

RCVD MAR 7 '08

OIL CONS. DIV.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

DIST. 3

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED	5. Lease Number SF-078081 Unit Reporting Number NMNM-78394B-DIC
1b. Type of Well GAS	FEB 22 2008 Bureau of Land Management Farmington Field Office	6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON</b> 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
4. Location of Well Surf: Unit L(NWSW), 2460' FSL & 840' FWL  Surf: Latitude 36.54560° N Longitude 107.79988° W		9. Well Number #72E
		10. Field, Pool, Wildcat Basin Dakota
		11. Sec., Twn, Rge, Mer. (NMPM) L Sec. 28, T27N, R9W API # 30-045-34607
14. Distance in Miles from Nearest Town 26 miles/Bloomfield	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 840'		
16. Acres in Lease 1280 Acres	17. Acres Assigned to Well 320 Acres (W/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1150' from Huerfanito #72		
19. Proposed Depth 6869'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6357' GR	22. Approx. Date Work will Start 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	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Walker</u> Crystal Walker (Regulatory Technician)		2/21/08 Date

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

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

MAR 07 2008

NMOCB

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

RECEIVED  
FEB 22 2008

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number <b>30-045- 34607</b>	*Pool Code <b>71599</b>	*Pool Name <b>BASIN DAKOTA</b>
*Property Code <b>7139</b>	*Property Name <b>HUERFANITO UNIT</b>	*Well Number <b>72E</b>
*GRID No <b>14538</b>	*Operator Name <b>BURLINGTON RESOURCES OIL &amp; GAS COMPANY, LP</b>	*Elevation <b>6357'</b>

<sup>10</sup> Surface Location


UL or lot no. <b>L</b>	Section <b>28</b>	Township <b>27N</b>	Range <b>9W</b>	Lot Idn	Feet from the <b>2460</b>	North/South line <b>SOUTH</b>	Feet from the <b>840</b>	East/West line <b>WEST</b>	County <b>SAN JUAN</b>
---------------------------	----------------------	------------------------	--------------------	---------	------------------------------	----------------------------------	-----------------------------	-------------------------------	---------------------------

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. <b>L</b>	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
---------------------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

<sup>12</sup> Dedicated Acres <b>320.0 Acres - (W/2)</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

<div><p><sup>16</sup></p><p>5247.00'</p><p>LEASE USA SF-078081</p><p>2606.01'</p><p>840'</p><p>155'</p><p>1780'</p><p>2460'</p><p>5243.70'</p><p>28</p><p>LAT: 36.54560°N LONG: 107.79988°W DATUM: NAD83</p><p>LAT: 36°32.7356'N LONG: 107°47.9560'W DATUM: NAD27</p></div>	<div><p><sup>17</sup> 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 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</p><p><i>Crystal Walker</i> 2-21-08 Signature Date</p><p><b>Crystal Walker 2-21-08</b> Printed Name</p><p><sup>18</sup> 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>Date of Survey: AUGUST 5, 2007</p><p>Signature and Seal of Professional Surveyor</p><p></p><p><b>JASON C. EDWARDS</b> Certificate Number 15269</p></div>
---	---

Office

Energy, Minerals and Natural Resources

May 27, 2004

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.

30-045-34607

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil &amp; Gas Lease No

SF-078081

7. Lease Name or Unit Agreement Name

Huerfano Unit

8. Well Number

#72E

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, LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter L : 2460 feet from the South line and 840 feet from the West line  
Section 28 Township 27N Rng 9W NMPM County San Juan

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

6357' GR

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type

New Drill

Depth to Groundwater

&gt;100'

Distance from nearest fresh water well

&gt;1000'

Distance from nearest surface water

&lt;1000'

Pit Liner Thickness:

12

mil

Below-Grade Tank:

Volume

4400

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 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

*Crystal Walker*

TITLE

Regulatory Technician

DATE

2/21/2008

Type or print name

Crystal Walker

E-mail address:

crystal.walker@conocophillips.com

Telephone No.

