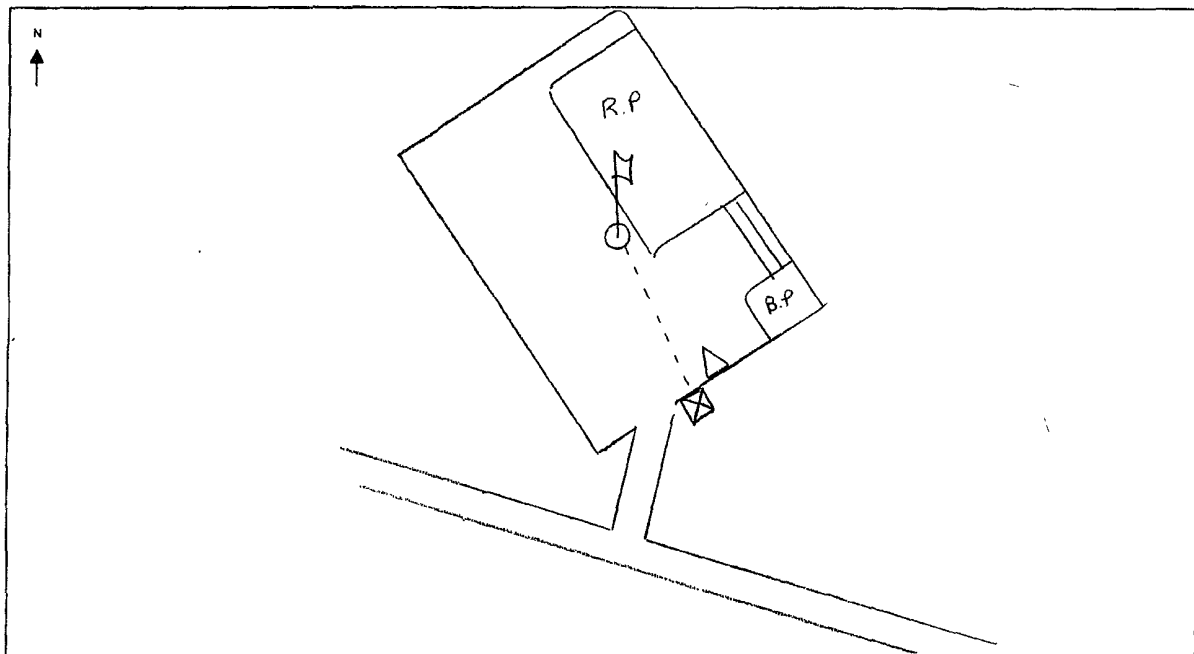


TECHNICAL SERVICES  
A CORROSION COMPANY

### CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Huertano Unit #304 LEGALS E-4-25-10 COUNTY San Juan

PURPOSED C.P. SYSTEM: Drill GB and set solar on SE edge of Location. Trench approx 105' of #8 neg cable from proposed well to solar.



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

COMMENTS: no cable markers but approx .3 miles from El Paso Huertano gas plant  
check for A.C. power

NEAREST POWER SOURCE \_\_\_\_\_ DISTANCE: \_\_\_\_\_  
PIPELINES IN AREA: \_\_\_\_\_

TECHNICIAN: Michelle Hernandez DATE: 9/6/07

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

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANO UNIT 304

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7243		AFE \$: 521,419.20	
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:	
<b>Primary Objective (Zones):</b>					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
<b>Location:</b> Surface					
Datum Code: NAD 27		<b>Straight Hole</b>			
Latitude: 36.432100	Longitude: -107.907991	X:	Y:	Section: 04	Range: 010W
Footage X: 660 FWL	Footage Y: 1900 FNL	Elevation: 6651	(FT)	Township: 025N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:	
Date In Operation:					
Formation Data: Assume KB = 6663 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	320	6343	<input type="checkbox"/>		
OJO ALAMO	928	5735	<input type="checkbox"/>		
KIRTLAND	1053	5610	<input type="checkbox"/>		
FRUITLAND	1658	5005	<input type="checkbox"/>		Possible Gas
PICTURED CLIFFS	1900	4763	<input type="checkbox"/>		
LEWIS	2003	4660	<input type="checkbox"/>		
HUERFANITO BENTONITE	2253	4410	<input type="checkbox"/>		
CHACRA	2783	3880	<input type="checkbox"/>		
MASSIVE CLIFF HOUSE	3423	3240	<input type="checkbox"/>		
MENEFEE	3470	3193	<input type="checkbox"/>		
MASSIVE POINT LOOKOUT	4373	2290	<input type="checkbox"/>		GAS
MANCOS	4603	2060	<input type="checkbox"/>		
UPPER GALLUP	5308	1355	<input type="checkbox"/>		
GREENHORN	6311	352	<input type="checkbox"/>		
GRANEROS	6368	295	<input type="checkbox"/>		
TWO WELLS	6421	242	<input type="checkbox"/>	1200	Gas
PAGUATE	6465	198	<input type="checkbox"/>		
CUBERO	6525	138	<input type="checkbox"/>		
ENCINAL	6583	80	<input type="checkbox"/>		
TOTAL DEPTH DK	6596	67	<input type="checkbox"/>		
TD 40' below T/MRSN. 7 7/8" Hole. 4-1/2", 11.6 ppf, N-80 LTC casing. Cement with 1966 cuft. Circulate cement to surface.					
<b>Reference Wells:</b>					
Reference Type	Well Name		Comments		

# PROJECT PROPOSAL - New Drill / Sidetrack

HUERFANO UNIT 304

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 - DKNM025N010W04NW2 No other wells in 1/4, prefer E,D,F,G.

