

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD OCT 22 '07

OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number NM-011393 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 Huerfanito Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number #8E	
4. Location of Well Unit H (SENE), 1930' FNL & 660' FEL, Latitude 36.57652'N Longitude 107.80485'W	10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) H Sec. 17, T27N, R9W API # 30-045- 34448	
14. Distance in Miles from Nearest Town 28 miles from Bloomfield, NM	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 660'	17. Acres Assigned to Well 320 acres E/2	
16. Acres in Lease 1280.00 acres		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 900' from Huerfanito #8		
19. Proposed Depth 6911'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6355' 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	Date <u>9/28/07</u>	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 10/19/07

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.

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

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

Bond Numbers NMB-000015 and NMB-000089

NMOCD 8 OCT 30 2007

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

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 SEP 28 2007

Bureau of Land Management
Farmington Field Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34448	*Pool Code 71599	*Pool Name BASIN DAKOTA
*Property Code 7138	*Property Name HUERFANITO Unit	*Well Number 8E
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP	*Elevation 6355'

¹⁰ Surface Location

UL or lot no. H	Section 17	Township 27N	Range 9W	Lot Idn	Feet from the 1930	North/South line NORTH	Feet from the 660	East/West line EAST	County SAN JUAN
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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
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¹² Dedicated Acres 320.0 Acres - (E/2)	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

16	5210.04'	LAT: 36.57652N LONG: 107.80485 W DATUM: NAD83 LAT: 36.545907 N LONG: 107.48.2538 W DATUM: NAD27	1930'	17	660'	17	5212.02'
5239.08'			1950'		660'		
		LEASE USA NM-011393					
		5256.24'					

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.

Rhonda Rogers 8-10-07
Signature Date
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.

Date of Survey: JULY 2, 2007
Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

JASON C. EDWARDS
Certificate Number 15269

State of New Mexico

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-103

May 27, 2004

WELL API NO.

30-045- 34448

5. Indicate Type of Lease

STATE ☐FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Hucrfanito

8. Well Number

#8E

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 H : 1930' feet from the North line and 660' feet from the East line
Section 17 Township 27N Rng 9W NMPM County San Juan

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

6355'

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:

NA

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.

NNew Drill, Unlined:

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, vent/flare pit and pre-set mud pit will be unlined 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 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 that 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 Technician

DATE

Type or print name

Rhonda Rogers

E-mail address:

rogerrs@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

OCT 30 2007

Conditions of Approval (if any):