505-326-9837

**For State Use Only**Deputy Oil & Gas Inspector,  
District #3

APPROVED BY

*[Signature]*

TITLE

DATE

MAR 07 2008

Conditions of Approval (if any):

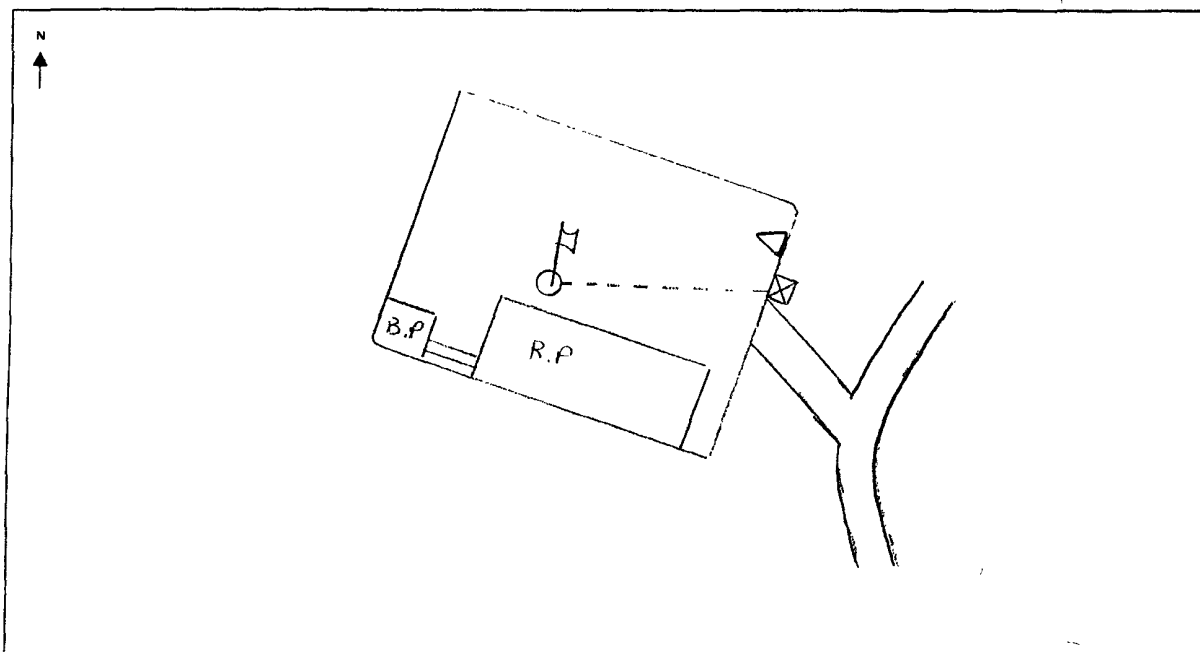


TECHNICAL SERVICES  
A CORROSION COMPANY

### CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Huertanito Unit #72E LEGALS L-28-27-9 COUNTY San Juan

PURPOSED C.P. SYSTE~~M~~M: Drill GB and set solar on NE edge of location (N side of access road. Trench approx 200' ap #8 neg from purposed well to solar.



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

COMMENTS: \_\_\_\_\_

NEAREST POWER SOURCE N/A DISTANCE: \_\_\_\_\_

PIPELINES IN AREA: \_\_\_\_\_

TECHNICIAN: Michelle Hinojosa DATE: 9/5/07

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 72E

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7215		AFE \$: 580,777.80	
Field Name: hBR_SAN JUAN		Rig: XXX Deferred RAM		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: Datum Code: NAD 27

Latitude: 36.545591	Longitude: -107.799265	X:	Y:	Section: 28	Range: 009W
Footage X: 840 FWL	Footage Y: 2460 FSL	Elevation: 6357 (FT)	Township: 027N		

Tolerance:

Location Type: Year Round	Start Date (Est.): 1/1/2020	Completion Date:	Date In Operation:
---------------------------	-----------------------------	------------------	--------------------