Zones - DKNM025N010W04NW2

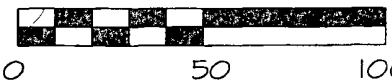


~ SURFACE OWNER ~

Bureau of Land Management

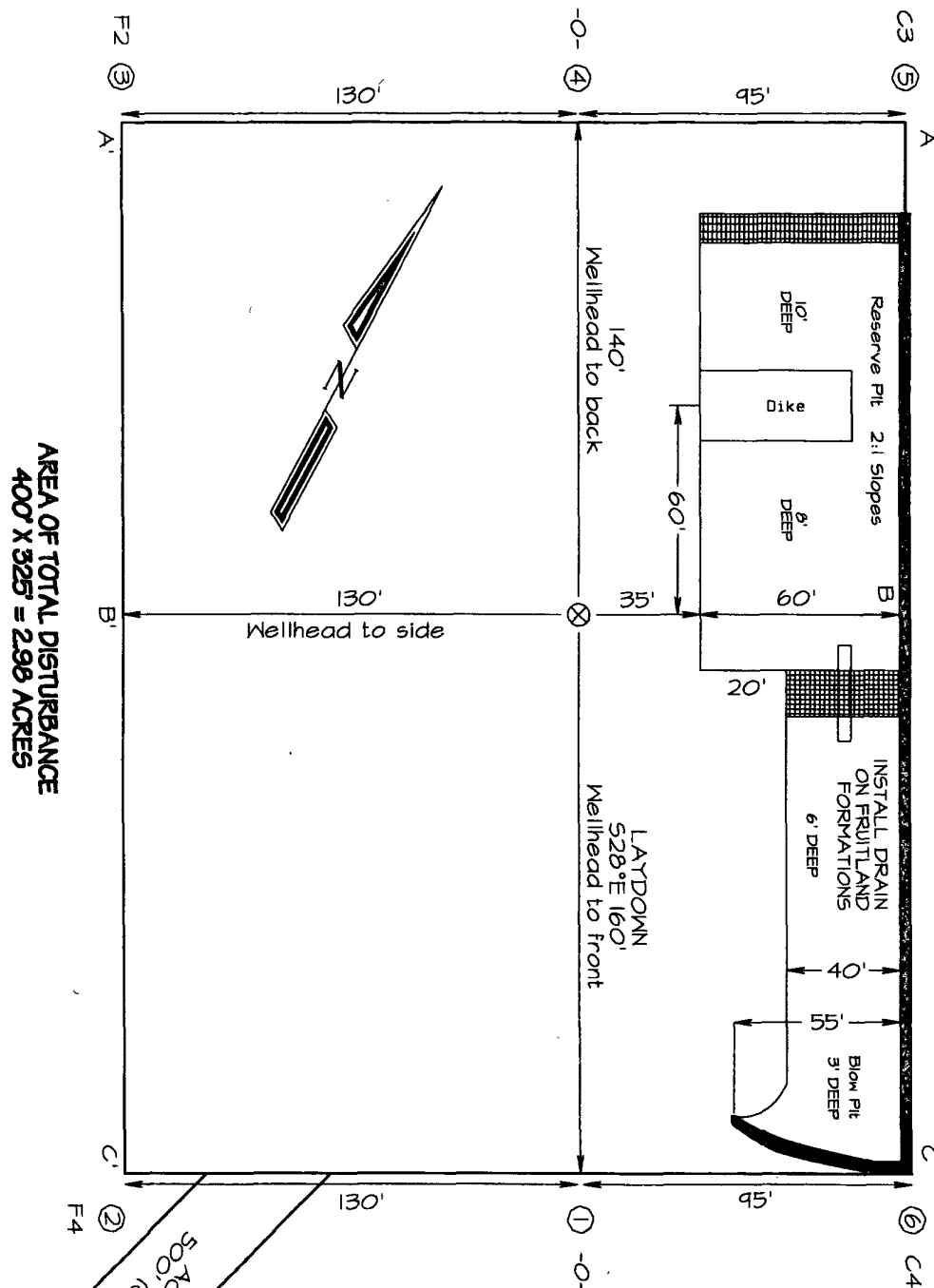
LATITUDE: 36°25.9263'N  
LONGITUDE: 107°54.4794'W  
DATUM: NAD1927

GRAPHIC SCALE 1"=50'



BURLINGTON RESOURCES OIL & GAS COMPANY HUERFANO UNIT #304  
1900' FNL & 660' FWL, SECTION 4, T25N, R10W, NMPM  
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6651'

EDGE OF TOTAL DISTURBANCE (MARKED WITH STEEL T-POSTS)



AREA OF TOTAL DISTURBANCE  
400' X 325' = 2.98 ACRES

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.