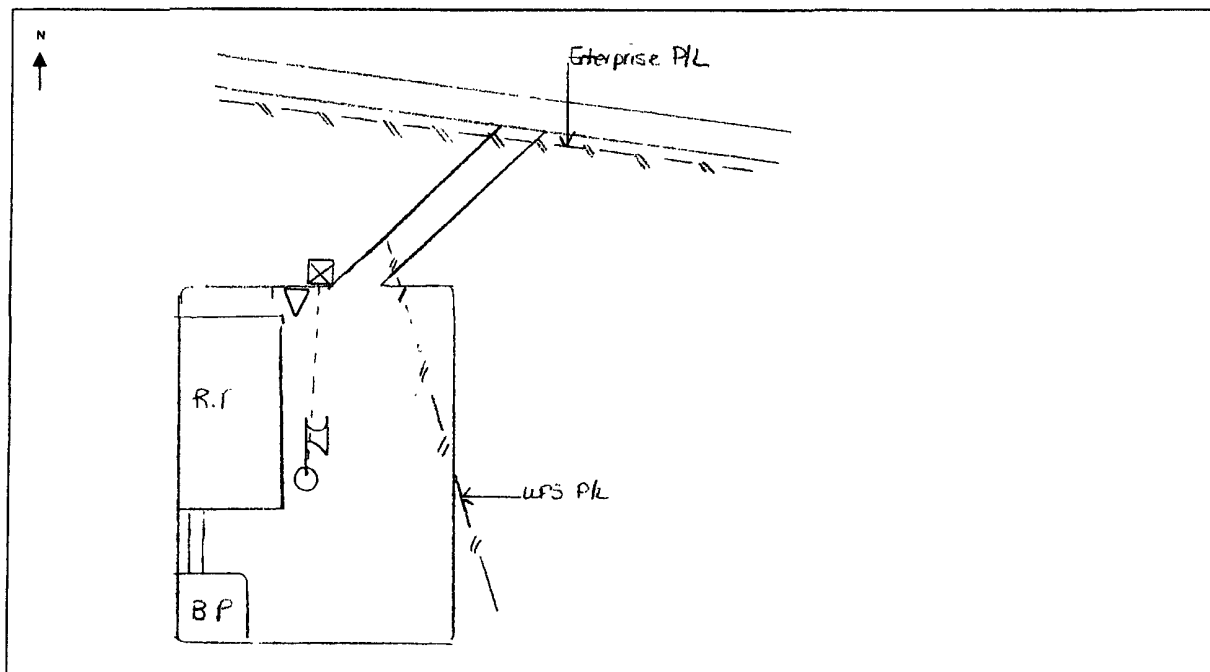


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Huerfano #8E LEGALS H-17279 COUNTY San Juan

PURPOSED C.P. SYSTEM: Drill GB and set solar on N edge of location (W side of access road). Trench approx 180' of #8 reg cable from proposed well to solar



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

COMMENTS: _____

NEAREST POWER SOURCE _____ DISTANCE: _____

PIPELINES IN AREA: WFS P/L, Enterprise P/L

TECHNICIAN: Mike D. Ferguson DATE: 8/15/07

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

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANITO UNIT 8E

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7192		AFE \$: 562,181.83	
Field Name: hBR_SAN JUAN		Rig: Bearcat Rig 4		State: NM	County: SAN JUAN
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				
FRR	BASIN DAKOTA (PRORATED GAS)				
Location: Surface Datum Code: NAD 27					
Latitude: 36.576512	Longitude: -107.804234	X:	Y:	Section: 17	Range: 009W
Footage X: 660 FEL	Footage Y: 1930 FNL	Elevation: 6355 (FT)	Township: 027N		
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:	Date In Operation:
Formation Data: Assume KB = 6367 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	320	6047	<input type="checkbox"/>	320' 8 5/8" 24 ppf, J-55, STC casing. Cement with 312 cuft. Circulate cement to surface.	
OJO ALAMO	1347	5020	<input type="checkbox"/>		
KIRTLAND	1484	4883	<input type="checkbox"/>		
FRUITLAND	2037	4330	<input type="checkbox"/>	Possible Gas	
PICTURED CLIFFS	2282	4085	<input type="checkbox"/>		
LEWIS	2434	3933	<input type="checkbox"/>		
HUERFANITO BENTONITE	2767	3600	<input type="checkbox"/>		
CHACRA	3197	3170	<input type="checkbox"/>		
MASSIVE CLIFF HOUSE	3877	2490	<input type="checkbox"/>		
MENEFEE	3934	2433	<input type="checkbox"/>		
MASSIVE POINT LOOKOUT	4584	1783	<input type="checkbox"/>	GAS	
MANCOS	4969	1398	<input type="checkbox"/>		
UPPER GALLUP	5792	575	<input type="checkbox"/>		
GREENHORN	6585	-218	<input type="checkbox"/>		
GRANEROS	6639	-272	<input type="checkbox"/>		
TWO WELLS	6682	-315	<input type="checkbox"/>	1200	Gas
PAGUATE	6746	-379	<input type="checkbox"/>		
UPPER CUBERO	6802	-435	<input type="checkbox"/>		
LOWER CUBERO	6810	-443	<input type="checkbox"/>		
ENCINAL	6860	-493	<input type="checkbox"/>		
TOTAL DEPTH DK	6911	-544	<input type="checkbox"/>	TD 40' below T/MRSN. 6-1/4" Hole. 4-1/2", 11.6 ppf, N-80 LTC casing. Cement with 2030 cuft	
Reference Wells:					
Reference Type	Well Name		Comments		

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANITO UNIT 8E

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. Mudlog from ~100' above the Greenhorn to TD.