Formation Data: Assume KB = 6369 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Total Depth	0	6369	<input type="checkbox"/>			
Surface Casing	320	6049	<input type="checkbox"/>			12 1/4" hole 320' 8 5/8" 24 ppf, J-55, STC casing. Cement with 319 cuft. Circulate cement to surface.
OJO ALAMO	1269	5100	<input type="checkbox"/>			
KIRTLAND	1426	4943	<input type="checkbox"/>			
FRUITLAND	1849	4520	<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	2204	4165	<input type="checkbox"/>			
LEWIS	2293	4076	<input type="checkbox"/>			
HUERFANITO BENTONITE	2660	3709	<input type="checkbox"/>			
CHACRA	3085	3284	<input type="checkbox"/>			
MASSIVE CLIFF HOUSE	3729	2640	<input type="checkbox"/>			
MENEFEE	3847	2522	<input type="checkbox"/>			
MASSIVE POINT LOOKOUT	4511	1858	<input type="checkbox"/>			GAS
MANCOS	4829	1540	<input type="checkbox"/>			
UPPER GALLUP	5692	677	<input type="checkbox"/>			
GREENHORN	6507	-138	<input type="checkbox"/>			
GRANEROS	6560	-191	<input type="checkbox"/>			
TWO WELLS	6588	-219	<input type="checkbox"/>	1270		Gas
PAGUATE	6678	-309	<input type="checkbox"/>			
UPPER CUBERO	6741	-372	<input type="checkbox"/>			
LOWER CUBERO	6751	-382	<input type="checkbox"/>			
ENCINAL	6802	-433	<input type="checkbox"/>			
TOTAL DEPTH DK	6869	-500	<input type="checkbox"/>			7 7/8" Hole. 4 1/2" csg, 11.6 ppf, N-80, LTC casing. Cement with 2047 cuft. Circulate cement to surface.

## Reference Wells:

Reference Type	Well Name	Comments
Intermediate	Huerfanito 72	45-06226
Production	Mobil NM B COM 1E	45-24355