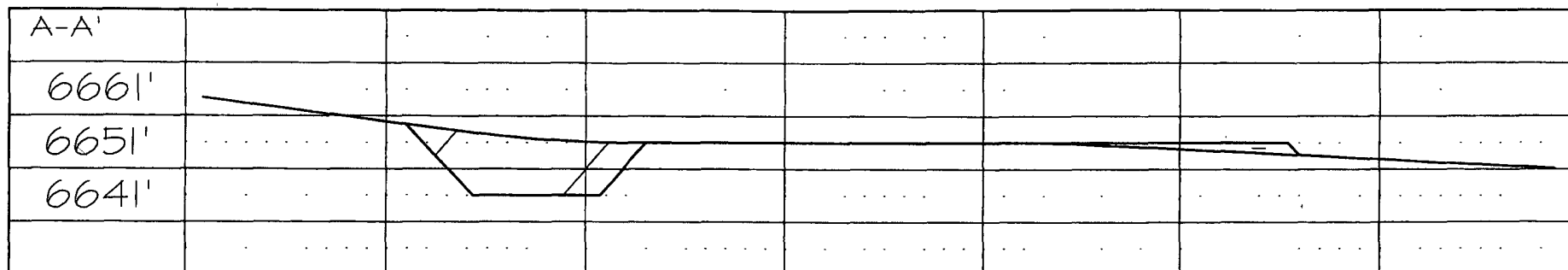


**BURLINGTON RESOURCES OIL & GAS COMPANY HUERFANO UNIT #304**  
**1900' FNL & 660' FWL, SECTION 4, T25N, R10W, NMPM**  
**SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6651'**

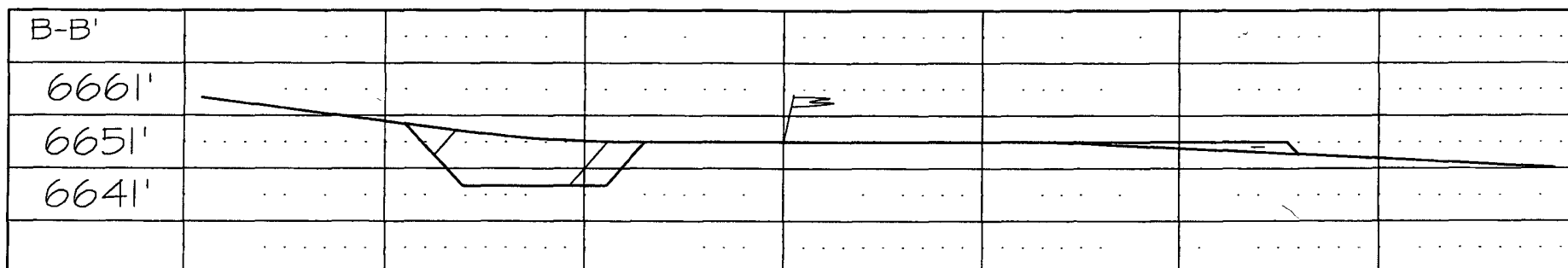
HORIZONTAL SCALE 1"=40'

C/L

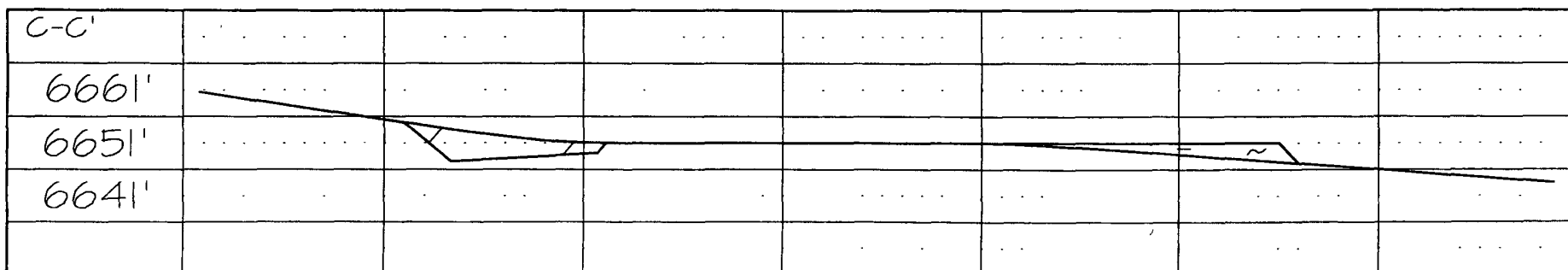
VERTICAL SCALE 1"=30'



C/L



C/L



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