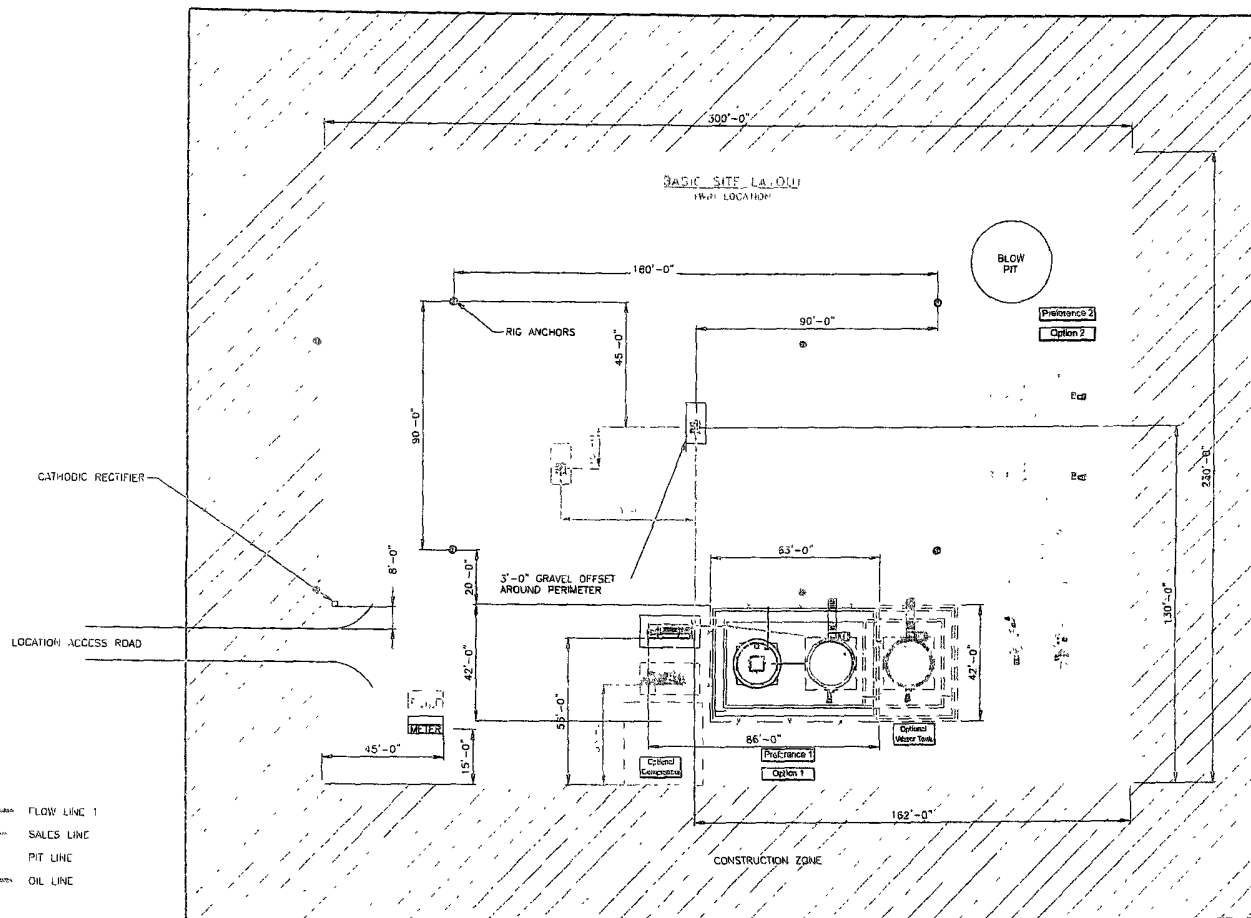
Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - DKNM027N009W17NE2 Avoid A, do not twin, prefer H,B,G.

Zones - DKNM027N009W17NE2


General/Work Description - DRILLING: LOGS & LDK Test RWall 6/7/07



FLOW LINE 1
SALES LINE
PIT LINE
OIL LINE

SEE SHEET 3.1.1 FOR HPHWG DETAILS
ALL UNDERGROUND HPHWG IS TO BE BURIED A MIN OF 3'-0" TOP

SHEET 1 OF 5

ENGINEERING REVIEW										REFERENCE DRAWINGS			CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM - SITE LAYOUT				
DISCIPLINE										NO	DESCRIPTION		CLIENT INFO				
PROCESS	TECHNICAL	PROCESS	ELECTRICAL	I & C	CIVIL/STRUCTURAL	PROJECT	DESIGNED BY	CHECKED BY	APPROVED BY				CLIENT NO	CLIENT APPR	APPR. DATE	CREATION DATE	
DESIGNER	DATE	BY	CHK'D	ENG	DESC	PRJ							DRAWN BY	SCALE	DATE	SHEET NO. 1 OF 5	
SAN JUAN BUSINESS UNIT										HP3PHASE-REV1							