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANITO UNIT 72E

DEVELOPMENT

## Logging Program:

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

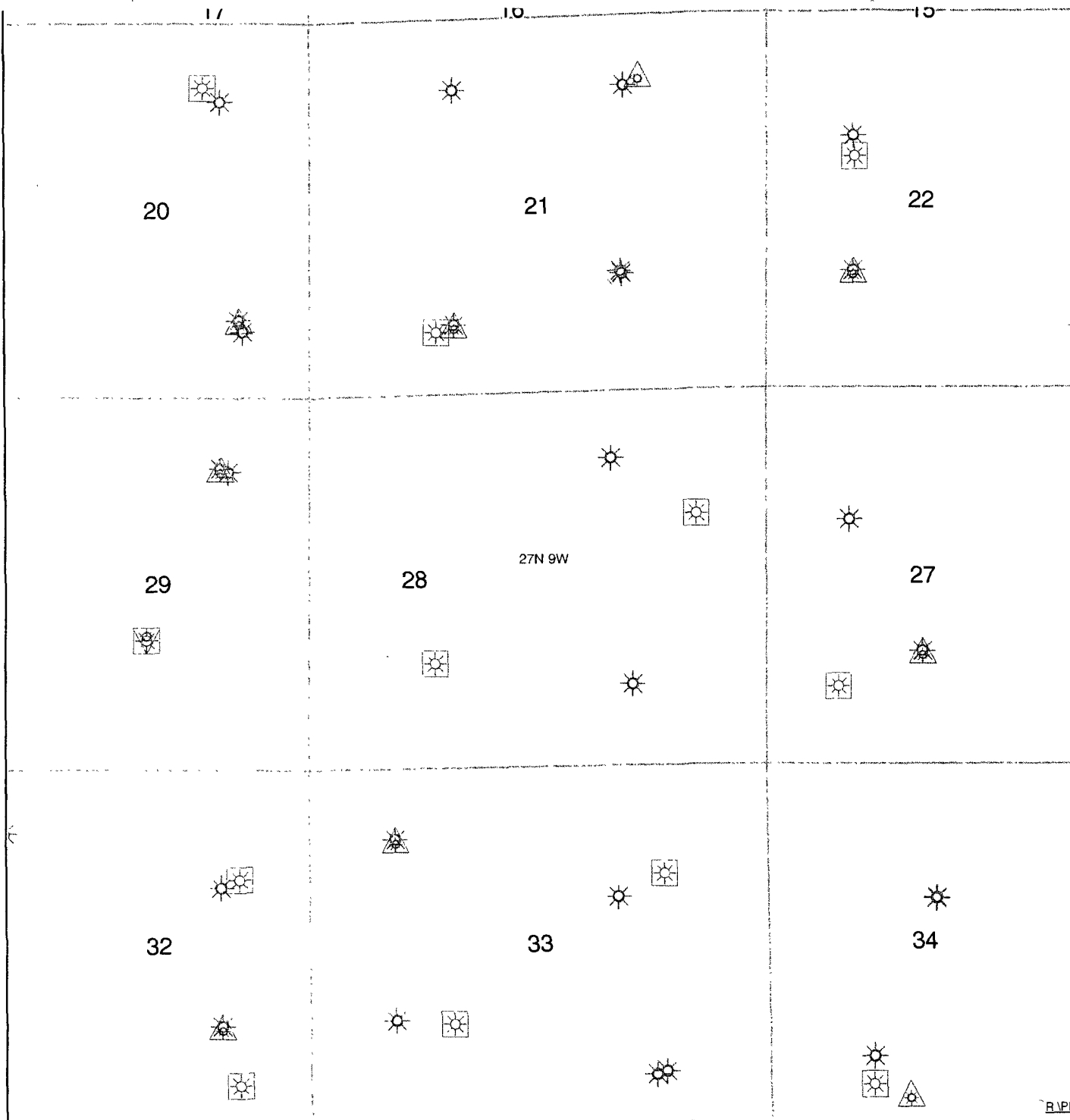
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Bottom perf 20 ft above TD. GR\_CBL

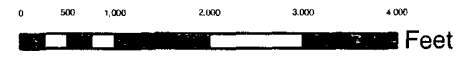
## Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
----------	-------	-----------	---------	----------------	---------

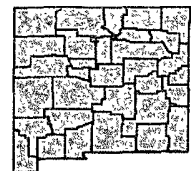
Comments:



- Sections  
Townships  
States
- <all other values>
  - FARMINGTON
  - FRUITLAND
  - FRUITLAND COAL
  - FRUIT/PC
  - FRUITLAND-PICTURED CLIFF
  - PICTURED CLIFFS
  - MESAVERDE
  - DAKOTA
  - WATER



1:24,000 - 1" equals 2,000'  
GCS North American 1927



**ConocoPhillips**  
© Unpublished Work, ConocoPhillips

Huerfanito Unit 72E  
Map 1A  
Sec 28 T27N R9W

Author:	Date: 8/30/2007
Compiled by:	Scale: <Scale>
R:\Plots\Projects\Map 1A_Regulatory\Map 1A.mxd	