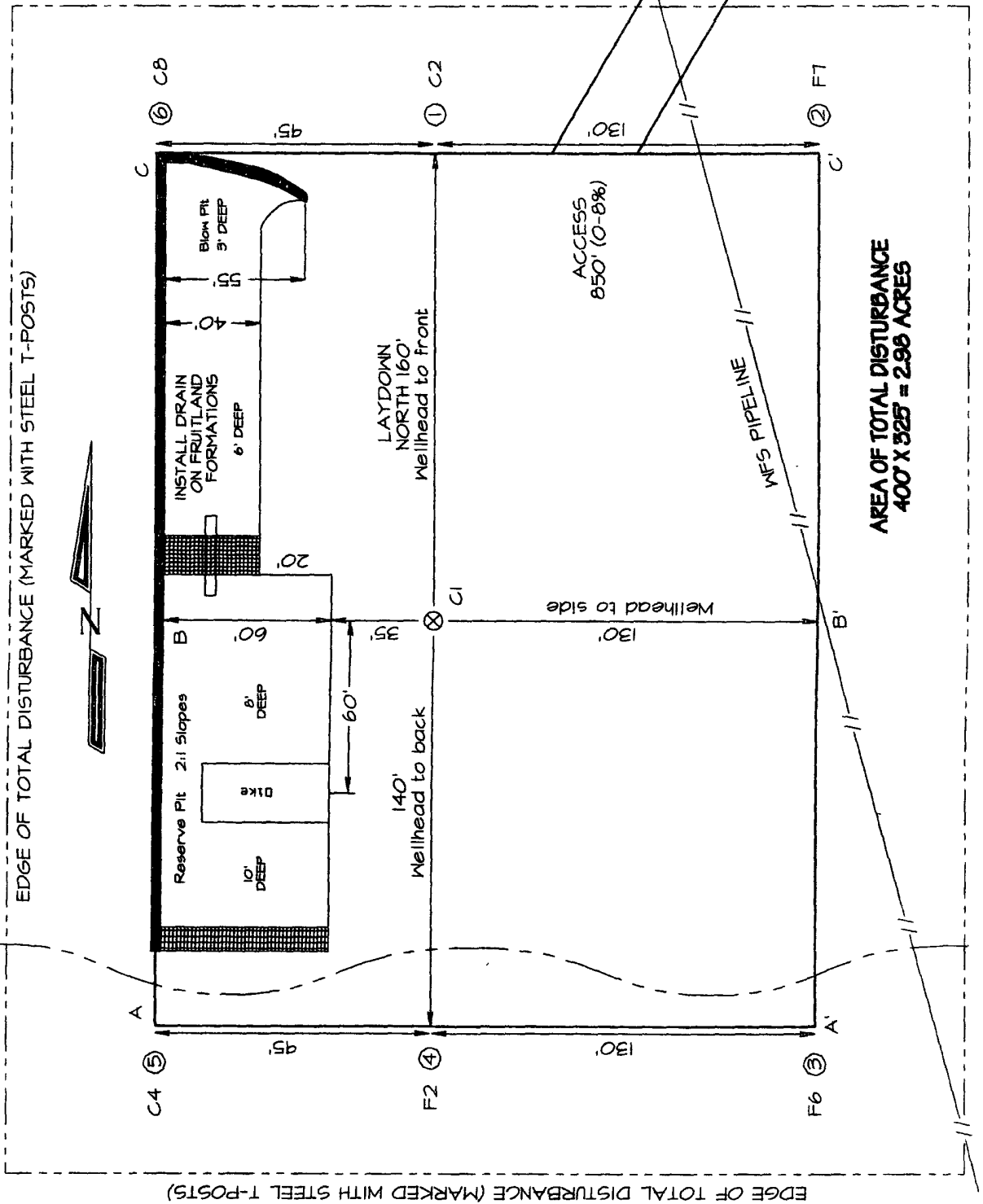
HP3PHASE-REV1

BURLINGTON RESOURCES OIL & GAS COMPANY HUERFANITO #8E
1930' FNL & 660' FEL, SECTION 17, T27N, R9W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6355'



LATITUDE: 36°34.5907'N
 LONGITUDE: 107°48.2538'W
 DATUM: NAD1927

~ SURFACE OWNER ~
 Bureau of Land Management



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.