~ SURFACE OWNER ~

Bureau of Land Management

LATITUDE: 36°32.7356'N  
LONGITUDE: 107°47.9560'W  
DATUM: NAD1927

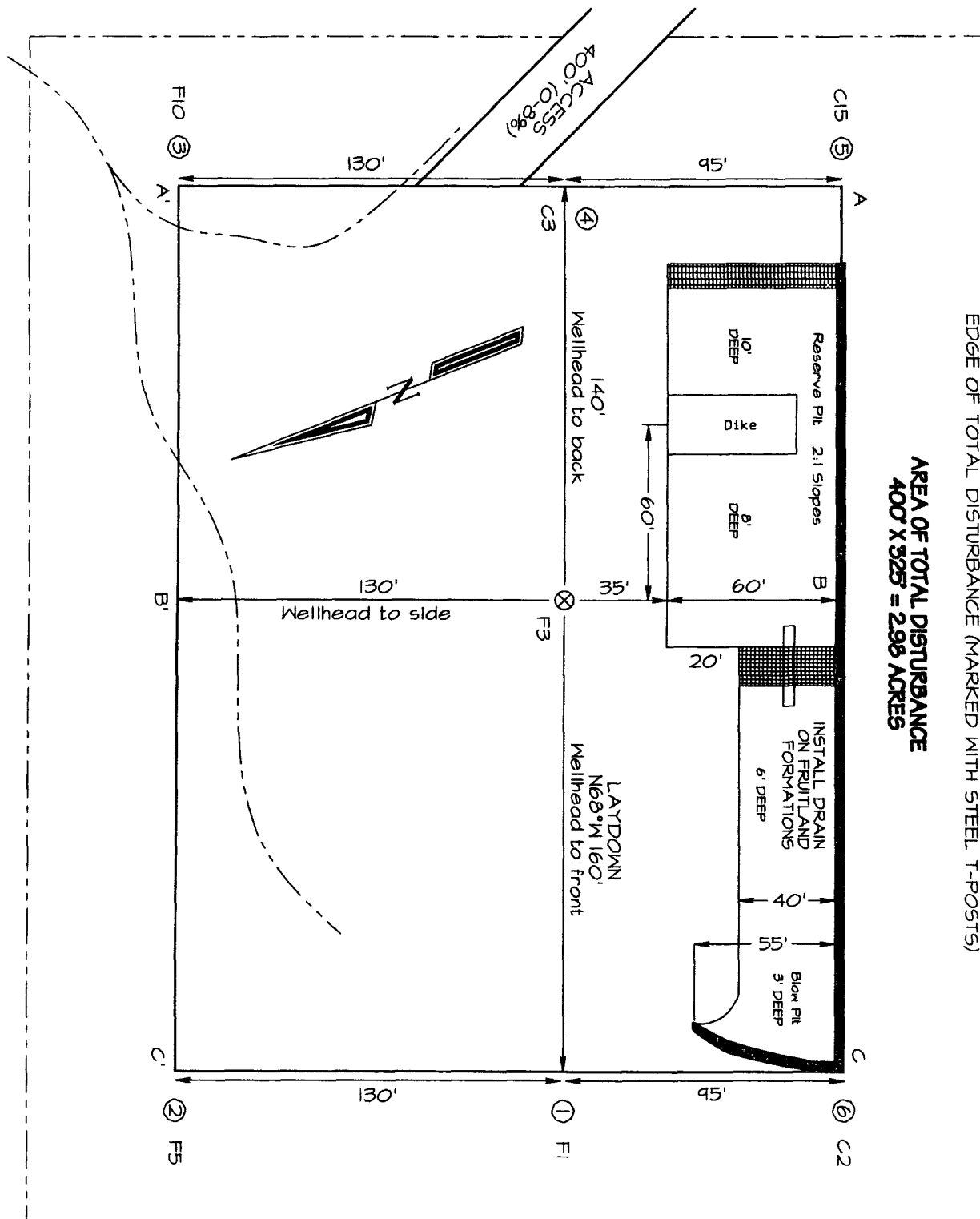
GRAPHIC SCALE 1"=50'

0 50 100

BURLINGTON RESOURCES OIL & GAS COMPANY HUERFANITO UNIT #72E  
2460' FSL & 840' FWL, SECTION 28, T27N, R9W, NMPM  
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6357'

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.