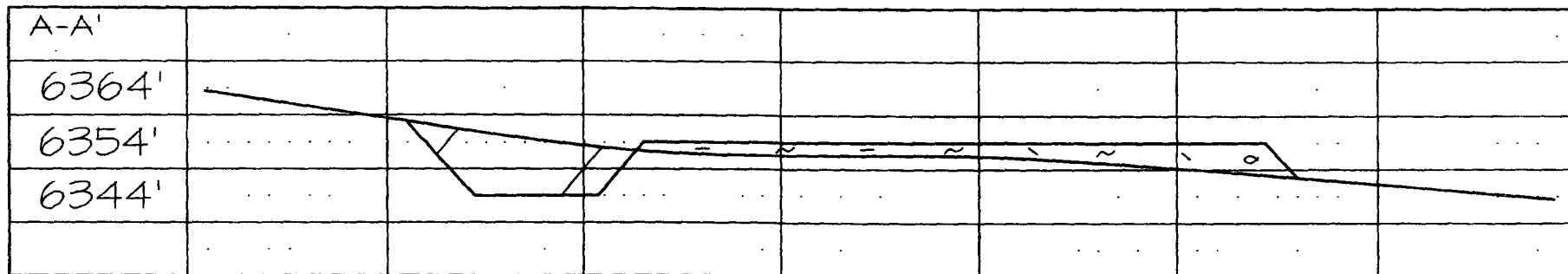
NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

BURLINGTON RESOURCES OIL & GAS COMPANY HUERFANITO #8E
1930' FNL & 660' FEL, SECTION 17, T27N, R9W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6355'

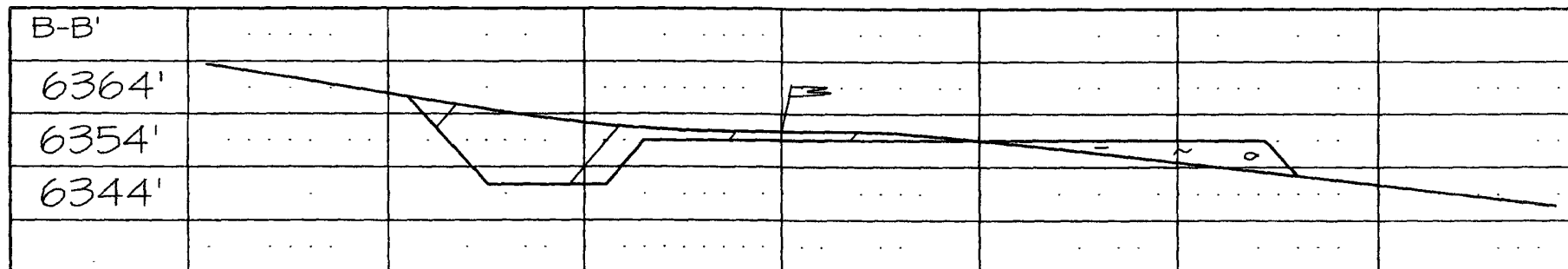
HORIZONTAL SCALE 1"=40'

C/L

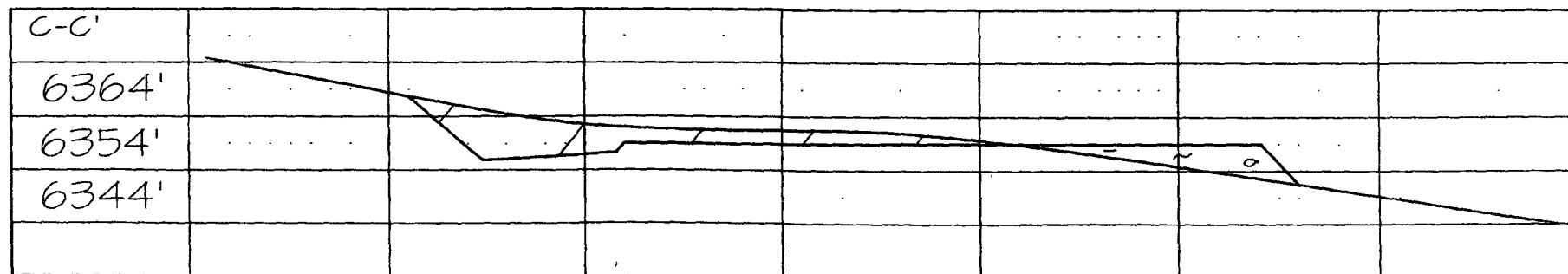
VERTICAL SCALE 1"=30'



C/L



C/L



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.