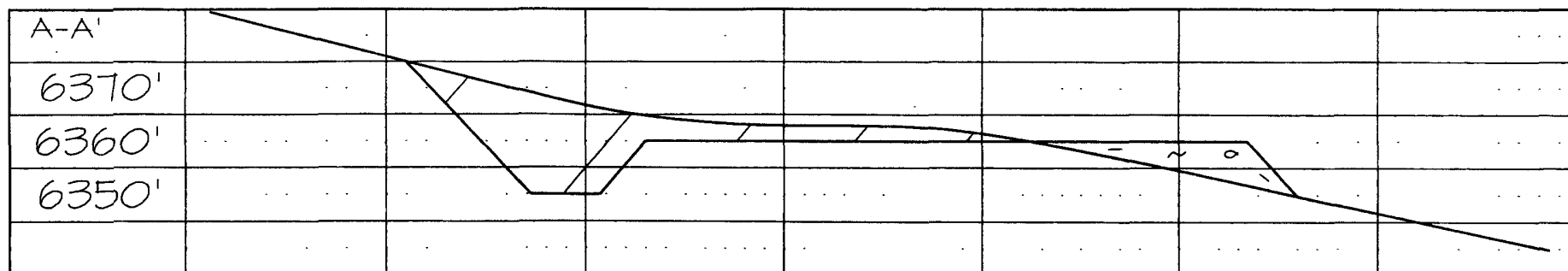


**BURLINGTON RESOURCES OIL & GAS COMPANY HUERFANITO UNIT #72E**  
**2460' FSL & 840' FWL, SECTION 28, T27N, R9W, NMPM**  
**SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6357'**

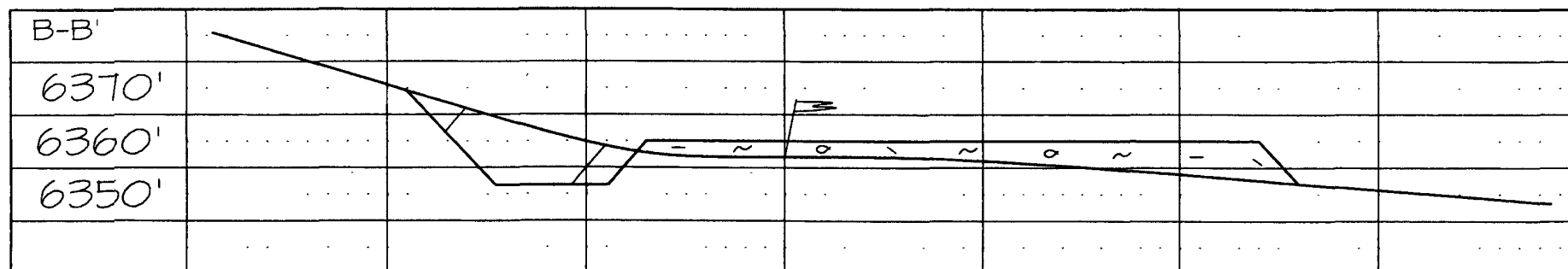
HORIZONTAL SCALE 1"=40'

C/L

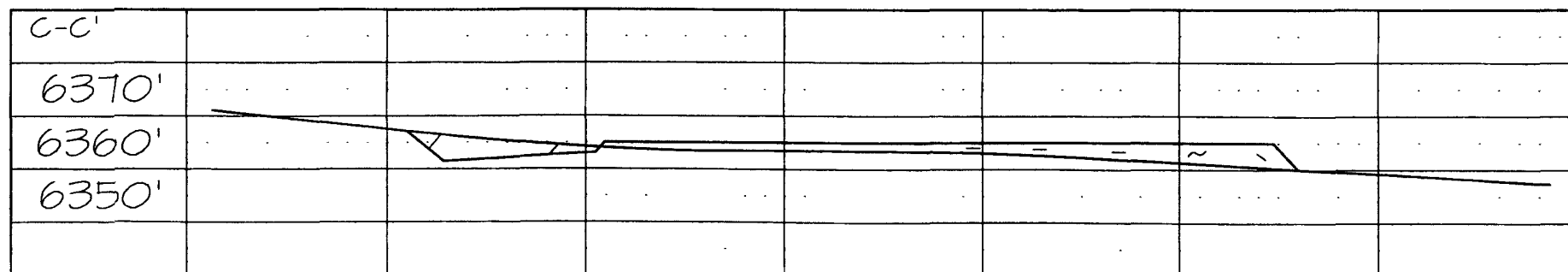
VERTICAL SCALE 1"=30'



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.